



Area Unit = 1ha

ZUCCHINI

2013

INCOME:		Item	Quantity	Rate	Price	standard budget	your budget
Anticipated Yield		1st Grade	1600 cartons/ha	@	\$ 13.00 /carton	\$ 20,800.00	
A. Gross Income/ha						\$ 20,800.00	
OPERATING COSTS:					\$ Cost		
Seed and Plants	Seed		3 kg/ha		\$ 450.00 /kg	\$ 1,350.00	
	Windbreaks		75 kg/ha		\$ 0.82 /kg	\$ 61.50	
Fertiliser	Single Super		400 kg/ha		\$ 0.48 /kg	\$ 192.00	
	Calcium Nitrate		175 kg/ha		\$ 0.76 /kg	\$ 133.00	
	Potassium Nitrate		175 kg/ha		\$ 1.32 /kg	\$ 231.00	
	Magnesium Nitrate		125 kg/ha		\$ 1.28 /kg	\$ 160.00	
	Micro Nutrients		5 L/ha		\$ 6.50 /L	\$ 32.50	
Fuel	Ground/Bed Preparation	15 L/hr	4 hr/ha		\$ 1.15 /L	\$ 69.00	
	Lay Mulch/Drip Tape	12 L/hr	1.3 hr/ha		\$ 1.15 /L	\$ 17.94	
	Sowing/Planting	12 L/hr	2 hr/ha		\$ 1.15 /L	\$ 27.60	
	Chemical Applications	12 L/hr	4 hr/ha		\$ 1.15 /L	\$ 55.20	
	Fertiliser Applications	15 L/hr	2 hr/ha		\$ 1.15 /L	\$ 34.50	
	Harvesting	10 L/hr	22 hr/ha		\$ 1.15 /L	\$ 253.00	
	Bucket/Bin Pick up	10 L/hr	8 hr/ha		\$ 1.15 /L	\$ 92.00	
Chemicals	Insecticide	1 application	2.0 L/ha		\$ 10.00 /L	\$ 20.00	
	Insecticide	1 application	0.75 L/ha		\$ 11.00 /L	\$ 8.25	
	Insecticide	1 application	0.12 kg/ha		\$ 1,620.00 /kg	\$ 194.40	
	Insecticide	1 application	2.0 L/ha		\$ 14.80 /L	\$ 29.60	
	Fungicide	1 application	2.2 kg/ha		\$ 8.25 /kg	\$ 18.15	
	Fungicide	1 application	1.2 L/ha		\$ 154.00 /L	\$ 184.80	
	Fungicide	2 applications	0.5 L/ha		\$ 290.00 /L	\$ 290.00	
Water	Drip Irrigation		4 ML/ha		\$ 60.00 /ML	\$ 240.00	
Labour	Tractor Driving	1 person	45.0 hr/ha		\$ 25.00 /hr	\$ 1,125.00	
	Lay Mulch/Drip Tape	2 people	1.0 hr/ha		\$ 25.00 /hr	\$ 50.00	
	Field (weeding)	1 person	15.0 hr/ha		\$ 18.00 /hr	\$ 270.00	
	Harvest	3 people	32 hr/ha		\$ 18.00 /hr	\$ 1,728.00	
	Harvest Bin Pickup	1 person	9 hr/ha		\$ 18.00 /hr	\$ 162.00	
	Packing (on-farm)	2 people	800 cartons/ha		\$ 0.50 /carton	\$ 800.00	
	Shed/Forklift	1 person	2.5 hr/ha		\$ 25.00 /hr	\$ 62.50	
Electricity/Gas	Irrigation Pumps		4 ML/ha		\$ 36.00 /ML	\$ 144.00	
	Packing Shed & Coolroom		44 hr/ha		\$ 1.05 /hr	\$ 46.20	
Packaging	Package Materials		1600 cartons		\$ 1.90 /carton	\$ 3,040.00	
Freight/Transport	Truck	88 cartons/ pallet space	\$ 115.00	cost per pallet space	\$1.31 /carton	\$ 2,096.00	
Other Costs	Levies		0.50%			\$ 104.00	
	Commissions		15%			\$ 3,120.00	
	Plastic Mulch		6000 m/ha		\$0.10 /m	\$ 600.00	
	Drip Tape		6000 m/ha		\$0.11 /m	\$ 660.00	
	Bee Hives		3 hives/ha		\$70.00 /hive	\$ 210.00	
B. Total Operating Costs						\$ 17,912.14	
Gross Margin per ha (A-B)						\$ 2,887.86	
Gross Margin /ML						\$ 721.97	

Break-even Price \$10.86/carton for 1600 cartons/ha

Break-even Yield 1202 cartons/ha @ \$13.00 /carton

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 (cartons)	DELIVERED PRICE (\$/carton)					
	11.00	12.00	13.00	14.00	15.00	16.00
1200	-\$2,050	-\$1,036	-\$22	\$992	\$2,006	\$3,020
1400	-\$933	\$250	\$1,433	\$2,616	\$3,799	\$4,982
1600	\$184	\$1,536	\$2,888	\$4,240	\$5,592	\$6,944
1800	\$1,301	\$2,822	\$4,343	\$5,864	\$7,385	\$8,906
2000	\$2,418	\$4,108	\$5,798	\$7,488	\$9,178	\$10,868

NOTES:

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

Locations - Sydney Basin, North Coast and Sunraysia are the main growing areas. Freedom from frosts is essential.

Production - Dark skinned varieties are popular. Niche markets exist for light skinned varieties and miniature fruit with flowers attached.

- Zucchini's are sown from September to late December.
- Plant spacing 50 to 100 cm. Single row/bed 1.5 to 2.0 m wide. Plant population 6,000 to 13,000 per ha.
- Well drained light soils and raised beds help minimise risks of root diseases.
- Plastic mulch and drip irrigation is common and helps reduce weeds and diseases.
- Water usage is 3 to 4 ML/ha and varies with soil, location and season.
- Fertiliser applications provide half of total nutrient requirement and most P requirement pre-planting.
- Remaining fertiliser as regular applications up to and during harvest maintains active growth and fruit set. Micronutrient applications improve crop and fruit quality.
- Bees are essential for pollination and high yields. Stocking rate of 2 to 4 hives/ha.

Pests, Diseases & Disorders - Aphids, thrips, Rutherglen bug, cutworm and pumpkin beetle are insect pests.

- Powdery mildew and mosaic viruses are disease problems.
- Where nematodes or soil diseases have occurred, crop and field rotation or preventative soil treatments are practiced.

Harvesting - Harvests occur from November to April. First harvest can commence 5 to 6 weeks after sowing.

- First harvests may include misshapen fruit caused by inadequate pollination conditions.
- Fruit is graded into small, medium, large sizes. Markets prefer fruit graded under 15 cm in length.

Packaging - Zucchini's are normally marketed in **10 kg cartons**.

Yields - Yields range from 12 to 18 tonne (1,200 to 1,800 cartons) per hectare.

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: INT13/37830