



Area Unit = 1ha

## CAPSICUM

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	3000 cartons/ha	@	\$ 10.50 /carton	\$ 31,500.00	
<b>A. Gross Income/ha</b>					<b>\$ 31,500.00</b>	
<b>OPERATING COSTS:</b>				<b>\$ Cost</b>		
<b>Seed and Plants</b>	Seedling Transplants	25000 plants/ha		\$ 200.00 /1000	\$ 5,000.00	
<b>Fertiliser</b>	Single Super	450 kg/ha		\$ 0.48 /kg	\$ 216.00	
	Calcium Nitrate	300 kg/ha		\$ 0.76 /kg	\$ 228.00	
	Potassium Nitrate	360 kg/ha		\$ 1.32 /kg	\$ 475.20	
	Magnesium Nitrate	400 kg/ha		\$ 1.28 /kg	\$ 512.00	
	Micro Nutrients	5 L/ha		\$ 6.50 /L	\$ 32.50	
<b>Fuel</b>	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	
	Transplanting	12 L/hr	7.0 hr/ha	\$ 1.15 /L	\$ 96.60	
	Chemical Applications	12 L/hr	7.0 hr/ha	\$ 1.15 /L	\$ 96.60	
	Fertiliser Applications	12 L/hr	4.0 hr/ha	\$ 1.15 /L	\$ 55.20	
	Harvesting & Bin Pick up	10 L/hr	6.0 hr/ha	\$ 1.15 /L	\$ 69.00	
<b>Chemicals</b>	Insecticide	2 applications	1.0 kg/ha	\$ 48.60 /kg	\$ 97.20	
	Insecticide	2 applications	0.75 L/ha	\$ 11.00 /L	\$ 16.50	
	Insecticide	1 application	0.3 L/ha	\$ 64.65 /L	\$ 19.40	
	Insecticide	1 applications	1.7 L/ha	\$ 161.16 /L	\$ 273.97	
	Insecticide	2 applications	0.3 L/ha	\$ 54.40 /L	\$ 32.64	
	Fungicide	2 applications	2.2 kg/ha	\$ 12.00 /kg	\$ 52.80	
	Fungicide	2 applications	3.0 kg/ha	\$ 8.24 /kg	\$ 49.44	
	Sunscreen	2 applications	25.0 kg/ha	\$ 5.60 /kg	\$ 280.00	
<b>Water</b>	Drip Irrigation		4 ML/ha	\$ 60.00 /ML	\$ 240.00	
<b>Labour</b>	Tractor Driving	1 person	28 hr/ha	\$ 25.00 /hr	\$ 700.00	
	Lay Mulch/Drip Tape	2 people	1.3 hr/ha	\$ 25.00 /hr	\$ 65.00	
	Transplanting	3 people	7 hr/ha	\$ 18.00 /hr	\$ 378.00	
	Harvest	4 people	44 hr/ha	\$ 18.00 /hr	\$ 3,168.00	
	Wash, Grade & Pack	4 people	750 cartons/ha	\$ 0.52 /carton	\$ 1,560.00	
<b>Electricity/Gas</b>	Irrigation Pumps		4 ML/ha	\$ 36.00 /ML	\$ 144.00	
	Packing Shed & Coolroom		44 hr/ha	\$ 1.05 /hr	\$ 46.20	
<b>Packaging</b>	Package Materials		3000 cartons/ha	\$1.60 /carton	\$ 4,800.00	
<b>Freight/Transport</b>	Truck	96 cartons/ pallet space	\$ 115.00	cost per pallet space \$1.20 /carton	\$ 3,593.75	
<b>Other Costs</b>	Levies		0.50%		\$ 157.50	
	Agents Commission		15%		\$ 4,725.00	
	Plastic Mulch		6000 m/ha	0.10 /m	\$ 600.00	
	Drip Tape		6000 m/ha	0.11 /m	\$ 660.00	
	Bin Hire	14 days	50 bins/ha	\$0.40 /bin	\$ 280.00	
<b>B. Total Operating Costs</b>					<b>\$ 28,807.44</b>	
<b>Gross Margin per ha (A-B)</b>					<b>\$ 2,692.57</b>	
<b>Gross Margin /ML</b>					<b>\$ 673.14</b>	

Break-even Price	\$9.44 / box for 3000 cartons/ha
Break-even Yield	2515 cartons / ha @ \$10.50 / 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.



## CAPSICUM

2013

### SENSITIVITY ANALYSIS

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

YIELD (cartons)	DELIVERED PRICE (\$/carton)					
	8.50	9.50	10.50	11.50	12.50	13.50
2000	-\$6,242	-\$4,552	-\$2,862	-\$1,172	\$518	\$2,208
2500	-\$4,310	-\$2,197	-\$85	\$2,028	\$4,140	\$6,253
<b>3000</b>	-\$2,377	\$158	<b>\$2,693</b>	\$5,228	\$7,763	\$10,298
3500	-\$445	\$2,512	\$5,470	\$8,427	\$11,385	\$14,342
4000	\$1,487	\$4,867	\$8,247	\$11,627	\$15,007	\$18,387

#### NOTES:

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

**Area** - The Sydney Basin, Central Tablelands, Riverina and Sunraysia are the main growing locations.

**Production**

- Bell shaped capsicums are the most common type. Green capsicums are commonly marketed.
- Red capsicums return higher prices. All varieties require warm to hot conditions for growth and fruit set.
- Two rows are usually sown on 1.5 to 1.8 m beds with plants spaced about 40 to 50 cm apart.
- Plant populations range from 25,000 to 30,000 plants per hectare.
- Plastic mulch and drip irrigation is common and helps reduce weeds and diseases.
- Water usage is 3 to 4 ML/ha (drip irrigation) and varies with soil, location and season.
- Fertiliser applications provide half of total nutrient requirement and most P requirement pre-planting.
- Micronutrient applications improve crop and fruit quality.
- Blossom-end rot can be a problem if irrigation stress occurs and causes calcium deficiency.
- Capsicum growing practices are similar to tomato and eggplant, however pests and diseases are different.

**Pests, Diseases & Disorders**

- Heliothis, thrips and aphids are the main insects.
- Nematodes can infect roots causing plants to wilt and be stunted.
- Tomato spotted wilt virus, mosaic virus, powdery mildew and bacterial fruit rots are diseases which occur in certain conditions. Virus infection is best prevented by maintaining hygiene, weed control and insect control.
- Calcium deficiency causes blossom end rot.
- Scarring on fruit is usually caused by thrips feeding during flowering.

**Harvesting** - Fruit is ready for harvest 14 to 15 weeks after transplanting.

**Packaging** - Capsicums are usually marketed in **8 kg cartons**.

**Yields**

- Average yields of 3,000 cartons per hectare can be expected (varies with plant population and crop health).
- Higher yields are achieved using intensive management options (i.e. plastic mulch and drip irrigation).

**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: INT13/37813