



standard

your budget

Area Unit = 1 ha ROCKMELON 2013

NCOME: Step 1800 Cantons Rate Price \$23,400.00											standard budget
Part	INCOME:	ltem	Quanti	ty	Ra	ate		Price	е		J
Seed and Plants	Anticipated Yield	1st Grade	1800 car	rtons		@	\$	13.00	/carton	\$	23,400.00
Seed and Plants						A. Gross Income/ha					23,400.00
Seed and Plants	OPERATING CO	ete.						¢ Co.	54		
Fertiliser Single Super					25 000		Φ			φ	1 250 00
Fertiliser	Seed and Plants										-
Calcium Nitrate		Willubleans (celeal seed)			75	ку/па	φ	0.02	/kg	φ	01.50
Potassium Nitrate 350 kgha \$ 1.32 kg \$ 462.00 Magnesium Nitrate 150 kgha \$ 1.32 kg \$ 192.00 Micro Nutrients 15 L/hr 3.8 hr/ha \$ 6.50 L/h \$ 32.50	Fertiliser	Single Super			350	kg/ha	\$	0.48	/kg	\$	168.00
Magnesium Nitrate 150 kg/ha \$ 1.28 /kg \$ 122.00		Calcium Nitrate			450	kg/ha	\$	0.76	/kg	\$	342.00
Fuel Ground/Bed Preparation 15 L/hr 3.8 hr/ha \$ 1.15 L \$ 65.55 L Ay Mulch/Drip Tape 12 L/hr 1.2 hr/ha \$ 1.15 L \$ 65.55 C Chemical Applications 10 L/hr 1.5 hr/ha \$ 1.15 L \$ 16.56 Fertiliser Applications 10 L/hr 1.5 hr/ha \$ 1.15 L \$ 17.25 Fertiliser Applications 12 L/hr 0.8 hr/ha \$ 1.15 L \$ 17.25 Fertiliser Applications 12 L/hr 0.8 hr/ha \$ 1.15 L \$ 11.04 Harvesting/Bin Pick Up 12 L/hr 2.10 hr/ha \$ 1.15 L \$ 289.80 Chemicals Insecticide 2 applications 2.00 L/ha \$ 10.00 L \$ 40.00 Insecticide 2 applications 0.75 L/ha \$ 11.00 L \$ 40.00 Insecticide 2 applications 0.75 L/ha \$ 11.00 L \$ 16.50 Fungicide 2 applications 2.20 kg/ha \$ 8.24 kg \$ 36.26 Fungicide 1 application 0.50 L/ha \$ 154.00 L \$ 184.80 Fungicide 1 application 0.50 L/ha \$ 154.00 L \$ 145.00 Fungicide 2 applications 0.25 L/ha \$ 150.00 L \$ 145.00 Fungicide 2 applications 0.25 L/ha \$ 100.00 L \$ 145.00 Fungicide 1 application 0.50 L/ha \$ 25.00 hr \$ 60.00 Fungicide 2 applications 0.25 L/ha \$ 100.00 L \$ 45.00 Fungicide 2 applications 0.25 L/ha \$ 100.00 L \$ 50.00 Water Drip Irrigation 1 person 27.5 hr/ha \$ 25.00 hr \$ 687.50 Labour Tractor Driving 1 person 27.5 hr/ha \$ 25.00 hr \$ 687.50 Lay Mulch/Drip Tape 2 people 1.2 hr/ha \$ 25.00 hr \$ 687.50 Lay Mulch/Drip Tape 2 people 1.2 hr/ha \$ 25.00 hr \$ 60.00 Harvest 2 people 32 bins/ha \$ 30.00 his \$ 1.920.00 Shed/Forklift 1 person 2.5 hr/ha \$ 25.00 hr \$ 62.50 Packing (on-farm) 2 people 900 cartons \$ 0.25 /carton \$ 3.000 Packaging Package Materials 1800 cartons \$ 1600 Packaging Package Materials 1800 cartons \$ 1800 Packaging Package Materials 1800 cartons 5850 m/ha \$ 50.10 hr \$ 643.50 Packaging Package Materials 1800 cartons 5850 m/ha \$ 50.40 /bin/day \$ 768.00		Potassium Nitrate			350	kg/ha	\$	1.32	/kg	\$	462.00
Fuel Ground/Bed Preparation 15 L/hr 3.8 hr/ha \$ 1.15 /L \$ 65.55		Magnesium Nitrate			150	kg/ha	\$	1.28	/kg	\$	192.00
Lay Mulch/Drip Tape 12 L/hr 1.2 hr/ha \$ 1.15 /L \$ 16.56		Micro Nutrients			5	L /ha	\$	6.50	/L	\$	32.50
Sowing	Fuel	Ground/Bed Preparation	15 L/hr	r	3.8	hr/ha	\$	1.15	/L	\$	65.55
Chemical Applications		Lay Mulch/Drip Tape	12 L/hr	r	1.2	hr/ha	\$	1.15	/L	\$	16.56
Fertiliser Applications		Sowing	12 L/hr	r	0.4	hr/ha	\$	1.15	/L	\$	
Harvesting/Bin Pick Up 12 L/hr 21.0 hr/ha \$ 1.15 /L \$ 289.80		Chemical Applications	10 L/hr	r	1.5	hr/ha	\$	1.15	/L	\$	17.25
Chemicals		Fertiliser Applications	12 L/hr	r	0.8	hr/ha	\$	1.15	/L	\$	11.04
Insecticicide		Harvesting/Bin Pick Up	12 L/hr	r	21.0	hr/ha	\$	1.15	/L	\$	289.80
Insecticide	Chemicals	Insecticide	2 appl	lications	2.00	L/ha	\$	10.00	/L	\$	40.00
Fungicide		Insecticide	2 appl	lications	0.75	L/ha	\$	11.00	/L		16.50
Fungicide		Fungicide	2 appl	lications			\$	8.24	/kg		
Fungicide		_				•			•		
Fungicide 1 application 0.30 L/ha \$ 150.00 /L \$ 45.00					0.50	L/ha	\$	290.00	/L		145.00
Fungicide 2 applications 0.25 L/ha \$ 100.00 /L \$ 50.00		_			0.30	L/ha	\$	150.00	/L		45.00
Labour Tractor Driving 1 person 27.5 hr/ha \$ 25.00 /hr \$ 687.50		Fungicide	2 appl	lications	0.25	L/ha	\$	100.00	/L		50.00
Lay Mulch/Drip Tape	Water	Drip Irrigation			4	ML/ha	\$	60.00	/ML	\$	240.00
Lay Mulch/Drip Tape 2 people 1.2 hr/ha \$ 25.00 /hr \$ 60.00	Labour	Tractor Driving	1 pers	son	27.5	hr/ha	\$	25.00	/hr	\$	687.50
Harvest 2 people 32 bins/ha \$ 30.00 /bin \$ 1,920.00			2 peop	ple	1.2	hr/ha		25.00	/hr		60.00
Shed/Forklift			1 pers	son	2.0	hr/ha	\$	25.00	/hr		50.00
Packing (on-farm) 2 people 900 cartons \$ 0.25 /carton \$ 450.00		Harvest	2 peop	ple	32	bins/ha	\$	30.00	/bin	\$	1,920.00
Electricity/Gas		Shed/Forklift	1 pers	son	2.5	hr/ha	\$	25.00	/hr	\$	62.50
Packing Shed & Cool Room 60 hr/ha \$ 1.05 /hr \$ 63.00 Packaging Package Materials 1800 cartons \$ 2.25 /carton \$ 4,050.00 Freight/Transport Truck 56 pallet space \$ 115.00 pallet space \$ 2.05 /carton \$ 3,697.20 Other Costs Agent's Commissions Plastic Mulch Drip Tape 5850 m/ha \$ 90.10 /m \$ 585.00 Bin Hire 30 days 64 bins/ha \$ 0.40 /bin/day \$ 768.00 Bee Hives 3 hives/ha \$ 70.00 /hive \$ 210.00 Break-even Price \$ 11.18 / carton for 1800 cartons/ ha Gross Margin per ha (A-B) \$ 2,828.02		Packing (on-farm)	2 peop	ple	900	cartons	\$	0.25	/carton	\$	450.00
Packaging Package Materials 1800 cartons \$ 2.25 /carton \$ 4,050.00 Freight/Transport Truck 56 pallet space \$ 115.00 pallet space \$ 2.05 /carton \$ 3,697.20 Other Costs Agent's Commissions Plastic Mulch Drip Tape 5850 m/ha \$ 0.10 /m \$ 585.00 Bin Hire 30 days 64 bins/ha \$ 0.40 /bin/day 768.00 Bee Hives 3 hives/ha \$ 70.00 /hive 210.00 Break-even Price \$ 11.18 / carton 1800 cartons/ ha Gross Margin per ha (A-B) \$ 2,828.02	Electricity/Gas	Irrigation Pumps			4	ML/ha	\$	36.00	/ML	\$	144.00
Freight/Transport Truck 56 pallet space \$ 115.00 pallet space \$ 2.05 /carton \$ 3,697.20 Other Costs Agent's Commissions Plastic Mulch Drip Tape 15% \$ 3,510.00 \$ 585.00 Bin Hire Bin Hire Bee Hives 30 days 64 bins/ha \$0.10 /m \$643.50 \$ 643.50 Bee Hives 30 days 64 bins/ha \$0.40 /bin/day \$768.00 \$ 768.00 B. Total Operating Costs \$ 20,571.98 Break-even Price \$11.18 / carton for 1800 cartons/ ha Gross Margin per ha (A-B) \$ 2,828.02		Packing Shed & Cool Room			60	hr/ha	\$	1.05	/hr	\$	63.00
Freight/Transport Truck 56 pallet space \$ 115.00 pallet space \$2.05 /carton \$ 3,697.20 Other Costs Agent's Commissions Plastic Mulch Drip Tape 5850 m/ha \$0.10 /m \$ 585.00 Bin Hire Bee Hives 30 days Bee Hives 64 bins/ha \$0.40 /bin/day \$ 768.00 Break-even Price \$11.18 / carton for 1800 cartons/ ha Gross Margin per ha (A-B) \$ 2,828.02	Packaging	Package Materials			1800	cartons	\$	2.25	/carton	\$	4,050.00
Plastic Mulch Drip Tape Bin Hire Bee Hives Break-even Price Plastic Mulch Drip Tape S850 m/ha S0.10 /m \$ 585.00 5850 m/ha \$0.11 /m \$ 643.50 64 bins/ha \$0.40 /bin/day \$ 768.00 3 hives/ha \$70.00 /hive \$ 210.00 B. Total Operating Costs \$ 20,571.98 Gross Margin per ha (A-B) \$ 2,828.02	Freight/Transport	Truck			115.00	•		\$2.05	/carton	\$	3,697.20
Drip Tape 5850 m/ha \$0.11 /m \$643.50 Bin Hire 30 days 64 bins/ha \$0.40 /bin/day \$768.00 Bee Hives 3 hives/ha \$70.00 /hive \$210.00 B. Total Operating Costs \$20,571.98 Break-even Price \$11.18 / carton for 1800 cartons/ ha Gross Margin per ha (A-B) \$2,828.02	Other Costs	Agent's Commissions			15%					\$	3,510.00
Bin Hire 30 days 64 bins/ha \$0.40 /bin/day \$ 768.00 Bee Hives 3 hives/ha \$70.00 /hive \$ 210.00 B. Total Operating Costs \$ 20,571.98 Break-even Price \$11.18 / carton for 1800 cartons/ ha Gross Margin per ha (A-B) \$ 2,828.02		Plastic Mulch			5850	m/ha		\$0.10	/m	\$	585.00
Bee Hives 3 hives/ha \$70.00 /hive \$ 210.00 B. Total Operating Costs \$ 20,571.98 Break-even Price \$11.18 / carton for 1800 cartons/ ha Gross Margin per ha (A-B) \$ 2,828.02		Drip Tape			5850	m/ha		\$0.11	/m	\$	643.50
B. Total Operating Costs \$ 20,571.98 Break-even Price \$11.18 / carton for 1800 cartons/ ha Gross Margin per ha (A-B) \$ 2,828.02		Bin Hire	30 day	ys .	64	bins/ha		\$0.40	/bin/day	\$	768.00
Break-even Price \$11.18 / carton for 1800 cartons/ ha Gross Margin per ha (A-B) \$ 2,828.02		Bee Hives			3	hives/ha		\$70.00	/hive	\$	210.00
						B. Total O	pera	ating Co	sts	\$	20,571.98
Break-even Yield 1285 cartons / ha @ \$13.00 / carton Gross Margin /ML \$ 707.01	Break-even Price \$11.18 / carton for 1800 cartons/ ha Gross Margin per ha (A-B)						\$	2,828.02			
	Break-even Yield 1285 cartons / ha @ \$13.00 / carton Gross Margin /ML						\$	707.01			

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.

ROCKMELON

SENSITIVITY ANALYSIS

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

YIELD	DELIVERED PRICE \$/Carton								
(cartons)	11.00	12.00	13.00	14.00	15.00	16.00			
1200	-\$2,470	-\$1,450	-\$430	\$590	\$1,610	\$2,630			
1500	-\$1,351	-\$76	\$1,199	\$2,474	\$3,749	\$5,024			
1800	-\$232	\$1,298	\$2,828	\$4,358	\$5,888	\$7,418			
2100	\$887	\$2,672	\$4,457	\$6,242	\$8,027	\$9,812			
2400	\$2,006	\$4,046	\$6,086	\$8,126	\$10,166	\$12,206			

NOTES:

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

Area - Riverina, Sunraysia, Balranald and Bourke are the main growing areas. Freedom from frosts is essential.

Production - 'Western Shipper' and extended shelf life (ESL) types are grown.

- Soils with good drainage is best. Soil temperature of 16℃ at 4 cm is needed for germination.
- Plants are spaced 300 to 400 mm apart on beds 1.5 to 2.0 m apart. Plant population 11,000 18,000/ha.
- Planting dates vary with location. Sequential plantings occur from August (northern areas) to January.
- 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 good fruit set, 2 to 4 hives/ha.

Pests, Diseases - Leaf eating ladybeetles, pumpkin beetles, Rutherglen bug and aphids are main insect pests.

- & Disorders Powdery mildew, gummy stem blight, anthracnose are common diseases.
 - Molybdenum deficiency can occur in acid soils. Calcium deficiency causes blossom end rot.
- Harvesting Harvest occurs from December to May (varies with location).
 - Western shipper types are harvested at half to full slip stages. ESL types are clipped when mature.
- Packaging Trays (counts 5 to 9) weigh 15 kg. Cartons/boxes (counts 12 to 15 medium, 18 to 21 small or 24 very small melons) weigh 16 to18 kg. Octabins hold between 400 and 450 kg of melons.
 - Yields Yields vary from 20 to 35 tonne (1200 to 2000 cartons) per hectare.
 - Higher yields obtained using drip irrigation and plastic mulch compared to furrow 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: INT13/37827



