

Enterprise		CARROTS - FRESH			2001	
Unit	ha	Furrow Irrigation			Standard Budget	Your Budget
GROSS MARGIN BUDGET:				1 ha		
INCOME:						
	600 cartons/ha	Grade 1	@	\$8.00 /carton	\$4,800.00	
	900 bags/ha	Grade 2 Large	@	\$6.00 /bag	\$5,400.00	
	1500 units/ha			\$6.80 /unit*		
				A. Total Income/ha	\$10,200.00	
VARIABLE COSTS:						
Seed						
	Western Red		3 kg/ha	\$300.00 /kg	\$900.00	
Tractor costs						
Large equipment including labour, fuel, oil, etc						
	2 Cultivation		0.7 hr/ha	\$30.50 /hr	\$42.70	
	1 Lister		0.5 hr/ha	\$30.50 /hr	\$15.25	
	1 Drill Fertiliser		0.5 hr/ha	\$30.50 /hr	\$15.25	
	2 Bedform		0.5 hr/ha	\$30.50 /hr	\$30.50	
	1 Sidedress		0.5 hr/ha	\$30.50 /hr	\$15.25	
	1 Inter Row Cult'n		0.5 hr/ha	\$30.50 /hr	\$15.25	
	7 Boomspray		0.2 hr/ha	\$30.50 /hr	\$42.70	
	1 Sowing		2.5 hr/ha	\$24.50 /hr	\$61.25	
Irrigation						
	Water		5.5 ML/ha	\$17.36 /ML	\$95.48	
Fertiliser						
	Single Super		500 kg/ha	\$0.24 /kg	\$120.00	
	Ammonium nitrate		400 kg/ha	\$0.41 /kg	\$162.80	
	Micro nutrients Foliar		2 kg/ha	\$1.20 /kg	\$2.40	
Pest control						
	1 Insecticide		0.8 L/ha	\$8.75 /l	\$7.00	
	1 Insecticide		0.8 L/ha	\$14.90 /l	\$11.92	
	4 Fungicide		2.2 kg/ha	\$7.45 /kg	\$65.56	
Weed Control						
	1 Herbicide		2.8 L/ha	\$6.50 /L	\$18.20	
	1 Pre-emergent		2.0 kg/ha	\$3.60 /kg	\$7.20	
	1 Post emergent		1.0 L/ha	\$63.70 /L	\$63.70	
Harvesting (40 paddock Tonnes to get 30 marketable Tonnes)						
	Harvester		10 hr/ha	\$30.50 /hr	\$305.00	
	2 Bin Pick up		10 hr/ha	\$30.50 /hr	\$610.00	
	3 Casual labour		10 hr/ha	\$14.50 /hr	\$435.00	
	14 Bin Hire (14 days)		87 bins/ha	\$0.16 /bin-day	\$194.88	
Handling						
	Wash, grade & pack		1500 units	\$1.20 /unit	\$1,800.00	
	Cartons		600 cartons/ha	\$1.73 /carton	\$1,038.00	
	Plastic bags		900 bags/ha	\$0.28 /bag	\$252.00	
Freight						
	Markets		1500 units	\$0.90 /unit	\$1,350.00	
Levy						
				0.50%	\$51.00	
Agents commission						
				12.00%	\$1,224.00	
				B. Total Variable Costs	\$8,952.29	
				Gross Margin per ha (A-B)	\$1,247.71	
				Gross Margin per ML	\$226.86	

* weighted average price used

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 Agriculture over any other equivalent product from another manufacturer.

Enterprise

CARROTS - FRESH
 Furrow Irrigation

2001

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

YIELD (unit)	DELIVERED PRICE (\$/unit)					
	4.80	5.80	6.80	7.80	8.80	9.80
1000	-\$1,997	-\$1,122	-\$247	\$628	\$1,503	\$2,378
1250	-\$1,687	-\$594	\$500	\$1,594	\$2,688	\$3,781
1500	-\$1,377	-\$65	\$1,248	\$2,560	\$3,873	\$5,185
1750	-\$1,067	\$464	\$1,995	\$3,526	\$5,058	\$6,589
2000	-\$757	\$993	\$2,743	\$4,493	\$6,243	\$7,993

TABLE 2- Effect of Yield and Price on Gross Margin /ML

YIELD (unit)	DELIVERED PRICE (\$/unit)					
	4.80	5.80	6.80	7.80	8.80	9.80
1000	-\$363	-\$204	-\$45	\$114	\$273	\$432
1250	-\$307	-\$108	\$91	\$290	\$489	\$688
1500	-\$250	-\$12	\$227	\$465	\$704	\$943
1750	-\$194	\$84	\$363	\$641	\$920	\$1,198
2000	-\$138	\$180	\$499	\$817	\$1,135	\$1,453

The weighted average price shown in bold is based on the Flemington Market prices over a recent 12 month period.

NOTES:

- Area** - Sunraysia, MIA and Central Coast are the main growing areas.
- Production** - Sowing should be timed to avoid harvest during the months from December to March because of "bitter taste" problems and root rots. Carrots can be grown to supply markets for most of the year. Carrots at Sunraysia are usually nantes varieties, grown on sand hills, planted with 3 double rows on beds with overhead irrigation. Optimum plant densities range from 50 to 80 plants per square meter. Carrots at MIA are usually imperator varieties, grown on heavier clay soils, planted as single rows on hills with furrow irrigation. Plant densities range from 50 to 60 plants per meter row.
- Pests** - Aphids and leaf hoppers are the main insect pests with cavity spot and leaf blight the most common diseases.
- Harvesting** - Harvesting is almost all year round, with less during spring.
- The growing period is dependent on temperature and ranges from 14 to 24 weeks.
- Yields** - Paddock yields are up to 50 tonnes per hectare with carrots not suitable for packing either processed, sold as animal feed, dumped or ploughed in. One "dirty" (unwashed) bin of carrots contains approx. 15 cartons (20kg) of clean carrots.
- Packaging** - Growers usually supply better quality carrots in 20kg cartons and the rest in bags, except for up to 10% which may be supplied to local packing houses in bulk bins.
- Economic note** - **This budget is ONLY A GUIDE** and should be altered for movements in crop and input prices, changes in seasonal conditions and the farm characteristics.
- This budget does not include overhead costs or GST.