

Enterprise
Unit

ha

BURDOCK
Sprinkler Irrigation

2001
GROSS MARGIN BUDGET:
1 ha

 Standard
Budget

 Your
Budget

INCOME:

1000 cartons/ha @ \$20.00 /carton

\$20,000.00

A. Total Income/ha
\$20,000.00
VARIABLE COSTS:
Seed

2.5 kg/ha \$100.00 /kg

\$250.00

Tractor costs
Small equipment including labour, fuel, oil, etc

2 Cultivate	2.5 hr/ha	\$24.50 /hr	\$122.50
1 Lister	2.0 hr/ha	\$24.50 /hr	\$49.00
1 Drill Fertiliser	2.0 hr/ha	\$24.50 /hr	\$49.00
1 Bedform	2.0 hr/ha	\$24.50 /hr	\$49.00
2 Sidedressing	2.0 hr/ha	\$24.50 /hr	\$98.00
2 Incorporate herbicide	2.0 hr/ha	\$24.50 /hr	\$98.00
1 Sowing	2.5 hr/ha	\$24.50 /hr	\$61.25
3 Boomspray	0.5 hr/ha	\$24.50 /hr	\$36.75

Irrigation

Water	7.5 ML/ha	\$17.36 /ML	\$130.20
Pumping costs	7.5 ML/ha	\$30.00 /ML	\$225.00

Fertiliser

Starter Fertiliser	500 kg/ha	\$0.45 /kg	\$225.00
Urea	350 kg/ha	\$0.38 /kg	\$131.25

Pest control

1 Nematicide	24 L/ha	\$39.00 /L	\$936.00
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Weed control

2 Post emergent Chipping	0.75 L/ha	\$63.70 /L	\$95.55
	45 hr/ha	\$14.50 per hr	\$652.50

Harvesting

Slashing	2 hr/ha	\$24.50 /hr	\$49.00
Vibrating ripper	5 hr/ha	\$25.50 /hr	\$127.50
Hand harvesting	100 cartons/ha	\$14.50 /carton	\$1,450.00
Bin pick up	5 cartons/ha	\$24.50 /carton	\$122.50
14 Bin Hire (14 days)	20 bins/ha	\$0.16 /bin-day	\$44.80

Handling

Wash, grade & pack	1000 cartons/ha	\$5.00 /carton	\$5,000.00
Cartons	1000 cartons/ha	\$1.40 /carton	\$1,400.00

Freight

Markets	1000 cartons/ha	\$0.60 /carton	\$600.00
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Levy

0.50% \$100.00

Agents commission

12.00% \$2,400.00

B. Total Variable Costs
\$14,502.80

Break-even price \$14.50 /carton

Gross Margin per ha (A-B)
\$5,497.20

Break-even yield 725 cartons/ha

Gross Margin per ML
\$732.96
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.

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SENSITIVITY ANALYSIS

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

YIELD (carton)	DELIVERED PRICE (\$/carton)				
	18.00	19.00	20.00	21.00	22.00
800	\$1,997	\$2,697	\$3,397	\$4,097	\$4,797
900	\$2,872	\$3,660	\$4,447	\$5,235	\$6,022
1000	\$3,747	\$4,622	\$5,497	\$6,372	\$7,247
1100	\$4,622	\$5,585	\$6,547	\$7,510	\$8,472
1200	\$5,497	\$6,547	\$7,597	\$8,647	\$9,697

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

YIELD (carton)	DELIVERED PRICE (\$/carton)				
	18.00	19.00	20.00	21.00	22.00
800	\$266	\$360	\$453	\$546	\$640
900	\$383	\$488	\$593	\$698	\$803
1000	\$500	\$616	\$733	\$850	\$966
1100	\$616	\$745	\$873	\$1,001	\$1,130
1200	\$733	\$873	\$1,013	\$1,153	\$1,293

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

NOTES:

- Area** - Most Asian vegetables are grown in the Sydney basin with some grown in the MIA.
- Production** - Burdock can be sown in Spring or Autumn. Spring burdock can be sown as soon as the soil temperatures are above 10°C. Autumn sown burdock must be sown late so plants are still small when the first frost occurs. Very deep ripping is required to reduce chance of forking. Burdock is direct seeded with 10cm between plants and approximately 50cm between rows.
- Pests** - Nematodes are the main insect pest with powdery mildew and black root as the most common diseases. As no chemicals are presently registered in burdock, a minor use permit will be required if any are used.
- Harvesting** - Spring sown burdock will be ready for harvest about 4 to 5 months after sowing. Harvest when most roots are at least 70mm long. Over mature roots become woody and unacceptable in the market.
- Yields** - Yields of about 10 tones per hectare (1000 cartons) can be expected
- Packaging** - Roots are washed, trimmed and graded than packed into 10kg plastic lined cartons.
- 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.