



# Industry & Investment

## CABBAGES - Sprinkler irrigation

Farm Enterprise Budget Series

### Murrumbidgee Irrigation Area / Sydney Basin 2009

#### 1. GROSS MARGIN BUDGET:

	Standard Budget \$/ha	Your Budget \$/ha
<b>INCOME:</b>		
15,000 head/ha @ \$1.00 /head	\$15,000	
<b>A. TOTAL INCOME \$/ha:</b>	<b>\$15,000</b>	
<b>VARIABLE COSTS:</b>		
See following page for detail		
Transplants.....	\$1,000	
Tractor costs.....	\$357	
Irrigation.....	\$313	
Fertiliser.....	\$1,054	
Pest control.....	\$465	
Weed control.....	\$1,039	
Casual labour (packed in paddock).....	\$2,706	
Harvesting & Marketing.....	\$5,751	
<b>B. TOTAL VARIABLE COSTS \$/ha:</b>	<b>\$12,685</b>	
<b>C. GROSS MARGIN (A-B) \$/ha</b>	<b>\$2,315</b>	
<b>D. GROSS MARGIN \$/ML</b>	<b>\$579</b>	

#### 2. SENSITIVITY TABLES

##### 2.1 EFFECT OF YIELD AND PRICE ON GROSS MARGIN PER HECTARE

YIELD head/ha	Price \$/head				
	\$0.50/hd	\$0.75/ha	\$1.00/hd	\$1.25/hd	\$1.50/hd
10,000	-\$5,143	-\$2,956	-\$768	\$1,419	\$3,607
12,500	-\$4,695	-\$1,961	\$773	\$3,508	\$6,242
<b>15,000</b>	-\$4,248	-\$966	<b>\$2,315</b>	\$5,596	\$8,877
17,500	-\$3,800	\$28	\$3,856	\$7,685	\$11,513
20,000	-\$3,352	\$1,023	\$5,398	\$9,773	\$14,148

##### 2.2 EFFECT OF YIELD AND PRICE ON GROSS MARGIN PER MEGALITRE

YIELD head/ha	Price \$/head				
	\$0.50/hd	\$0.75/ha	\$1.00/hd	\$1.25/hd	\$1.50/hd
10,000	-\$1,286	-\$739	-\$192	\$355	\$902
12,500	-\$1,174	-\$490	\$193	\$877	\$1,561
<b>15,000</b>	-\$1,062	-\$242	<b>\$579</b>	\$1,399	\$2,219
17,500	-\$950	\$7	\$964	\$1,921	\$2,878
20,000	-\$838	\$256	\$1,349	\$2,443	\$3,537

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CALENDAR OF OPERATIONS:						
Operation	Machinery			Inputs		
	Hrs/ha	Cost \$/hr	Total \$/ha	Rate/ha	Cost	Total \$/ha
<i>Animal manure eg:poultry manure</i>				4000kg	\$0.05	\$200.00
Incorporate manure - disc	0.58	\$24.19	\$14.02			
Deep rip	1.18	\$31.45	\$37.11			
Broadcast base fertiliser <i>eg:single super</i>	0.1	\$24.91	\$2.49	200kg	\$0.51	\$101.00
<i>eg: Nitrophoska blue</i>				300kg	\$1.75	\$525.00
Scarify	0.42	\$22.85	\$9.60			
Lister	0.86	\$27.95	\$21.80			
Bedform	0.66	\$25.05	\$19.54			
Transplant seedlings (labour)	0.29	\$31.12	\$9.02	3hrs	\$22.00	\$66.00
Apply pre-emergent <i>eg: Stomp</i>	0.1	\$22.92	\$2.29	2L	\$9.20	\$15.40
Chipping weeds (labour)				40hrs	\$22.00	\$880.00
Side dressing fertiliser <i>eg: urea</i>	0.1	\$24.91	\$2.49	80kg	\$0.98	\$78.16
Apply post-emergent <i>eg: Fusilade</i>	0.1	\$22.92	\$2.29	0.3L	\$67.00	\$21.10
Downey mildew and leaf disease control <i>eg: Dithane</i>	0.1	\$22.92	\$2.29	2kg	\$7.81	\$15.62
Apply: <i>Sulphate of potash</i>				60kg	\$1.68	\$100.80
Foliar fertiliser <i>eg: sodium molybdate</i>	0.1	\$22.92	\$2.29	500g	\$63.00	\$31.50
Downey mildew and leaf disease control <i>eg: Dithane</i>	0.1	\$22.92	\$2.29	2kg	\$7.81	\$15.62
Aphid control <i>eg: Confidor 200</i>				300ml	\$109.09	\$32.73
<i>eg: Dimethoate 400</i>	0.1	\$22.92	\$2.29	750ml	\$12.00	\$9.00
Grub control <i>eg: Bt (Dipel)</i>	0.1	\$22.92	\$2.29	2kg	\$56.00	\$112.00
<i>eg: Proclaim</i>				400ml	\$27.50	\$11.00
<i>eg: Coragen</i>				100ml	\$800.00	\$80.00
Downey mildew and leaf disease control <i>eg: Bayfidan 25EC</i>	0.1	\$22.92	\$2.29	300ml		
<i>eg:Bravo</i>				2.6L		
Sticker eg; <i>Agral</i>				650ml	\$8.00	\$5.20
Irrigation				4ML	\$32.80	\$131.19
Pumping costs				4ML	\$45.50	\$182.00
Harvesting (packed in paddock)				80hrs	\$22.00	\$1,760.00
Trailer pickup	10	\$21.78	\$217.80			
Octabins				120	\$15.90	\$1,908.00
Cooling				120	\$2.00	\$240.00
Freight to markets				120	\$15.00	\$1,800.00
Levy				0.50%		\$75.00
Agents Commission				12%		\$1,800.00

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## AGRONOMIC NOTES

Area:	Bathurst (summer and autumn), Cowra, Wellington, Dubbo and MIA (winter and spring), Central Coast and Sydney Basin (year round) are the main growing regions
Production:	<p>Plant populations range from 30,000 to 50,000 plants per hectare. Two or three rows are usually sown on beds with an in-row spacing of 400mm.</p> <p>Need and application rate of poultry manure and single super should be based on soil tests. Many growers in Sydney Basin are investigating alternative nutrient sources such as the use of recycled organic composts.</p> <p>Growers should rotate pre-emergents between seasons. Dual Gold could be used to replace Stomp in this budget.</p> <p>Domestic markets usually require up to 3 whorls of outside leaves left around the head for protection while heads for export are usually cut bare.</p>
Pests:	Cabbage white butterfly and Diamondback moths are the major insect pests with club rot and Turnip mosaic virus the most common disease. Growers should rotate insecticides between seasons. Avatar and Belt could be used to replace Proclaim and Coragen.
Harvesting:	Crop maturity can vary between 60 days in summer and 130 days in winter. Harvesting is usually conducted in one pass but can take multiple cuts if there is uneven maturity.
Yields:	Yields are approximately 60 to 70% of transplant numbers.
Packaging:	Octabins and caged bins are mainly used for export, domestic and processing cabbages.
<b>Economic note:</b>	<b>This budget is a GUIDE ONLY</b> and should be altered for movements in crop and input prices, changes in seasonal conditions and farm characteristics. This budget does not include overhead costs or GST