

Enterprise
Unit

ha

POTATO - FRESH
2001

Winter Crop - Spray Irrigation

GROSS MARGIN BUDGET:
1 ha

Standard Budget	Your Budget
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INCOME:

25 t/ha @ \$300.00 /t

\$7,500.00

A. Total Income/ha
\$7,500.00
VARIABLE COSTS:
Seed

Own (From summer crop)	2800 kg/ha	\$0.20 /kg	\$560.00
Dusting	2 kg/t seed	\$30.00 /kg	\$168.00
Storage (coolroom)	6 bins/ha	\$5.00 /bin	\$30.00

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
1 Bedform	0.5 hr/ha	\$30.50 /hr	\$15.25
3 Broadcast	0.5 hr/ha	\$30.50 /hr	\$45.75
1 Sowing	1.6 hr/ha	\$30.50 /hr	\$48.80
4 Boomspray	0.2 hr/ha	\$30.50 /hr	\$24.40
1 Slash	0.3 hr/ha	\$30.50 /hr	\$9.15

Irrigation

Water (off-river)	4 ML/ha	\$2.50 /ML	\$10.00
Pumping costs	4 ML/ha	\$30.00 /ML	\$120.00

Fertiliser

Lime	2500 kg/ha	\$0.10 /kg	\$250.00
Complete	1000 kg/ha	\$0.44 /kg	\$440.00
Starter Fertiliser	500 kg/ha	\$0.45 /kg	\$223.50
Urea	250 kg/ha	\$0.38 /kg	\$93.75

Pest control

2 Fungicide	2.0 L/ha	\$22.15 /L	\$88.60
1 Insecticide	0.2 L/ha	\$28.40 /L	\$5.68
1 Insecticide	0.8 L/ha	\$39.60 /L	\$29.70

Weed Control

1 Herbicide	0.5 L/ha	\$6.50 /L	\$3.25
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Harvesting

Harvester	3 hr/ha	\$90.00 /hr	\$270.00
3 Casual labour	3 hr/ha	\$14.50 /hr	\$130.50
1 Bin Pick up	3 hr/ha	\$30.50 /hr	\$91.50
Bin Hire (14 days)	50 bins/ha	\$0.16 /bin-day	\$112.00

Handling

Pack & grade	500 bags	\$3.75 /bag	\$1,875.00
Bags	500 bags	\$1.00 /bag	\$500.00
Markets	500 bags	\$2.00 /bag	\$1,000.00

Freight Levy

0.50% \$37.50

Agents commission

\$20.00 /t \$500.00

B. Total Variable Costs
\$6,755.53

Break-even price	\$270.22 /t
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Gross Margin /ha (A-B)
\$744.47

Break-even yield	22.52 t/ha
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Gross Margin /ML
\$186.12
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 (t)	DELIVERED PRICE (\$/t)					
	200.00	250.00	300.00	350.00	400.00	450.00
15	-\$2,183	-\$1,437	-\$691	\$56	\$802	\$1,548
20	-\$1,963	-\$968	\$27	\$1,022	\$2,017	\$3,012
25	-\$1,743	-\$499	\$744	\$1,988	\$3,232	\$4,476
30	-\$1,523	-\$31	\$1,462	\$2,954	\$4,447	\$5,939
35	-\$1,303	\$438	\$2,179	\$3,921	\$5,662	\$7,403

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

YIELD (t)	DELIVERED PRICE (\$/t)					
	200.00	250.00	300.00	350.00	400.00	450.00
15	-\$546	-\$359	-\$173	\$14	\$200	\$387
20	-\$491	-\$242	\$7	\$255	\$504	\$753
25	-\$436	-\$125	\$186	\$497	\$808	\$1,119
30	-\$381	-\$8	\$365	\$739	\$1,112	\$1,485
35	-\$326	\$110	\$545	\$980	\$1,415	\$1,851

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

NOTES:

Area	- Riverina is the main growing area (70%) with production also at the tablelands (20%) and the coast (10%).
Production	- Plants are spaced 220 to 250mm apart on rows 810 to 910mm apart. The winter crop is the main income crop in most districts. It has lower yields than the summer crop due to a shorter growing season and a higher incidence of disease. Coliban is the main white skin and Desiree is the main red skin variety.
Pests	- Aphids and potato moths are the main insect pests with target spot the most common disease.
Harvesting	- Potatoes are sown from late January to early march for a late may to late October harvest. - Potatoes can be graded on the back of the harvester or in the packing shed. If being sold as a washed product they will need to be graded in the shed.
Yields	- Paddock yields vary from 20 to 30 tonnes per hectare. Production in the tablelands can expect 20% higher yields than in the Riverina
Packaging	- Potatoes are usually marketed in 50kg bags with 1 tonne bulk bags and 5 or 10kg consumer packs also used.
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.