



Guidelines for Estimating Strawberry U-Pick Production Costs 2012

in Manitoba



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Date: November, 2012

The projected strawberry production costs in this publication have been prepared to assist you in developing your own production costs.

The capital and cash input costs associated with growing strawberries in Manitoba are substantial. Detailed planning is necessary when budgeting for capital expenditures and also for the annual operating costs. The importance of good financial planning is evident by noting the capital required for 1 acre of strawberries may be in the vicinity of \$12,400. Cash costs of establishing the crop run about \$1,500 in the two years prior to picking with an additional \$2,100 in the first year of production before income

Historic provincial strawberry yields average 5300 lbs per acre depending on field age and level of management. Prices for strawberries vary for u-pick and pre-pick sales. 2011 Manitoba Agricultural Statistics indicated that strawberries ranged in price \$1.80-2.00/ lbs (\$9.00-\$10.00/ 4 L pail) for U-Pick sales, and \$2.40-3.20/ lbs (\$12.00-16.00/ 4 L pail) pre-picked sales.

Expected revenue before expenses based on a strawberry operation with 50% u-pick sales and 50% pre-picked sales (\$2.10 per lbs) with average yield would be \$11,271 per acre minus production costs (\$3,947), results in a marginal return of \$7,324 per acres (not including start-up costs).

The budget should be used as a guide only as each situation may have higher or lower costs than those listed. Costs and yields on each farm differ due to soil type, climatic conditions and agronomic practices. Therefore, producers are encouraged to substitute their own figures in the attached budget to develop their own cost of production for strawberry production.

Disclaimer: This budget is only a guide and is not intended as an in depth study of the cost of production of this industry. Interpretation and utilization of this information is the responsibility of the user. If you require assistance with developing your individual budget, please contact your local Manitoba Agriculture Food and Rural Initiatives office.

Commercial strawberry production in Manitoba has been an important part of diversification in the province. Currently there are approximately 60 growers of strawberries in the province; these farms vary in size from 3 acres to 20 acres. The majority of the strawberry farms are on a U-Pick basis; but custom picking of the crop has increased over the past few years.

Strawberries are an intensely managed crop that require precise timing. Yield and quality achieved during the short 3-4 week picking season hinge on timely management practices of the previous year, as well as care and maintenance before picking. Growers entering the industry need these basic requirements: (1) suitable land with adequate drainage and shelterbelts, (2) access to an adequate quantity and quality of water for irrigation, (3) financial resources that permit a significant level of investment on infrastructure and input costs, (4) the ability to apply intensive management skills to the crop in a precisely timed manner, (5) the ability to determine market potential, and (5) the willingness to accept risk.

It is advised that new growers should proceed on a small but graduated scale. A complete assessment of the customer base and marketing opportunities needs to be completed prior to planting the first crop of strawberries.

Strawberry U-Pick - Cost of Production Summary November, 2012
Based on 10 acres

A. Operating Costs	Establishment ¹	Picking Years		Your Cost
	Cost \$/acre	Cost /acre	Cost/lb	
1.01 Seed & Plants	\$1,219.50	\$1,842.16	\$0.3432	_____
1.02 Fertilizer	\$131.45	\$129.70	\$0.0242	_____
1.03 Herbicides	\$26.00	\$40.00	\$0.0075	_____
1.04 Insecticides	\$0.00	\$36.00	\$0.0067	_____
1.05 Fungicides	\$0.00	\$45.00	\$0.0084	_____
1.06 Field Fuel Costs	\$54.38	\$33.29	\$0.0062	_____
1.07 Irrigation Costs	\$60.00	\$240.00	\$0.0447	_____
1.08 Custom Costs	\$0.00	\$12.00	\$0.0022	_____
1.09 Repair & Maintenance	\$240.94	\$240.94	\$0.0449	_____
1.10 Miscellaneous	\$320.00	\$345.08	\$0.0643	_____
1.11 Land Taxes	\$12.00	\$6.00	\$0.0011	_____
Subtotal Operating	\$2,064.26	\$2,970.17	\$0.5500	_____
1.12 Interest on Operating	\$56.77	\$81.68	\$0.0152	_____
Total Operating Costs	\$2,121.03	\$3,051.85	\$0.5652	_____
B. Fixed Costs				
2. Depreciation				
2.01 Machinery	\$1,354.07	\$669.16	\$0.1247	_____
2.02 Storage	\$596.63	\$298.31	\$0.0556	_____
3. Investment				
3.01 Land	\$120.00	\$60.00	\$0.0112	_____
3.02 Machinery	\$226.33	\$113.17	\$0.0211	_____
3.03 Storage	\$158.18	\$79.09	\$0.0147	_____
Total Fixed Costs	\$2,455.20	\$1,219.73	\$0.2273	_____
Total Operating & Fixed	\$4,576.23	\$4,271.58	\$0.79	_____
C. Labour	\$950.25	\$1,517.33	\$0.2827	_____
Total Cost of Production	\$5,526.48	\$5,788.91	\$1.0752	_____
<hr/>				
Estimated Farmgate		Per Acre	10 Acre Total	
Gross Revenue		\$11,270.70	\$112,707	_____
(\$2.10 market price per lb., 5367 lbs. avg. yield for each of 3 picking years)				
<hr/>				
Marginal Returns		Per Acre	10 Acre Total	
Over Operating Costs		\$8,218.85	\$82,189	
Over Operating & Fixed Costs		\$6,999.12	\$69,991	
Over Operating, Fixed & Labour Costs		\$5,481.79	\$54,818	
\$ per \$ Total Cost		\$0.95		
		Breakeven	Breakeven	
		Price (\$/lb.)	Yield (lbs./acre)	
		@ 5367 lbs/acre	@ \$2.10 /lb	
Operating Costs		\$0.40	1,453	
Operating & Fixed Costs		\$0.80	2,034	
Over Operating, Fixed & Labour Costs		\$1.08	2,757	

1. The cost of establishing the crop of \$5,526.48 per acre, includes the pre plant and planting years, was spread over 3 picking years at \$1,842.16 per year.

Disclaimer: This budget is only a guide and is not intended as an in depth study of the cost of production of the Manitoba Strawberry U-Pick industry.

Strawberry U-Pick Assumptions

Number of acres in production	10
Additional land (acres)for parking etc.	1
Market Value (\$/acre)	\$2,400
Land Taxes (\$/acre)	\$6.00
Fuel Price (Diesel \$/litre)	\$0.98
Interest on Operating	5.5%
Interest on Investment	2.5%

Crop Rotation and Yields

	<u>Year</u>	<u>lbs/acre</u>	
Pre Plant	1		
Planting Year	2		
1st Picking	3	6600	
2nd Picking	4	5500	
3rd Picking	5	4000	
Total Yield (lbs/acre)		16,100	
Average Yield (lbs/acre)		5,367	
Market Price per Pound		\$2.10	\$10.50

Capital Costs

	<u>Market Value</u>	<u>Allocated % Strawberry</u>	<u>Allocated \$ Strawberry</u>
<u>Land Value</u>			
Land Cost	\$26,400	100%	\$26,400
<u>Machinery Costs</u>			
Tractor 30 hp	\$40,000	100%	\$40,000
Tractor 100 hp	\$55,000	33%	\$18,150
Planter 5 ft	\$2,500	100%	\$2,500
Plow 5 ft	\$100	100%	\$100
Sprayer 25 ft	\$8,000	100%	\$8,000
Rotovator 5 ft	\$4,000	90%	\$3,600
Cultivator 18 ft	\$1,000	90%	\$900
Straw spreader 5 ft	\$14,000	25%	\$3,500
Mower 5 ft	\$2,500	75%	\$1,875
Seeder Discer 15 ft	\$100	100%	\$100
Total	\$127,200		\$78,725
<u>Other Costs</u>			
Storage Shed	\$25,000	90%	\$22,500
Cooler	\$3,000	100%	\$3,000
Booth	\$1,500	100%	\$1,500
Miscellaneous	\$10,000	35%	\$3,500
Irrigation Equipment	\$25,000	100%	\$25,000
Total	\$64,500		\$55,500
Total Investment	\$218,100		\$160,625
Average Investment per acre	Machinery	\$7,873 \$/acre	
	Other	\$5,550 \$/acre	
	Total	\$16,063 \$/acre	

Establishment Year Costs

Seed and Plant Costs

Pre Plant Crop

Seeding Rate Bushels per acre
Seed Cost \$ per bushel

Wheat

1.5 bu/ac
\$13.00 \$/bu

Strawberry Plants

Transplanting rate plants/acre
Plant Cost / 1000 plants

8,000 plants/ac
\$150.00 \$/1000 plants

Fertilizer

	<u>Nitrogen</u>	<u>Phosphate</u>	<u>Potash</u>	<u>Sulfur</u>	<u>Zinc</u>
Cost \$/lb	\$0.64	\$0.53	\$0.49	\$0.43	\$1.50
lbs/acre					
Pre plant	0	0	0	0	0
Planting	70	100	30	15	6

Applicator rental

\$1.75 \$/acre

Herbicides

	<u>Broadleaf</u>	<u>Grassy</u>	<u>Other</u>
	-----\$/acre-----		
Pre Plant	\$0.00	\$10.00	\$1.00
Planting	\$0.00	\$15.00	\$0.00

Insecticides

	<u>Insect 1</u>	<u>Insect 2</u>	<u>Insect 3</u>
	-----\$/acre-----		
Pre Plant	\$0.00	\$0.00	\$0.00
Planting	\$0.00	\$0.00	\$0.00

Fungicides

	<u>Spray 1</u>	<u>Spray 2</u>	<u>Spray 3</u>
	-----\$/acre-----		
Pre Plant	\$0.00	\$0.00	\$0.00
Planting	\$0.00	\$0.00	\$0.00

Field Operations: Pre Plant

<u>Operation</u>	<u>Times Over</u>	<u>Width Feet</u>	<u>Speed MPH</u>	<u>Tractor HP</u>
Cultivate	1	18	5	100
Seed	1	15	6	100
Plow down	1	5	5	100
Cultivate	1	18	5	100
Fertilizer	1	40	7	100

Field Operations: Planting

<u>Operation</u>	<u>Times Over</u>	<u>Width Feet</u>	<u>Speed MPH</u>	<u>Tractor HP</u>
Planting	1	5	1	30
Cultivate	3	5	5	30
Spray	1	25	4	30
Straw Spreading	1	5	2	100

Irrigation Fuel Costs

	<u>Pre Plant</u>	<u>Plant</u>
Inches applied	0	3
Hours per acre for 1" of water	4	4.0
Hourly pumping costs	\$5.00	\$5.00

Custom & Rental Operations

Custom 1	\$0.00
Custom 2	\$0.00

Repairs & Maintenance

% rate of investment	1.5%
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Miscellaneous

Pre Plant	\$200.00
Plant	\$500.00
Straw Costs	10 bales/acre
	\$25.00 \$/bale

Labour

Labour Rate per hour	\$17.50	<u>Hours/acre</u>
Weed Control		30.0
De-blossom		8.0
Irrigation		6.0
Straw Spreading		5.0
Field Operations		<u>4.3</u>
Total Labour Hours		53.3 hrs

Strawberry U-Pick Cost of Production Worksheet Establish - Pre Plant & Planting Year Details

				Your Cost
1.01 Seed & Plants				
Cover Crop		1.5	seeding rate (bu/acre)	
Wheat	x	<u>\$13.00</u>	<u>seed cost (\$/bu)</u>	
	=	\$19.50	\$/acre	
Plants		8,000	plants/acre	
	x	\$150.00	\$/ 1,000 plants	
	÷	<u>1,000</u>	<u>1,000 plants</u>	
	=	\$1,200.00	\$/acre	
Total Cost		\$1,219.50	\$/acre	
1.02 Fertilizer				
Nitrogen				
Pre Plant		0	lbs/acre seeding	
Plant	+	70	lbs/acre seeding	
	x	<u>\$0.640</u>	<u>cost/lb</u>	
	=	\$44.80	\$/acre	
P₂O₅				
Pre Plant		0	lbs/acre seeding	
Plant		100	lbs/acre seeding	
	x	<u>\$0.530</u>	<u>cost/lb</u>	
	=	\$53.00	\$/acre	
K₂O				
Pre Plant		0	lbs/acre seeding	
Plant		30	lbs/acre seeding	
	x	<u>\$0.490</u>	<u>cost/lb</u>	
	=	\$14.70	\$/acre	
Sulfur				
Pre Plant		0	lbs/acre seeding	
Plant		15		
	x	<u>\$0.430</u>	<u>cost/lb seeding</u>	
	=	\$6.45	\$/acre	
Zinc				
Pre Plant		0	lbs/acre seeding	
Plant		6		
	x	<u>\$1.500</u>	<u>cost/lb seeding</u>	
	=	\$9.00	\$/acre	
Applicator rental				

				<u>Your Cost</u>
Pre Plant	=	\$1.75	\$/acre	_____
Plant	≡	<u>\$1.75</u>	<u>\$/acre</u>	_____
Total	=	\$3.50	\$/acre	_____
Total	=	\$131.45	\$/acre	_____
1.03 Herbicides				
Pre Plant		\$0.00	broadleaf control (establish)	_____
	+	\$10.00	grassy (establish)	_____
	±	<u>\$1.00</u>	<u>other</u>	_____
	=	\$11.00	\$/acre	_____
Planting		\$0.00	broadleaf control	_____
	+	\$15.00	grassy	_____
	±	<u>\$0.00</u>	<u>other</u>	_____
	=	\$15.00	\$/acre	_____
Total	=	\$26.00	\$/acre	_____
1.04 Insecticides				
Pre Plant		\$0.00	insect 1	_____
	+	\$0.00	insect 2	_____
	±	<u>\$0.00</u>	<u>insect 3</u>	_____
	=	\$0.00	\$/acre	_____
Planting		\$0.00	insect 1	_____
	+	\$0.00	insect 2	_____
	±	<u>\$0.00</u>	<u>insect 3</u>	_____
	=	\$0.00	\$/acre	_____
Total	=	\$0.00	\$/acre	_____
1.05 Fungicides				
Pre Plant		\$0.00	spray 1	_____
	+	\$0.00	spray 2	_____
	±	<u>\$0.00</u>	<u>spray 3</u>	_____
	=	\$0.00	\$/acre	_____

				<u>Your Cost</u>
Planting		\$0.00	spray 1	_____
	+	\$0.00	spray 2	_____
	<u>±</u>	<u>\$0.00</u>	<u>spray 3</u>	_____
	=	\$0.00	\$/acre	_____
Total	=	\$0.00	\$/acre	_____

1.06 Field Fuel Costs

Field Operations

Pre Plant

<u>Operation</u>	<u>Times Over</u>	<u>Width feet</u>	<u>Speed mph</u>	<u>Fuel \$/ac.</u>	
Cultivate	1	18	5	\$2.57	_____
Seed	1	15	6	\$2.57	_____
Plow down	1	5	5	\$9.26	_____
Cultivate	1	18	5	\$2.57	_____
Fertilizer	1	40	7	<u>\$0.83</u>	_____
Total				\$17.81	_____

Field Operations

Planting

<u>Operation</u>	<u>Times Over</u>	<u>Width feet</u>	<u>Speed mph</u>	<u>Fuel \$/ac.</u>	
Planting	1	5	1	\$11.03	_____
Cultivate	3	5	5	\$6.62	_____
Spray	1	25	4	\$0.55	_____
Straw Spreading	1	5	2	<u>\$18.38</u>	_____
Total				\$36.57	_____

Total Field Operation Fuel Costs **\$54.38** _____

1.07 Irrigation Fuel Costs

Pre Plant		0	inches of water applied	_____
	x	4	hours/acre for 1" of water	_____
	<u>x</u>	<u>\$5.00</u>	<u>rate/hour</u>	_____
	=	\$0.00	\$/acre	_____

Your Cost

Plant		3	inches of water applied
	x	4	hours/acre for 1" of water
	<u>x</u>	<u>\$5.00</u>	<u>rate/hour</u>
	=	\$60.00	\$/acre

Total = **\$60.00** **\$/acre**

1.08 Custom Costs

Pre Plant		\$0.00	total cost
Plant		\$0.00	total cost
	<u>±</u>	<u>10</u>	<u>acres</u>
	=	\$0.00	\$/acre

1.09 Repairs and Maintenance

		1.5%	percentage rate
	x	<u>\$16,063</u>	<u>investment/acre</u>
		\$240.94	\$/acre

1.10 Miscellaneous

		\$200.00	pre plant \$/acre
	+	\$500.00	plant \$/acre
	<u>±</u>	<u>10</u>	<u>acres</u>
	=	\$70.00	\$/acre

Straw Costs		10	bales/acre
	<u>x</u>	<u>\$25.00</u>	<u>\$/bale</u>
	=	\$250.00	\$/acre

1.11 Land Taxes

		\$6.00	pre plant \$/acre
	<u>±</u>	<u>\$6.00</u>	<u>plant \$/acre</u>
	=	\$12.00	\$/acre

1.12 Interest on Operating

		\$2,064.26	subtotal operating
	÷	2	average
	<u>x</u>	<u>5.5%</u>	<u>interest rate</u>
	=	\$56.77	\$/acre

Your Cost

2. Depreciation	<u>Original Value - Salvage Value</u>		
	Useful Life		
2.01 Machinery			
	\$7,872.50	cost/acre	_____
-	\$1,102.15	salvage value	_____
x	2	years	_____
÷	10	<u>useful life</u>	_____
=	\$1,354.07	\$ /acre	_____
2.02 Other Equipment			
	\$5,550.00	cost/acre	_____
-	\$777.00	salvage value	_____
x	2	years	_____
÷	16	<u>useful life</u>	_____
=	\$596.63	\$ /acre	_____
3. Investment	<u>Original Value + Salvage Value</u>		x Investment Rate
	2		
3.01 Land			
	\$2,400.00	cost/acre	_____
x	2	years	_____
x	2.5%	<u>% investment rate</u>	_____
=	\$120.00	\$ /acre	_____
3.02 Machinery			
	\$7,872.50	cost/acre	_____
+	\$1,180.88	salvage value	_____
÷	2	average	_____
x	2	years	_____
x	2.5%	<u>% investment rate</u>	_____
=	\$226.33	\$ /acre	_____

Your Cost

3.03 Other Equipment

	\$5,550.00	cost/acre	_____
+	\$777.00	salvage value	_____
÷	2	average	_____
x	2	years	_____
x	<u>2.5%</u>	<u>% investment rate</u>	_____
=	\$158.18	\$ /acre	_____

Labour

	30.0	hrs/ac weed control	_____
+	8.0	hrs/ac de-blossom	_____
+	6.0	hrs/ac straw spreading	_____
+	6.0	hrs/ac irrigation	_____
+	4.3	hrs/ac field operations	_____
x	<u>\$17.50</u>	<u>\$/hour</u>	_____
=	\$950.25	\$ /acre	_____

Picking Year Costs

A. Operating Costs

1.01 Seed and Plants

1.02 Fertilizer

	<u>Cost \$/lb</u>	<u>lbs/acre</u>
Nitrogen	\$0.64	150
Phosphate	\$0.53	20
Potash	\$0.49	30
Sulfur	\$0.43	5
Zinc	\$1.50	3

Applicator rental \$1.75 per acre

1.03 Herbicides

Broadleaf	\$30.00
Grassy	\$10.00

1.04 Insecticides

Tarnish Plant	\$24.00
Mites	\$12.00
Insect 3	\$0.00

1.05 Fungicide

Spray 1	\$20.00
Spray 2	\$25.00
Spray 3	\$0.00

1.06 Fuel Costs

Estimated fuel cost per litre of picking year \$0.98

<u>Field Operations</u>	<u>Times Over</u>	<u>Width Feet</u>	<u>Speed MPH</u>	<u>Tractor HP</u>
Straw removal	1	5	5	30
Spray	5	25	4	30
Mowing	1	5	5	30
Rototilling	2	5	3	30
Fertilizer	2	40	7	30
Straw Spreading	1	5	2	100

1.07 Irrigation Fuel Costs

Inches applied	12
Hours per acre for 1' of water	4
Hourly pumping costs	\$5.00

1.08 Custom & Rental Operations

Total Annual Cost	\$0.00
Washrooms (Total cost)	\$120.00

1.07 Repairs & Maintenance

% rate of investment	1.5%
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1.09 Miscellaneous

Advertising (total \$)	\$500.00
Pails/Baskets (\$ / each)	\$0.42
Utilities (\$ total)	\$0.00
Straw Costs	
Bales per acre	10
\$ per Bale	\$25.00

Labour Costs (\$/acre)

Rate per hour	\$17.50
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	<u>Hours/acre</u>
Weed control	30.0
De-blooming	0.0
Straw spreading	5.0
Irrigation	6.0
Field operations	3.7
U-pick operations	<u>42.0</u>
Total hours/acre	86.7

Strawberry U-Pick Cost of Production Worksheet Picking Years - Details

Your Cost

A. Operating Costs

1.01 Seed and Planting Costs

	\$5,526.48	pre plant & planting	
÷	<u>5</u>	<u>years in crop</u>	
=	\$1,105.30	\$/acre	

1.02 Fertilizer

Nitrogen

	150	lbs/acre cropping	
x	<u>\$0.640</u>	<u>cost/lb cropping</u>	
=	\$96.00	\$/acre	

P₂O₅

	20	lbs/acre cropping	
x	<u>\$0.530</u>	<u>cost/lb cropping</u>	
=	\$10.60	\$/acre	

K₂O

	30	lbs/acre cropping	
x	<u>\$0.490</u>	<u>cost/lb cropping</u>	
=	\$14.70	\$/acre	

Sulfur

	5	lbs/acre cropping	
x	<u>\$0.430</u>	<u>cost/lb cropping</u>	
=	\$2.15	\$/acre	

Zinc

	3	lbs/acre cropping	
x	<u>\$1.500</u>	<u>cost/lb cropping</u>	
=	\$4.50	\$/acre	

Applicator rental = \$1.75 \$ /acre

Annual Cost = \$129.70 \$ /acre

1.03 Herbicides

	\$30.00	\$/acre broadleaf	
+	<u>\$10.00</u>	<u>\$/acre grassy</u>	
=	\$40.00	\$/acre	

Your Cost

1.04 Insecticides

	\$24.00	\$ /acre Tarnish Plant Bug
±	<u>\$12.00</u>	<u>\$ /acre Mites</u>
=	\$36.00	\$ /acre

1.05 Fungicide

	\$20.00	\$ /acre
±	<u>\$25.00</u>	<u>\$ /acre</u>
=	\$45.00	\$ /acre

1.06 Field Fuel Costs

<u>Operation</u>	<u>Times Over</u>	<u>Width feet</u>	<u>Speed mph</u>	<u>Fuel \$/ac.</u>
Straw removal	1	5	5	\$2.21
Spray	5	25	4	\$2.76
Mowing	1	5	5	\$2.21
Rototilling	2	5	3	\$7.35
Fertilizer	2	40	7	\$0.39
Straw Spreading	1	5	2	<u>\$18.38</u>
				\$33.29

1.07 Irrigation Costs

	12	inches of water applied
x	4	hours/acre for 1" of water
<u>x</u>	<u>\$5.00</u>	<u>rate/hour</u>
=	\$240.00	\$/acre

1.08 Custom Operations

	\$120.00	\$ /acre
÷	<u>10</u>	<u>acres</u>
=	\$12.00	\$/acre

1.09 Repair & Maintenance

	1.5%	percentage rate
x	<u>\$16,063</u>	<u>investment/acre</u>
=	\$240.94	\$ /acre

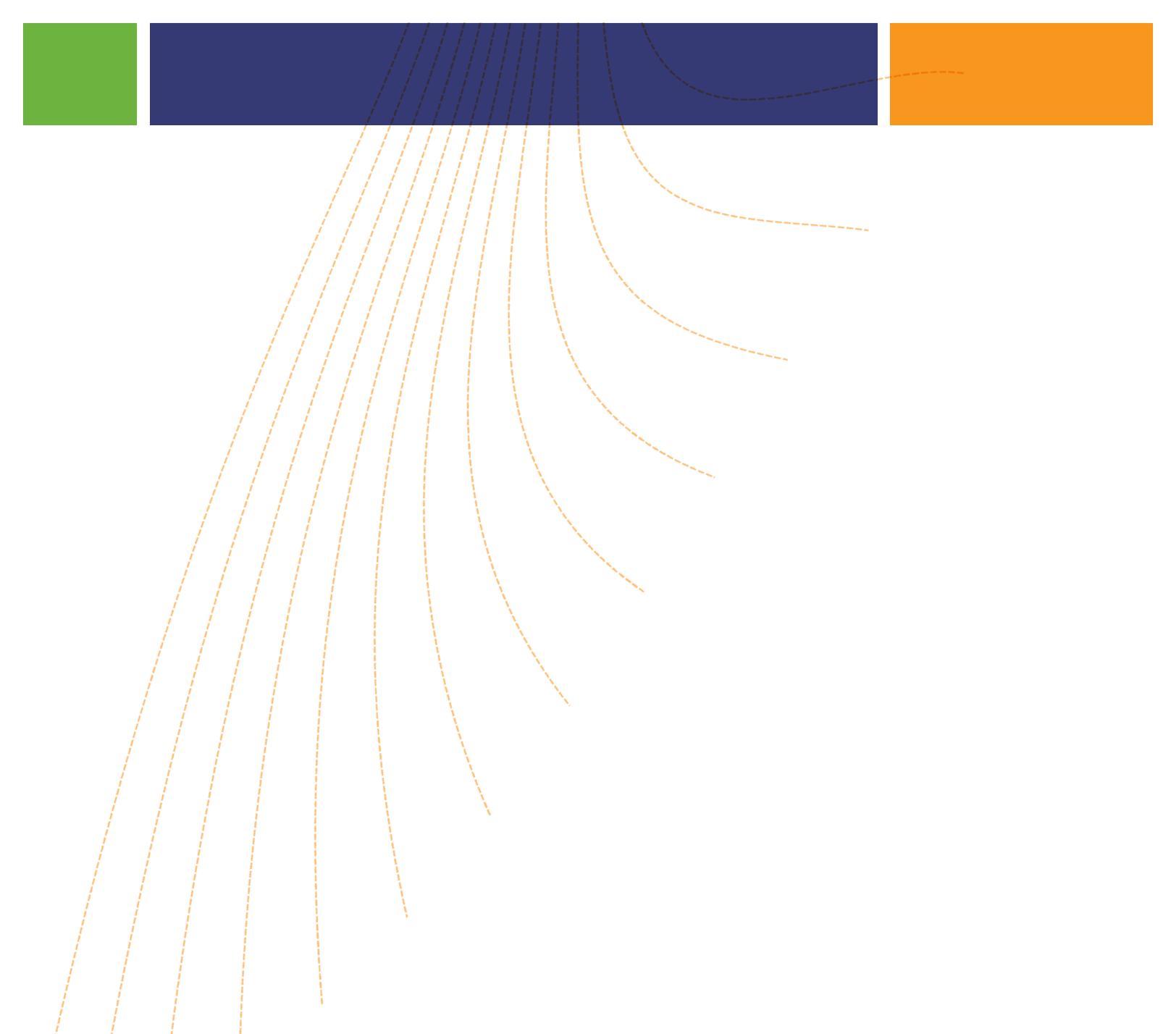
	<u>Original Value + Salvage Value</u> x Investment Rate		<u>Your Cost</u>
3. Investment	2		
3.01 Land			
	\$2,400.00	cost/acre	_____
	x <u>2.5%</u>	<u>% investment rate</u>	_____
	= \$60.00	\$ /acre	_____
3.02 Machinery			
	\$7,872.50	cost/acre	_____
	+ \$1,180.88	salvage value	_____
	÷ 2	average	_____
	x <u>2.5%</u>	<u>% investment rate</u>	_____
	= \$113.17	\$ /acre	_____
3.03 Other Equipment			
	\$5,550.00	cost/acre	_____
	+ \$777.00	salvage value	_____
	÷ 2	average	_____
	x <u>2.5%</u>	<u>% investment rate</u>	_____
	= \$79.09	\$ /acre	_____
C. Labour			
	30.0	hrs/ac weed control	_____
	+ 0.0	hrs/ac de-blossoming	_____
	+ 5.0	hrs/ac straw spreading	_____
	+ 6.0	hrs/ac irrigation	_____
	+ 3.7	hrs/ac field operations	_____
	+ 42.0	hrs/ac u-pick operations	_____
	x <u>\$17.50</u>	<u>\$/hour</u>	_____
	= \$1,517.33	\$ /acre	_____

For more information contact your local MAFRI office.

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A decorative graphic at the top of the page consists of three horizontal bars: a green bar on the left, a dark blue bar in the middle, and an orange bar on the right. From the bottom edge of the dark blue bar, several thin, dashed orange lines curve downwards and outwards across the page.

For more information

- Contact your local Manitoba Agriculture, Food and Rural Initiatives (MAFRI) Growing Opportunities (GO) Office.
- Visit us at manitoba.ca/agriculture.

