





# Guidelines For Estimating Saskatoon Berry Production Costs

The following budget estimates the cost of producing Saskatoon Berries in Manitoba. General Manitoba Agriculture recommendations are assumed in using fertilizers and chemical inputs. These figures provide an economic evaluation of the crops and estimated yields required to cover all costs. Costs include labour, investment and depreciation, but do not include management costs, nor do they necessarily represent the average cost of production in Manitoba

These budgets may be adjusted by putting in your own figures. As a producer you are encouraged to calculate your own costs of production for various crops. On each farm, costs and yields differ due to soil type, climate and agronomic practices.

<u>The Farm Machinery Custom and Rental Rate Guide</u> is also available to help determine machinery costs.

This tool is available as an Excel worksheet at:



### Contact Us

For more information, contact a Farm Management Specialist.

- manitoba.ca/agriculture
- mbfarmbusiness@gov.mb.ca
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**Note:** 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 use of this information is the responsibility of the user. If you need help with a budget, contact a Farm Management Specialist.

	Saskatoon Be	erry - Cost of Prod Based on 20 acr		ry	
		Establishment <sup>1</sup>	Picking Ye	ars	
		Cost \$/acre	Cost /acre	Cost/lb	Your Cost
	Operating Costs				
Α	Establishment cost (amortized) <sup>1</sup>	_	\$813.95	_	
	Seed & Treatment	\$2,116.00	_	\$0.3876	
	Fertilizer	\$134.56	\$89.43	\$0.0426	
	Pesticide	\$44.00	\$35.00	\$0.0167	
	Fuel	\$86.63	\$43.44	\$0.0207	
	Irrigation	\$10.64	\$5.32	\$0.0025	
	Machinery Operating & Lease	\$25.00	\$25.00	\$0.0119	
	Labour - hired	\$903.00	\$832.12	\$0.3962	
	Crop Insurance (Establishment only)	\$116.60	_		
	Hail Insurance	\$0.00	\$0.00	\$0.0000	
	Land Taxes	\$20.00	\$20.00	\$0.0095	
	Miscellaneous Cost	\$308.00	\$110.00	\$0.0524	
	Rental and Custom Charges	\$300.00	\$0.00	\$0.0000	
	Repairs & Maintenance Cost	\$253.16	\$253.16	\$0.1206	
	Interest on Operating	\$302.23	\$77.96	\$0.0371	
	Total Operating Costs	\$4,619.83	\$2,305.38	\$1.0978	
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В.	Fixed Costs	<b>#000 00</b>	<b>#</b> 000 00	<b>CO 4444</b>	
	Land Costs	\$296.29	\$296.29	\$0.1411_	
	Machinery Costs	\$2,012.09	\$2,012.09	\$0.9581	
	Storage & Irrigation Costs	\$1,483.05	\$1,483.05	\$0.7062 \$4.0054	
	Total Fixed Costs	\$3,791.44	\$3,791.44	\$1.8054 <sub></sub>	
C.	Total Costs	\$8,411.27	\$6,096.82	\$2.9032	
		Profitability Analys	sis		
	Estimated Farmgate				
	Price per Unit		\$6.50	_	
	Target Yield per acre (lbs)		2,100	_	
	Gross Revenue / acre		\$13,650.00	_	
	Operating Expense Ratio		17%		
	Marginal Returns				
	Over Operating Costs		\$11,344.62		
	Over Total Costs (Net Profit)		\$7,553.18	_	
	,	Breakeven Analys	• •	_	
	Breakeven Price (\$ Per lb.)	breakeveri Ariarys	515		
	Operating Costs		\$1.10		
	Over Fixed Costs		\$1.10 \$1.81	_	
	Over Total Costs		\$1.81 \$2.90	_	
			φ2.30	_	
	Breakeven Yield (lbs)				
	Over Operating Costs		355		
	Over Fixed Costs		<u>583</u>	_	
	Over Total Costs		938	_	
	Breakeven Yield Risk Ratio		2.24		
	(Yield per acre/BE Yield)			_	
	· · · · · · · · · · · · · · · · · · ·				

<sup>1.</sup> Saskatoon establisment net cost of \$8411.27 (total cost minus estimated gross revenue) were amortized over 16 sasakatoon picking years. **Note:** 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.

			Saskatoon B	erry Planting
	Transplanting			
	Rate	Plant	Cost per	
	(plants/ac)	Cost/each	Acre	
Saskatoon Plants	880	\$2.25	\$1,980.00	
Grass Seed (lbs)	40	\$3.40	\$136.00	
		ΤΟΤΔΙ	\$2 116 00	

	Fertilizer				
	Bulk Price	Actual Nutrient			
Fertilizer Type	<u>\$/tonne</u>	<u>\$/lb</u>			
Nitrogen: (urea) 46-0-0	\$900	\$0.89			
Phosphorus: 11-52-0	\$1,250	\$0.90			
Potash: 0-0-60	\$650	\$0.49			
Sulphur: 20.5-0-0-24	\$850	\$0.85			

**Amount of Actual Pounds of Elements Applied Per Acre** Nitrogen Phosphorus Potash Sulphur Total lbs \$/acre <u>lbs</u> \$/acre <u>lbs</u> \$/acre <u>lbs</u> \$/acre \$/acre 25 \$3.41 \$134.56 Saskatoon Planting 100 \$109.04 45 \$22.11 \$0.00 0 Saskatoon Picking 25 \$12.80 50 \$54.52 45 \$22.11 0 \$0.00 \$89.43

			Crop	Protection
	Weed Control <u>\$/ac</u>	Disease Control <u>\$/ac</u>	Insect Control <u>\$/ac</u>	Total Cost <u>\$/ac</u>
Planting	\$40.00	\$0.00	\$4.00	\$44.00
Picking	\$6.00	\$26.00	\$3.00	\$35.00

Note:

Pre-emergent burn off is not included in weed control costs.

Chemical costs do not include year end rebates or bundling discounts.

Disease Control costs do not include custom application costs.

		Crop Rotati	ons and Yie
Veer	Acres	Prod'n	Total
<u>Year</u>	<u>20</u>	lb. per acre	prod'n (lb)
1	planted	0	
2	2nd year establ.	0	
3	3rd year establ.	0	
4	1st year harvest	250	5,000
5	2nd year harvest	650	13,000
6	3rd year harvest	1,350	27,000
7	4th year harvest	1,900	38,000
8	5th year harvest	2,350	47,000
9	6th year harvest	2,800	56,000
10	7th year harvest	2,800	56,000
11	8th year harvest	2,800	56,000
12	renovated-no prod'n	0	
13	1st year harvest	450	9,000
14	2nd year harvest	1,000	20,000
15	3rd year harvest	1,900	38,000
16	4th year harvest	2,800	56,000
17	5th year harvest	2,800	56,000
18	6th year harvest	2,800	56,000
19	7th year harvest	2,800	56,000
20	8th year harvest	2,800	56,000

Total Production (lb) - Years 4 to 20 645,000

Average production per acre (lb) - years 4 to 20 2,100

Market Price per Pound \$6.50

(\$32.50 per 5lb basket or pail)

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		Operatir	ng Costs					
nterest Rate on Operating		7.00%	J					
and Taxes (\$/acre)		\$20.00						
_abour rate (\$/hour)		· ·						
		\$20.00						
Machinery Operating (\$/acre)		\$25.00						
Cost per roll of plastic mulch		\$300.00						
Fuel Cost (\$/litre)		\$1.10						
		Field Fu	el Usage					
	Times	Width	Speed	Tractor	Fuel	Capacity	Time	Mai
Operation Property of the Control of	Over	<u>Feet</u>	<u>MPH</u>	<u>HP</u>	Per Acre	Ac/Hr	Hr./Ac.	& L
Fransplanting	1	5	1	50	\$20.63	0.50	2.00	2.0
Cultivate	2	5	5	50	\$8.25	2.50	0.80	8.0
Mowing	9	6	5	50	\$30.94	3.00	3.00	3.0
Spray	1	25	4	50	\$1.03	10.00	0.10	0.1
Mulch application	1	4	2	100	\$25.78	0.80	1.25	2.5
**	Total Est	tablishment Field Op	eration Fuel Co	osts (\$/acre)	\$86.63			
	_							
Spray	5	25	4	50	\$5.16	10.00	0.50	0.5
Mowing	6	6	4	50	\$25.78	2.40	2.50	2.5
Harvesting	2	16.5	2	100	<u>\$12.50</u>	3.30	0.61	1.2
	To	otal Picking Field Op	peration Fuel Co	osts (\$/acre)	\$43.44			
		Irrigatio	on Cost					
rrigation Fuel Costs		Establishment	Picking					
nches water applied		2	1					
Hours/acre for 1" of water		4	4					
Hourly pumping costs		<b>\$1.33</b>	\$1.33					
	Total Cost (\$/acre)	\$10.64	\$5.32					
		Labou	r Cost					
							Total	
		Establishment Ho	ours Required r	er Acre			(\$/acre)	
	Est 1	Est 2	Est 3		Total		(4.6.6.6)	
Weed Control	2.0	0.5	0.5		3.5			
Pest control	0.0	2	2		7.0			
Mowing	0.0	1.5	1.5		4.5			
•					13.0			
rrigation	4.0	3.0	3.0					
Mulch application	10.0	0.0	0.0		10.0			
Field Operations	<u>7.2</u>	<u>0.0</u>	0.0		<u>7.2</u>			
Гotal Labour Hours	23.2	7.0	7.0	8.0	<b>45.2</b> h	nrs	\$903.00	
				_			Total	
		Production Hou	rs Required pe	r Acre	Total		(\$/acre)	
Mand Control	4.0				<u>Total</u>			
Weed Control	1.0				1.0			
Pest control	3.0				3.0			
Mowing	1.5				1.5			
rrigation	3.0				3.0			
Pruning	20.0				20.0			
Harvesting	4.5				4.5			
nitial processing	5.0				5.0			
Field Operations	3.6				3.6			
Total Labour Hours	41.6				41.6	hrs	\$832.12	
		Miscellane	ous Cost					
		Establishment	Picking					
Plant (total \$)		\$150.00	\$150.00	)				
Advertising (total \$)		\$500.00	\$500.00					
Jtilities (total \$)		\$1,150.00	\$1,150.00					
Mulch rolls per acre	0.66	\$3,960.00	ψ1,130.00	•				
Other Costs (\$/acre)	\$20.00	\$400.00	\$400.00	1				
วเทอเ Costs (จ/ลต่อ) Fotal Miscellaneous Cost (\$/2		\$400.00 \$6,160.00	\$2,200.00					
•••	,							
Total Miscellaneous Cost (\$/a	cre)	\$308.00	\$110.00	1				
		Repairs & Mair	ntenance Cos	st				
% rate of investment		1.50%	ntonanco coc	··				
Total Repair & Maintenance C	osts	\$253.16						
		Rental and Cu	stom Charge	s				
Rental & Custom Charges					General	Total		
Establishment		\$100.00	\$200.00	-	-	\$300.00		
			-	_	_			
··· <del>·</del>		<u> </u>	Lleanne			<del>+0.50</del>		
Total Repair & Maintenance C	costs	\$253.16  Rental and Cu <u>Transplanting</u> \$100.00	Mulch	Harvest		<u>Total</u> \$300.00 \$0.00		

Crop Insurance

Establishment

\$117

Note: 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.

			Fixed Co	osts <u> </u>			
<u>Land</u>				<u>Machinery</u>			
Average Land Value		\$5,000		Total Investment (\$/acre)	\$9,128		
Saskatoon berry Acres		20		Residual Value (End of Useful Life)	10%		
Owned Land Equity		30%		Useful Life (years)	15		
Land Financed		70%		Owned Equipment Equity	20%		
Land Opportunity Cost		1.50%	)	Equipment Financed	80%		
Land cost (\$/acre)				Machinery Opportunity Cost	1.50%		
Finance Rate & Term	6.00%		Years	Machinery Cost (\$/acre)	<b>= 000</b> /	_	
Principal & Interest Cost		\$273.79		Finance Rate & Term	7.00%		Years
Owned Land Opportunity Cost		\$22.50		Principal & Interest Cost	\$1,354.91		
Total Cost		\$296.29	1	Machinery Depreciation Cost	\$547.65		
0lt				Owned Machinery Opportunity Cost	\$109.53		
Saskatoon Establishment		60 444		Total Cost	\$2,012.09		
Establishment cost (\$/acre)		\$8,411		Ctorono 9 Invinction			
Saskatoon Berry Acres		20		Storage & Irrigation	<b>#0.050</b>		
Establishment Equity		10%		Total Investment Storage (\$/ac)	\$6,250		
Establishment Financed (\$7,570 per a		90%		Total Investment Irrigation (\$/ac)	\$1,500		
Establishment Opportunity Cost (Invest	imeni Raie)	1.50%	)	Residual Value (End of Useful Life)	25%		
Establishment cost (\$/acre) Finance Rate & Term	7.000%	40	Veare	Useful Life Storage (years)	20 15		
	7.000%	\$801.33	Years	Useful Life Irrigation (years)	15 20%		
Principle & Interest Cost				Owned S & I Equity			
Owned Land Opportunity Cost  Total Cost		\$12.62 \$242.05		S & I Financed S & I Opportunity Cost	80%		
i otal Cost		\$813.95	•		1.50%		
				Storage & Irrigation Cost (\$/acre) Finance Rate & Term	7 000/	-	Years
				Principal & Interest Cost	<b>7.00%</b> \$1,150.43		rears
				Storage Depreciation Cost	\$1,150.43 \$234.38		
				Irrigation Depreciation Cost	\$75.00		
Total Debt (\$/acre)		\$24,571.90		Owned S & I Opportunity Cost  Total Cost	<u>\$23.25</u> <b>\$1,483.05</b>		
Total Debt (practe)		φ24,57 1.90		Total Cost	φ1,403.03		
			Storage & Ir	rigation			
		Saskatoon	Saskatoon	rigation			
	Market Value	Usage %	Allocation				
Storage Shed	\$60,000						
Quick Freeze Unit							
	\$30,000	100%	\$30,000				
	\$30,000 \$15,000						
Holding Freezer	\$15,000	100%	\$15,000				
Holding Freezer Sorting Table & Sizer	\$15,000 \$20,000	100% 100%	\$15,000 \$20,000				
Holding Freezer Sorting Table & Sizer Irrigation Equipment	\$15,000 \$20,000 \$30,000	100% 100% 100%	\$15,000 \$20,000 \$30,000				
Holding Freezer Sorting Table & Sizer	\$15,000 \$20,000	100% 100% 100%	\$15,000 \$20,000				
Holding Freezer Sorting Table & Sizer Irrigation Equipment Storage & Irrigation TOTAL	\$15,000 \$20,000 \$30,000 \$155,000	100% 100% 100%	\$15,000 \$20,000 \$30,000 <b>\$155,000</b>				
Holding Freezer Sorting Table & Sizer Irrigation Equipment Storage & Irrigation TOTAL	\$15,000 \$20,000 \$30,000 \$155,000	100% 100% 100%	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750	nd Current Values			
Holding Freezer Sorting Table & Sizer Irrigation Equipment Storage & Irrigation TOTAL	\$15,000 \$20,000 \$30,000 \$155,000	100% 100% 100% Equipme	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750	nd Current Values		Saskatoon	Saskatoon
Holding Freezer Sorting Table & Sizer Irrigation Equipment Storage & Irrigation TOTAL Storage & Irrigation Total per acre	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750	100% 100% 100% Equipme Saskatoon	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 ent Inventory a		Market Value		
Holding Freezer Sorting Table & Sizer rrigation Equipment Storage & Irrigation TOTAL Storage & Irrigation Total per acre	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750	Equipme Saskatoon Usage %	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 ent Inventory a Saskatoon Allocation	Harvest Equipment	Market Value	Usage %	Allocation
Holding Freezer Sorting Table & Sizer Irrigation Equipment Storage & Irrigation TOTAL Storage & Irrigation Total per acre  Power Equipment Tractor - 50 HP	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 Market Value \$60,000	Equipme Saskatoon Usage %	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 ent Inventory a Saskatoon Allocation \$60,000	Harvest Equipment Harvester	\$60,000	Usage % 100%	Allocation \$60,00
Holding Freezer Sorting Table & Sizer Irrigation Equipment Storage & Irrigation TOTAL Storage & Irrigation Total per acre  Power Equipment Tractor - 50 HP	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 Market Value \$60,000 \$15,000	100% 100% 100% Equipme Saskatoon Usage % 100% 100%	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 ent Inventory a Saskatoon Allocation \$60,000 \$15,000	Harvest Equipment	\$60,000 \$4,000	Usage % 100% 100%	\$60,00 \$4,00
Holding Freezer Sorting Table & Sizer rrigation Equipment Storage & Irrigation TOTAL Storage & Irrigation Total per acre  Power Equipment Tractor - 50 HP	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 Market Value \$60,000 \$15,000	100% 100% 100% Equipme Saskatoon Usage % 100% 0%	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 ent Inventory a Saskatoon Allocation \$60,000 \$15,000	Harvest Equipment Harvester	\$60,000 \$4,000 \$0	Usage % 100% 100% 0%	<b>Allocation</b> \$60,00 \$4,00
Holding Freezer Sorting Table & Sizer rrigation Equipment Storage & Irrigation TOTAL Storage & Irrigation Total per acre Power Equipment Tractor - 50 HP Truck	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 Market Value \$60,000 \$15,000 \$0,000	100% 100% 100% 100% Equipme Saskatoon Usage % 100% 0% 0%	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 ent Inventory a Saskatoon Allocation \$60,000 \$15,000 \$0	Harvest Equipment Harvester Pruning Equipment	\$60,000 \$4,000 \$0 \$0	Usage % 100% 100% 0% 0%	<b>Allocation</b> \$60,00 \$4,00 \$
Holding Freezer Sorting Table & Sizer rrigation Equipment Storage & Irrigation TOTAL Storage & Irrigation Total per acre Power Equipment Tractor - 50 HP Truck	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 Market Value \$60,000 \$15,000	100% 100% 100% 100% Equipme Saskatoon Usage % 100% 0% 0%	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 ent Inventory a Saskatoon Allocation \$60,000 \$15,000	Harvest Equipment Harvester	\$60,000 \$4,000 \$0	Usage % 100% 100% 0% 0%	<b>Allocation</b> \$60,00 \$4,00 \$
Holding Freezer Sorting Table & Sizer rrigation Equipment Storage & Irrigation TOTAL Storage & Irrigation Total per acre  Power Equipment Fractor - 50 HP Fruck	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 Market Value \$60,000 \$15,000 \$0,000	100% 100% 100% Equipme Saskatoon Usage % 100% 100% 0%	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 ent Inventory a Saskatoon Allocation \$60,000 \$15,000 \$0 \$0	Harvest Equipment Harvester Pruning Equipment	\$60,000 \$4,000 \$0 \$0	Usage % 100% 100% 0% 0%	\$60,00 \$4,00 \$4,00 \$ \$64,00
Holding Freezer Sorting Table & Sizer rrigation Equipment Storage & Irrigation TOTAL Storage & Irrigation Total per acre  Power Equipment Tractor - 50 HP Truck  Fotal Inventory	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 Market Value \$60,000 \$15,000 \$0 \$75,000	100% 100% 100% Equipme Saskatoon Usage % 100% 0% 0%	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 ent Inventory a Saskatoon Allocation \$60,000 \$15,000 \$0 \$75,000	Harvest Equipment Harvester Pruning Equipment  Total Inventory	\$60,000 \$4,000 \$0 \$0 \$64,000	Usage % 100% 100% 0% 0% Saskatoon	\$60,00 \$4,00 \$4,00 \$ \$64,00 Saskatoon
Holding Freezer Sorting Table & Sizer rrigation Equipment Storage & Irrigation TOTAL Storage & Irrigation Total per acre  Power Equipment Tractor - 50 HP Truck  Fotal Inventory  Seeding & Tillage	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 Market Value \$60,000 \$15,000 \$0 \$75,000	100% 100% 100% Saskatoon Usage % 100% 0% 0% Saskatoon Usage %	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 \$155,000 \$155,000 \$15,000 \$15,000 \$0 \$75,000 \$38katoon Allocation	Harvest Equipment Harvester Pruning Equipment  Total Inventory  Spraying & Misc.	\$60,000 \$4,000 \$0 \$0 \$64,000 Market Value	Usage %	\$60,00 \$4,00 \$4,00 \$ \$64,00 Saskatoon Allocation
Holding Freezer Sorting Table & Sizer rrigation Equipment Storage & Irrigation TOTAL Storage & Irrigation Total per acre  Power Equipment Tractor - 50 HP Truck  Fotal Inventory  Seeding & Tillage Mechanical Transplanter	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 Market Value \$60,000 \$15,000 \$0 \$75,000 Market Value \$5,000	100% 100% 100% Equipme Saskatoon Usage % 100% 0% 0% Saskatoon Usage % 100%	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 ent Inventory a Saskatoon \$60,000 \$15,000 \$0 \$75,000 Saskatoon Allocation \$6,000 \$15,000	Harvest Equipment Harvester Pruning Equipment  Total Inventory  Spraying & Misc. Sprayer - 25 ft	\$60,000 \$4,000 \$0 \$0 \$64,000 Market Value \$10,000	Usage % 100% 100% 0% 0% Saskatoon Usage % 100%	\$60,00 \$4,00 \$ \$64,00 \$ \$64,00 \$ \$64,00 \$ Saskatoon Allocation \$10,00
Holding Freezer Sorting Table & Sizer Irrigation Equipment Storage & Irrigation TOTAL Storage & Irrigation Total per acre  Power Equipment Tractor - 50 HP Truck  Total Inventory  Seeding & Tillage Mechanical Transplanter Rotovator	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 Market Value \$60,000 \$15,000 \$0 \$75,000 Market Value \$5,000 \$8,000	100% 100% 100% Saskatoon Usage % 100% 0% Saskatoon Usage % 100% 100%	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 ent Inventory a Saskatoon Allocation \$60,000 \$15,000 \$0 \$75,000 Saskatoon Allocation \$5,000 \$7,200	Harvest Equipment Harvester Pruning Equipment  Total Inventory  Spraying & Misc. Sprayer - 25 ft Fertilizer Spreader	\$60,000 \$4,000 \$0 \$64,000 Market Value \$10,000 \$15,000	Usage % 100% 100% 0% 0%  Saskatoon Usage % 100% 100%	\$60,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$15,000
Holding Freezer Sorting Table & Sizer Irrigation Equipment Storage & Irrigation TOTAL Storage & Irrigation Total per acre  Power Equipment Tractor - 50 HP Truck  Total Inventory  Seeding & Tillage Mechanical Transplanter Rotovator	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 Market Value \$60,000 \$15,000 \$0 \$75,000 Market Value \$5,000 \$3,000 \$1,500	100% 100% 100% Saskatoon Usage % 100% 0% 0% Saskatoon Usage % 100% 90%	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 ent Inventory a Saskatoon Allocation \$0,000 \$15,000 \$0 \$75,000 Saskatoon Allocation \$5,000 \$7,200 \$1,350	Harvest Equipment Harvester Pruning Equipment  Total Inventory  Spraying & Misc. Sprayer - 25 ft	\$60,000 \$4,000 \$0 \$0 \$64,000 Market Value \$10,000 \$15,000 \$5,000	Usage % 100% 100% 0% 0%  Saskatoon Usage % 100% 100%	\$60,00 \$4,00 \$4,00 \$5,00 \$1,00 \$15,00 \$5,00
Holding Freezer Sorting Table & Sizer rigation Equipment Storage & Irrigation TOTAL Storage & Irrigation Total per acre  Power Equipment Fractor - 50 HP Fruck  Fotal Inventory  Seeding & Tillage Mechanical Transplanter Rotovator	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 Market Value \$60,000 \$15,000 \$0 \$75,000 Market Value \$5,000 \$8,000 \$1,500 \$8,000	100% 100% 100% 100%  Equipme Saskatoon Usage % 100% 0% 0% 0% 0% 0% 090% 00%	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 ent Inventory a Saskatoon Allocation \$15,000 \$0 \$75,000 Saskatoon Allocation \$5,000 \$7,200 \$1,350 \$0	Harvest Equipment Harvester Pruning Equipment  Total Inventory  Spraying & Misc. Sprayer - 25 ft Fertilizer Spreader	\$60,000 \$4,000 \$0 \$64,000 Market Value \$10,000 \$15,000 \$5,000	Usage % 100% 100% 0% 0%  Saskatoon Usage % 100% 100% 0%	\$60,00 \$4,00 \$4,00 \$5 \$64,00 \$5 \$64,00 \$5 \$64,00 \$5 \$64,00 \$5 \$64,00 \$5 \$64,00 \$5 \$64,00 \$5 \$64,00 \$5 \$64,00 \$5 \$64,00 \$5 \$64,00 \$5 \$64,00 \$5 \$64,00 \$5 \$64,00 \$5 \$64,00 \$5 \$64,00 \$5 \$64,00 \$55,00 \$5
Holding Freezer Sorting Table & Sizer rrigation Equipment Storage & Irrigation TOTAL Storage & Irrigation Total per acre  Power Equipment Tractor - 50 HP Truck  Fotal Inventory  Seeding & Tillage Mechanical Transplanter Rotovator Cultivator	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 Market Value \$60,000 \$15,000 \$0 \$75,000 Market Value \$5,000 \$8,000 \$1,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	100% 100% 100% Saskatoon Usage % 100% 0% 0% Saskatoon Usage % 100% 90% 90% 90%	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 ent Inventory a Saskatoon Allocation \$60,000 \$15,000 \$75,000 Saskatoon Allocation \$5,000 \$7,200 \$1,350 \$0	Harvest Equipment Harvester Pruning Equipment  Total Inventory  Spraying & Misc. Sprayer - 25 ft Fertilizer Spreader Mower	\$60,000 \$4,000 \$0 \$0 \$64,000 Market Value \$10,000 \$15,000 \$5,000	Usage % 100% 100% 0% 0% 0%  Saskatoon Usage % 100% 100% 100% 0%	### Allocation
Holding Freezer Sorting Table & Sizer ririgation Equipment Storage & Irrigation TOTAL Storage & Irrigation Total per acre  Power Equipment Tractor - 50 HP Truck  Fotal Inventory  Seeding & Tillage Mechanical Transplanter Rotovator Cultivator	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 Market Value \$60,000 \$15,000 \$0 \$75,000 Market Value \$5,000 \$8,000 \$1,500 \$8,000	100% 100% 100% Saskatoon Usage % 100% 0% 0% Saskatoon Usage % 100% 90% 90% 90%	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 ent Inventory a Saskatoon Allocation \$15,000 \$0 \$75,000 Saskatoon Allocation \$5,000 \$7,200 \$1,350 \$0	Harvest Equipment Harvester Pruning Equipment  Total Inventory  Spraying & Misc. Sprayer - 25 ft Fertilizer Spreader	\$60,000 \$4,000 \$0 \$64,000 Market Value \$10,000 \$15,000 \$5,000	Usage % 100% 100% 0% 0% 0%  Saskatoon Usage % 100% 100% 100% 0%	### Allocation ### \$60,00 ### \$4,00 ### \$64,00  ### \$64,00  ### \$10,00 ### \$15,00 ### \$5,00 ### \$5,00 ### \$5,00
Holding Freezer Sorting Table & Sizer rigation Equipment Storage & Irrigation TOTAL Storage & Irrigation Total per acre  Power Equipment Fractor - 50 HP Fruck  Fotal Inventory  Seeding & Tillage Mechanical Transplanter Rotovator Cultivator	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 Market Value \$60,000 \$15,000 \$0 \$75,000 Market Value \$5,000 \$1,500 \$0 \$14,500	100% 100% 100% Saskatoon Usage % 100% 0% 0% Saskatoon Usage % 100% 90% 90% 90% 0%	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 \$20 \$155,000 \$155	Harvest Equipment Harvester Pruning Equipment  Total Inventory  Spraying & Misc. Sprayer - 25 ft Fertilizer Spreader Mower	\$60,000 \$4,000 \$0 \$0 \$64,000 Market Value \$10,000 \$15,000 \$5,000	Usage % 100% 100% 0% 0% 0%  Saskatoon Usage % 100% 100% 100% 0%	### Allocation
Holding Freezer Sorting Table & Sizer Frigation Equipment Storage & Irrigation TOTAL Storage & Irrigation Total per acre  Power Equipment Fractor - 50 HP Fruck  Fotal Inventory  Seeding & Tillage Mechanical Transplanter Rotovator Cultivator  Fotal Inventory  Dwned Equipment TOTAL	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 Market Value \$60,000 \$15,000 \$0 \$75,000 Market Value \$5,000 \$1,500 \$0 \$14,500	100% 100% 100% 100%  Equipme Saskatoon Usage % 100% 0%  Saskatoon Usage % 100% 0%  0%  0%  0%  0% 0%	\$15,000 \$20,000 \$30,000 \$155,000 \$15,000 \$15,000 \$7,750  Saskatoon Allocation \$60,000 \$15,000 \$0 \$75,000  Saskatoon Allocation \$5,000 \$13,550 \$0 \$13,550	Harvest Equipment Harvester Pruning Equipment  Total Inventory  Spraying & Misc. Sprayer - 25 ft Fertilizer Spreader Mower	\$60,000 \$4,000 \$0 \$0 \$64,000 Market Value \$10,000 \$15,000 \$5,000	Usage % 100% 100% 0% 0% 0%  Saskatoon Usage % 100% 100% 100% 0%	### Allocation
Holding Freezer Sorting Table & Sizer rigation Equipment Storage & Irrigation TOTAL Storage & Irrigation Total per acre  Power Equipment Fractor - 50 HP Fruck  Fotal Inventory  Seeding & Tillage Mechanical Transplanter Rotovator Cultivator  Fotal Inventory  Dwned Equipment TOTAL	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 Market Value \$60,000 \$15,000 \$0 \$75,000 Market Value \$5,000 \$1,500 \$0 \$14,500	100% 100% 100% 100%  Equipme Saskatoon Usage % 100% 0%  Saskatoon Usage % 100% 0%  0%  0%  0%  0% 0%	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 \$20 \$155,000 \$155	Harvest Equipment Harvester Pruning Equipment  Total Inventory  Spraying & Misc. Sprayer - 25 ft Fertilizer Spreader Mower	\$60,000 \$4,000 \$0 \$0 \$64,000 Market Value \$10,000 \$15,000 \$5,000	Usage % 100% 100% 0% 0% 0%  Saskatoon Usage % 100% 100% 100% 0%	### Allocation
Holding Freezer Sorting Table & Sizer rigation Equipment Storage & Irrigation TOTAL Storage & Irrigation Total per acre  Power Equipment Fractor - 50 HP Fruck  Fotal Inventory  Seeding & Tillage Mechanical Transplanter Rotovator Cultivator  Fotal Inventory  Dwned Equipment TOTAL	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 Market Value \$60,000 \$15,000 \$0 \$75,000 Market Value \$5,000 \$1,500 \$0 \$14,500	100% 100% 100% Saskatoon Usage % 100% 0% Saskatoon Usage % 100% 90% 90% 90% 0%	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 \$20 \$15,000 \$15,000 \$15,000 \$15,000 \$15,000 \$15,000 \$15,000 \$13,550 \$0 \$13,550 \$182,550 \$9,128	Harvest Equipment Harvester Pruning Equipment  Total Inventory  Spraying & Misc. Sprayer - 25 ft Fertilizer Spreader Mower	\$60,000 \$4,000 \$0 \$0 \$64,000 Market Value \$10,000 \$15,000 \$5,000	Usage % 100% 100% 0% 0% 0%  Saskatoon Usage % 100% 100% 100% 0%	### Allocation
Holding Freezer Sorting Table & Sizer rigation Equipment Storage & Irrigation TOTAL Storage & Irrigation Total per acre  Power Equipment Fractor - 50 HP Fruck  Fotal Inventory  Seeding & Tillage Mechanical Transplanter Rotovator Cultivator  Fotal Inventory  Dwned Equipment TOTAL	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 Market Value \$60,000 \$0 \$75,000 Market Value \$5,000 \$3,000 \$1,500 \$0 \$14,500 \$14,500	Equipme Saskatoon Usage % 100% 100%  100%  Saskatoon Usage % 100% 0%  Saskatoon Usage % 100% 90% 90% 0%  Leased Equi Saskatoon	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 \$15,000 \$15,000 \$0 \$75,000 \$15,000 \$15,000 \$15,000 \$15,000 \$13,550 \$13,550 \$9,128 \$0 \$9,128 \$0 \$0 \$258,4000 \$10,000 \$1	Harvest Equipment Harvester Pruning Equipment  Total Inventory  Spraying & Misc. Sprayer - 25 ft Fertilizer Spreader Mower  Total Inventory	\$60,000 \$4,000 \$0 \$0 \$64,000 Market Value \$10,000 \$15,000 \$5,000	Usage % 100% 100% 0% 0% 0%  Saskatoon Usage % 100% 100% 100% 0%	### Allocation
Holding Freezer Sorting Table & Sizer Irrigation Equipment Storage & Irrigation TOTAL Storage & Irrigation Total per acre  Power Equipment Tractor - 50 HP Truck  Fotal Inventory  Seeding & Tillage Mechanical Transplanter Rotovator Cultivator  Fotal Inventory  Dwned Equipment TOTAL Dwned Equipment TOTAL	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 Market Value \$60,000 \$15,000 \$0 \$75,000 Market Value \$5,000 \$1,500 \$0 \$14,500	100% 100% 100% 100%  Equipme Saskatoon Usage % 100% 0%  Saskatoon Usage % 100% 90% 90% 90% 90% 0% 0%	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 \$20 \$155,000 \$155,000 \$155,000 \$155,000 \$155,000 \$155,000 \$13,350 \$0 \$13,550 \$13,550 \$9,128 \$2550 \$9,128	Harvest Equipment Harvester Pruning Equipment  Total Inventory  Spraying & Misc. Sprayer - 25 ft Fertilizer Spreader Mower  Total Inventory	\$60,000 \$4,000 \$0 \$0 \$64,000 Market Value \$10,000 \$15,000 \$5,000	Usage % 100% 100% 0% 0% 0%  Saskatoon Usage % 100% 100% 100% 0%	### Allocation
Holding Freezer Sorting Table & Sizer Irrigation Equipment Storage & Irrigation TOTAL Storage & Irrigation Total per acre  Power Equipment Tractor - 50 HP Truck  Total Inventory  Seeding & Tillage Mechanical Transplanter Rotovator Cultivator  Total Inventory  Owned Equipment TOTAL Owned Equipment TOTAL	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 Market Value \$60,000 \$0 \$75,000 Market Value \$5,000 \$3,000 \$1,500 \$0 \$14,500 \$14,500	Equipme Saskatoon Usage % 100% 0%  Saskatoon Usage % 100% 0% 0%  Saskatoon Usage % 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 \$15,000 \$15,000 \$0 \$75,000 \$15,000 \$15,000 \$15,000 \$15,000 \$13,550 \$13,550 \$9,128 \$0 \$9,128 \$0 \$0 \$258,4000 \$10,000 \$1	Harvest Equipment Harvester Pruning Equipment  Total Inventory  Spraying & Misc. Sprayer - 25 ft Fertilizer Spreader Mower  Total Inventory	\$60,000 \$4,000 \$0 \$0 \$64,000 Market Value \$10,000 \$15,000 \$5,000	Usage % 100% 100% 0% 0% 0%  Saskatoon Usage % 100% 100% 100% 0%	### Allocation
Holding Freezer Sorting Table & Sizer Irrigation Equipment Storage & Irrigation TOTAL	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 Market Value \$60,000 \$15,000 \$75,000 Market Value \$5,000 \$8,000 \$1,500 \$14,500 \$337,550 \$16,877.50	100% 100% 100% 100%  Equipme Saskatoon Usage % 100% 0%  Saskatoon Usage % 100% 90% 90% 0%  Characteristics 100% 90% 90% 90% 0% 0% 0%	\$15,000 \$20,000 \$30,000 \$30,000 \$7,750 \$30,000 \$155,000 \$15,000 \$15,000 \$75,000 \$15,000 \$75,000 \$13,350 \$0 \$0 \$13,550 \$182,550 \$9,128 \$  pment Inventory at the second sec	Harvest Equipment Harvester Pruning Equipment  Total Inventory  Spraying & Misc. Sprayer - 25 ft Fertilizer Spreader Mower  Total Inventory	\$60,000 \$4,000 \$0 \$0 \$64,000 Market Value \$10,000 \$15,000 \$5,000	Usage % 100% 100% 0% 0% 0%  Saskatoon Usage % 100% 100% 100% 0%	### Allocation ### \$60,00 ### \$4,00 ### \$64,00  ### \$64,00  ### \$10,00 ### \$15,00 ### \$5,00 ### \$5,00 ### \$5,00
Holding Freezer Sorting Table & Sizer Irrigation Equipment Storage & Irrigation TOTAL Storage & Irrigation Total per acre  Power Equipment Tractor - 50 HP Truck  Total Inventory  Seeding & Tillage Mechanical Transplanter Rotovator Cultivator  Total Inventory  Owned Equipment TOTAL Owned Equipment TOTAL	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 Market Value \$60,000 \$15,000 \$0 \$75,000 Market Value \$5,000 \$8,000 \$1,500 \$0 \$14,500 \$14,500 \$16,877.50	100% 100% 100% 100%  Saskatoon Usage % 100% 0%  Saskatoon Usage % 100% 90% 90% 0%  Leased Equi Saskatoon Usage % 0% 0%	\$15,000 \$20,000 \$30,000 \$155,000 \$7,750 \$20 \$15,000 \$15,000 \$15,000 \$15,000 \$15,000 \$15,000 \$15,000 \$15,000 \$13,350 \$0 \$13,550 \$182,550 \$9,128 \$2550 \$9,128 \$2550 \$10,000 \$10,	Harvest Equipment Harvester Pruning Equipment  Total Inventory  Spraying & Misc. Sprayer - 25 ft Fertilizer Spreader Mower  Total Inventory	\$60,000 \$4,000 \$0 \$0 \$64,000 Market Value \$10,000 \$15,000 \$5,000	Usage % 100% 100% 0% 0% 0%  Saskatoon Usage % 100% 100% 100% 0%	\$60,00 \$4,00 \$ \$ \$64,00 Saskatoon

Note: 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.

# **Saskatoon Berry Production in Manitoba**

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

The investment and cash input costs of growing saskatoon berries in Manitoba are substantial. Detailed budgeting and good financial planning are essential ingredients for success. The capital investment to establish and operate a 20 acre orchard are substantial. The establishment costs are incurred in the first 4 years and production doesn't begin until year 5. Saskatoons do not reach peak yield levels until 6-8 years after transplanting. However, a properly maintained orchard should maintain uniform yields for 20-30 years.

Commercial saskatoon production in Manitoba has been an important part of diversification in the province. The majority of the saskatoon orchards are harvested by hand for U-Pick sales and prepicked direct farm sales; but mechanical harvesting for sales into processing has increased over the past few years.

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 management skills to the crop in a precisely timed manner, (5) the ability to determine market potential, and (6) the willingness to accept risk.

It is advised that new growers assess their potential customer base and marketing opportunities prior to establishing a saskatoon orchard and that they should start small and expand their orchards over several years.

## **Other Assumptions**

Fuel Costs: Includes fuel used for field work, trucking in inputs and trucking out production.

Machinery Operating Costs: Includes costs for maintenance, repairs, licenses and insurance.

#### **Crop Insurance:**

Establishment coverage is available through MASC.

Other Costs: Includes overhead expenses - hydro, telephone, accounting, buildings, supplies and insurance, etc.

Land Taxes: The average cost based on land tax assessment and mill rates of a sample of municipalities growing crops less provincial tax

rebate

Interest On Operating: Interest charges on operating costs are calculated at 7% for six months.

#### Land Cost:

Based on approximate average land values. Budget assumed 70% financed at 6% for 25 years, plus 1.5% land equity opportunity cost.

Budget can be used to estimate cashflow by removing investment cost.

P&I Cost (based on \$70,000 Mortgage) = \$5,476 payments per year) / 20 acres = \$273.79/acre)

Investment = (Total Investment x Owned Equity %) x Investment Rate % (eg. ((\$5,000 x 30%) x 1.5%) = \$22.50/acre)

#### **Machinery Cost:**

Based on approximate average machinery values. Budget assumed 80% financed at 7% for 7 years, depreciation costs over 15 years with a 10% residual value, plus 1.5% machinery equity opportunity cost. Budget can be used to estimate cashflow by removing depreciation and investment cost.

P&I Cost (based on \$270,040 Loans) = \$27,098 payments per year) / 20 acres = \$1354.91/acre)

Depreciation (Useage Cost) = (Total Investment - Residual Value) / Years Useful Life (eg. (\$9127.5 x 10%)) / 15 = \$547.65/acre)

Investment = (Total Investment x Owned Equity %) x Investment Rate % (eg. (\$9127.5 x 20%) x 1.5%) = \$109.53/acre)

#### Depreciation Cost = Original Cost - Salvage Value

Useful Life

Investment Cost = Original Cost + Salvage Value x Investment Rate

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#### **Estimated Farmgate Values:**

Target crop prices are based on \$6.50 value per pound sold.

Target crop yields are based on historical yield from Manitoba crop average of 2,100 lbs/ac.

#### Plant Costs:

Plant cost based on Prairie Fruit Growers Association member plant discount price.

#### **Miscellaneous Costs:**

Includes: plant costs, advertising, utilities, and rental & custom charges.

# Profitability, Breakeven & Risk Analysis Formulas:

Gross Revenue = Price per unit x Yield per acre (eg. picking years: \$6.50/lbs x 2100lbs/ac = \$13650.00/ac)

Net Profit = Gross Revenue - Total Cost (eg. picking years: \$13650.00 gross revenue - \$6096.82 total cost = \$7553.18 per acre)

Operating Expense Ratio = (Operating Cost / Gross Revenue) x 100 (eg. picking years: \$2305.38 operating expense / \$13650.00 total cost = 16.9%)

Breakeven Price = Cost / Target Yield (eg. picking years: \$6096.82 / 2100 lbs = \$2.90 per lbs)

Breakeven Yield = Cost / Price per Unit (eg. picking years: \$6096.82 / \$6.50 lbs = 938.0 lbs)

Breakeven Yield Risk Ratio = (Yield per Acre / Breakeven Yield) x 100 (eg. picking years: 2100 lbs/ac / 938.0 bu BE = 224%)

June, 2025

#### Contact Us

For more information, contact a Farm Management Specialist.

- manitoba.ca/agriculture
- mbfarmbusiness@gov.mb.ca
- 1-844-769-6224



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