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**2025/2027 Cost of Production**

# **Swine Farrow-Wean to 6kg**





## Guidelines For Estimating Swine Farrow-Wean to 6 kg Costs Based On 600 Sows 16,944 Pigs Sold

Date: June, 2025

This guide is designed to provide you with planning information and a format for calculating costs of production of a swine farrow to 6kg enterprise in Manitoba. This operation is intended to represent the first stage of a three stage system. General Manitoba Agriculture recommendations are assumed in using feed and veterinary inputs. These figures provide an economic evaluation of the livestock and estimated prices 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. The assumptions on which the costs are based are outlined in the supporting pages. These assumptions were arrived at using the breeding stock, management practices, and facilities seen in modern, well managed swine operations of comparable size in Manitoba. Productivity and performance assumptions are based on information collected by department specialists, feed companies and other organizations. Where individual herd productivity and performance levels differ from those listed, adjustments will be required.

This tool is available as an Excel worksheet at:



[The Farm Machinery Custom and Rental Rate Guide](#) is also available to help determine machinery costs.

### Contact Us

For more information, contact a Farm Management Specialist.

- [manitoba.ca/agriculture](http://manitoba.ca/agriculture)
- [mbfarmbusiness@gov.mb.ca](mailto:mbfarmbusiness@gov.mb.ca)
- 1-844-769-6224

**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.

## **Farrow-Wean to 6 kg Pig Cost of Production**

The following farrow wean to 6 kg cost of production budget is based on the assumption that all feed is purchased.

The budget includes a land investment cost for 40 acres, with 0 acres rented out at \$100 per acre, of the estimated 84 to 130 acres of total landbase that would be required for this size of livestock operation. This land base falls within the 2XP2O5 application rate, soil phosphorus levels permitting.

The rations illustrated in this budget are examples only. Individual farm conditions should be taken into account when formulating the diets. Producers need to know what the feed intakes of their animals are. Please consult with a nutritionist for diet formulation

The Manitoba pork production industry profile is changing and this budget was specifically designed to address the need of producers who may want to analyze the cost of starting up or switching to a farrow wean 6 kg operation. Several companies are offering contracts with varying levels of guarantees. Producers need to accurately calculate their costs before they can properly make a decision.

### 600 Sow Farrow-Wean to 6kg Cost of Production Summary - June, 2025

	Purchased Feed			<u>Your Cost</u>
	<u>\$/Pig Sold</u>	<u>\$/Sow</u>	<u>Total Cost</u>	
<b>A. Operating Costs</b>				
<b>1. Feed Costs:</b>				
Sow Lactation Ration	\$5.51	\$155.61	\$93,368	
Sow Gestation Ration	\$14.02	\$395.98	\$237,588	
Boar Ration	\$0.08	\$2.29	\$1,376	
Creep Feed	<u>\$0.88</u>	<u>\$24.84</u>	<u>\$14,906</u>	
<b>Total Feed Cost</b>	<b>\$20.49</b>	<b>\$578.72</b>	<b>\$347,238</b>	
<b>2. Other Operating Costs:</b>				
Veterinary Medicine & Supplies:	\$4.96	\$140.00	\$84,000	
Maintenance & Repairs	\$1.98	\$56.02	\$33,612	
Hydro & Propane	\$3.73	\$105.30	\$63,182	
Insurance	\$2.02	\$56.92	\$34,151	
Manure Costs	\$0.91	\$25.61	\$15,369	
Office Supplies	\$0.07	\$2.00	\$1,200	
Marketing & Transport.	\$3.69	\$104.21	\$62,523	
Herd Replacement	\$2.65	\$74.75	\$44,850	
Artificial Insemination	\$2.04	\$57.60	\$34,558	
Property Tax	\$0.48	\$13.50	\$8,100	
Subtotal Operating Costs	\$43.01	\$1,214.63	\$728,783	
Interest on Operating Costs	<u>\$0.63</u>	<u>\$17.86</u>	<u>\$10,717</u>	
<b>Total Operating Costs</b>	<b>\$43.64</b>	<b>\$1,232.49</b>	<b>\$739,500</b>	
<b>B. Fixed Costs</b>				
Buildings & Manure Storage	\$8.79	\$248.16	\$148,896	
Barn Equipment	\$7.88	\$222.57	\$133,540	
Breeding Stock	\$2.08	\$58.80	\$35,280	
Land	<u>\$0.80</u>	<u>\$22.59</u>	<u>\$13,551</u>	
<b>Total Fixed Costs</b>	<b>\$19.55</b>	<b>\$552.12</b>	<b>\$331,267</b>	
<b>C. Labour</b>				
Wages, benefits and hired manager	<b>\$9.94</b>	<b>\$280.80</b>	<b>\$168,480</b>	
<b>Total Cost of Production</b>	<b>\$73.14</b>	<b>\$2,065.41</b>	<b>\$1,239,247</b>	

### Profitability and Breakeven Analysis

<b>Estimated Farmgate</b>	<u>\$/Pig</u>	<u>\$/Sow</u>	<u>Total</u>	
Market Price per weanling	\$63.00	\$1,779.12	\$1,067,472	
Land rental per head sold	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0</u>	
<b>Gross Revenue / hog</b>	<b>\$63.00</b>	<b>\$1,779.12</b>	<b>\$1,067,472</b>	
<b>Marginal Returns</b>				
Over Operating Costs	\$19.36	\$546.63	\$327,972	
Over Operating & Labour Costs	\$9.41	\$265.83	\$159,492	
<b>Over Total Costs (Net Profit)</b>	<b>(\$10.14)</b>	<b>(\$286.29)</b>	<b>(\$171,775)</b>	
<b>Operating Expense Ratio</b>	<b>69.3%</b>			
<b>Breakeven Selling Price</b>	<u>\$/Pig</u>			
Operating Costs	\$43.64			
Operating & Labour Costs	\$53.59			
<b>Total Costs</b>	<b>\$73.14</b>			
<b>Return On Assets (ROA)</b>	<b>(3.09%)</b>			

**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.

## Risk & Sensitivity Analysis

	<b>Purchased Feed Per Pig</b>
<b>A. Operating Costs</b>	
Feed cost	\$20.49
Other Operating Costs	<u>\$23.15</u>
<b>Subtotal</b>	\$43.64
<b>B. Fixed Costs</b>	\$19.55
<b>C. Labour</b>	<u>\$9.94</u>
<b>Total Costs</b>	\$73.14

### Estimated Farmgate

Price (\$ per weanling)	\$63.00
Weanlings sold per sow	28.24

	Up	Down
<b>Percent Market Price Variation</b>	10.0%	10.0%
<b>Percent Feed Cost Variation</b>	10.0%	5.0%
<b>Weanlings Sold Per Sow</b>	0.50	2.50

<b>Higher Price (\$ per weanling)</b>	\$69.30
<b>Lower Price (\$ per weanling)</b>	\$56.70
<b>Higher Feed Cost</b>	\$22.54
<b>Lower Feed Cost</b>	\$19.47
<b>Higher Weanlings Sold Per Sow</b>	28.74
<b>Lower Weanlings Sold Per Sow</b>	25.74

### Higher Margin Scenario - Price Up 10%, Feed Price Down 5% and Weanlings Sold Per Sow Up 0.5

<b>Operating Costs</b>	\$42.28
<b>Total Costs</b>	\$71.77
<b>Gross Revenue / hog</b>	\$69.30
<b>Marginal Returns</b>	
Over Operating Costs	\$27.02
Over Operating & Labour Costs	\$17.08
Over Total Costs (Net Profit)	(\$2.47)
<b>Operating Expense Ratio</b>	61.0%

### Lower Margin Scenario - Price Down 10%, Feed Price Up 10% and Weanlings Sold Per Sow Down 2.5

<b>Operating Costs</b>	\$47.88
<b>Total Costs</b>	\$77.38
<b>Gross Revenue / hog</b>	\$56.70
<b>Marginal Returns</b>	
Over Operating Costs	\$8.82
Over Operating & Labour Costs	(\$1.13)
Over Total Costs (Net Profit)	(\$20.68)
<b>Operating Expense Ratio</b>	84.4%

**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.

### Farrow to 6kg Pig Production Costs

1. This input table outlines the production assumptions used.
2. Buildings and equipment are valued at new cost.
3. Manure haulage is contracted out.
4. Gilts are purchased for herd replacement.

Weanling market price / head      **\$63.00**

#### Indicators of Productivity

Sows	<b>600</b>	<b>\$300</b> /sow
Boars	<b>3</b>	<b>\$3,000</b> /boar
Litters/Sow/Year	<b>2.38</b>	
Average Weaning Age (days)	<b>21</b>	
Average Born Alive per Litter	<b>13.90</b>	
Percent Pre-Weaning Mortality	<b>12.5</b>	
Percent Post-Weaning Culls	<b>2.4</b>	

#### Herd Profile

	<u>Total</u>	<u>/Sow</u>	<u>/Litter</u>	<u>%Mortality</u>
Sows	600			
Boars	3			
Litters	1,428	2.38		
Pigs Born Alive	19,849	33.08	13.90	
Pigs Died, Pre-Weaning	2,481	4.14	1.74	12.5
Pigs Weaned	17,368	28.95	12.16	
Pigs Culled	424	0.71	0.30	2.4
Weaner Pigs Sold	16,944	28.24	11.87	

#### Feed Requirements and Costs

	<u>Dry Sow</u>	<u>Nursing Sow</u>	<u>Boar Ration</u>	<u>Creep Feed</u>
Days average weaning age		21		(kg/pig)
x Litters/Sow/Year		2.38		
= Days lactation/gestation	315	50.0	365	
x kg ration/day	<b>3.0</b>	<b>6.5</b>	<b>3.0</b>	<b>0.5</b>
x ration cost per tonne	<b>\$419</b>	<b>\$479</b>	<b>\$419</b>	<b>\$1,502</b>
x boars			3	
÷ kg/tonne	1,000	1,000	1,000	
x pigs born alive/sow/year				33.08
÷ <u>pigs sold/sow/year</u>	<u>28.24</u>	<u>28.24</u>	<u>16,944</u>	<u>28.24</u>
= <u>/pig sold</u>	<b>\$14.02</b>	<b>\$5.51</b>	<b>\$0.08</b>	<b>\$0.88</b>

#### Labour

	<b>120</b> hours/week
x	52 weeks/year
=	6,240 total hours/year (10.4 hrs/sow)
x	<b>\$27.00</b> wage/hour (includes hired manager)
÷	<u>16,944</u> pigs sold
=	<b>\$9.94 /pig sold</b>

#### Veterinary Medicine & Supplies

	<b>\$140.00</b> Professional Services/sow
+	<b>\$0.00</b> Medication/sow
÷	<u>28.24</u> pigs sold/sow/year
=	<b>\$4.96 /pig sold</b>

#### Maintenance & Repair

	<b>1.50</b> % of Total Capital Investment
x	\$2,240,798 total buildings and equipment cost
÷	<u>16,944</u> pigs sold
=	<b>\$1.98 /pig sold</b>

**Hydro & Propane**

	<b>450</b>	Hydro usage - kwhr/sow
x	600	sows
x	<b>\$0.09234</b>	Hydro rate per kwhr
÷	<u>16,944</u>	pigs sold
=	<b>\$1.47</b>	/pig sold
	<b>85</b>	Propane usage - litres/sow
x	600	sows
x	<b>\$0.75</b>	Propane rate per litre
÷	<u>16,944</u>	pigs sold
=	<b>\$2.26</b>	/pig sold

**Insurance**

<b>\$0.78</b>	/\$100 Capital Invested - Buildings and Equip.	\$1.03
<b>\$0.88</b>	/\$100 Capital Invested - Breeding Stock	\$0.65
<b>\$0.78</b>	/\$100 Capital Invested - Business Interruption	
<b>\$1,200</b>	per sow - Business Interruption Value	<u>\$0.33</u>
	<b>/pig sold</b>	<b>\$2.02</b>

**Manure Costs**

<b>Haulage</b>	<b>22.7</b>	litres/sow/day <sup>3</sup>	<sup>3</sup> 1000 litres = 35.314 cubic feet
x	365	days/year	
x	600	average inventory of sows	
x	<b>\$0.0030</b>	/litre =	\$0.014 /gallon
÷	<u>16,944</u>	pigs sold	
=	<b>\$0.88</b>	/pig sold	

**Estimated Nutrient Value**

	22.7	litres/pig/day
x	365	days/year
x	600	average inventory of pigs
÷	<u>1,000</u>	
=	4,971	# of 1000 litres of manure

	<b>Nitrogen</b>	<b>Phosphate</b>	<b>Potassium</b>
kg per 1000 litres	<b>2.09</b>	<b>0.56</b>	<b>0.89</b>
x # of 1000 litres of manure	4,971	4,971	4,971
x % nutrient value recovery	<b>60</b>	<b>0</b>	<b>0</b>
÷ lbs per kg	2.2046	2.2046	2.2046
x fertilizer value per lb.	<b>\$0.90</b>	<b>\$0.90</b>	<b>\$0.50</b>
÷ <u>pigs sold</u>	<u>16,944</u>	<u>16,944</u>	<u>16,944</u>
= estimated nutrient value / pig sold	<b>\$0.15</b>	<b>\$0.00</b>	<b>\$0.00</b>

**Odour control & Mgmt Fees**

\* kg/1000 L x 10 = lbs/1000 imp. Gallons

	<b>\$0</b>	Odour control (barley straw)
+	<b>\$3,000</b>	Manure Management Fee
÷	<u>16,944</u>	pigs sold
=	<b>\$0.18</b>	/pig sold
=	<b>\$0.91</b>	/pig sold

**Office Supplies**

x	<b>\$2.00</b>	\$/sow
÷	<u>28.24</u>	pigs/sow
=	<b>\$0.07</b>	/pig sold

**Marketing & Transportation**

	<b>\$3.50</b>	marketing & transportation/weaner pig sold
+	<b>\$0.19</b>	Board Levy/weaner pig sold
=	<b>\$3.69</b>	/pig sold



**AI Cost**

	<b>2.2</b>	Number of services/sow
x	<b>\$11.00</b>	Cost/dose (semen)
x	600	sows
x	2.38	Litters/Sow/Year
÷	<u>16,944</u>	<u>pigs sold</u>
=	<b>\$2.04</b>	<b>/pig sold</b>

**Breeding Herd Replacement**

<b>Sow</b>	<b>180.0</b>	kg/sow (cull weight)
x	<b>\$77.30</b>	/100 kg live
=	\$139.14	/sow value of cull
	\$300	/sow value of replacement
-	\$139.14	/sow value of cull
=	\$160.86	net replacement cost
x	<b>42.00</b>	percent sow culling rate
÷	<u>28.24</u>	<u>pigs sold/sow/year</u>
=	<b>\$2.39</b>	<b>/pig sold</b>

<b>Boar</b>	<b>225.0</b>	kg/boar (cull weight)
x	\$55.19	/100 kg live
=	\$124.18	/boar value of cull
	\$3,000	/boar value of replacement
-	\$124.18	/boar value of cull
=	\$2,875.82	net replacement cost
x	<b>50</b>	% culling rate
x	3	number of boars
÷	600	number of sows
÷	<u>28.24</u>	<u>pigs sold/sow/year</u>
=	<b>\$0.25</b>	<b>/pig sold</b>
=	<b>\$2.65</b>	<b>Total/pig sold</b>

**Property Taxes**

	<b>\$7,500</b>	taxes on barn and land
÷	<u>16,944</u>	<u>pigs sold</u>
=	\$0.44	/pig sold
	<b>\$15.00</b>	taxes on land
x	40	acres
÷	<u>16,944</u>	<u>pigs sold</u>
=	\$0.04	/pig sold
=	<b>\$0.48</b>	<b>Total/pig sold</b>

**Interest on Operating Cost**

	\$43.01	subtotal operating
÷	2	average
x	153	days farrow to farrow
÷	365	days per year
x	<b>7.00</b>	% operating interest rate
=	<b>\$0.63</b>	<b>/pig sold</b>

<sup>3</sup> FOOTNOTE: 1 cubic metre = 1000 litres  
 1 cubic metre = 35.314 cubic feet  
 1 cubic metre = 219.97 imperial gallons

### Fixed Costs

#### Pig Places<sup>1</sup>

Gestation	600	27.0	ft. <sup>2</sup> per Pig Place	16,200	ft. <sup>2</sup> Total
Farrowing	7,297	1.07	ft. <sup>2</sup> per Pig Place	7,808	ft. <sup>2</sup> Total

<u>Buildings</u>	<u>\$/pig place</u>	<u>Total</u>		<u>Barn Equipment</u>	<u>\$/pig place</u>	<u>Total</u>	
Gestation	\$1,750	\$1,050,000	(\$65/sq.ft.)	Gestation	\$720	\$432,000	(\$27/sq.ft.)
Farrowing	\$50	\$364,874	(\$47/sq.ft.)	Farrowing	\$30	\$218,924	(\$28/sq.ft.)
Office and Loading (300 sq.ft.)	\$25	\$15,000	(\$50/sq.ft.)	Other	\$0.00	\$0	
Manure Storage	\$200	\$120,000		Fire Alarm System	\$5.00	\$3,000	
Standby Generator	\$41.67	\$25,000		Storage Bins	\$20.00	\$12,000	
<b>Total Barn Cost</b>		<b>\$1,574,874</b>		<b>Total Equipment Cost</b>		<b>\$665,924</b>	
Residual Value (End of Useful Life)		50%		Residual Value (End of Useful Life)		10%	
Useful Life (years)		25		Useful Life (years)		10	
Owned Barn Equity		25%		Owned Barn Equipment Equity		25%	
Barn Financed		75%		Barn Equipment Financed		75%	
Barn Opportunity Cost (Investment Rate)		1.50%		Equipment Opportunity Cost (Investment Rate)		1.50%	
<b><u>Buildings Cost</u></b>				<b><u>Barn Equipment Cost</u></b>			
Finance Rate & Term	7.000%	20	Years	Finance Rate & Term	7.000%	10	Years
Principle & Interest Cost		\$111,493		Principle & Interest Cost		\$71,109	
Buildings Depreciation Cost		\$31,497		Equipment Depreciation Cost		\$59,933	
Owned Building Opportunity Cost		\$5,906		Owned Equipment Opportunity Cost		\$2,497	
<b>Total Cost</b>		<b>\$148,896</b>		<b>Total Cost</b>		<b>\$133,540</b>	
<b>Total Cost \$/pig sold (based on 16,944)</b>		<b>\$8.79</b>		<b>Total Cost \$/pig sold (based on 16,944)</b>		<b>\$7.88</b>	
<b><u>Land</u></b>				<b><u>Breeding Stock - Sows</u></b>			
Average Land value (\$/acre)		\$4,000		Sow value (\$/head)		\$300	
Acres		40		Owned Sow Equity		25%	
Site preparation cost		\$36,000		Sows Financed (\$225 per head)		75%	
Owned Land Equity		25%		Cow Opportunity Cost (Investment Rate)		1.50%	
Land Financed		75%		<b><u>Sow cost</u></b>			
Land Opportunity Cost (Investment Rate)		1.50%		Finance Rate & Term	7.000%	5	Years
<b><u>Land cost</u></b>				Principle & Interest Cost		\$32,925	
Finance Rate & Term	6.000%	20	Years	Owned Sows Opportunity Cost		\$675	
Principle & Interest Cost		\$12,816	\$0.00	<b>Total Cost</b>		<b>\$33,600</b>	
Owned Land Opportunity Cost		\$735		<b>Total Cost \$/pig sold (based on 16,944)</b>		<b>\$1.98</b>	
<b>Total Cost</b>		<b>\$13,551</b>		<b><u>Breeding Stock - Boars</u></b>			
<b>Total Cost \$/pig sold (based on 16,944)</b>		<b>\$0.80</b>		Boar value (\$/head)		\$3,000	
<b><u>Land Rental</u></b>				Owned Boar Equity		25%	
Number of Acres rented out	0	acres		Boars Financed (\$2,250 per head)		75%	
Land rental rate (income)	\$100	/acre		Boar Opportunity Cost (Investment Rate)		1.50%	
				<b><u>Boar cost</u></b>			
				Finance Rate & Term	7.000%	5	Years
				Principle & Interest Cost		\$1,646	
				Owned Boars Opportunity Cost		\$34	
<b>Total Capital Investment</b>		<b>\$2,625,798</b>		<b>Total Cost</b>		<b>\$1,680</b>	
<b>Total Capital Investment / Sow Place</b>		<b>\$4,376</b>		<b>Total Cost \$/pig sold (based on 16,944)</b>		<b>\$0.10</b>	

<sup>1</sup> FOOTNOTE: The number of square feet in the building and the cost per square foot for buildings and equipment are approximations only. A certified building plan which is designed according to the average inventory of grower-finisher pigs should be used in order to get the exact dimensions and area for new buildings.

1 sq.ft. = 0.0929 sq.m; 1 sq.m. = 10.764 sq.ft.; 1 ft. = 0.3048 m

1 cubic metre = 1000 litres; 1 cubic metre = 35.314 cubic feet; 1 cubic metre = 219.97 imperial gallons

### Summary of Purchased Feeds Used

<b>Number of Sows</b>	<b>600</b>			
<b>Total Pigs Fed</b>	<b>17,368</b>			
	<b>Total per Year (tonnes)</b>	<b>Total per Month (tonnes)</b>	<b>Total per Pig (kgs)</b>	<b>Total per Pig (lbs)</b>
Dry Sow	567.04	47.25	32.65	71.98
Lactating Sow	194.92	16.24	11.22	24.74
Boar	3.29	0.27	0.19	0.42
Creep	8.68	0.72	0.50	1.10
<b>Total</b>	<b>773.93</b>	<b>64.49</b>	<b>44.56</b>	<b>98.24</b>

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#### Contact Us

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