



# Guidelines for Estimating Swine (26 to 121 kg) Finishing Cost 2019/2020

in Manitoba





Guidelines For Estimating  
**Swine (26 to 121 kg) Finishing Costs**  
Based On Marketing 11,376 Pigs

Date: September, 2018

This guide is designed to provide you with planning information and a format for calculating costs of production of a swine finishing 26 to 121 kg enterprise in Manitoba. This type of operation is intended to represent the third stage of a three stage pork 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: [www.manitoba.ca/agricultur](http://www.manitoba.ca/agricultur) or at your local [Manitoba Agriculture office](#).

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

**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 your local Manitoba Agriculture Office.

## Swine (26 to 121 kg) Finishing Cost of Production

The following 26 to 121 kg budget is based on the assumption that all feed is purchased or home-mixed. The budget includes a land investment cost for 40 acres, with 0 acres rented out at \$60 per acre, of the estimated 232 to 358 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 budget includes an assumption that 1.5% of the market pigs are sold as lightweight pigs. It is assumed that when light weight pigs are sold, they will have a salvage value. Therefore, total marketings are reduced by 2.44% to compensate for the lightweight pigs.

The budget includes an assumption that this particular operation is "all-in, all-out" by room. Space allocations for finishing pigs are in accordance with Recommended Code of Practice for the Care and Handling of Farm Animals: Pigs.

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 the feed intakes of their animals. Please consult with a nutritionist for diet information suggestions.

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 finishing 26 to 121 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.

### Swine (26 to 121 kg) Finishing Summary - September, 2018

	Purchased Feed		Home-Mixed Feed		Your Cost
	\$/Pig Sold	Total Cost	\$/Pig Sold	Total Cost	
<b>A. Operating Costs</b>					
<b>1. Feed Costs:</b>					
1.01 Grower 1	\$17.30	\$196,813	\$15.98	\$181,796	
1.02 Grower 2	\$50.78	\$577,697	\$46.06	\$524,000	
1.03 Finisher	<u>\$25.91</u>	<u>\$294,764</u>	<u>\$19.76</u>	<u>\$224,799</u>	
<b>Total Feed Cost</b>	<b>\$93.99</b>	<b>\$1,069,274</b>	<b>\$81.80</b>	<b>\$930,595</b>	
<b>2. Other Operating Costs:</b>					
2.01 Weanling Cost	\$71.92	\$818,196	\$71.92	\$818,196	
2.02 Veterinary Medicine & Supplies	\$1.46	\$16,600	\$1.46	\$16,600	
2.03 Maintenance & Repairs	\$1.58	\$18,000	\$1.58	\$18,000	
2.04 Hydro & Propane	\$2.87	\$32,654	\$2.87	\$32,654	
2.05 Insurance	\$1.66	\$18,919	\$1.66	\$18,919	
2.06 Manure Costs	\$1.89	\$21,457	\$1.89	\$21,457	
2.07 Office Supplies	\$0.11	\$1,196	\$0.11	\$1,196	
2.08 Marketing & Transport	\$8.61	\$97,951	\$8.61	\$97,951	
2.09 Property Tax	<u>\$0.65</u>	<u>\$7,350</u>	<u>\$0.65</u>	<u>\$7,350</u>	
Subtotal Operating Costs	\$184.73	\$2,101,597	\$172.54	\$1,962,918	
2.10 Interest on Operating Costs	<u>\$2.49</u>	<u>\$28,288</u>	<u>\$2.37</u>	<u>\$26,944</u>	
<b>Total Operating Costs</b>	<b>\$187.22</b>	<b>\$2,129,885</b>	<b>\$174.91</b>	<b>\$1,989,862</b>	
<b>B. Fixed Costs</b>					
<b>3. Depreciation:</b>					
3.01 Buildings & Manure Storage	\$3.69	\$41,957	\$3.77	\$42,857	
3.02 Equipment	<u>\$3.91</u>	<u>\$44,517</u>	<u>\$4.34</u>	<u>\$49,395</u>	
<b>Total Depreciation Cost</b>	<b>\$7.60</b>	<b>\$86,474</b>	<b>\$8.11</b>	<b>\$92,252</b>	
<b>4. Investment:</b>					
4.01 Land	\$0.22	\$2,475	\$0.22	\$2,475	
4.02 Buildings & Manure Storage	\$1.52	\$17,322	\$1.56	\$17,322	
4.03 Equipment	<u>\$0.67</u>	<u>\$7,668</u>	<u>\$0.74</u>	<u>\$8,425</u>	
<b>Total Investment Cost</b>	<b>\$2.41</b>	<b>\$27,465</b>	<b>\$2.51</b>	<b>\$28,222</b>	
<b>Total Fixed Costs</b>	<b>\$10.02</b>	<b>\$113,939</b>	<b>\$10.62</b>	<b>\$120,474</b>	
<b>C. Labour</b>					
Wages, benefits and hired manager	\$4.83	\$54,912	\$4.83	\$54,912	
<b>Total Cost of Production</b>	<b>\$202.06</b>	<b>\$2,298,736</b>	<b>\$190.36</b>	<b>\$2,165,248</b>	

#### Profitability and Breakeven Analysis

	Per Pig	Total	Per Pig	Total
<b>Estimated Farmgate</b>				
Market Price (\$ per 100kg)	<b>\$158.00</b>		<b>\$158.00</b>	
Market weight (shrunk-kg/hog live)	118.05		118.05	
Dressing %	80		80	
Premium per head sold	\$2.00		\$2.00	
Land rental per head sold	\$0.00		\$0.00	
Gross Revenue / hog	<b>\$166.13</b>	<b>\$1,890,012</b>	<b>\$166.13</b>	<b>\$1,890,012</b>
<b>Marginal Returns</b>				
Over Operating Costs	(\$21.09)	(\$239,874)	(\$8.78)	(\$99,851)
Over Operating & Labour Costs	(\$25.91)	(\$294,786)	(\$13.60)	(\$154,763)
<b>Over Total Costs (Net Profit)</b>	<b>(\$35.93)</b>	<b>(\$408,726)</b>	<b>(\$24.23)</b>	<b>(\$275,615)</b>
<b>Operating Expense Ratio</b>	<b>112.7%</b>		<b>105.3%</b>	
<b>Breakeven Selling Price</b>	<b>\$/100 kg</b>	<b>\$/cwt</b>	<b>\$/100 kg</b>	<b>\$/cwt</b>
Operating Costs	\$175.83	\$79.75	\$164.27	\$74.51
Operating & Labour Costs	\$180.36	\$81.81	\$168.80	\$76.57
<b>Total Costs</b>	<b>\$189.76</b>	<b>\$86.08</b>	<b>\$178.78</b>	<b>\$81.09</b>
<b>Return On Assets (ROA)</b>	<b>(17.90%)</b>		<b>(10.76%)</b>	

**Note:** This budget is only a guide and is not intended to be an in-depth study of the cost of production of this industry. Interpretation and utilization of this information is the responsibility of the user. No liability for decisions based on this publication is assumed.

### Risk & Sensitivity Analysis (Stress Test)

Percent Market Price Change	<b>-10.0%</b>
Percent Feed Cost Change	<b>10.0%</b>
Percent Weanling Cost Change	<b>5.0%</b>

	Purchased Feed Per Pig	Home-Mixed Feed Per Pig
<b>Market Price (\$ per 100kg)</b>	\$142.20	\$142.20
<b>Feed Cost</b>	\$103.39	\$89.98
<b>Weanling Cost</b>	\$75.52	\$75.52

**Stress Test Scenario = Market Price Down 10%, Feed Price Up 10% and Weanling Cost Up 5%**

<b>Operating Costs</b>	\$200.22	\$186.69
<b>Total Costs</b>	\$215.06	\$202.14
<b>Gross Revenue / hog</b>	\$149.72	\$149.72
<b>Marginal Returns</b>		
Over Operating Costs	(\$50.50)	(\$36.97)
Over Operating & Labour Costs	(\$55.32)	(\$41.80)
Over Total Costs (Net Profit)	(\$65.34)	(\$52.42)
<b>Operating Expense Ratio</b>	133.7%	124.7%
<b>Return on Asset (ROA)</b>	<b>(39.87%)</b>	<b>(31.34%)</b>

### Estimated Breakeven Canadian Dollar Analysis\*

	Est. US Futures Price (USD per cwt)				
*Purchased Feed	\$56.42	\$58.42	\$60.42	\$62.42	\$64.42
<b>Breakeven CDN Dollar (\$1 Cdn = \$ USD)</b>					
Operating Costs	0.6151	0.6369	0.6587	0.6805	0.7024
Operating & Labour Costs	0.6151	0.6369	0.6434	0.0025	0.7024
Operating, Fixed & Labour Costs	0.5731	0.5934	0.6137	0.6340	0.6543

### Estimated Breakeven US Futures Price Analysis\*

	Canadian Dollar (\$1 Cdn = \$ USD)				
*Purchased Feed	0.7500	0.7600	0.7700	0.7800	0.7900
<b>Breakeven Futures Price (\$ USD)</b>					
Operating Costs	\$68.79	\$69.71	\$70.63	\$71.55	\$72.46
Operating & Labour Costs	\$70.44	\$71.38	\$72.31	\$73.25	\$74.19
Operating, Fixed & Labour Costs	\$73.84	\$74.83	\$75.81	\$76.80	\$77.78

Breakeven Canadian Dollar = Est. US Futures / (Cost + Basis) (eg. (\$60.42 / ((\$202.06 + \$15.00)/2.2046)) = \$0.6137 US)

Breakeven Est. US Futures = (Cost + Basis) / Cdn Dollar (eg. ((((\$202.06 + \$15.00)/2.2046)/(1/0.7700)) = \$75.81)

**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.

## Swine (26-121 kg) Finishing Production Cost Assumptions

1. This input table outlines the cost of production for a finishing enterprise
2. Buildings and equipment are valued at new cost.
3. Purchased or home-mixed feed is used.
4. Manure haulage is contracted out.

Weanling Cost based on **\$70**  
 \$1 Canadian Dollar **\$0.7700** USD or \$1 USD = \$1.2987 Canadian Dollar  
 Market Price/100kg **\$158.00** or: \$0.72 /lb **110** Market Index  
 Premium/head **\$2.00** Basis (\$ per 100kg) **\$15.00** **80** % Dress  
 Estimated US Futures Price \$60.42 USD

### Indicators of Productivity

	<u>Grower 1</u>	<u>Grower 2</u>	<u>Finisher</u>	<u>Total</u>
Number of Pigs Purchased	<b>12,000</b>	11,886	11,773	12,000
Average Beginning Weight (kg)	<b>26.0</b>	50.0	100.0	26
Average Ending Weight (kg)	<b>50.0</b>	<b>100.0</b>	<b>121.0</b>	121
Percent Mortality	<b>0.95</b>	<b>0.95</b>	<b>0.95</b>	2.8
Days on Feed	<b>23</b>	<b>65</b>	<b>28</b>	116
Feed Conversion Ratio	<b>1.95</b>	<b>3.00</b>	<b>3.50</b>	2.85
Number of Pigs (Ending)	11,886	11,773	11,661	11,661
Weight Gain/Pig (kg)	24.0	50.0	21.0	95.0
Feed Disappearance/Pig (kg)	46.8	150.0	73.5	270.3
Average Daily Gain (kg)	1.043	0.769	0.750	0.819
Average Number Pigs in Barn	4,025	3,986	3,948	3,986

### Productivity Profile

	<u>Total</u>	
Pigs Purchased	12,000	
Pigs Died	339	2.8 % mortality
Pigs available for marketing	11,661	
Less Light Weight Pig Adjustment	285	<b>2.44</b> %
Pigs Sold at full market value	11,376	
Washing and restocking days	<b>7</b>	
Total Days to Market	123	
Turnover (365 / days to market)	2.97	

### Feed Requirements and Costs

	<u>FCR *</u>	<u>kg/pig</u>	<u>Ration Cost per tonne</u>	
			<u>Purchased</u>	<u>Home-Mixed</u>
Grower 1	1.95	46.8	<b>\$350.39</b>	\$323.64
Grower 2	3.00	150.0	<b>\$320.97</b>	\$291.13
Finisher Ration	3.50	73.5	<b>\$334.25</b>	\$254.83

\* FCR = Feed Conversion Ratio (Feed:Gain)

### Labour

Total Hours per year	<b>48.0</b>	hours/week	2,496	hours/year
Wage (includes hired manager)	<b>\$22.00</b>	/hour (weighted)		

## Capital Investment<sup>1</sup>

### 4,040 Pig Places

		<u>/sq.ft</u>	<u>Total</u>	<u>/Pig Place</u>	<u>Your Cost</u>
<b>Buildings</b>					
Barn	37,168 ft. <sup>2</sup>	<b>\$27.50</b>	\$1,022,120	\$253.00	_____
Office & Loading	300 ft. <sup>2</sup>	<b>\$27.50</b>	\$8,250	\$2.04	_____
Standby Generator			\$24,000	\$5.94	_____
Feed Mill (building only)			<b>\$25,000</b>	<b>\$6.19</b>	_____
<b>Total Building Cost</b>			<b>\$1,079,370</b>	<b>\$267.17</b>	_____
<b>Equipment</b>					
Finishing Barn			\$470,000	\$116.34	_____
Other			\$0	\$0.00	_____
Fire Alarm System			\$1,000	\$0.25	_____
Storage Bins			\$36,000	\$8.91	_____
Feed Mill (equipment only)			<b>\$50,000</b>	<b>\$12.38</b>	_____
<b>Total Equipment Cost</b>			<b>\$557,000</b>	<b>\$137.87</b>	_____
<b>Total Buildings and Equipment Cost</b>			<b>\$1,636,370</b>	<b>\$405.04</b>	_____
<b>Land Value</b>					
Land Investment	40 acres @	<b>\$1,500</b>	<b>\$60,000</b>	<b>\$14.85</b>	_____
Land Investment	0 acres @	<b>\$1,500</b>	<b>\$0</b>	<b>\$0.00</b>	_____
<b>Other Costs</b>					
Site preparation			<b>\$30,000</b>	\$7.43	_____
Manure Storage			<b>\$100,000</b>	<b>\$24.75</b>	_____
<b>Total Other Costs</b>			<b>\$130,000</b>	<b>\$32.18</b>	_____
<b>Total Capital Investment</b>			<b>\$1,767,870</b>	<b>\$437.59</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.

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



**Fixed Costs**

Depreciation (straight line):

Useful Life:

Buildings	<b>25</b> years
Equipment	<b>10</b> years

Salvage Value (% of original cost):

Buildings	<b>10.00</b> %
Equipment	<b>10.00</b> %

Investment Interest Rate **2.75** %

**Other Operating Costs**

Average market price	<b>\$70.00</b> /cwt	\$154.32 /ckg
Weanling Formula	<b>1.70</b>	
Purchase Weight	<b>57.3</b> lbs	
Hauling in	<b>\$0.00</b> /pig purchased	

Annual Veterinary Costs:

Professional Services	<b>\$600</b>
Medication	<b>\$16,000</b>

Maintenance & Repair **1.10** % of total capital investment

Hydro & Propane	Hydro rate	<b>\$0.08527</b> per kwhr
	Hydro usage	<b>200,000</b> kwhr
	Propane rate	<b>\$0.52</b> per litre
	Propane usage	<b>30,000</b> litres

Insurance

Buildings and equipment	<b>\$0.78</b> /\$100 Capital Invested
Feeder hogs	<b>\$0.88</b> /\$100 Capital Invested
Business Interruption	<b>\$0.78</b> /\$100 Capital Invested
Business Interruption Insured value	<b>\$40.00</b> per feeder
Estimated Market Value of Hogs	<b>\$140.00</b> /hog

Manure Costs:

Storage volume	<b>7.1</b> litres/pig/day <sup>3</sup>
Cost / litre	<b>\$0.0022</b> /litre
Cost / gallon	\$0.010 /gallon

Odour control (barley straw)	<b>\$0</b> total costs
Manure Management Fee	<b>\$3,000</b> total costs

Manure nutrient content	nutrient kg/1000 litres	fertilizer value \$/lb	% nutrient value cost recovery / sale
Total Nitrogen	<b>3.50</b>	<b>0.434</b>	<b>60</b>
Phosphate (P2O5)	<b>0.74</b>	<b>0.461</b>	<b>0</b>
Potassium	<b>1.41</b>	<b>0.314</b>	<b>0</b>

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

Marketing & Transport.

Trucking in	<b>\$3.50</b> /pig
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Trucking out	<b>\$4.00</b> /pig
Council Levy	<b>\$0.80</b> /pig
Grading Charge	<b>\$0.06</b> /pig
Truck Washing	<b>\$0.00</b> /pig
Insurance	<b>\$0.25</b> /pig
Special Levy	<b>\$0.00</b> /pig
Office Supplies	<b>\$0.30</b> /pig place
Operating Loan Interest %	<b>5.75</b> %
Property Tax:	
Grower-Finisher Barn & Land	<b>\$7,350</b> /year
Land	<b>\$4.35</b> /acre
Land Value for Grower-Finisher Operation:	
Number of Acres	<b>40</b> acres
Number of Acres rented out	<b>0</b> acres
Rental rate (income)	<b>\$60</b> /acre
Land Value per Acre	<b>\$1,500</b> /acre

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

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### Feed Ingredient Costs

	<u>Price/tonne</u>	<u>Your Cost</u>
Wheat	\$216.00	
Barley	\$197.00	
Corn	\$175.00	
Soybean Meal - 47 %	\$525.00	
Canola Meal - 34 %	\$350.00	
Peas	\$260.00	
Grower Micro Premix	\$6,850.00	
Canola Oil	\$1,022.50	
Whey Powder	\$537.00	
Herring Meal	\$3,030.00	
Plasma	\$5,720.00	
Limestone	\$121.00	
Dical (16% Ca-21% P)	\$723.00	
Salt - 96%	\$178.00	
Phytase	\$12,941.00	
L-Lysine HCL	\$2,014.00	
L-Threonine	\$2,351.00	
DL-Methionine	\$3,569.00	
Oats - Steam Rolled	\$392.00	
Processing Costs:		
(Hydro, Repairs/Maintenance & Insurance)	\$5.00	
Percent Weight loss due to processing	\$1.25 %	
Labour Cost	\$7.00	

### Ration Formulas

	Grower 1	Grower 2	Finisher
	Ration	Ration	Ration
	<u>(kg)</u>	<u>(kg)</u>	<u>(kg)</u>
Wheat	475.00	200.00	0.00
Barley	215.00	597.00	834.00
Corn	0.00	0.00	0.00
Soybean Meal - 47 %	175.00	75.00	0.00
Canola Meal - 34 %	0.00	100.00	80.00
Peas	100.00	0.00	70.00
Grower Micro Premix	3.00	3.00	3.00
Canola Oil	10.00	8.00	0.00
Whey Powder	0.00	0.00	0.00
Herring Meal	0.00	0.00	0.00
Plasma	0.00	0.00	0.00
Limestone	12.00	10.00	8.00
Dical (16% Ca-21% P)	5.00	2.00	1.00
Salt - 96%	3.50	3.50	3.50
Phytase	0.50	0.50	0.50
L-Lysine HCL	1.00	1.00	0.00
L-Threonine	0.00	0.00	0.00
DL-Methionine	0.00	0.00	0.00
Oats - Steam Rolled	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
<b>Total</b>	1000	1000	1000

**Total Feed Ingredients per Feeder Pig per Year -- Grower-Finisher Barn**

	<b>Grower 1</b>	<b>Grower 2</b>	<b>Finisher</b>	
	<b>Ration</b>	<b>Ration</b>	<b>Ration</b>	<b>Total</b>
	<b>(kg/year)</b>	<b>(kg/year)</b>	<b>(kg/year)</b>	<b>(kg/year)</b>
Wheat	22.23	30.00	0.00	52.23
Barley	10.06	89.55	61.30	160.91
Corn	0.00	0.00	0.00	0.00
Soybean Meal - 47 %	8.19	11.25	0.00	19.44
Canola Meal - 34 %	0.00	15.00	5.88	20.88
Peas	4.68	0.00	5.15	9.83
Grower Micro Premix	0.14	0.45	0.22	0.81
Canola Oil	0.47	1.20	0.00	1.67
Whey Powder	0.00	0.00	0.00	0.00
Herring Meal	0.00	0.00	0.00	0.00
Plasma	0.00	0.00	0.00	0.00
Limestone	0.56	1.50	0.59	2.65
Dical (16% Ca-21% P)	0.23	0.30	0.07	0.61
Salt - 96%	0.16	0.53	0.26	0.95
Phytase	0.02	0.08	0.04	0.14
L-Lysine HCL	0.05	0.15	0.00	0.20
L-Threonine	0.00	0.00	0.00	0.00
DL-Methionine	0.00	0.00	0.00	0.00
Oats - Steam Rolled	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	0.00
<b>Total Ration Used (kgs)</b>	<b>46.8</b>	<b>150.0</b>	<b>73.5</b>	<b>270.3</b>

### Home-Mixed Feed Requirement and Cost Summary

	Amount	Ingredient Price	Ration Cost	
	<u>(kg)</u>	<u>(\$ /tonne)</u>	<u>(\$ /tonne)</u>	<u>Your Cost</u>
<b>Grower 1</b>				
Wheat	475.00	\$216.00	\$102.60	
Barley	215.00	\$197.00	\$42.36	
Corn				
Soybean Meal - 47 %	175.00	\$525.00	\$91.88	
Canola Meal - 34 %				
Peas	100.00	\$260.00	\$26.00	
Grower Micro Premix	3.00	\$6,850.00	\$20.55	
Canola Oil	10.00	\$1,022.50	\$10.23	
Whey Powder				
Herring Meal				
Plasma				
Limestone	12.00	\$121.00	\$1.45	
Dical (16% Ca-21% P)	5.00	\$723.00	\$3.62	
Salt - 96%	3.50	\$178.00	\$0.62	
Phytase	0.50	\$12,941.00	\$6.47	
L-Lysine HCL	1.00	\$2,014.00	\$2.01	
L-Threonine				
DL-Methionine				
Oats - Steam Rolled				
<b>Total</b>	<b>1,000.00 kg</b>		<b>\$307.79</b>	
Adjusted For Weight Loss		1.25 %	\$311.64	
Plus Processing Cost		\$5.00	\$316.64	
Plus Labour Cost		\$7.00	<b>\$323.64</b>	
<b>Grower 2</b>				
Wheat	200.00	\$216.00	\$43.20	
Barley	597.00	\$197.00	\$117.61	
Corn				
Soybean Meal - 47 %	75.00	\$525.00	\$39.38	
Canola Meal - 34 %	100.00	\$350.00	\$35.00	
Peas				
Grower Micro Premix	3.00	\$6,850.00	\$20.55	
Canola Oil	8.00	\$1,022.50	\$8.18	
Whey Powder				
Herring Meal				
Plasma				
Limestone	10.00	\$121.00	\$1.21	
Dical (16% Ca-21% P)	2.00	\$723.00	\$1.45	
Salt - 96%	3.50	\$178.00	\$0.62	
Phytase	0.50	\$12,941.00	\$6.47	
L-Lysine HCL	1.00	\$2,014.00	\$2.01	
L-Threonine				
DL-Methionine				
Oats - Steam Rolled				
<b>Total</b>	<b>1,000.00 kg</b>		<b>\$275.68</b>	
Adjusted For Weight Loss		1.25 %	\$279.13	
Plus Processing Cost		\$5.00	\$284.13	
Plus Labour Cost		\$7.00	<b>\$291.13</b>	

**Finisher Ration:**

Wheat				_____
Barley	834.00	\$197.00	\$164.30	_____
Corn				_____
Soybean Meal - 47 %				_____
Canola Meal - 34 %	80.00	\$350.00	\$28.00	_____
Peas	70.00	\$260.00	\$18.20	_____
Grower Micro Premix	3.00	\$6,850.00	\$20.55	_____
Canola Oil				_____
Whey Powder				_____
Herring Meal				_____
Plasma				_____
Limestone	8.00	\$121.00	\$0.97	_____
Dical (16% Ca-21% P)	1.00	\$723.00	\$0.72	_____
Salt - 96%	3.50	\$178.00	\$0.62	_____
Phytase	0.50	\$12,941.00	\$6.47	_____
L-Lysine HCL				_____
L-Threonine				_____
DL-Methionine				_____
Oats - Steam Rolled				_____
<b>Total</b>	<b>1,000.00 kg</b>		<b>\$239.83</b>	_____
Adjusted For Weight Loss		1.25 %	\$242.83	_____
Plus Processing Cost		\$5.00	<u>\$247.83</u>	_____
Plus Labour Cost		\$7.00	<b>\$254.83</b>	_____

## Swine Finishing Production Cost Worksheet

### A. Operating Costs

Your Cost

#### 1. Feed Requirements and Costs

##### 1.01 Grower 1 - Purchased Feed

	24.0	kg weight gain/pig	
x	2.0	feed conversion ratio	
=	46.8	kg ration/pig	
x	\$350.39	/tonne ration	
÷	1,000	kg/tonne	
x	12,000	weanlings purchased	
÷	<u>11,376</u>	<u>pigs sold</u>	
=	<b>\$17.30</b>	<b>/pig sold</b>	

##### 1.02 Grower 2 - Purchased Feed

	50.0	kg weight gain/pig	
x	3.0	feed conversion ratio	
=	150.0	kg ration/pig	
x	\$320.97	/tonne ration	
÷	1,000	kg/tonne	
x	12,000	weanlings purchased	
÷	<u>11,376</u>	<u>pigs sold</u>	
=	<b>\$50.78</b>	<b>/pig sold</b>	

##### 1.03 Finisher Ration - Purchased Feed

	21.0	kg weight gain/pig	
x	3.5	feed conversion ratio	
=	73.5	kg ration/pig	
x	\$334.25	/tonne ration	
÷	1,000	kg/tonne	
x	12,000	weanlings purchased	
÷	<u>11,376</u>	<u>pigs sold</u>	
=	<b>\$25.91</b>	<b>/pig sold</b>	

##### 1.04 Grower 1 - Home Mixed Feed

	24.0	kg weight gain/pig	
x	2.0	feed conversion ratio	
=	46.8	kg ration/pig	
x	\$323.64	/tonne ration	
÷	1,000	kg/tonne	
x	12,000	weanlings purchased	
÷	<u>11,376</u>	<u>pigs sold</u>	
=	<b>\$15.98</b>	<b>/pig sold</b>	

##### 1.05 Grower 2 - Home Mixed Feed

	50.0	kg weight gain/pig	
x	3.0	feed conversion ratio	
=	150.0	kg ration/pig	
x	\$291.13	/tonne ration	
÷	1,000	kg/tonne	

x	12,000	weanlings purchased	_____
÷	<u>11,376</u>	<u>pigs sold</u>	_____
=	<b>\$46.06</b>	<b>/pig sold</b>	_____

**1.06 Finisher Ration - Home Mixed Feed**

	21.0	kg weight gain/pig	_____
x	3.5	feed conversion ratio	_____
=	73.5	kg ration/pig	_____
x	\$254.83	/tonne ration	_____
÷	1,000	kg/tonne	_____
x	12,000	weanlings purchased	_____
÷	<u>11,376</u>	<u>pigs sold</u>	_____
=	<b>\$19.76</b>	<b>/pig sold</b>	_____

**2. Other Operating Costs**

**2.01 Weanling Cost**

	\$70.00	market price	_____
÷	100	lbs/cwt	_____
x	57	lbs	_____
x	1.7	formula factor	_____
x	12,000	weanlings purchased	_____
÷	<u>11,376</u>	<u>pigs sold</u>	_____
=	<b>\$71.92</b>	<b>/pig sold</b>	_____

**2.02 Veterinary Cost**

	\$600.00	professional services	_____
+	\$16,000.00	medication	_____
÷	<u>11,376</u>	<u>pigs sold</u>	_____
=	<b>\$1.46</b>	<b>/pig sold</b>	_____

**2.03 Maintenance & Repairs**

	1.10	% of total capital investment	_____
x	\$1,636,370	total buildings and equipment cost	_____
÷	<u>11,376</u>	<u>pigs sold</u>	_____
=	<b>\$1.58</b>	<b>/pig sold</b>	_____

**2.04 Utilities**

	\$17,054	hydro	_____
+	\$15,600	propane	_____
÷	<u>11,376</u>	<u>pigs sold</u>	_____
=	<b>\$2.87</b>	<b>/pig sold</b>	_____

**2.05 Insurance**

	\$1,636,370	buildings & equipment	_____
x	\$0.78	/\$100	_____
÷	100	/\$100 capital	_____
÷	<u>11,376</u>	<u>pigs sold</u>	_____
=	\$1.12	/pig sold	_____
	3,986	average number pigs in barn	_____
x	\$140.00	average value	_____
x	\$0.88	/\$100	_____
÷	100	/\$100 capital	_____



÷	<u>11,376</u>	<u>pigs sold</u>	_____
=	\$0.43	/pig sold	_____
	\$40.00	insured value	_____
x	3,986	average number in barn	_____
x	\$0.78	rate /\$100	_____
÷	<u>11,376</u>	<u>pigs sold</u>	_____
=	\$0.11	/pig sold	_____
<b>=</b>	<b>\$1.66</b>	<b>/pig sold</b>	_____

**2.06 Manure Costs**

Haulage	7.1	litres/pig/day	_____
x	365	days/year	_____
x	3,986	average inventory of pigs	_____
x	\$0.002	/litre	_____
÷	<u>11,376</u>	<u>pigs sold</u>	_____
=	\$2.00	/pig sold	_____

Estimated Nutrient Value

	7.1	litres/pig/day	_____
x	365	days/year	_____
x	3,986	average inventory of pigs	_____
±	<u>1,000</u>		_____
=	10,331	# of 1000 litres of manure	_____

Nitrogen

	3.50	kg per 1000 litres	_____
x	10,331	# of 1000 litres of manure	_____
x	60	% nutrient value recovery	_____
÷	2.2046	lbs per kg	_____
x	\$0.43	fertilizer value per lb.	_____
±	<u>11,376</u>	<u>pigs sold</u>	_____
=	\$0.38	estimated nutrient value / pig sold	_____

Phosphate

	0.74	kg per 1000 litres	_____
x	10,331	# of 1000 litres of manure	_____
x	0	% nutrient value recovery	_____
÷	2.2046	lbs per kg	_____
x	\$0.46	fertilizer value per lb.	_____
±	<u>11,376</u>	<u>pigs sold</u>	_____
=	\$0.00	estimated nutrient value / pig sold	_____

Potassium

	1.41	kg per 1000 litres	_____
x	10,331	# of 1000 litres of manure	_____
x	0	% nutrient value recovery	_____
÷	2.2046	lbs per kg	_____
x	\$0.31	fertilizer value per lb.	_____
±	<u>11,376</u>	<u>pigs sold</u>	_____
=	\$0.00	estimated nutrient value / pig sold	_____

Odour control & Mgmt Fees

	\$3,000	total cost	_____
	<u>11,376</u>	<u>pigs sold</u>	_____

	\$0.26	/pig sold	_____
<b>Total</b>	<b>\$1.89</b>	<b>/pig sold</b>	_____
<b>2.07 Office Supplies</b>			
	\$0.30	/pig place	_____
x	3,986	pig places	_____
÷	<u>11,376</u>	<u>pigs sold</u>	_____
=	<b>\$0.11</b>	<b>/pig sold</b>	_____
<b>2.08 Marketing &amp; Transportation</b>			
	\$3.50	trucking in	_____
+	\$4.00	trucking out	_____
+	\$0.80	council levy	_____
+	\$0.06	grading charge	_____
+	\$0.25	insurance	_____
±	<u>\$0.00</u>	<u>Special levy</u>	_____
=	<b>\$8.61</b>	<b>/pig sold</b>	_____
<b>2.09 Property Taxes</b>			
	\$7,350	taxes on barn and land	_____
÷	<u>11,376</u>	<u>pigs sold</u>	_____
=	\$0.65	/pig sold	_____
	\$4.35	taxes on land	_____
x	0	acres	_____
÷	<u>11,376</u>	<u>pigs sold</u>	_____
=	\$0.00	/pig sold	_____
<b>Total</b>	<b>\$0.65</b>	<b>/pig sold</b>	_____
<b>2.10 Interest on Operating Cost - Purchased Feed</b>			
	\$71.92	weaner cost	_____
x	123	total days to market	_____
x	5.8	% operating rate	_____
÷	<u>365</u>	<u>days/year</u>	_____
=	\$1.39	/pig sold	_____
	\$184.73	subtotal operating cost	_____
-	\$71.92	weaner cost	_____
÷	2	average	_____
x	123	total days to market	_____
÷	365	days/year	_____
x	<u>5.8</u>	<u>% operating rate</u>	_____
=	\$1.09	/pig sold	_____
<b>=</b>	<b>\$2.49</b>	<b>/pig sold</b>	_____
<b>Interest on Operating Cost - Home Mixed Feed</b>			
	\$71.92	weaner cost	_____
x	123	total days to market	_____
x	5.8	% operating rate	_____
÷	<u>365</u>	<u>days/year</u>	_____
=	\$1.39	/pig sold	_____

	\$172.54	subtotal operating cost	_____
-	\$71.92	weaner cost	_____
÷	2	average	_____
x	123	total days to market	_____
÷	365	days/year	_____
x	<u>5.8</u>	<u>% operating rate</u>	_____
=	\$0.97	/pig sold	_____
=	<b>\$2.37</b>	<b>/pig sold</b>	_____

**B. Fixed Costs**

**3. Depreciation**

**Original cost - Salvage Value**  
**Useful Life**

**3.01 Buildings - not including feedmill**

	\$1,154,370	total building cost (including earthen manure storage)	_____
-	\$105,437	salvage value (building only)	_____
÷	25	years useful life	_____
÷	<u>11,376</u>	<u>pigs sold</u>	_____
=	<b>3.69</b>	<b>/pig sold</b>	_____

**3.02 Equipment - not including feedmill**

	\$507,000	total equipment cost	_____
-	\$50,700	salvage value	_____
÷	10	years useful life	_____
÷	<u>11,376</u>	<u>pigs sold</u>	_____
=	<b>3.91</b>	<b>/pig sold</b>	_____

**3.03 Buildings - including feedmill**

	\$1,179,370	total building cost (including earthen manure storage)	_____
-	\$107,937	salvage value (building only)	_____
÷	25	years useful life	_____
÷	<u>11,376</u>	<u>pigs sold</u>	_____
=	<b>3.77</b>	<b>/pig sold</b>	_____

**3.04 Equipment - including feedmill**

	\$557,000	total equipment cost	_____
-	\$55,700	salvage value	_____
÷	10	years useful life	_____
÷	<u>11,376</u>	<u>pigs sold</u>	_____
=	<b>4.34</b>	<b>/pig sold</b>	_____

**4. Investment Cost**

**(Original Cost + Salvage Value) X Investment Rate**  
**2**

**4.01 Land for Barn Site**

	\$60,000	land investment	_____
+	\$30,000	site preparation	_____

	x	2.8	% investment rate	_____
	÷	<u>11,376</u>	<u>pigs sold</u>	_____
	=	0.22	/pig sold	_____
	<b>Land for manure application</b>			
		\$0	land investment	_____
	x	2.8	% investment rate	_____
	÷	<u>11,376</u>	<u>pigs sold</u>	_____
	=	0.00	/pig sold	_____
<b>Total</b>		<b>\$0.22</b>	<b>/pig sold</b>	_____

**4.02 Buildings - not including feedmill**

		\$1,154,370	total building cost (including earthen manure storage)	_____
	+	\$105,437	salvage value (building only)	_____
	÷	2	average	_____
	x	2.8	% investment rate	_____
	÷	<u>11,376</u>	<u>pigs sold</u>	_____
	=	<b>1.52</b>	<b>/pig sold</b>	_____

**4.03 Equipment - not including feedmill**

		\$507,000	total equipment cost	_____
	+	\$50,700	salvage value	_____
	÷	2	average	_____
	x	2.8	% investment rate	_____
	÷	<u>11,376</u>	<u>pigs sold</u>	_____
	=	<b>0.67</b>	<b>/pig sold</b>	_____

**4.04 Buildings - including feedmill**

		\$1,179,370	total building cost (including earthen manure storage)	_____
	+	\$107,937	salvage value (building only)	_____
	÷	2	average	_____
	x	2.8	% investment rate	_____
	÷	<u>11,376</u>	<u>pigs sold</u>	_____
	=	<b>1.56</b>	<b>/pig sold</b>	_____

**4.05 Equipment - including feedmill**

		\$557,000	total equipment cost	_____
	+	\$55,700	salvage value	_____
	÷	2	average	_____
	x	2.8	% investment rate	_____
	÷	<u>11,376</u>	<u>pigs sold</u>	_____
	=	<b>0.74</b>	<b>/pig sold</b>	_____

**5. Labour Cost**

		2496	total hours/year	_____
	x	\$22.00	/hour	_____
	÷	<u>11,376</u>	<u>pigs sold</u>	_____
	=	<b>4.83</b>	<b>/pig sold</b>	_____

### Summary of Purchased Feeds Used

11,661 Pigs available for marketing (includes lightweights)

	Total per Pig Mkt (kgs)	Total per Year (tonnes)	Total per Month (tonnes)	Total per Pig Mkt (lbs)
Grower 1	46.80	545.73	45.48	103.18
Grower 2	150.00	1,749.15	145.76	330.69
Finisher Ration	<u>73.50</u>	<u>857.08</u>	<u>71.42</u>	<u>162.04</u>
<b>Total</b>	<b>270.30</b>	<b>3,151.97</b>	<b>262.66</b>	<b>595.90</b>

### Summary of Home-Mixed Feed Ingredients Used

	Total per Pig (kgs)	Total per Year (tonnes)	Total per Month (tonnes)	Total per Pig (lbs)
Wheat	52.23	609.05	50.75	115.15
Barley	160.91	1,876.38	156.37	354.74
Corn	0.00	0.00	0.00	0.00
Soybean Meal - 47 %	19.44	226.69	18.89	42.86
Canola Meal - 34 %	20.88	243.48	20.29	46.03
Peas	9.83	114.57	9.55	21.66
Grower Micro Premix	0.81	9.46	0.79	1.79
Canola Oil	1.67	19.45	1.62	3.68
Whey Powder	0.00	0.00	0.00	0.00
Herring Meal	0.00	0.00	0.00	0.00
Plasma	0.00	0.00	0.00	0.00
Limestone	2.65	30.90	2.57	5.84
Dical (16% Ca-21% P)	0.61	7.08	0.59	1.34
Salt - 96%	0.95	11.03	0.92	2.09
Phytase	0.14	1.58	0.13	0.30
L-Lysine HCL	0.20	2.29	0.19	0.43
L-Threonine	0.00	0.00	0.00	0.00
DL-Methionine	0.00	0.00	0.00	0.00
Oats - Steam Rolled	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
<b>Total</b>	<b>270.30</b>	<b>3,151.97</b>	<b>262.66</b>	<b>595.90</b>

Created and maintained by [Manitoba Agriculture Farm Management](#) September, 2018

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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**

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