



# Guidelines for Estimating Beef Replacement Heifer Costs 2017

in Manitoba





## Guidelines For Estimating Beef Replacement Heifer Costs

For Weight Range of 550 - 1200 lbs  
Based on 30 Head

Date: September, 2017

This guide is designed to provide you with planning information and a format for calculating costs of production of a replacement heifer enterprise in Manitoba. 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.

Replacement heifers generally refers to the feeding of heifer calves from weaning until they are put onto pasture for breeding. An example of a typical replacement heifer operation would be, feed 550 pound heifers to gain 1.25 to 1.75 pounds per day for approximately 200 to 250 days and put on pasture for 120 to 140 days to gain 1.25 to 1.75 pounds per day to produce a 1200 pound bred replacement heifer.

These budgets may be adjusted by putting in your own figures. As a producer you are encouraged to calculate your own costs of production. Good management is assumed in that a balanced ration is being fed, livestock are on a herd health program and handling facilities are included.

This tool is available as an Excel worksheet at: [www.manitoba.ca/agriculture](http://www.manitoba.ca/agriculture)  
or at your local [Manitoba Agriculture office](#).

[The Farm Machinery Custom and Rental Rate](#) 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.

**Replacement Heifer Production Cost Summary September, 2017**  
**Based on 30 heifers for weight range 550 to 1200 lbs.**

<b>A. Operating Costs</b>	<b>Cost/Head</b>	<b>Total Cost</b>	<b>Your Cost</b>
<b>1. Feed Costs</b>			
1.01 Ground Barley	\$113.75	\$3,413	_____
1.02 Hay	\$162.18	\$4,865	_____
1.03 Supplement	\$50.40	\$1,512	_____
1.04 Other Feed	\$0.00	\$0	_____
<b>Total Feed Costs</b>	<b>\$326.33</b>	<b>\$9,790</b>	_____
<b>2. Other Operating Costs</b>			
2.01 Heifer Cost	\$951.10	\$28,533	_____
2.02 Breeding Cost	\$35.18	\$1,055	_____
2.03 Straw	\$13.44	\$403	_____
2.04 Veterinary Medicine & Supplies	\$16.65	\$500	_____
2.05 Annual Fuel & Repair Costs	\$7.00	\$210	_____
2.06 Utilities	\$3.74	\$112	_____
2.07 Replacement Heifer Selling Cost	\$40.40	\$1,212	_____
2.08 Insurance	\$10.43	\$313	_____
2.09 Manure Removal	\$8.33	\$250	_____
2.10 Pasture Costs	\$149.47	\$4,484	_____
2.11 Barn & Office Supplies	\$1.20	\$36	_____
2.12 Death Loss	\$13.80	\$414	_____
Subtotal Operating Costs	\$1,577.07	\$47,312	_____
2.13 Operating Interest	\$63.03	\$1,891	_____
<b>Total Operating Costs</b>	<b>\$1,640.10</b>	<b>\$49,203</b>	_____
<b>B. Fixed Costs</b>			
<b>3. Depreciation</b>			
3.01 Buildings	\$16.28	\$488	_____
3.02 Machinery & Equipment	\$52.53	\$1,576	_____
<b>4. Investment</b>			
4.01 Buildings	\$5.47	\$164	_____
4.02 Machinery & Equipment	\$10.84	\$325	_____
4.03 Pasture Land	\$0.00	\$0	_____
<b>Total Fixed Costs</b>	<b>\$85.12</b>	<b>\$2,554</b>	_____
<b>Total Operating and Fixed Costs</b>	<b>\$1,725.22</b>	<b>\$51,757</b>	_____
<b>C. Labour</b>	<b>\$43.33</b>	<b>\$1,300</b>	_____
<b>Total Cost of Production</b>	<b>\$1,768.55</b>	<b>\$53,057</b>	_____

**Profitability and Breakeven Analysis**

<b>Estimated Farmgate Gross Revenue</b>	<b>Total</b>
26 Bred Heifers @ \$1850/hd market price	<b>\$48,100</b>
4 Cull Heifers @ \$1380/hd (\$115/cwt) market price	<b>\$5,520</b>
	<b>\$53,620</b>

	<b>Breakeven Heifer Calf Purchase Price (\$/cwt) @ \$1850/hd market price</b>	<b>Breakeven Bred Heifer Selling Price (\$/hd) @ \$170/cwt heifer price</b>	
<b>Breakeven Price</b>			
Operating Costs	\$199.70	\$1,680.12	_____
Operating Costs & Labour	\$191.82	\$1,730.11	_____
Operating & Fixed Costs	\$184.22	\$1,778.33	_____
<b>Total Costs</b>	<b>\$176.34</b>	<b>\$1,828.33</b>	_____
<b>Marginal Returns</b>	<b>Per Bred Heifer</b>	<b>Per Cull Heifer</b>	<b>Total Return</b>
Over Operating Costs	\$209.90	(\$260.10)	\$4,417.00
Over Operating Costs & Labour	\$166.57	(\$303.43)	\$3,117.10
Over Operating & Fixed Costs	\$124.78	(\$345.22)	\$1,863.40
<b>Over Total Costs</b>	<b>\$81.45</b>	<b>(\$388.55)</b>	<b>\$563.50</b>

**Cost Summary**

	<b>Cost/Heifer/day</b>
Summer grazing (based on 140 days)	\$1.07
Winter feed (based on 224 days)	\$1.46
Yardage (based on 224 days)	\$0.72

**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. No liability for decisions based on this publication is assumed.

## Replacement Heifer Production Costs

### Assumptions

1. This budget outlines the cost of production for a replacement heifer enterprise.
2. Buildings and equipment are valued at new cost.
3. All feed is purchased.

### Herd Profile

Number of Replacement Heifers Purchased	<b>30</b>	head
Number of Bulls	<b>1</b>	bulls
Heifer Mortality Rate	<b>1.00</b>	%
Heifer Purchased Weight	<b>550</b>	lbs
Heifer Calf Price	<b>\$170</b>	/cwt
Days on Feed (feedlot)	<b>224</b>	days
Average Daily Gain (feedlot)	<b>2.00</b>	lbs/day
Replacement Heifer Ending Feedlot Weight	<b>998</b>	lbs
On Pasture Weight	<b>1,000</b>	lbs
Days on Pasture	<b>140</b>	days
Average Daily Gain (pasture)	<b>1.43</b>	lbs/day
Off Pasture Weight	<b>1,200</b>	lbs
Estimated Culling rate Bred Replacement Heifers	<b>12.00</b>	%
Calculated culling rate Bred Replacement Heifers	<b>13.33</b>	% (due to rounding)
Number Bred Heifers Marketed	<b>26</b>	
Number Cull Heifers marketed	<b>4</b>	
Bred Replacement Heifer market value	<b>\$1,850</b>	/head
Cull heifer market price	<b>\$115</b>	/cwt
Cull heifer market value	<b>\$1,380</b>	/head

### Herd Replacement (Bulls)

Bull Replacement Rate	<b>25.0</b>	%
Original Cost	<b>\$3,500.00</b>	/bull
Price Received/Cull Bull	<b>\$2,100.00</b>	/bull

### Pasture Costs

		<u>Usage</u>
Rented Pasture Costs (per head per day)	<b>\$1.02</b>	<b>100</b> %
Owned Pasture Land Value (per acre)	<b>\$1,250.00</b>	<b>0</b> %
Owned Pasture Carrying Capacity (acres/head)	<b>2.50</b>	<b>100</b>
Owned Pasture Property Taxes (per acre)	<b>\$7.50</b>	
Pasture checking costs (ie. fuel)	<b>\$200.00</b>	

### Feed Costs

	<u>Market Price</u>	<u>Replacement Heifer Requirement</u>	<u>Days on Feed</u>
Ground Barley	<b>\$3.75</b> /bu	<b>6.50</b> lbs/day	224
Hay	<b>\$80.00</b> /ton	<b>18.10</b> lbs/day	224
Mineral/Rumensin Pre Mix	<b>\$450.00</b> /ton	<b>1.00</b> lbs/day	224
Other Feed #1	<b>\$0.00</b> /ton	<b>0.00</b> lbs/day	<b>0</b>

Other Feed #2	<b>\$0.00</b> /ton	<b>0.00</b> lbs/day	<b>0</b>
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FOOTNOTE: 1 bushel (bu) barley = 48 lbs = 21.8 kg  
 1 kilogram (kg) = 2.2046 pounds (lbs)  
 1 tonne (t) = 1,000 kg

### Other Operating Costs

#### Heifer Purchase Costs

Buying Commission	<b>\$5.00</b> /head
Trucking-in	<b>\$1.70</b> /cwt
Insurance fee	<b>\$1.75</b> /head

#### Straw Bedding

Heifers number of lbs/day	<b>4.00</b> /head
Bulls - number of tons/Bull/Year	<b>1.0</b>
Cost/Ton	<b>\$30.00</b> /ton

#### Veterinary Medicine & Supplies

##### Cattle Medication

IBR,BVD,PI3,BRSV, Pasteurella	<b>\$4.90</b> /head
Vitamin A-D	<b>\$0.50</b> /head
External & Internal Parasites	<b>\$0.72</b> /head
Blackleg & Haemophilus	<b>\$1.26</b> /head
Antibiotics	<b>\$0.00</b> /head

#### Herd Health Program

##### Professional Services

Total Yearly Hours	<b>1.00</b> hours
Rate	<b>\$150.00</b> /hour

##### Transportation

Total Kilometres (round trip)	<b>80.0</b> km
Rate	<b>\$0.80</b> /km
Number of Yearly Visits	<b>2</b>

#### Annual Fuel & Repair Costs

Repairs (Machinery, Equipment & Facilities)	<b>\$100.00</b>
Fuel Costs	<b>\$110.00</b>

#### Utilities

Hydro - Rate	<b>\$0.0820</b> / kWh
<b>12</b> kWh per heifer	<b>\$29.52</b>
<b>0.25</b> 1000 watt waterer	<b>\$82.66</b>
Total Hydro	<b>\$112.18</b>

#### Trucking Cost

Average Weight	1,200 /lbs per head
Trucking Cost	<b>\$1.70</b> /cwt

#### Marketing Cost

MBP Levy	<b>\$4.00</b> /head
Commission on Sales	<b>\$16.00</b> /head
Market Value	<b>\$154.17</b> /cwt

**Manure Removal**

Annual Cost for Removal **\$250.00**

**Insurance**

Cost per \$100 Capital Invested in  
 a) Livestock **\$0.45** /\$100  
 b) Building & Equipment **\$0.40** /\$100  
 Additional Coverage for Liability **\$49.00** /year

**Barn & Office Supplies**

Total yearly expense relating to barn **\$36.00**

Operating Interest Rate **5.00** %  
 Investment Interest Rate **2.75** %

**Feed Requirement Per Bull**

Barley **7.00** lbs/day  
 Days/Year on Barley **120** days  
 Hay (Good Quality) **4.00** tons/yr

**Breeding Costs**

Health Management Costs **\$10.00** /bull  
 Semen Test **\$60.00** /bull

FOOTNOTE: cwt = hundred-weight = 100 lbs

**Capital Costs**

	<u>Original Value</u>	<u>Salvage Value</u>	<u>Useful Life</u>
<b>Buildings, Corrals &amp; Water System</b>			
Windbreak fence	<b>\$800</b>	<b>10</b> %	<b>20</b> years
Pens	<b>\$800</b>	<b>10</b> %	<b>20</b> years
Handling Facilities	<b>\$2,000</b>	<b>10</b> %	<b>20</b> years
Waterers	<b>\$1,200</b>	<b>10</b> %	<b>20</b> years
Gates	<b>\$300</b>	<b>10</b> %	<b>20</b> years
Feeders	<b>\$500</b>	<b>10</b> %	<b>20</b> years
Bunk Feeders	<b>\$1,250</b>	<b>10</b> %	<b>20</b> years
Well & Pressure System	<b>\$2,000</b>	<b>10</b> %	<b>20</b> years
Grain Bin	<b>\$1,000</b>	<b>10</b> %	<b>20</b> years
Landscaping	<b>\$1,000</b>	<b>10</b> %	<b>20</b> years
<b>Total</b>	<b>\$10,850</b>		
<b>Machinery &amp; Equipment</b>			
Tractors & Loader (\$180,000 @ 4.0%)	<b>\$7,200</b>	<b>20</b> %	<b>10</b> years
Miscellaneous	<b>\$12,500</b>	<b>20</b> %	<b>10</b> years
<b>Total Investment</b>	<b>\$30,550</b>		

**Labour Costs**

	<u>Total</u>
Feedlot Labour - Hours/heifer	<b>1.00</b> hours
Pasture Labour - Hours/day	<b>0.25</b> hours
Labour Rate	<b>\$20.00</b> /hour

## Replacement Heifer Production Cost Worksheet

### Assumptions

1. Feedlot average daily gain (ADG) was assumed to be 2 lbs/day.  
Pasture average daily gain (ADG) was assumed to be 1.43 lbs/day.
2. It was assumed the heifer calves weighed in at 550 lbs shrunk weight, and was raised to 998 lbs (feedlot) and 1200 lbs (pasture).
3. Days on feed was 224 and days on pasture was 140.
4. Investment in facilities and equipment was assumed to handle 30 head.

### A. Operating Costs

### Your Cost

#### 1. Feed Costs

##### 1.01 Ground Barley

	224.00	days on ground barley	
x	6.50	lbs/heifer/day	
÷	48.00	lbs/bu	
<u>x</u>	<u>\$3.75</u>	<u>/bu</u>	
=	<b>\$113.75</b>	<b>/heifer</b>	

##### 1.02 Hay

	224.00	days on hay	
x	18.10	lbs/heifer/day	
÷	2000.00	lbs/ton	
<u>x</u>	<u>\$80.00</u>	<u>/ton</u>	
=	<b>\$162.18</b>	<b>/heifer</b>	

##### 1.03 Supplement (Salt, Minerals, Vitamins, Ionophore)

	224.00	days on supplement	
x	1.00	lbs/heifer/day	
÷	2000.00	lbs/ton	
<u>x</u>	<u>\$450.00</u>	<u>/ton</u>	
=	<b>\$50.40</b>	<b>/heifer</b>	

##### 1.04 Other Feed

	0.00	days on other feed	
x	0.00	lbs/heifer/day	
÷	2000.00	lbs/ton	
<u>x</u>	<u>\$0.00</u>	<u>/ton</u>	
=	\$0.00	/heifer	

	0.00	days on other feed	
x	0.00	lbs/heifer/day	
÷	2000.00	lbs/ton	
<u>x</u>	<u>\$0.00</u>	<u>/ton</u>	
=	\$0.00	/heifer	

**Total = \$0.00 /heifer**

#### 2. Other Operating Costs

##### 2.01 Heifer Cost

Commission	\$5.00	/heifer	
Insurance	\$1.75	/heifer	

Trucking-in	\$1.70	/cwt	
x	550	/heifer	
÷	100	lbs/cwt	
=	\$9.35	/heifer	



Heifer	550	lbs/heifer	_____
x	\$170.00	/cwt	_____
÷	100	<u>lbs/cwt</u>	_____
=	\$935.00	/heifer	_____
<b>Total =</b>	<b>\$951.10</b>	<b>/heifer</b>	_____

**2.02 Breeding Costs**

Feed for Bulls

Hay

	4.00	tons good quality	_____
x	\$80.00	/ton	_____
x	1.00	bulls	_____
÷	<u>30.00</u>	<u>replacement heifers</u>	_____
=	\$10.67	/heifer	_____

Barley

	7.00	lbs barley/bull/day	_____
x	120.00	days	_____
÷	48.00	lbs/bu	_____
x	\$3.75	/bushel	_____
x	1.00	bulls	_____
÷	<u>30.00</u>	<u>replacement heifers</u>	_____
=	\$2.19	/heifer	_____

Total =	\$12.86	/heifer	_____
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Straw for Bulls

	1.00	tons/bull/year	_____
x	\$30.00	/ton	_____
x	1.00	bulls	_____
÷	<u>30.00</u>	<u>replacement heifers</u>	_____
=	\$1.00	/heifer	_____

Vet & Medicine for Bulls

	\$60.00	semen test	_____
+	\$10.00	total vet cost/bull	_____
x	1.00	bulls	_____
÷	<u>30.00</u>	<u>replacement heifers</u>	_____
=	\$2.33	/heifer	_____

Replacement of Bulls

	\$3,500	bull cost	_____
-	\$2,100	bull salvage value	_____
x	25.00	% replacement rate	_____
x	1.00	bulls	_____
÷	<u>30.00</u>	<u>replacement heifers</u>	_____
=	\$11.67	/heifer	_____

Investment in Bulls

	\$3,500	bull cost	_____
+	\$2,100	bull salvage value	_____
÷	2.00	average	_____
x	2.75	% investment rate	_____
x	1.00	bulls	_____
÷	<u>30.00</u>	<u>replacement heifers</u>	_____
=	\$2.57	/heifer	_____

Pasture Costs for Bulls

		\$142.80	/bull pasture cost	_____
x		1.00	bulls	_____
÷		<u>30.00</u>	<u>replacement heifers</u>	_____
=		\$4.76	/heifer	_____
<b>Total</b>	<b>=</b>	<b>\$35.18</b>	<b>/heifer</b>	_____

**2.03 Straw**

Heifers		4.00	lbs/heifer/day	_____
x		224.00	days on feed	_____
x		<u>\$30.00</u>	<u>/ton</u>	_____
=		\$13.44	/heifer	_____

**2.04 Veterinary Medicine & Supplies**

Cattle Medication

		\$4.90	IBR,BVD,PI3,BRSV,Pasteurella	_____
+		\$0.50	Vitamin A-D	_____
+		\$0.72	External & Internal Parasites	_____
+		\$1.26	Blackleg & Haemophilus	_____
±		<u>\$0.00</u>	<u>Antibiotics</u>	_____
=		\$7.38	/heifer	_____

Herd Health Program

Professional Services

		\$150.00	/hour charge	_____
x		1.00	hours	_____
÷		<u>30.00</u>	<u>replacement heifers</u>	_____
=		\$5.00	/heifer	_____

Transportation Costs

		\$0.80	/km charge	_____
x		80	kilometres	_____
x		2	visits	_____
÷		<u>30</u>	<u>replacement heifers</u>	_____
=		\$4.27	/heifer	_____

<b>Total</b>	<b>=</b>	<b>\$16.65</b>	<b>/heifer</b>	_____
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**2.05 Annual Fuel & Repair Costs**

		\$100.00	repairs	_____
+		\$110.00	fuel costs	_____
÷		<u>30</u>	<u>replacement heifers</u>	_____
=		<b>\$7.00</b>	<b>/heifer</b>	_____

**2.06 Utilities**

		\$112.18	cost/year	_____
÷		<u>30</u>	<u>replacement heifers</u>	_____
=		<b>\$3.74</b>	<b>/heifer</b>	_____

**2.07 Heifer Selling Cost**

Trucking

		1,200	lbs/heifer	_____
÷		100	lbs/cwt	_____
x		<u>\$1.70</u>	<u>trucking cost/cwt</u>	_____
=		\$20.40	/heifer	_____

MBP levy, selling commission

+	\$4.00	MBP Levy	_____
<u>±</u>	<u>\$16.00</u>	<u>commission</u>	_____
=	\$20.00	/heifer	_____
<b>Total =</b>	<b>\$40.40</b>	<b>/heifer</b>	_____

**2.08 Insurance**

	\$30,550	building & equipment investment	_____
x	\$0.40	/\$100 capital	_____
÷	100	/\$100	_____
<u>±</u>	<u>30</u>	<u>replacement heifers</u>	_____
=	\$4.07	/heifer	_____
	\$31,550	herd investment	_____
x	\$0.45	/\$100 capital	_____
÷	100	/\$100	_____
<u>±</u>	<u>30</u>	<u>replacement heifers</u>	_____
=	\$4.73	/heifer	_____
	\$49.00	additional coverage for liability	_____
<u>±</u>	<u>30</u>	<u>replacement heifers</u>	_____
=	\$1.63	/heifer	_____
<b>Total =</b>	<b>\$10.43</b>	<b>/heifer</b>	_____

**2.09 Manure Removal**

	\$250	annual removal cost	_____
<u>±</u>	<u>30</u>	<u>replacement heifers</u>	_____
=	<b>\$8.33</b>	<b>/heifer</b>	_____

**2.10 Pasture Costs**

Pasture Rental	\$1.02	cost/head/day rental	_____
÷	140	days on pasture	_____
<u>x</u>	<u>100</u>	<u>pasture usage</u>	_____
=	\$142.80	/heifer	_____
Pasture Checking	\$200.00	cost per year	_____
<u>±</u>	<u>30</u>	<u>replacement heifers</u>	_____
=	\$6.67	/heifer	_____
<b>Total =</b>	<b>\$149.47</b>	<b>/heifer</b>	_____

**2.11 Barn & Office Supplies**

	\$36.00	total barn expenses	_____
<u>±</u>	<u>30</u>	<u>replacement heifers</u>	_____
=	<b>\$1.20</b>	<b>/heifer</b>	_____

**2.12 Death Loss**

	\$951.10	heifer cost	_____
+	\$1,850.00	maximum value	_____
-	\$40.40	selling costs	_____
÷	2.00	average	_____
<u>x</u>	<u>1.00</u>	<u>% mortality rate</u>	_____
=	<b>\$13.80</b>	<b>/heifer</b>	_____

**2.13 Operating Interest**

(Operating interest is charged on one half the subtotal operating costs)

\$951.10	heifer cost	_____
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+	\$312.98	½ of feed & other costs	_____
x	5.00	% operating interest	_____
x	364.00	days on feed & pasture	_____
±	<u>365.00</u>	<u>days /year</u>	_____
=	<b>\$63.03</b>	<b>/heifer</b>	_____

### Capital Costs

#### Buildings, Corrals & Water System

Windbreak fence	\$800	_____
Pens	\$800	_____
Handling Facilities	\$2,000	_____
Waterers	\$1,200	_____
Gates	\$300	_____
Feeders	\$500	_____
Bunk Feeders	\$1,250	_____
Well & Pressure System	\$2,000	_____
Grain Bin	\$1,000	_____
Landscaping	<u>\$1,000</u>	_____
<b>Total</b>	<b>\$10,850</b>	_____

#### Machinery & Equipment

Tractor & Loader	\$7,200	_____
Miscellaneous	<u>\$12,500</u>	_____
<b>Total</b>	<b>\$19,700</b>	_____

<b>Total Investment</b>	<b>\$30,550</b>	_____
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#### B. Fixed Costs

##### 3. Depreciation $\frac{\text{Original Cost} - \text{Salvage Value}}{\text{Useful Life}}$

###### 3.01 Buildings

	\$10,850	original cost	_____
-	\$1,085	salvage value	_____
÷	20.00	years useful life	_____
±	<u>30.00</u>	<u>replacement heifers</u>	_____
=	<b>\$16.28</b>	<b>/heifer</b>	_____

###### 3.02 Machinery & Equipment

	\$19,700	original cost	_____
-	\$3,940	salvage value	_____
÷	10.00	years useful life	_____
±	<u>30.00</u>	<u>replacement heifers</u>	_____
=	<b>\$52.53</b>	<b>/heifer</b>	_____

##### 4. Investment $\frac{\text{Original Cost} + \text{Salvage Value}}{2} \times \text{Investment Rate}$

###### 4.01 Buildings

	\$10,850	original cost	_____
+	\$1,085	salvage value	_____
÷	2.00	average	_____
x	2.75	% investment rate	_____
±	<u>30.00</u>	<u>replacement heifers</u>	_____
=	<b>\$5.47</b>	<b>/heifer</b>	_____

###### 4.02 Machinery & Equipment

		\$19,700	original cost	_____
+		\$3,940	salvage value	_____
÷		2.00	average	_____
x		2.75	% investment rate	_____
±		<u>30.00</u>	<u>replacement heifers</u>	_____
=		<b>\$10.84</b>	<b>/heifer</b>	_____
<b>4.03 Pasture</b>				
Land		2.50	acres/head	_____
x		\$1,250.00	/acre	_____
x		2.75	% investment rate	_____
x		<u>0</u>	<u>pasture usage</u>	_____
=		\$0.00	/heifer	_____
Taxes		2.50	acres/head	_____
x		\$7.50	/acre	_____
x		<u>0</u>	<u>pasture usage</u>	_____
=		\$0.00	/heifer	_____
<b>Total =</b>		<b>\$0.00</b>	<b>/heifer</b>	_____
<b>C. Labour</b>				
Feedlot		1.0	hours/heifer	_____
x		<u>\$20.00</u>	<u>/hour</u>	_____
=		\$20.00	/heifer	_____
Pasture		0.25	hours/day pasture	_____
x		140.0	days on pasture	_____
±		30.00	replacement heifers	_____
x		<u>\$20.00</u>	<u>/hour</u>	_____
=		\$23.33	/heifer	_____
<b>Total =</b>		<b>\$43.33</b>	<b>/heifer</b>	_____

**Profitability and Breakeven Analysis:**

Breakeven Bred Heifer Price (\$/hd) = (total cost - cull heifer revenue) / # bred heifers sold eg. (\$53,057 - \$5,520) / 26 = \$1,828.33  
 Breakeven Heifer Price (\$/cwt) = (((gross revenue / # heifers) - (total cost per head - heifer cost)) / (heifer purchase weight / 100))  
 eg. ((((\$53,620 / 30) - (\$1,768.55 - \$951.1)) / (550 / 100)) = \$176.34

**Cost Summary:**

Summer Grazing Cost Per Heifer Per Day = pasture cost ÷ days (eg. \$149.47 ÷ 140 = \$1.07)  
 Winter Feed Cost Per Heifer Per Day = feed cost ÷ days (eg. \$326.33 ÷ 224 = \$1.46)  
 Yardage Cost Per Heifer Per Day = (\$13.44 straw + \$7.00 fuel & repair + \$3.74 utilities + \$8.33 manure removal + \$16.28 building depreciation + \$52.53 machinery depreciation + \$5.47 building investment + \$10.84 machinery investment + \$43.33 labour) ÷ 224 days = \$0.72

Created and maintained by [Manitoba Agriculture Farm Management](#) **September, 2017**

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A decorative graphic at the top of the page consists of three colored rectangular blocks: a green square on the left, a dark blue rectangle in the center, and an orange rectangle on the right. From the bottom edge of the dark blue rectangle, several thin, dashed orange lines extend downwards and outwards, creating a fan-like pattern across the page.

**For more information**

- Contact your local Manitoba Agriculture Office.
- Visit us at [manitoba.ca/agriculture](http://manitoba.ca/agriculture).

