

Guidelines For Estimating  
**Cost of Raising Dairy Steers**  
For Weight Range of 100 - 530 lbs  
Based on marketing 100 head per year

**Date: February, 2002**

The following budget is an estimate of the cost of production for raising dairy steer calves. The purpose of this budget is to assist Manitoba livestock producers in calculating their own costs and take into consideration the factors that should be included when budgeting to determine breakeven prices.

Raising and feeding dairy steers is more management intensive in the early stages than raising beef steers. Beef steer calves typically remain on the cow for several months, nurse 6 to 8 times a day and consume high intakes of milk; whereas dairy steer calves are removed from the mother soon after birth and become totally reliant upon the producer to feed it milk or milk replacer 2-3 times a day. A major challenge facing producers is keeping death losses below 5.0% and getting calves off to a quick start. Depending on average daily gains achieved, dairy steers can reach weights of 520-530 lbs. in 240-250 days.

It is also highly recommended that all users of this budget should consult with their nutritionist and veterinarian to develop feeding and herd health programs tailored to their individual farms.

Combining this budget with a steer finishing budget can assist producers in determining the profitability of finishing calves to market weights of 1200-1300 lbs. These budgets are available as Excel spreadsheets, and can be accessed on the Manitoba Agriculture and Food web site.

The assumptions on which costs are calculated are clearly defined in the supporting pages. When interpreting these costs for an individual situation, adjustments may be required. Note that on-farm feed costs are based on market prices at the farm. It is assumed that all feed is grown on the farm except supplements. Each assumption must be examined and adjustments made, where necessary, to apply to the producer's own situation.

**Disclaimer: Economics and animal performance will vary among farms due to environment, management, nutrition, health, sanitation and biosecurity differences. Therefore, Manitoba Agriculture and Food (MAF) is not responsible for individual farm results that may differ from those assumed in this budget.**

## Dairy Steer Calf Rearing Production Costs

### Assumptions

1. This budget outlines the cost of production for backgrounding cattle.
2. Buildings and equipment are valued at new cost.
3. All feed is purchased.

### Group Profile

Number of calves purchased	<b>100</b> head
Feeder calf mortality rate	<b>10.0</b> %
Feeder calf purchased weight	<b>100</b> lbs
Percent shrink on feeder calf	<b>5.0</b> %
Feeder calf purchase price (\$/cwt)	<b>\$200.00</b> /cwt
Weaned calf target weight	<b>130</b> lbs
Pre weaning mortality	<b>10.0</b> %
Average daily gain (pre weaning)	<b>0.76</b> lbs/day
Post weaning target weight	<b>530</b> lbs
Percent shrink post weaning target weight	<b>5.0</b> %
Post weaning mortality	<b>2.0</b> %
Feeder calf selling price	<b>\$150.00</b> /cwt
Average daily gain (post weaning)	<b>2.00</b> lbs/day
Days on feed pre weaning	<b>46</b> days
Days on feed post weaning	<b>200</b> days

Footnote: 1 kilogram (kg) = 2.2046 pounds (lbs)

### Feed Requirements and Costs

	<u>Market Price</u>	<u>Feeder Calf Requirement</u>	<u>Days on Feed</u>
<b>Pre weaning</b>			
Milk replacer	<b>\$59.00</b> /20 kg bag	<b>1.2</b> lbs/day	<b>46</b>
Calf starter (with coccidiostat)	<b>\$10.75</b> /25 kg	<b>1.2</b> lbs/day	<b>60</b>
<b>Post weaning</b>			
Barley	<b>\$2.85</b> /bushel	<b>5.6</b> lbs/day	<b>200</b>
Protein (ie. 38% canola meal)	<b>\$6.70</b> /25 kg	<b>1.0</b> lbs/day	<b>200</b>
Hay	<b>\$80.00</b> /ton	<b>1.9</b> lbs/day	<b>200</b>
Vit/min premix with ionophore*	<b>\$12.50</b> /25 kg	<b>0.2</b> lbs/day	<b>200</b>

**Other Operating Costs**

**Feeder Purchase Costs**

Feeder calf purchase price \$/cwt)	<b>\$200.00</b> /cwt
Buying Commission	<b>\$5.00</b> /head
Trucking-in	<b>\$1.25</b> /cwt

**Straw Bedding**

lbs/day	<b>2.0</b> lbs/head/day
cost	<b>\$20.00</b> /ton

**Veterinary Medicine & Supplies**

**Cattle Medication**

	<u><b>Cost/head</b></u>
Vitamin A-D	<b>\$0.10</b>
Vitamin E/Selenium	<b>\$0.15</b>
Blackleg 8-way	<b>\$0.54</b>
IBR,4-way	<b>\$1.61</b>
Liquamycin LA	<b>\$0.05</b>
Electrolyte Packets	<b>\$4.24</b>
Growth Implants	<b>\$1.65</b>
Scourguard	<b>\$3.00</b>
B-12	<b>\$0.02</b>
Internal/External Parasites	<b>\$0.70</b>
Castration	<b>\$1.00</b>
De-horning	<b>\$1.00</b>

**Annual Fuel & Repair Costs**

Repairs (Machinery, Equipment & Facilities)	<b>\$300</b>
Fuel Costs	<b>\$100</b>

**Utilities**

Telephone, Hydro etc.	<b>\$800</b>
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**Trucking Cost**

Average Weight	<b>530</b> lbs/head
Trucking Cost	<b>\$1.25</b> /cwt

**Marketing Cost**

Commission on Sales	<b>\$15.00</b> /head
Market Value	<b>\$150.00</b> /cwt
Insurance fee	<b>\$0.75</b> /head

**Manure Removal**

Annual Cost for Removal **\$500.00**

**Insurance**

Cost per \$100 Capital Invested in

a) Livestock **\$0.40** /\$100

b) Building & Equipment **\$0.50** /\$100

Additional Coverage for Liability **\$48.00** /year

**Barn & Office Supplies**

Total yearly expense relating to barn **\$200.00**

Operating Interest Rate **6.0** %

Investment Interest Rate **4.0** %

**Capital Costs**

	<u>Original Value</u>	<u>Salvage Value</u>	<u>Useful Life</u>
<b>Land &amp; Site Preparation Cost</b>			
Land, 10 acres at \$500/acre	<b>\$5,000</b>		
<b>Dairy Steer Facilities</b>			
Calf hutches, 25 @ \$335	<b>\$8,375</b>		
Facility, 42'x64' @ \$6.00 /sq ft	<b>\$16,125</b>		
Concrete area, 1408 sq ft @ \$3.55 /sq ft	<b>\$5,000</b>		
Site prep, liquid manure collection pit, gravel/shale	<b>\$5,500</b>		
Lower wall protective planking with 1/8" puckboard	<b>\$1,125</b>		
Waterers, 2 @ \$300 + installation	<b>\$600</b>		
Electrical	<b>\$1,500</b>		
Loading /chute (self-made)	<b>\$3,500</b>		
Posts, 50 4"-5" PT spruce @ \$6, wire etc. installed	<b>\$500</b>		
Metal panel gates, 114' @ \$6.50	<b>\$750</b>		
Feed bunk, 64'x3' @ \$3.50/ft	<b>\$675</b>		
Water line, from yard source	<b>\$1,500</b>		
Double layer vent. curtain	<b>\$6,100</b>		
<b>Total</b>	<b>\$51,250</b>	<b>10</b> %	<b>20</b> years
<b>Machinery &amp; Equipment</b>			
Tractor & Loader (steer portion)	<b>\$20,000</b>		
Feed Storage & Handling	<b>\$10,000</b>		
Truck, Office Equipment & Miscellaneous	<b>\$10,000</b>		
<b>Total</b>	<b>\$40,000</b>	<b>10</b> %	<b>20</b> years
<b>Total Investment</b>	<b>\$96,250</b>		

**Labour Costs**

**Total**

Hours/Head **8.0** hours

Labour Rate **\$10.00** /hour

## Cost of Raising Dairy Steers to 530 lbs - February, 2002

<b>A. Operating Costs</b>	<b><u>Cost/Head</u></b>	<b><u>Total Cost</u></b>	<b><u>Your Cost</u></b>
<b>1. Feed Costs</b>			
1.01 Milk Replacer	\$73.97	7,397	_____
1.02 Calf Starter	\$14.40	1,440	_____
1.03 Barley	\$67.20	6,720	_____
1.04 Protein	\$24.00	2,400	_____
1.05 Hay	\$15.20	1,520	_____
1.06 Vit/Min Premix with Ionophore	<u>\$9.20</u>	<u>920</u>	_____
<b>Total Feed Costs</b>	<b>\$203.97</b>	<b>\$20,397</b>	_____
<b>2. Other Operating Costs</b>			
2.01 Feeder Cost	\$206.25	20,625	_____
2.02 Straw	\$4.92	492	_____
2.03 Veterinary Medicine & Supplies	\$6.69	669	_____
2.04 Annual Fuel & Repair Costs	\$4.00	400	_____
2.05 Utilities	\$8.00	800	_____
2.06 Feeder Selling Cost	\$22.38	2,238	_____
2.07 Insurance	\$6.58	658	_____
2.08 Manure Removal	\$5.00	500	_____
2.09 Barn & Office Supplies	\$2.00	200	_____
2.10 Death Loss	<u>\$15.64</u>	<u>1,564</u>	_____
Subtotal Operating Costs	\$485.43	48,543	_____
2.11 Operating Interest	<u>\$13.99</u>	<u>1,399</u>	_____
<b>Total Operating Costs</b>	<b>\$499.42</b>	<b>\$49,942</b>	_____
<b>B. Fixed Costs</b>			
<b>3. Depreciation</b>			
3.01 Buildings	\$23.06	2,306	_____
3.02 Machinery & Equipment	\$18.00	1,800	_____
<b>4. Investment</b>			
4.01 Land	\$2.00	200	_____
4.02 Buildings	\$11.28	1,128	_____
4.03 Machinery & Equipment	<u>\$8.80</u>	<u>880</u>	_____
<b>Total Fixed Costs</b>	<b>\$63.14</b>	<b>\$6,314</b>	_____
<b>Total Operating and Fixed Costs</b>	<b>\$562.55</b>	<b>\$56,256</b>	_____
<b>C. Labour</b>	\$80.00	\$8,000	_____
<b>Total Cost of Production</b>	<b>\$642.55</b>	<b>\$64,256</b>	_____
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<b>Cost per lb of gain sold</b>	<b><u>\$/lb</u></b>		
Feed Costs	\$0.50		_____
Operating Costs	\$0.73		_____
Operating & Fixed Costs	\$0.89		_____
Total Costs (including labour)	\$1.08		_____
<b>Breakeven Selling Price</b>			
Operating Costs	\$0.99		_____
Operating & Fixed Costs	\$1.12		_____
Total Costs (including labour)	\$1.28		_____

**Disclaimer:** This budget is only a guide and is not intended as an in-depth study of the cost of production of this industry. Interpretation and utilization of this information is the responsibility of the user. No liability for decisions based on this publication is assumed. If you require assistance with developing your individual budget, please contact your local MAF Office or the Farm Management Section in Winnipeg at 204-945-4937.

## Assumptions

1. The average daily gain (ADG) was assumed to be 0.76 lbs/day for the pre weaning period (95 to 130 lbs) and 2 lbs/day for the post weaning period (130 to 530 lbs).
2. Feeder calf weighed 95 lbs. shrunk weight and was marketed at 504 lbs shrunk weight.
3. Total feeding period (246) days includes 46 days (pre weaning) and 200 days (post weaning).

## Group Profile

Number of calves purchased	<b>100</b>	head
Feeder calf purchased weight	<b>100</b>	lbs
Percent shrink on feeder calf	<b>5.0</b>	%
Feeder calf purchase price (\$/cwt)	<b>\$200.00</b>	/cwt
Weaned calf target weight	<b>130</b>	lbs
Pre weaning mortality	<b>10.0</b>	%
Average daily gain (pre weaning)	<b>0.76</b>	lbs/day
Post weaning target weight	<b>530</b>	lbs
Percent shrink on post weaning target weight	<b>5.0</b>	%
Post weaning mortality	<b>2.0</b>	%
Feeder calf selling price	<b>\$150.00</b>	/cwt
Average daily gain (post weaning)	<b>2.0</b>	lbs/day
Days on feed pre weaning	<b>46</b>	days
Days on feed post weaning	<b>200</b>	days

## Feed Requirements, Costs & Days on Feed

	<u>Market Price</u>		<u>Amount Fed</u>	<u>Days on Feed</u>
<b>Pre weaning</b>				
Milk replacer	<b>\$59.00</b>	20 kg	<b>1.2 lbs/day</b>	<b>46</b>
Calf starter	<b>\$10.75</b>	25 kg	<b>1.2 lbs/day</b>	<b>60</b>
<b>Post weaning</b>				
Barley	<b>\$2.85</b>	bu.	<b>5.6 lbs/day</b>	<b>200</b>
Protein (i.e. 36% canola meal)	<b>\$6.70</b>	25 kg	<b>1.0 lbs/day</b>	<b>200</b>
Hay	<b>\$80.00</b>	ton	<b>1.9 lbs/day</b>	<b>200</b>
Vit/Min Premix with Ionophore*	<b>\$12.50</b>	25 kg	<b>0.2 lbs/day</b>	<b>200</b>

\* **Caution: Premixes are intended to be mixed according to "product label directions" with other feeds (ie. grains; silages) prior to being fed to animals. It is assumed that a commercial vit/min premix, with ionophore, is mixed with other feeds and that the total quantity required up to 530 lbs body weight averaged 0.2 lbs/head/day. This will vary from one commercial product to another.**

**A. Operating Costs**

**Your Cost**

**1. Feed Costs**

**1.01 Milk Replacer**

	46	days on milk replacer
x	1.20	lbs/day
<u>x</u>	<u>\$1.34</u>	<u>\$/lb</u>
<b>=</b>	<b>\$73.97</b>	<b>/feeder</b>

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**1.02 Calf Starter**

	60	days on calf starter
x	1.2	lbs/day
<u>x</u>	<u>\$0.20</u>	<u>\$/lb</u>
<b>=</b>	<b>\$14.40</b>	<b>/feeder</b>

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**1.03 Barley**

	200	days (130 to 530 lbs)
x	5.6	lbs/day (averaged)
<u>x</u>	<u>\$0.06</u>	<u>\$/lb</u>
<b>=</b>	<b>\$67.20</b>	<b>/feeder</b>

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**1.04 Protein Source**

	200	days (130 to 530 lbs)
x	1.0	lbs/day (averaged)
<u>x</u>	<u>\$0.12</u>	<u>\$/lb</u>
<b>=</b>	<b>\$24.00</b>	<b>/feeder</b>

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**1.05 Hay**

	200	days (130 to 530 lbs)
x	1.90	lbs/day (averaged)
<u>x</u>	<u>\$80.00</u>	<u>/ton</u>
<b>=</b>	<b>\$15.20</b>	<b>/feeder</b>

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**1.06 Vit/Min Premix with Ionophore**

	200	days (130 to 530 lbs)
x	0.2	lbs/day (averaged)
<u>x</u>	<u>\$0.23</u>	<u>/lb</u>
<b>=</b>	<b>\$9.20</b>	<b>/feeder</b>

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**2. Other Operating Costs**

**2.01 Feeder Purchase**

Commission	\$5.00	/feeder	_____
Trucking-in	\$1.25	/cwt	_____
x	100	lbs/feeder	_____
÷	100	lbs/cwt	_____
=	\$1.25	/feeder	_____
Feeder	100	lbs/feeder	_____
x	\$200.00	/cwt	_____
÷	100	lbs/cwt	_____
=	\$200.00	/feeder	_____
<b>Total</b>	<b>=</b>	<b>\$206.25</b>	<b>/feeder</b>
			_____

**2.02 Straw Bedding**

	2.0	lbs/day	_____
x	246	days (rearing period)	_____
x	\$20.00	/ton	_____
=	\$4.92	/feeder	_____

**2.03 Veterinary Medicine & Supplies**

Cattle Medication

	\$0.10	Vitamin A-D	_____
+	\$0.15	Vitamin E/Selenium	_____
+	\$0.54	Blackleg 8-way	_____
+	\$1.61	IBR,4-way	_____
+	\$0.05	Liquamycin LA	_____
+	\$4.24	Electrolyte Packets	_____
+	\$1.65	Growth Implants	_____
+	\$3.00	Scourguard	_____
+	\$0.02	B-12	_____
+	\$0.70	Internal/External Parasites	_____
+	\$1.00	Castration	_____
±	\$1.00	De-horning	_____
=	\$6.69	/feeder	_____



**2.04 Annual Fuel & Repair Costs**

	\$300.00	repairs	_____
+	\$100.00	fuel costs	_____
÷	<u>100</u>	<u>feeders</u>	_____
=	<b>\$4.00</b>	<b>/feeder</b>	_____

**2.05 Utilities**

	\$800.00	cost/year	_____
÷	<u>100</u>	<u>feeders</u>	_____
=	<b>\$8.00</b>	<b>/feeder</b>	_____

**2.06 Feeder Selling Cost**

Trucking

	530	lbs/feeder	_____
÷	100	lbs/cwt	_____
x	<u>\$1.25</u>	<u>trucking cost/cwt</u>	_____
=	\$6.63	/feeder	_____

Selling Commission

	\$15.00	commission	_____
+	<u>\$0.75</u>	<u>insurance</u>	_____
=	\$15.75	/feeder	_____

**Total = \$22.38 /feeder**

**2.07 Insurance**

	\$96,250	building & equipment investment	_____
x	\$0.50	/\$100 capital	_____
÷	100	/\$100	_____
÷	<u>100</u>	<u>feeders</u>	_____
=	\$4.81	/feeder	_____

	\$206.25	feeder purchase	_____
+	\$101.99	½ of feed	_____
+	\$15.31	½ other (excluding selling & death loss)	_____
=	\$323.54	total input costs	_____
x	\$0.40	/\$100 capital	_____
÷	<u>100</u>	<u>/\$100</u>	_____
=	\$1.29	/feeder	_____

	\$48.00	additional coverage for liability	_____
÷	<u>100</u>	<u>feeders</u>	_____
=	\$0.48	/feeder	_____

**Total = \$6.58 /feeder**

**2.08 Manure Removal**

	\$500	annual removal cost	_____
÷	<u>100</u>	<u>feeders</u>	_____
=	<b>\$5.00</b>	<b>/feeder</b>	_____

**2.09 Barn & Office Supplies**

	\$200	total barn expenses	_____
÷	<u>100</u>	<u>feeders</u>	_____
=	<b>\$2.00</b>	<b>/feeder</b>	_____

**2.10 Death Loss**

	\$447.41	exclude selling costs & death loss	_____
x	10.0	pre weaning % mortality	_____
x	46	days on feed	_____
÷	<u>246</u>	<u>total days on feed</u>	_____
=	<b>\$8.37</b>	<b>/feeder pre weaning</b>	_____

	\$447.41	exclude selling costs & death loss	_____
x	2.0	post weaning % mortality	_____
x	200	days on feed	_____
÷	<u>246</u>	<u>total days on feed</u>	_____
=	<b>\$7.27</b>	<b>/feeder post weaning</b>	_____

=	<b>\$15.64</b>	<b>/feeder</b>	_____
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**2.11 Operating Interest**

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

	\$206.25	feeder cost	_____
+	\$139.59	½ of feed & other costs	_____
x	6.0	% operating interest	_____
x	246	days on feed	_____
÷	<u>365</u>	<u>days /year</u>	_____
=	<b>\$13.99</b>	<b>/feeder</b>	_____

## Capital Costs

See appendix 1 for details on building design and farm site layout for 100 head operation. Also included as appendix 2 and 3 are suggested layouts for possible expansion to 200 and 400 head respectively.

### Land Cost

Land, 10 acres at \$500/acre	<b>\$5,000</b>	
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### Dairy Steer Facilities

Calf hutches, 25 @ \$335	\$8,375	
Facility, 42'x64' @ \$6.00 /sq ft	\$16,125	
Concrete area, 1408 sq ft @ \$3.55 /sq ft	\$5,000	
Site prep, liquid manure collection pit, gravel/shale	\$5,500	
Lower wall protective planking with 1/8" puckboard	\$1,125	
Waterers, 2 @ \$300 + installation	\$600	
Electrical	\$1,500	
Loading /chute (self-made)	\$3,500	
Posts, 50 4"-5" PT spruce @ \$6, wire etc. installed	\$500	
Metal panel gates, 114' @ \$6.50	\$750	
Feed bunk, 64'x3' @ \$3.50/ft	\$675	
Water line, from yard source	\$1,500	
Double layer vent. curtain	<u>\$6,100</u>	
<b>Total</b>	<b>\$51,250</b>	

### Machinery & Equipment

Tractor & Loader (steer portion)	\$20,000	
Feed Storage & Handling	\$10,000	
Truck, Office Equipment & Miscellaneous	<u>\$10,000</u>	
<b>Total</b>	<b>\$40,000</b>	

Total Investment	<b>\$96,250</b>	
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## B. Fixed Costs

### 3. Depreciation Original Cost - Salvage Value Useful Life

#### 3.01 Buildings

	\$51,250	original cost	
-	\$5,125	salvage value 10%	
÷	20	years useful life	
÷	<u>100</u>	<u>feeders</u>	
=	<b>\$23.06</b>	<b>/feeder</b>	

**3.02 Machinery & Equipment**

	\$40,000	original cost	_____
-	\$4,000	salvage value 20%	_____
÷	20	years useful life	_____
÷	<u>100</u>	<u>feeders</u>	_____
=	<b>\$18.00</b>	<b>/feeder</b>	_____

**4. Investment**      **Original Value + Salvage Value x Investment Rate**  
**2**

**4.01 Land**

	\$5,000	land	_____
x	4.0	% investment rate	_____
÷	<u>100</u>	<u>feeders</u>	_____
=	<b>\$2.00</b>	<b>/feeder</b>	_____

**4.02 Buildings**

+	\$51,250	buildings	_____
+	\$5,125	salvage value 10%	_____
÷	2	average	_____
x	4.0	% investment rate	_____
÷	<u>100</u>	<u>feeders</u>	_____
=	<b>\$11.28</b>	<b>/feeder</b>	_____

**4.03 Machinery & Equipment**

	\$40,000	original cost	_____
+	\$4,000	salvage value 20%	_____
÷	2	average	_____
x	4.0	% investment rate	_____
÷	<u>100</u>	<u>feeders</u>	_____
=	<b>\$8.80</b>	<b>/feeder</b>	_____

**C. Labour**

	8.0	hours/feeder	_____
÷	<u>\$10.00</u>	<u>/hour</u>	_____
=	<b>\$80.00</b>	<b>/feeder</b>	_____

## Breakeven Calculations

### Cost per lb of gain sold (shrunk weight)

<b>Feed Costs</b>		\$203.97	feed cost
	÷	<u>409</u>	<u>lbs gained weight</u>
	=	<b>\$0.50</b>	<b>/lb (gain sold)</b>
<b>Operating Costs</b>		\$499.42	operating costs
	-	\$200.00	feeder cost
	÷	<u>409</u>	<u>lbs gained weight</u>
	=	<b>\$0.73</b>	<b>/lb (gain sold)</b>
<b>Operating &amp; Fixed</b>		\$562.55	operating & fixed costs
	-	\$200.00	feeder cost
	÷	<u>409</u>	<u>lbs gained weight</u>
	=	<b>\$0.89</b>	<b>/lb (gain sold)</b>
<b>Total Costs</b>		\$642.55	total costs
	-	\$200.00	feeder cost
	÷	<u>409</u>	<u>lbs gained weight</u>
	=	<b>\$1.08</b>	<b>/lb (gain sold)</b>
<b>Breakeven selling price (shrunk weight)</b>			
<b>Operating Costs</b>		\$499.42	operating costs
	÷	<u>504</u>	<u>lbs shrunk weight</u>
	=	<b>\$0.99</b>	<b>/lb</b>
<b>Operating &amp; Fixed</b>		\$562.55	operating & fixed costs
	÷	<u>504</u>	<u>lbs shrunk weight</u>
	=	<b>\$1.12</b>	<b>/lb</b>
<b>Total Costs</b>		\$642.55	total costs
	÷	<u>504</u>	<u>lbs shrunk weight</u>
	=	<b>\$1.28</b>	<b>/lb</b>

**For more information contact your local Manitoba Agriculture and Food Office.**

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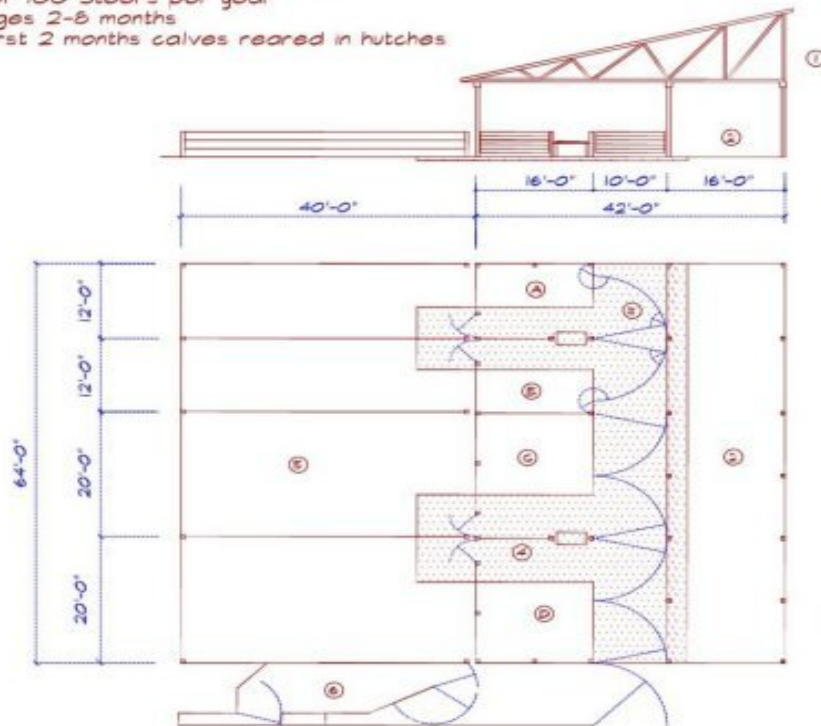
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## Appendix 1

**PHASE I-DAIRY STEER FACILITY**  
 For 100 Steers per year  
 Ages 2-8 months  
 First 2 months calves reared in hutches



- ④ Concrete pad extension  
For high traffic areas  
Next to waterer and  
Exit to exercise/loafing area
- ⑤ Exercise/Loafing yard  
Slope 2-3 % away from shed  
Slope 1/2 % toward retention basin
- ⑥ Handling/loading/holding facility
- ① 42'x 64' Pole shed with mono slope truss  
Bottom 4' of wall section closed in  
Top portion equipped with adjustable ventilation curtain
- ② 16' Drive through feed alley
- ⑦ Retention basin designed for 4" runoff from shed and lot  
Excavated basin material can be used for lot fill  
Concrete bucking wall next to basin to load solids
- ③ 10' concrete scrape alley  
Slope toward retention basin  
Alley closed from pens with 10' gates  
For pens A/ B gates equipped with 2' wing or slide gate extension
- ⑧ Pens A and B, 12'X 26' pen, 12 head per pen  
26 square feet/head, 12" per head bunk space
- ⑨ Pens C and D, 20'X 26' pen, 13 head per pen  
40 square feet/head, 18" per head bunk space

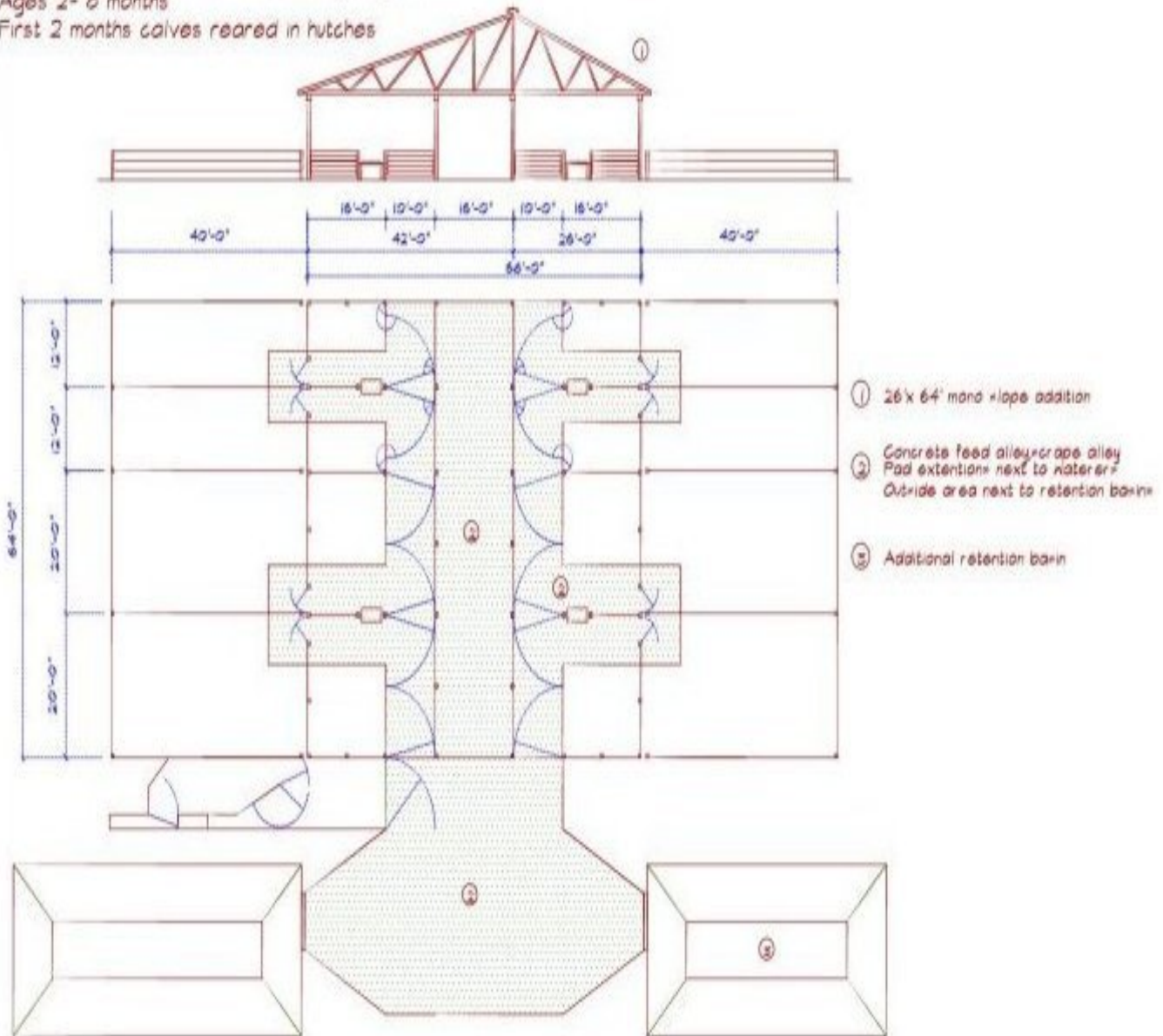
## Appendix 2

### PHASE 2-DAIRY STEER FACILITY

Expansion from 100 to 200 steers per year

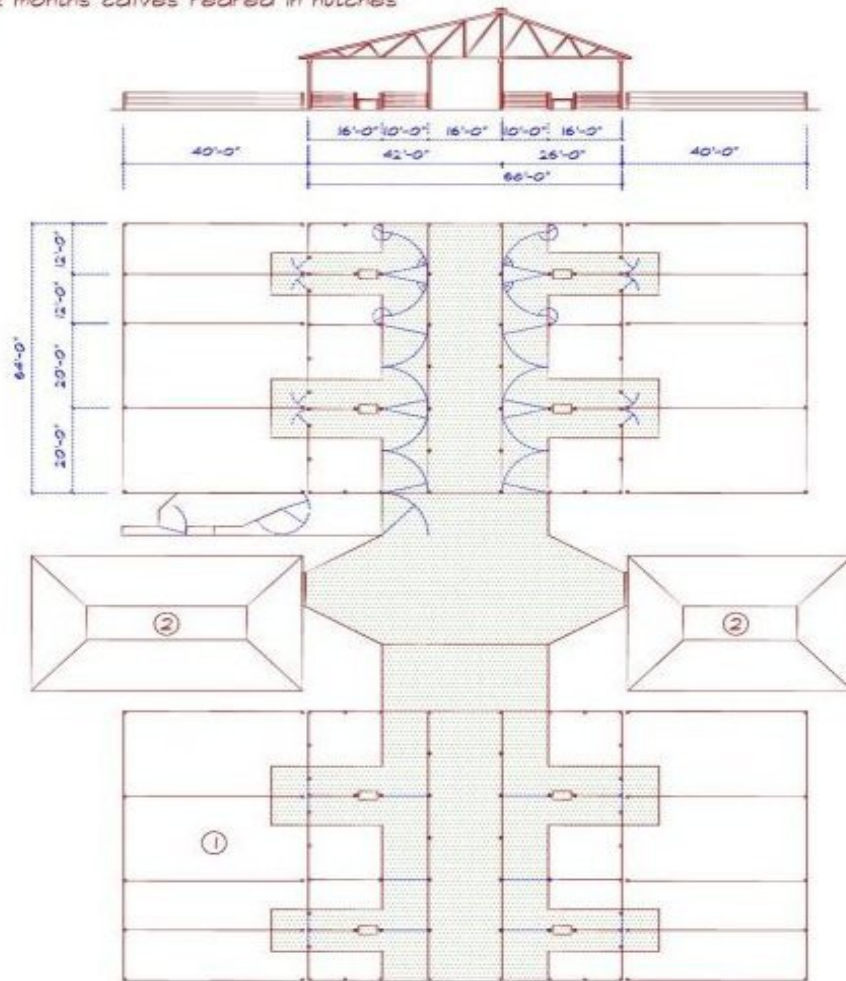
Ages 2- 8 months

First 2 months calves reared in hutches



### Appendix 3

PHASE 3- DAIRY STEER FACILITY  
 Expansion from 200 to 400 steers per year  
 Ages 2-8 months  
 First 2 months calves reared in hutches



- ① Duplicate lots and shed  
May be built onto existing shed
- ② Expanded retention basins