





Guidelines For Estimating Beef Feedlot Finishing Costs

For Weight Range of 650 - 1400 lbs. Based on feeding 500 Steers

Date: September, 2023

This guide is designed to provide you with planning information and a format for calculating costs of production of a beef cattle feedlot finishing 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.

Cattle feeding is a high risk business requiring large amounts of short term capital to buy feeder cattle and feed. With cyclical price variations for both livestock and feed, successful management involves careful consideration of costs, projection of markets and sound judgement.

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:



<u>The Farm Machinery Custom and Rental Rate Guide</u> determine machinery costs.

is also available to help

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.

Feedlot Finishing Cost Summary September, 2023 Based on feeding 500 steers for weight range 650 to 1400 lbs.

	Cost/Head	Total Cost	Your Cost
A. Operating Costs			
1. Feed Costs			
1.01 Rolled Barley	\$556.45	\$278,225	
1.02 Barley Silage	\$79.41	\$39,705	
1.03 Alfalfa Grass Hay	\$4.50	\$2,250	
1.04 Supplement	<u>\$52.38</u>	<u>\$26,190</u>	
Total Feed Costs	\$692.74	\$346,370	
2. Other Operating Costs			
2.01 Feeder Cost	\$2,294.30	\$1,147,150	
2.02 Straw	\$35.00	\$17,500	
2.03 Veterinary Medicine & Supplies	\$28.49	\$14,245	
2.04 Annual Fuel & Repair Costs	\$14.52	\$7,262	
2.05 Utilities	\$7.01	\$3,505	
2.06 Marketing & Transportation	\$122.17	\$61,085	
2.07 Insurance	\$1.80	\$900	
2.08 Manure Removal	\$14.00	\$7,000	
2.09 Barn & Office Supplies	\$1.80	\$900	
2.10 Death Loss	\$53.84	<u>\$26,920</u>	
Subtotal Operating Costs	\$3,265.67	\$1, 6 32,837	
2.11 Operating Interest	\$156.81	\$78,405	
Total Operating Costs	\$3,422.48	\$1, 711,242	
B. Fixed Costs	•		
3. Depreciation			
3.01 Buildings	\$7.46	\$3,730	
3.02 Machinery & Equipment	\$20.80	\$10,400	
4. Investment		, ,	
4.01 Buildings	\$3.65	\$1,825	
4.02 Machinery & Equipment	\$6.24	\$3,120	
Total Fixed Costs	\$38.15	\$19,075	
Total Operating and Fixed Costs	\$3,460.63	\$1, 730,317	
	\$54.00		
C. Owners - Labour & Living TOTAL COST OF PRODUCTION	\$3,514.63	\$27,000 \$1,757,317	
	y and Breakeven A		
Estimated Farmgate Gross Revenue @ \$248/cwt market price	<u>Per Head</u> \$3,298.40	<u>Total</u> \$1,649,200	
Gloss Revenue @ \$246/CWI market price	₹3, 2 56.40	φ1,049,200	
Breakeven Analysis B	reakeven Purchase	Breakeven Selling	
	Price (\$/cwt) @	Price (\$/cwt) @	
<u>\$2</u>	48/cwt market price	\$350/cwt feeder price	
Operating Costs	\$330.91	\$257.33	
Operating Costs & Labour	\$322.60	\$261.39	
Operating & Fixed Costs	\$325.04	\$260.20	
Total Costs	\$316.73	\$264.26	
	Cost per lb of	Marginal Returns per hea	d
	gain sold (\$/cwt)	@ \$248 /cwt market price	
Feed Costs	\$101.87	w \$240 /CWL HIAIREL PRICE	<u> </u>
Operating Costs	\$101.67 \$168.75	(\$124.08)	
Operating Costs Operating Costs & Labour	\$176.69	(\$124.06) (\$178.08)	
Operating Costs & Labour Operating & Fixed Costs	\$176.69 \$174.36		
Total Costs		(\$162.23)	
i otal Ousts	\$1 Ձን ՉՈ	14 71h 731	
	\$182.30	(\$216.23)	
Return on Investment (ROI) Estimated Return on Asset (ROA)	\$182.30 (6.2%) (48.5%)	(\$216.23)	

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.

Risk & Sensitivity Analysis (Stress Test)

Percent Market Price Change -2.5%
Percent Feed Cost Change 5.0%
Percent Feeder Cost Change 5.0%

 Market Price (\$ per cwt)
 \$241.80

 Feed Cost
 \$727.38

 Feeder Cost
 \$2,409.02

Stress Test Scenario = Market Price Down 2.5%, Feed Price Up 5% and Feeder Cost Up 5%

Operating Costs	\$3,571.84
Total Costs	\$3,663.99
Gross Revenue / feeder	\$3,215.94
Marginal Returns	
Over Operating Costs	(\$355.90)
Over Operating & Labour Costs	(\$409.90)
Over Total Costs (Net Profit)	(\$448.05)
Operating Expense Ratio	111.1%

Estimated Breakeven Canadian Dollar Analysis

	Est. Ma	rket Price (\$	/cwt Cdn) @ (0.7500 Cdn p	er USD
	\$238.00	\$243.00	\$248.00	\$253.00	\$258.00
Breakeven CDN Dollar (\$1 Cdn = \$ USD)					
Operating Costs	0.6937	0.7082	0.7228	0.7374	0.7520
Operating & Labour Costs	0.6829	0.6972	0.7116	0.7259	0.7403
Operating, Fixed & Labour Costs	0.6755	0.6897	0.7039	0.7180	0.7322

Breakeven Canadian Dollar = (Est. Market Price (\$/lb) x Shrunk Wt. (lbs) x \$ Cdn per USD) / Cost (eg. ($\$2.48 \times 1330$ lbs x \$0.7500) / \$3514.63) = \$0.7039

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.

Feedlot Finishing Production Costs - Input

Assumptions

- 1. This budget outlines the cost of production for a cattle feeder's operation.
- 2. Buildings and equipment are valued at new cost.
- 3. All feed is purchased.

Herd Profile		<u>Total</u>	
Number of Feeders Purchased		500	head
Feeder Cattle Mortality Rate		2.00	%
Feeder Purchased Weight		650	lbs
Feeder Cattle Price		\$350.00	/cwt
Finish Weight		1,400	lbs
Finish Selling Price		\$248.00	/cwt
\$1 Canadian Dollar	(\$1.3333 CDN)	\$0.7500	/ \$1 USD
WLPIP Insurance Premium		\$0.00	/cwt
Percent Shrink - finished		5.00	%
Percent Shrink - feeder		0.00	%
Average Daily Gain		3.25	lbs/day
Days On Feed		231	days

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

Feed Costs	<u>\$/unit</u>		Feeder Cattle <u>Requirement</u>	Days on <u>Feed</u>
Rolled Barley	\$6.25	/bu	18.50 (lbs/day)	231
Barley Silage	\$55.00	/ton	12.50 (lbs/day)	231
Alfalfa Grass Hay	\$120.00	/ton	5.00 (lbs/day)	15
Supplement 32%	\$500.00	/tonne	1.00 (lbs/day)	231
Other Feed #2	\$0.00		0.00 (lbs/day)	
Salt, Vitamins & Mineral	\$0.00	/lb	0.00 (lbs/year)	

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	<u>Total</u>	
Feeder Purchase Costs		
Buying Commission	\$1.00	/cwt
Insurance	\$1.75	/head
Trucking Cost	\$1.70	/cwt
Straw		
Tons/feeder	0.50	tons
Cost	\$70.00	/ton

Veterinary Medicine & Supplies Cattle Medication Cost/Head(IBR,BVD,PI3,BVD,BI Vitamin A-D External & Internal Parasites Blackleg & Haemophilus Growth Implants Antibiotics	RSV, Pasteurella)	\$6.00 \$0.50 \$0.96 \$1.65 \$3.42 \$15.00	
Herd health program Professional Services Total Yearly Hours		2.00	hours
Charge per Hour		\$160.00	/hour
Transportation		90.00	lena
Total Kilometres (round trip) Charge per km		80.00 \$1.00	km /km
Number of Yearly Visits		\$1.00 2	/KIII
Number of Tearly Visits		_	
Annual Fuel & Repair Costs a) Machinery Fuel Costs - Winter Tractor with Loader PTO h Diesel Fuel Cost Tractor Hours Per Day (av. b) Machinery Repair (% of investr c) Building maintenance (% of inv	erage) ment cost)	120 \$1.40 / 1.50 h 1.2 9 2.2 9	nours %
Utilities			
Hydro - Rate		\$0.09324 /	kWh
•	18 kWh per feeder	\$387.69	
	3 1000 watt waterer	\$2,517.48	
	Total Hydro	\$2,905.17	
Telephone		\$600.00	
Marketing Costs Trucking Cost			
Distance		700	miles
Rate		\$6.50	/loaded mile
Truck Capacity		54,000	lbs/load
Number of head per load		39	per load
Selling commission		\$0.00	/head
Other Costs MBP/NCO Levy \$/Head		\$5.50	/head
Manure Removal Annual Cost for Removal		\$7,000.00	

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Insurance	
Cost per \$100 Capital Invested in:	
a) Livestock	\$0.00
b) Building & Equipment	\$0.40
Additional Coverage for Liability	\$49.00

Barn & Office Supplies

Total yearly expense relating to barn	\$900.00
, , ,	·

Operating Interest Rate	9.00 %
Investment Interest Rate	4.00 %

FOOTNOTE: cwt = hundred-weight = 100 lbs

Capital Costs

	Original	Salvage	Useful
Buildings,Corrals & Water System	<u>Value</u>	<u>Value</u>	<u>Life</u>
Windbreak fence	\$7,350	10 %	20 years
Pens	\$4,540	10 %	20 years
Shelters	\$0	10 %	20 years
Handling Facilities	\$7,500	10 %	20 years
Waterers	\$6,000	10 %	20 years
Gates	\$2,000	10 %	20 years
Bunk Feeders	\$25,000	10 %	20 years
Well & Pressure System	\$8,000	10 %	20 years
Grain Bin	\$5,000	10 %	20 years
Landscaping	\$17,500	10 %	20 years
Total	\$82,890		-
Machinery & Equipment			
Tractors & Loader (\$175,000 @ 40%)	\$70,000	20 %	10 years
Miscellaneous	\$60,000	20 %	10 years
Total Investment	\$212,890		

Labour Costs	<u>Total</u>
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Labour Hours 2.00 hours/head Labour Rate **\$27.00** /hour

Feedlot Finishing Production Cost Worksheet

Assumptions

A.

- 1. Average daily gain (ADG) was assumed to be 3.25 lbs/day.
- 2. It was assumed that the feeder steer weighed in at 650 lbs., and finished at 1400 lbs (1330 lbs after a 5% shrink.)
- 3. Days on feed was 231. Hay was fed for 15 days.
- 4. Investment in feedlot facilities and equipment was assumed to handle 500 head.

. Operating Costs			Your Cost
1. Feed Costs 1.01 Rolled Bark	ev		
	231.0	00 days on grain	
	x 18.5	, ,	
	÷ 48.0	-	
	<u>x</u> \$6.2		
	= \$556.4		
	•	noodol	
1.02 Barley Silaç	-	20 1 "	
	231.0		
	x 12.5	,	
	÷ 2,000.0		
	<u>x</u> \$55.0		
	= \$79.4	11 /feeder	
1.03 Alfalfa Gras	ss Hay		
	15.0		
	x 5.0	00 lbs/feeder/day	
	÷ 2,000.0	00 lbs/ton	
	<u>x</u> \$120.0	<u>)0 /ton</u>	
	= \$4.5	50 /feeder	
1 04 Sunnlement	(Salt Vitamine M	linerals, lonophore)	
1.04 Oupplement	231.0		ent
	x 1.0		
	÷ 2,205.0		
	$\frac{x}{=}$ \$500.0		
	- φυζ	oo needel	
2. Other Operating	Costs		
2.01 Feeder Catt	tle Cost		
Buying Co	mmission & insura	nce	
	\$6.5	50 commission/feede	er
	\$1.7	75 insurance/feeder	
Trucking-i	n		
J	\$1.7	70 /cwt	
	x 650.0	00 lbs/feeder	
	<u>÷ 100.0</u>	00 lbs/cwt	
	= \$11.0		
	·		
	650.0		
	x \$350.0	00 /cwt	
	<u>÷ 100.0</u>	00 lbs/cwt	
	= \$2,275.0	00 /feeder	
Total	= \$2,294.3	30 /feeder	

2.02 Straw				
2.02 Straw		0.50	tons/feeder/year	
	<u>x</u>	<u>\$70.00</u>	/ton	
	=	\$35.00	/feeder	
0.00.1/-4	. 8411 - 1	. 0 0		
2.03 Veterinary	/ Medicin ledication			
Cattle IV	leulcation	\$6.00	IBR,PI3,BVD,BRSV & Pas	teurella
	+	\$0.50	Vitamin A,D & E	
	+	\$0.96	External & Internal Parasite	es
	+	\$1.65	Blackleg & Haemphilus	
	+	\$3.42	Implant	
	<u>+</u> =	\$15.00 \$27.53	Antibiotics /feeder	-
	=	\$27.53	rieeder	-
Profess	sional Se	rvices		
		\$160.00	/hour charge	
	Х	2.00	hours	
	<u>÷</u>	<u>500</u>	feeder cattle	
	=	\$0.64	/feeder	
Transp	ortation C	Costs		
·		\$1.00	/km charge	
	X	80.00	kilometres	
	Х	2.00	visits	
	<u>÷</u>	<u>500</u>	feeder cattle	
	=	\$0.32	/feeder	
Total	=	\$28.49	/feeder	
2.04 Annual Fuel & Repair Costs				
2.04 Annual Fu	uel & Rer	pair Costs		
	uel & Rep ery fuel co			
	ery fuel co	ost 120	PTO hp	
	ery fuel co	est 120 2.5	avg HP required	
	ery fuel co ÷ x	est 120 2.5 0.1665576	avg HP required litres fuel/hour/hp	
	÷ x x	2.5 0.1665576 1.5	avg HP required litres fuel/hour/hp hours per day	
	ery fuel co ÷ x	120 2.5 0.1665576 1.5 \$1.40	avg HP required litres fuel/hour/hp	
	÷ X X X	120 2.5 0.1665576 1.5 \$1.40 231 \$3,878.26	avg HP required litres fuel/hour/hp hours per day diesel / litre	
	÷ x x x x X	120 2.5 0.1665576 1.5 \$1.40 231 \$3,878.26 500.00	avg HP required litres fuel/hour/hp hours per day diesel / litre days on feed annual fuel cost feeders	
Machine	÷ x x x x x =	120 2.5 0.1665576 1.5 \$1.40 231 \$3,878.26 500.00 \$7.76	avg HP required litres fuel/hour/hp hours per day diesel / litre days on feed annual fuel cost	
Machine	÷ x x x x x =	120 2.5 0.1665576 1.5 \$1.40 231 \$3,878.26 500.00 \$7.76 & maintenance	avg HP required litres fuel/hour/hp hours per day diesel / litre days on feed annual fuel cost feeders /feeder	
Machine	÷ x x x x <u>x</u> <u>÷</u> = ery repair	120 2.5 0.1665576 1.5 \$1.40 231 \$3,878.26 500.00 \$7.76 & maintenance \$130,000	avg HP required litres fuel/hour/hp hours per day diesel / litre days on feed annual fuel cost feeders /feeder machinery capital cost	
Machine	÷ x x x x x =	120 2.5 0.1665576 1.5 \$1.40 231 \$3,878.26 500.00 \$7.76 & maintenance	avg HP required litres fuel/hour/hp hours per day diesel / litre days on feed annual fuel cost feeders /feeder	
Machine	÷ x x x x ± = ery repair x =	120 2.5 0.1665576 1.5 \$1.40 231 \$3,878.26 500.00 \$7.76 & maintenance \$130,000 1.20 \$1,560.00 500.00	avg HP required litres fuel/hour/hp hours per day diesel / litre days on feed annual fuel cost feeders /feeder machinery capital cost % repair rate oil, repairs & maintenance feeders	
Machine Machine	÷ x x x x ± = ery repair x = ± =	120 2.5 0.1665576 1.5 \$1.40 231 \$3,878.26 500.00 \$7.76 & maintenance \$130,000 1.20 \$1,560.00 500.00 \$3.12	avg HP required litres fuel/hour/hp hours per day diesel / litre days on feed annual fuel cost feeders /feeder machinery capital cost % repair rate oil, repairs & maintenance	
Machine Machine	÷ x x x x ± = ery repair x = ± =	120 2.5 0.1665576 1.5 \$1.40 231 \$3,878.26 500.00 \$7.76 & maintenance \$130,000 1.20 \$1,560.00 500.00 \$3.12 maintenance	avg HP required litres fuel/hour/hp hours per day diesel / litre days on feed annual fuel cost feeders /feeder machinery capital cost % repair rate oil, repairs & maintenance feeders /feeder	
Machine Machine	÷ x x x x ± = ery repair x = tepair &	120 2.5 0.1665576 1.5 \$1.40 231 \$3,878.26 500.00 \$7.76 & maintenance \$130,000 1.20 \$1,560.00 500.00 \$3.12 maintenance \$82,890	avg HP required litres fuel/hour/hp hours per day diesel / litre days on feed annual fuel cost feeders /feeder machinery capital cost % repair rate oil, repairs & maintenance feeders /feeder building capital cost	
Machine Machine	÷ x x x x ± = ery repair x = ± =	120 2.5 0.1665576 1.5 \$1.40 231 \$3,878.26 500.00 \$7.76 & maintenance \$130,000 1.20 \$1,560.00 500.00 \$3.12 maintenance	avg HP required litres fuel/hour/hp hours per day diesel / litre days on feed annual fuel cost feeders /feeder machinery capital cost % repair rate oil, repairs & maintenance feeders /feeder	
Machine Machine	÷ x x x x	120 2.5 0.1665576 1.5 \$1.40 231 \$3,878.26 500.00 \$7.76 & maintenance \$130,000 1.20 \$1,560.00 500.00 \$3.12 maintenance \$82,890 2.20 \$1,823.58 500.00	avg HP required litres fuel/hour/hp hours per day diesel / litre days on feed annual fuel cost feeders /feeder machinery capital cost % repair rate oil, repairs & maintenance feeders /feeder building capital cost % repair rate oil, repairs & maintenance feeders	
Machine Machine	÷ x x x x	120 2.5 0.1665576 1.5 \$1.40 231 \$3,878.26 500.00 \$7.76 & maintenance \$130,000 1.20 \$1,560.00 500.00 \$3.12 maintenance \$82,890 2.20 \$1,823.58	avg HP required litres fuel/hour/hp hours per day diesel / litre days on feed annual fuel cost feeders /feeder machinery capital cost % repair rate oil, repairs & maintenance feeders /feeder building capital cost % repair rate oil, repairs & maintenance	
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Machine	÷ x x x x	120 2.5 0.1665576 1.5 \$1.40 231 \$3,878.26 500.00 \$7.76 & maintenance \$130,000 1.20 \$1,560.00 500.00 \$3.12 maintenance \$82,890 2.20 \$1,823.58 500.00 \$3.65	avg HP required litres fuel/hour/hp hours per day diesel / litre days on feed annual fuel cost feeders /feeder machinery capital cost % repair rate oil, repairs & maintenance feeders /feeder building capital cost % repair rate oil, repairs & maintenance feeders /feeder	
Machine Machine	÷ x x x x	120 2.5 0.1665576 1.5 \$1.40 231 \$3,878.26 500.00 \$7.76 & maintenance \$130,000 1.20 \$1,560.00 500.00 \$3.12 maintenance \$82,890 2.20 \$1,823.58 500.00 \$3.65	avg HP required litres fuel/hour/hp hours per day diesel / litre days on feed annual fuel cost feeders /feeder machinery capital cost % repair rate oil, repairs & maintenance feeders /feeder building capital cost % repair rate oil, repairs & maintenance feeders /feeder /feeder	
Machine	ery fuel control of the control of t	120 2.5 0.1665576 1.5 \$1.40 231 \$3,878.26 500.00 \$7.76 & maintenance \$130,000 1.20 \$1,560.00 500.00 \$3.12 maintenance \$82,890 2.20 \$1,823.58 500.00 \$3.65 \$14.52	avg HP required litres fuel/hour/hp hours per day diesel / litre days on feed annual fuel cost feeders /feeder machinery capital cost % repair rate oil, repairs & maintenance feeders /feeder building capital cost % repair rate oil, repairs & maintenance feeders /feeder /feeder /feeder /feeder utilities	
Machine	÷ x x x x	120 2.5 0.1665576 1.5 \$1.40 231 \$3,878.26 500.00 \$7.76 & maintenance \$130,000 1.20 \$1,560.00 500.00 \$3.12 maintenance \$82,890 2.20 \$1,823.58 500.00 \$3.65	avg HP required litres fuel/hour/hp hours per day diesel / litre days on feed annual fuel cost feeders /feeder machinery capital cost % repair rate oil, repairs & maintenance feeders /feeder building capital cost % repair rate oil, repairs & maintenance feeders /feeder /feeder	

2.06 Marketing	& Tra	nsportation		
J		\$5.50	MBP Levy	
	+	\$0.00	WLPIP Insurance Premium	1
	<u>+</u>	\$0.00	commission	
	=	\$5.50	/feeder	
		•		
Trucking		700.00	miles	
	Х	\$6.50	/loaded mile	
	<u>÷</u>	39.00	head/load	
	=	\$116.67	/feeder	
		Ψ	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-
Total	=	\$122.17	/feeder	
		·		
2.07 Insurance				
		\$212,890	building & equipment invest	tment
	Х	\$0.40	/\$100 capital	
	÷	100.00	/\$100 capital	-
	÷	<u>500</u>	feeder cattle	-
	<u>÷</u> =	\$1.70	/feeder/year	
		*****	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		\$1,436,750	feeder investment	
	х	\$0.00	/\$100 capital	
	÷	100.00	/\$100 sapitali /\$100	
	÷	<u>500</u>	feeder cattle	
	=	\$0.00	/feeder/year	
		Ψ0.00	//oddoi/yeur	
		\$49.00	liability premium	
	÷	500	feeder cattle	
	<u>÷</u> =	\$0.10	/feeder/year	
		ψ0.10	//ocdo//your	
Total	=	\$1.80	/feeder	
2.08 Manure Re	mova	al		
		\$7,000	removal cost	
	<u>÷</u> =	<u>500</u>	feeder cattle	
	=	\$14.00	/feeder	
2.09 Barn & Off	ice S	upplies		
		\$900.00	total barn expenses	
	<u>÷</u> =	<u>500</u>	feeder cattle	
	=	\$1.80	/feeder	
2.10 Death Los	S			
		\$2,294.30	feeder cattle cost	
	+	\$3,211.83	maximum value	
	-	\$122.17	marketing costs	
	÷	2.00	average value	
	<u>X</u>	<u>2.00</u>	% mortality rate	
	=	\$53.84	/feeder	
2.11 Operating	Inter			
		\$2,294.30	feeder cost	
	+	\$458.77	½ of feed & other costs	
	Χ	9.00	% operating interest	
	Χ	231.00	days on feed	
	÷	<u>365.00</u>	<u>365 days</u>	
	=	\$156.81	/feeder	

Capital Costs

Buildings,Corrals			
& Water System			
Windbreak fence		\$7,350	
Pens		\$4,540	
Handling Facilities		\$7,500	
Waterers		\$6,000	
Gates		\$2,000	
Bunk Feeders		\$25,000	
Well & Pressure Sys	tem	\$8,000	
Grain Bin		\$5,000	
Landscaping Total		<u>\$17,500</u> \$82,890	
lotai		φ0 2 ,090	
Machinery & Equipm	ent		
Tractor & Loader	•	\$70,000	
Miscellaneous		\$60,000	
Total		\$130,000	
T .4.1144		4040.000	
Total Investment		\$212,890	
B. Fixed Costs			
3. Depreciation	Original Cost - S	alvane Value	
o. Bepresidation	Useful		
3.01 Buildings			
•	\$82,890	original cost	
-	\$8,289	salvage value	
÷	20.00	years useful life	
主	<u>500</u>	feeder cattle	
=	\$7.46	/feeder	
202 Machinany 9 E	auinmant		
3.02 Machinery & E	\$130,000	original cost	
_	\$26,000	salvage value	
÷	10.00	years useful life	_
÷	500	feeder cattle	-
<u>÷</u> =	\$20.80	/feeder	-
4. Investment		<u>Salvage Value</u> x Inves [.] 2	tment Rate
4.01 Buildings	•	2	
4.01 Buildings	\$82,890	original cost	
+	\$8,289	salvage value	
÷	2.00	average	
x	4.00	% investment rate	
<u>÷</u>	<u>500</u>	feeder cattle	
=	\$3.65	/feeder	
4.02 Machinery & E			
	\$130,000	original cost	
+	\$26,000	salvage value	
÷	2.00	average	
X	4.00 500	% investment rate	
<u>÷</u> =	\$6.24	feeder cattle /feeder	
-	Ψ0.24	riceuei	
C. Labour			
	2.00	hours/feeder/year	
<u>X</u>	\$27.00	/hour	
=	\$54.00	/feeder	
			· ·

Breakeven Calculations				
Cost per lb of gain sold	4000 74		Your Farm	
Feed Costs	\$692.74	feed cost		
<u> </u>	680.00	weight gain (lb)		
=	\$1.02	/lb		
Operating Costs	\$3,422.48	operating costs		
-	\$2,275.00	feeder cost		
<u> </u>	680.00	weight gain (lb)		
ੂ	\$1.69	/lb		
Operating 8 Labour Costs		operating 9 Jahour		
Operating & Labour Costs	\$3,476.48 \$2,275.00	operating & labour feeder cost		
- -	φ2,275.00 <u>680.00</u>			
<u> </u>	\$1.77	weight gain (lb) / lb		
_	Φ1.77	/ID		
Total Operating & Fixed	\$3,460.63	operating & fixed		
-	\$2,275.00	feeder cost		
<u> </u>	680.00	weight gain (lb)		
=	\$1.74	/lb		
Total Costs	\$3,514.63	total		
Total Costs	\$3,314.03			
- -	680.00			
<u> </u>	\$1.82	/lb		
Breakeven selling price	Ψ1.02	710		
Operating Costs	\$3,422.48	operating costs		
. <u>÷</u>	1,330.00	lbs shrunk weight		
=	\$2.57	/lb		
Operating 9 Labour	¢2 /76 /0	operating 9 labour seets		
Operating & Labour	\$3,476.48	operating & labour costs		
<u> </u>	<u>1,330.00</u> \$2.61	lbs shrunk weight		
-	\$2. 0 I	/lb		
Operating & Fixed	\$3,460.63	operating & fixed costs		
. <u> </u>	1,330.00	lbs shrunk weight		
=	\$2.60	/lb		
Total Costs	\$3,514.63	total costs		
<u> </u>	<u>1,330.00</u>	lbs shrunk weight		
=	\$2.64	/lb		

1,330.00 lbs shrunk weight	Breakeven purchase price			
Signature Sign	Operating Costs		1,330.00	lbs shrunk weight
- \$1,147.48 operating less feeder cost		Χ	\$248.00	\$/cwt selling price
### 650.00 lbs purchase net weight ### \$3.31		=	\$3,298.40	income
Sample		-	\$1,147.48	operating less feeder cost
Sample S		÷	650.00	lbs purchase net weight
X			\$3.31	/lb
X	Operating & Labour		1,330.00	lbs shrunk weight
= \$3,298.40 income - \$1,201.48 op & labour less feeder cost	, 5	Х	,	
		=	\$3,298.40	9.
Sample S		-	\$1,201.48	op & labour less feeder cost
Sample		÷	650.00	lbs purchase weight
x \$248.00 \$/cwt selling price = \$3,298.40 income - \$1,185.63 op & fixed less feeder cost - 650.00 lbs purchase weight = \$3.25 /lb Total Costs 1,330.00 lbs shrunk weight x \$248.00 \$/cwt selling price = \$3,298.40 income - \$1,239.63 total less feeder cost - 650.00 lbs purchase weight			\$3.23	
x \$248.00 \$/cwt selling price = \$3,298.40 income - \$1,185.63 op & fixed less feeder cost - 650.00 lbs purchase weight = \$3.25 /lb Total Costs 1,330.00 lbs shrunk weight x \$248.00 \$/cwt selling price = \$3,298.40 income - \$1,239.63 total less feeder cost - 650.00 lbs purchase weight	Operating & Fixed		1,330.00	lbs shrunk weight
= \$3,298.40 income - \$1,185.63 op & fixed less feeder cost - 650.00 lbs purchase weight - \$3.25 /lb Total Costs 1,330.00 lbs shrunk weight x \$248.00 \$/cwt selling price = \$3,298.40 income - \$1,239.63 total less feeder cost - 650.00 lbs purchase weight	, 5	Х	•	
- \$1,185.63 op & fixed less feeder cost - 650.00 lbs purchase weight - \$3.25 /lb Total Costs 1,330.00 lbs shrunk weight x \$248.00 \$/cwt selling price = \$3,298.40 income - \$1,239.63 total less feeder cost - \$650.00 lbs purchase weight		=	\$3,298.40	
= \$3.25 /lb Total Costs 1,330.00 lbs shrunk weight x \$248.00 \$/cwt selling price = \$3,298.40 income - \$1,239.63 total less feeder cost ÷ 650.00 lbs purchase weight		-		op & fixed less feeder cost
= \$3.25 /lb Total Costs 1,330.00 lbs shrunk weight x \$248.00 \$/cwt selling price = \$3,298.40 income - \$1,239.63 total less feeder cost ÷ 650.00 lbs purchase weight		÷	650.00	lbs purchase weight
x \$248.00 \$/cwt selling price = \$3,298.40 income - \$1,239.63 total less feeder cost ÷ 650.00 lbs purchase weight			\$3.25	
x \$248.00 \$/cwt selling price = \$3,298.40 income - \$1,239.63 total less feeder cost ÷ 650.00 lbs purchase weight	Total Costs		1.330.00	lbs shrunk weight
= \$3,298.40 income - \$1,239.63 total less feeder cost - 650.00 lbs purchase weight	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Х	•	<u> </u>
- \$1,239.63 total less feeder cost ÷ 650.00 lbs purchase weight			· ·	<u></u>
<u>÷ 650.00</u> <u>lbs purchase weight</u>		_		total less feeder cost
		÷		

Profitability and Breakeven Analysis:

Gross Revenue = Shrunk weight (lbs) x $\frac{1330 \times 2.48}{b} = 3298.40$ Return on Investment (ROI) = (Gross Revenue - Total Cost) / Total Cost

(eg. (\$3298.40 - \$3514.63) / \$3514.63 = -6.2%

Return on Asset (ROA) = (Margin Over Operating - Labour - Building Depreciation - Machinery Depreciation) / (Building, Machinery & Equipment Investment / Herd Size)

(eg. (\$-124.08 - \$54.00 - \$7.46 - \$20.80) / (\$212,890 /) = -48.5%

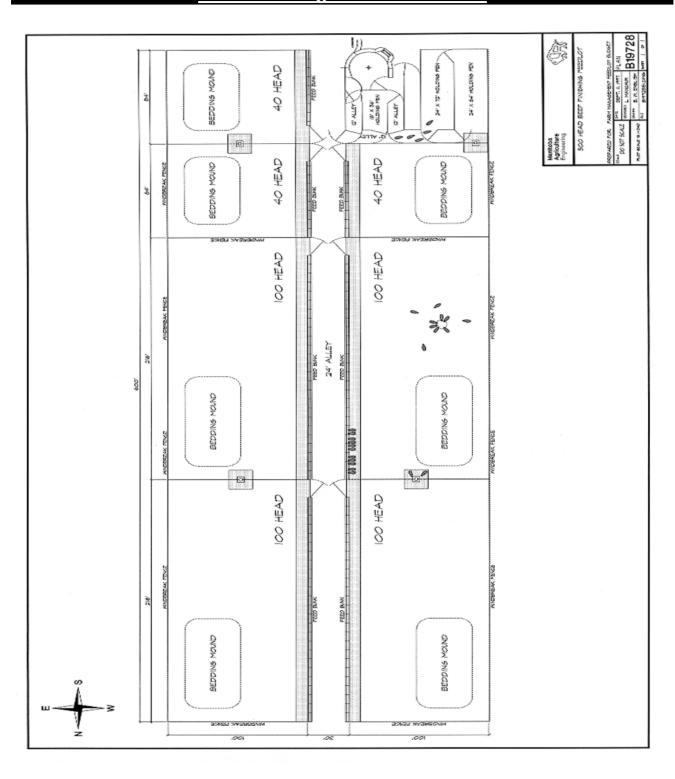
September, 2023

Contact Us

For more information, contact a Farm Management Specialist.

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

Beef Finishing Feedlot 500 Head



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