

# Guidelines for Estimating Lamb Production Costs 2017







### **Guidelines for Estimating**

### **Lamb Production Costs**

Based on a 500-Ewe Flock

May, 2017

This guide is designed to provide you with planning information and a format for calculating costs of production of a ewe lamb 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.

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, and livestock are on a flock health program.

This tool is available as an Excel worksheet at:
or at your local Manitoba Agriculture GO Office.

The Farm Machinery Custom and Rental Rate Guide
determine machinery costs.

www.manitoba.ca/agriculture
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 your local Manitoba Agriculture GO Office.

Lamb Production Cost Summary - May, 2017					
Based on 5	00 Ewes -	Marketing 8	94 Lambs		
		\$/Lamb			
A. Operating Costs	<u>\$/Ewe</u>	<u>Marketed</u>	<u>\$/Ib</u>	<b>Total Cost</b>	Your Cost
1. Feed Costs					
1.01 Ewe Ration	\$41.10	\$22.99	\$0.22	\$20,550	
1.02 Ram Ration	\$1.24	\$0.69	\$0.01	\$620	
1.03 Lamb Ration	\$60.38	\$33.77	\$0.32	\$30,190	
1.04 Salt-Mineral Mix	<u>\$18.42</u>	<u>\$10.30</u>	<u>\$0.10</u>	\$9,210	
Total Feed Cost	\$121.14	\$67.75	\$0.65	\$60,570	
2. Other Operating Costs	<b>04544</b>	Ф0.00	Φο οο	<b>#7.70</b> 5	
2.01 Straw	\$15.41	\$8.62	\$0.08	\$7,705	
2.02 Vet Medicine and Supplies	\$14.38	\$8.04	\$0.08	\$7,190 \$4,225	-
<ul><li>2.03 Fuel, Maintenance &amp;Repairs</li><li>2.04 Hydro, Water and Telephone</li></ul>	\$8.45 \$2.39	\$4.73 \$1.34	\$0.04 \$0.01	\$4,225 \$1,105	-
2.04 Hydro, Water and Telephone 2.05 Death Loss	\$2.39 \$6.99	\$1.3 <del>4</del> \$3.91	\$0.01 \$0.04	\$1,195 \$3,497	
2.06 Insurance	\$0.99 \$2.93	\$3.91 \$1.64	\$0.04 \$0.02	\$3,497 \$1,465	-
2.07 Flock Replacement	\$19.98	\$1.04 \$11.17	\$0.02 \$0.10	\$1, <del>4</del> 03 \$9,990	
2.08 Marketing & Transportation	\$22.83	\$11.17 \$12.77	\$0.10	\$11,413	-
2.09 Shearing Costs	\$5.26	\$2.94	\$0.03	\$2,630	-
2.10 Predator Control	\$1.63	\$0.91	\$0.03	\$813	
2.11 Professional Fees	\$0.70	\$0.39	\$0.00	\$350	
2.12 Manure Removal	\$4.68	\$2.62	\$0.02	\$2,340	
2.13 Miscellaneous	\$1.00	\$0.56	\$0.01	\$ <u>500</u>	
Subtotal Operating Costs	\$227.76	\$127.39	\$1.21	\$113,883	•
2.14 Operating Interest	\$5.12	\$2.86	\$0.0 <u>3</u>	\$2,560	
Total Operating Costs	\$232.88	\$1 <del>30.25</del>	\$1.24	\$1 <mark>16,443</mark>	
D. Fire I Ocean				,	
B. Fixed Costs					
3. Depreciation	<b>CO 04</b>	<b>ФГ</b> Г <b>/</b>	<u></u>	<b>64.055</b>	
3.01 Buildings	\$9.91	\$5.54	\$0.05	\$4,955	-
3.02 Equipment & Improvements 4. Investment	\$9.80	\$5.48	\$0.05	\$4,900	-
	<b>\$4.00</b>	<b>የ</b> ጋ ጋር	ድስ ሰን	<b>ድ</b> ጋ 040	
4.01 Buildings	\$4.02 \$1.55	\$2.25 \$0.87	\$0.02 \$0.01	\$2,010 \$775	
4.02 Equipment & Improvements 4.03 Breeding Flock	\$1.55 \$5.24	\$2.93	\$0.01	\$775 \$2,621	
5. Pasture Costs	\$3.24 \$3.86	\$2.93 \$2.16	\$0.03 \$0.02	\$2,021 \$1,932	
Total Fixed Costs	\$34.39	\$19.23	\$0.02	\$17,193	-
		·		•	
Total Operating and Fixed Costs	\$267.27	\$149.48	\$1.42	\$133,636	
C. Labour	\$45.00	\$25.17	\$0.24	\$22,500	
Total Cost of Production	\$312.27	\$174.65	\$1.66	\$156,136	
Profita	ability and B	reakeven Anal	ysis		
Estimated Farmgate	\$/Ewe	\$/Lamb		Total	
Price (\$ per cwt)		<u>\$20</u> 0			
Market Weight (shrunk lbs.)		107		\$190,780	
Wool Value	<u>\$3.85</u>	<b>\$2.15</b>		<b>\$1,924</b>	
Gross Revenue	\$385.41	\$215.55		\$192,704	
Marginal Returns					
Over Operating Costs	\$152.52	\$85.30		\$76,261	
Over Operating & Labour Costs	\$107.52	\$60.13		\$53,761	
Over Operating & Fixed Costs	\$118.14	\$66.07		\$59,068	
Over Total Costs (Net Profit)	\$73.14	\$40.90		\$36,568	
Operating Expense Ratio	60.4%	60.4%			
Breakeven Selling Price		\$/cwt			
Operating Costs		\$120.05			
Operating & Labour Costs		\$143.64			
Operating & Fixed Costs		\$138.08			
Operating, Fixed & Labour Costs		\$161.67			

**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.

\$161.67

Operating, Fixed & Labour Costs

# Risk & Sensitivity Analysis

	Per Ewe	Per Lamb
A. Operating Costs	\$232.88	\$130.25
B. Fixed Costs	\$34.39	\$19.23
C. Labour	\$45.00	\$25.17
Total Costs	\$312.27	\$174.65

### **Estimated Farmgate**

Lamb Price (\$ per cwt)	\$200
Lamb Crop %	190
Lamb Market Weight (shrunk lbs)	107

	Up	Down
Percent Lamb Price Variation	5%	15%
Percent Lamb Crop Variation	20%	20%
Percent Lamb Weight Variation	5%	0%

Higher Price (\$ per cwt)	\$210.00		
Lower Price (\$ per cwt)	\$170.00		
Higher Lamb Crop %	210	=	988 Lambs Marketed
Lower Lamb Crop %	170	=	800 Lambs Marketed
<b>Higher Lamb Weight</b>	112.0		
<b>Lower Lamb Weight</b>	106.7		

### Higher Margin Scenario - Price Up 5%, Lamb Crop Up 20% and Lamb Weight Up 5%

	Per Ewe	Per Lamb
Gross Revenue	\$468.60	\$237.15
Marginal Returns		
Over Operating Costs	\$235.72	\$119.29
Over Operating & Labour Costs	\$190.72	\$96.52
Over Operating & Fixed Costs	\$201.33	\$101.89
Over Total Costs (Net Profit)	\$156.33	\$79.12
Operating Expense Ratio	49.7%	

### Lower Margin Scenario - Price Down 15%, Lamb Crop Down 20% and Lamb Weight Down 0%

	Per Ewe	Per Lamb
Gross Revenue	\$294.07	\$183.80
Marginal Returns		
Over Operating Costs	\$61.19	\$38.24
Over Operating & Labour Costs	\$16.19	\$10.12
Over Operating & Fixed Costs	\$26.80	\$16.75
Over Total Costs (Net Profit)	(\$18.20)	(\$11.37)
Operating Expense Ratio	79.2%	

**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.

# **Lamb Production Costs - Input**

- 1. This budget outlines the cost of production for a sheep enterprise.
- 2. Buildings and equipment are valued at new cost.
- 3. All feed is valued at fair market value.
- 4. Replacements are purchased at fair market value.

Flock Profile	<u>Total</u>
Number of Ewes (Avg 170 lbs)	500
Number of Rams (Avg 200 lbs)	13
Lamb Crop (born alive) %	190
Ewe and Ram Mortality Rate (%)	3
Ewe Cull Rate (%)	15
Lamb Mortality Rate - Pre-Weaning %	4
Lamb Mortality Rate - Post-Weaning %	2
Lambs Marketed	894
Lambs per Ewe to Market	1.79
Average Lamb Market Weight (lbs)	110
Shrink	3%
Shrunk Weight (lbs)	106.70
Average Lamb Market Price (\$ per cwt)	\$200
Average Wool Production per animal (lbs)	5
Average Value of Wool (\$/lb)	\$0.75

# **Feed Requirements and Costs**

			Amount	Cost
Ewe Feeding	<u>  Period</u>	Feed type	<u>lbs/day</u>	\$/tonne
October 1-No	ovember 1 (off pa	sture and flushed for	breeding)	
Days	30	Grass hay	2.8	\$85.00
	30	Barley	0.6	\$3.25
November 1-	March 1 (early to	mid gestation)		
Days	115	Grass hay	4.1	\$85.00
	115	Barley	0	\$3.25
March 1-Apri	il 1 (late gestatior	n)		
Days	30	Grass/alfalfa hay	3.6	\$100.00
	30	Barley	0.9	\$3.25
	30	Canola Meal	0.2	\$325.00
April 1-June	1 (lactation)			
Days	<b>60</b>	Alfalfa	4.2	\$120.00
	60	Barley	1.3	\$3.25
			Amount	Cost
Ram Feeding	n Period	Feed type	lbs/day	\$/tonne
October 1- J			<u></u>	<u> </u>
Days	240	Barley	0.75	\$3.25
-	240	Grass hay	5.1	\$85.00

<u>Lamb</u>			Amount <u>lbs/day</u>	Cost \$/tonne
Pre-wea	ning			
Days	<b>50</b>	Creep	0.5	\$245.00
	<b>50</b>	Hay	0.5	\$120.00
Weaning	•			
Days	30	Creep/grower	1	\$195.00
	30	Hay	1	\$120.00
Finishin	_			
Days	100	Finisher	2.5	\$150.00
	100	Hay	1.5	\$120.00
			Amount	Price
Salt-Min	neral- vitamin Mi	Y	Fed (lbs)	\$/Ib
	65 days @ 0.06lk		22	\$0.65
•	65 days @ 0.06lb	• /	22	<b>\$0.65</b>
•	included in pre-m	• •	6	\$0.35
Lambs (	incidaed in pre-in	iixed iations)	·	ψ0.55
Strow D	a ddin a	Other Ope	rating Costs	
Straw B	•			0.20
tonnes/ ewe tonnes/lamb				0.20
tonnes/ ram			0.10	
cost/tonne			\$40.00	
0031/1	onne			Ψ+0.00
	ary Medicine & S	Supplies		
Medicati	on			
Lamb	ala and Palate	al a facility of the contract	. ) @ # #0 50	<b>#0.07</b>
	•	shots 4cc then 2cc booste	er) @ \$.\$0.58/	\$0.87
	internal parasiti	` '		\$0.53
	injectable vitam	ins		\$0.20
	RFID tag			\$4.50
_	miscellaneous			\$0.50
Ewe	ala are Palifa a	- II - (A) (A) (A) (A)		<b>#0.00</b>
	,	ially @ \$.29/shot)		\$0.29
		nadenitis (annually@\$.26	/snot)	\$0.26
	internal parasiti	, ,		\$1.06
	injected vitamin	S		\$0.40
5	miscellaneous			\$0.50
Ram	1 (2.2.17	-II @ <b>(</b> ) 00/ I ()		<b>#</b> 2.25
	•	ially @ \$.26/shot)	/ L - A	\$0.29
		nadenitis (annually@\$.26	/snot)	\$0.26
	internal parasiti	` '		\$1.06
	injected vitamin	S		\$0.40
miscellaneous		\$0.50		

Professional Services Total Yearly Hours Charge per Hour Total Kilometers (rour Charge per km Number of yearly visit	.,		2 \$141.00 80 \$0.85 1	
Fuel, Maintenance & Repairs			to of /lites	
Diesel Fuel Costs	dina		<b>\$0.85</b> /litre	
<ul> <li>a) Machinery Fuel Costs - Fee</li> <li>Tractor with Loader P</li> </ul>	•		120	
Tractor Hours Per Day	•		1.0 hours	
b) Machinery Repair (% of inv	restment cost)		1.5 %	
c) Building maintenance (% o	of investment cost)		<b>1.0</b> %	
Utilities				
Hydro	15 kWh per ew	e @	<b>\$0.0793</b> / kWh	
Water	13 KWII pei ew	C @	\$0 \$0	
Telephone			\$600	
·			•	
Marketing & Transportation				
Custom Trucking	per lamb		<b>\$6.25</b>	
Marketing Charges Commission	\$ 6.00			
Insurance - Manitoba	\$ 6.00 \$ 0.50			
Feed on arrival/day	\$ -			
r ood on annvar ady	per lamb		\$6.50	
	•		·	
Daylanamant Casta		<b>6</b> /1		
Replacement Costs		<u>\$/cwt</u>	4E 00/	
Ewe replacement rate  Ewe replacement cost			15.0% \$220.00	
Ewe replacement cost  Ewe cull value	<b>170</b> lbs	\$60	\$102.00	
Ram replacement rate	110 100	ΨΟΟ	25.0%	
Ram replacement cost			\$500.00	
Ram cull value	<b>200</b> lbs	<b>\$60</b>	\$120.00	
Predator Control				
Stock dog			\$750.00 / each	
Guard dogs (2 required) Years			<b>\$250.00</b> / each	
Annual maintenance costs	(feed vet etc.)		4 \$500.00	
Allindal maintenance costs	(100d, voi, cio.)		ψουσ.συ	
Manure Removal				
Manure volume prod	duced		<b>0.00171</b> m <sup>3</sup> /ewe/da	ау
Manure volume prod	duced		<b>0.060</b> ft <sup>3</sup> /ewe/da	ıy
Manure & bedding v	olume shrinkage		<b>80</b> %	
Cost for manure ren	noval & application		<b>\$10.00</b> /cubic yar	d
Insurance				
Cost per \$100 Capital Invested	d in		¢0.45	
<ul><li>a). Livestock</li><li>b). Building &amp; Equipment</li></ul>			\$0.45 \$0.40	
Add'l Coverage for liability (\$/y	vear)		\$49.00	
, aa i συνσιαθο τοι παριπτή (ψ/)	July		<del>ψ-</del> υιυυ	

Shearing Costs	
Ewe shearing cost (\$/head)	\$5.00
Ram shearing cost (\$/head)	\$10.00
Miscellaneous	
Total yearly office expenses	\$500.00

Interest

Investment Rate (%)

Operating Loan (%)

2.25%

4.50%

### **CAPITAL INVESTMENT**

		Useful	Salvage
Buildings	<u>Value</u>	<u>Life</u>	<u>Value</u>
Pole Barn (36' x 144') with			
Lambing/Shearing room (24' x 36')	\$150,000	30	10.0%
Wintering Lots	\$5,700	30	0.0%
Well	<u>\$8,000</u>	30	0.0%
Total Building Cost	\$163,700		
Equipment & Improvements			
Water System (2 waterers & installation)	\$3,000	10	10.0%
Miscellaneous Machinery & Equipment:	\$5,000	10	20.0%
Tractor & Loader -allocated to sheep	\$36,000	10	20.0%
Truck - allocated to sheep	<u>\$15,000</u>	10	10.0%
Total Equipment & Improvements	\$59,000		
Total Buildings & Equipment Investment	\$222,700		
Breeding Flock			
Value of Ewes	\$110,000		
Value of Rams	\$6,500		
Total Breeding Flock Investment	\$116,500		
Land Investment			
Acres required	80		
Value per acre (Marginal pasture land)	<b>\$625</b>		
Total Land Investment	\$50,000	Useful	Salvage
Land Taxes (per acre)	\$2.00	<u>Life</u>	<u>Value</u>
Fence 7 strand electric (miles)	2	20	0.0%
Fence cost (per mile)	\$5,280		
Total Fence Cost	<u>\$10,560</u>		
Total Land & Fence Investment	\$60,560		
Total Capital Investment	\$399,760		
Labour Hours per ewe	2.25 \$20.00		
Rate per hour	<b>ֆ∠∪.UU</b>		

# **Assumptions**

- 1. This budget outlines the cost of production for a sheep enterprise.
- 2. Buildings and equipment are valued at new cost.
- 3. All feed is valued at fair market value.

**Ewes** 

4. Replacements are purchased at fair market value.

replacement	o aro pa	ironadoa at iaii markot v		
	L	amb Production Co	sts Worksheet	
Flock Profile				
Flock Profile  Number of Ewes				500
Number of Rams				13
Lamb Crop (borr		%		190
Ewe Mortality Ra	,	70		3
Lamb Mortality F	` '	re-Weaning %		4
Lamb Mortality F		•		2
Lambs Marketed	t	•		894
Average Lamb N	/larket V	Veight (lb)		106.7
Average Wool P	roduction	on per animal (lb)		5
Average Value o	of Wool	(\$/lb)		\$0.75
		Feed Requirement	ts and Costs	
			Amount	Cost
Ewe Feeding Po		Feed type	<u>lbs/day</u>	<u>\$/tonne</u>
October 1-Nove		<b>`</b>	<b>.</b>	
Days	30	Grass hay	2.8	\$85.00
Nissanal and Ma	1	Barley	0.6	\$3.25
		(early to mid gestation)		<b>POE 00</b>
Days	115 115	Grass hay	4.1 0.0	\$85.00 \$3.25
March 1-April 1		Barley gestation)	0.0	φ3.23
Days	30	Grass/alfalfa hay	3.6	\$100.00
Dayo	30	Barley	0.9	\$3.25
	30	Canola Meal	0.2	\$325.00
April 1-June 1	(lactation	on)		·
Days	60	Alfalfa	4.2	\$120.00
	60	Barley	1.3	\$3.25
			Amount	Cost
Ram Feeding P	<u>eriod</u>	Feed type	<u>lbs/day</u>	<u>\$/tonne</u>
October 1- June	e 1			
Days	240	Barley	0.75	\$3.25
	240	Grass hay	5.1	\$85.00
<u>Lamb</u>				
Pre-weaning				
Days	50	Creep	0.5	\$245.00
	50	Hay	0.5	\$120.00
Weaning				
Days	30	Creep/grower	1	\$195.00
	30	Hay	1	\$120.00
Finishing	400	Finish	0.5	<b>0450.00</b>
Days	100	Finisher	2.5	\$150.00 \$130.00
	100	Hay	1.5	\$120.00
			Amount	Price
Salt-Mineral Mix	x		Fed (lbs)	\$/Ib
Ewos	<del></del>		22	<u>\$7.5</u> \$0.65

\$0.65

22

Rams Lambs (included in ra	tion)		22 6	\$0.65 \$0.35
A. OPERATING COS  1. Feed Costs  1.01 Ewe Flushing R Barley				Your Cost
Barrey		30	days per year	
	X	0.6	lbs barley/day	
	Χ	\$3.25	/tonne barley	
	$\pm$	<u>2205</u>	<u>lbs/tonne</u>	
Onese have	=	\$0.03	/ewe	
Grass hay		20		
	Х	30 2.8	days/year lbs grass hay/day	
	X	\$85.00	/tonne grass hay	
	<del>*</del>	2205	lbs/tonne	
	=	\$3.24	/ewe	
1.02 Ewe Early to Mi	d Gestation	n Ration		
Barley		445	In all and	
	V	115 0	days/year	
	X X	\$3.25	lbs barley/day /tonne barley	
	<del>*</del>	2205	lbs/tonne	
	=	\$0.00	/ewe	
Grass hay				
		115	days/year	
	Χ	4.1	lbs grass hay/day	
	X	\$85.00	/tonne of grass hay	
	± =	2205 \$18.18	<u>lbs/tonne</u> /ewe	
	_	ψ10.10	/ewe	
1.03 Ewe Late Gesta	tion Ration			
Barley		30	days/year	
-	Χ	0.9	lbs barley/day	
	X	\$3.25	/tonne barley	
	<u>÷</u>	<u>2205</u>	<u>lbs/tonne</u>	
	=	\$0.04	/ewe	
Grass/alfalfa hay		30	days/year	
Grass/allalla flay	Х	3.6	lbs grass/alfalfa hay/day	
		\$100.00	/tonne of grass/alfalfa hay	
	÷	2205	<u>lbs/tonne</u>	
	=	\$4.90	/ewe	
Canola Meal		30	days/year	
	X	0.2	lbs canola meal/day	
		325.00	/tonne of alfalfa hay lbs/tonne	
	± =	<u>2205</u> \$0.88	/ewe	
1.04 Ewe Lactation I	_ Ration	Ψ0.00	, O V V O	
Barley	-	60	days/year	
-	X	1.3	lbs barley/day	
	Х	\$3.25	/tonne barley	
	$\dot{\Xi}$	2205	<u>lbs/tonne</u>	
	=	\$0.11	/ewe	

Alfalfa	x x ± =	60 4.2 \$120.00 <u>2205</u> \$13.72	days/year lbs alfalfa hay/day /tonne of alfalfa hay <u>lbs/tonne</u> /ewe	
Total	=	\$41.10	/ewe	
1.05 Ram Ration Barley				
		240	days/year	
	Χ	0.75	lbs barley/ram/day	
	Χ	\$3.25	/tonne barley	
	÷	<u>2205</u>	<u>lbs/tonne</u>	
	=	\$0.27	/ram	
	X	13	rams	
	± =	<u>500</u> \$0.01	<u>ewes</u> /ewe	
Grass hay	_	φ0.01	/ewe	
Grass riay		240	days/year	
	Х	5.1	lbs alfalfa brome/ram/day	
	X	\$85.00	/tonne alfalfa brome	
	±	<u>2205</u>	<u>lbs/tonne</u>	
	=	\$47.19	<del>/ram</del>	
	Χ	13	rams	
	÷	<u>500</u>	<u>ewes</u>	
	=	\$1.23	/ewe	
Total	=	\$1.24	/ewe	
1 06 Lamb Bation				
1.06 Lamb Ration		50	dovelvoor	
<b>1.06 Lamb Ration</b> Pre Weaning Ration		50 0.5	days/year	
	Y	0.5	lbs creep feed/lamb/day	
	X X	0.5 912	lbs creep feed/lamb/day lambs weaned	
	X	0.5 912 \$245.00	lbs creep feed/lamb/day lambs weaned / tonne commercial feed cost	
	x ÷	0.5 912 \$245.00 <u>2205</u>	lbs creep feed/lamb/day lambs weaned	
	X	0.5 912 \$245.00	Ibs creep feed/lamb/day lambs weaned / tonne commercial feed cost lbs/tonne	
	x ÷ ÷	0.5 912 \$245.00 <u>2205</u> <u>500</u>	Ibs creep feed/lamb/day lambs weaned / tonne commercial feed cost lbs/tonne ewes	
	x ÷ =	0.5 912 \$245.00 <u>2205</u> 500 \$5.07	Ibs creep feed/lamb/day lambs weaned / tonne commercial feed cost lbs/tonne ewes /ewe days/year	
Pre Weaning Ration	X ÷ ± =	0.5 912 \$245.00 <u>2205</u> <u>500</u> \$5.07	Ibs creep feed/lamb/day lambs weaned / tonne commercial feed cost lbs/tonne ewes /ewe days/year lbs hay/day	
Pre Weaning Ration	x ÷ = x	0.5 912 \$245.00 <u>2205</u> 500 \$5.07 50 0.5 912	Ibs creep feed/lamb/day lambs weaned / tonne commercial feed cost lbs/tonne ewes /ewe days/year lbs hay/day lambs weaned	
Pre Weaning Ration	x ÷ = x x	0.5 912 \$245.00 <u>2205</u> <u>500</u> \$5.07 50 0.5 912 \$120.00	Ibs creep feed/lamb/day lambs weaned / tonne commercial feed cost lbs/tonne ewes /ewe  days/year lbs hay/day lambs weaned /tonne of hay	
Pre Weaning Ration	x ÷ = x x x	0.5 912 \$245.00 <u>2205</u> 500 \$5.07 50 0.5 912 \$120.00 <u>2205</u>	Ibs creep feed/lamb/day lambs weaned / tonne commercial feed cost lbs/tonne ewes /ewe  days/year lbs hay/day lambs weaned /tonne of hay lbs/tonne	
Pre Weaning Ration	x ÷ = x x x ÷	0.5 912 \$245.00 <u>2205</u> <u>500</u> \$5.07 50 0.5 912 \$120.00 <u>2205</u> <u>500</u>	Ibs creep feed/lamb/day lambs weaned / tonne commercial feed cost lbs/tonne ewes /ewe  days/year lbs hay/day lambs weaned /tonne of hay lbs/tonne ewes	
Pre Weaning Ration	x ÷ = x x x	0.5 912 \$245.00 <u>2205</u> 500 \$5.07 50 0.5 912 \$120.00 <u>2205</u>	Ibs creep feed/lamb/day lambs weaned / tonne commercial feed cost lbs/tonne ewes /ewe  days/year lbs hay/day lambs weaned /tonne of hay lbs/tonne	
Pre Weaning Ration  Pre Weaning Forage	x ÷ = x x x ÷	0.5 912 \$245.00 <u>2205</u> <u>500</u> \$5.07 50 0.5 912 \$120.00 <u>2205</u> <u>500</u>	Ibs creep feed/lamb/day lambs weaned / tonne commercial feed cost lbs/tonne ewes /ewe  days/year lbs hay/day lambs weaned /tonne of hay lbs/tonne ewes /ewe	
Pre Weaning Ration	x ÷ = x x x ÷	0.5 912 \$245.00 <u>2205</u> <u>500</u> \$5.07 50 0.5 912 \$120.00 <u>2205</u> <u>500</u> \$2.48	Ibs creep feed/lamb/day lambs weaned / tonne commercial feed cost lbs/tonne ewes /ewe  days/year lbs hay/day lambs weaned /tonne of hay lbs/tonne ewes /ewe  days/year	
Pre Weaning Ration  Pre Weaning Forage	x ÷ = x x x ÷	0.5 912 \$245.00 <u>2205</u> <u>500</u> \$5.07 50 0.5 912 \$120.00 <u>2205</u> 500 \$2.48	Ibs creep feed/lamb/day lambs weaned / tonne commercial feed cost lbs/tonne ewes /ewe  days/year lbs hay/day lambs weaned /tonne of hay lbs/tonne ewes /ewe	
Pre Weaning Ration  Pre Weaning Forage	x : : : = : : : : = : : : : : : : : : :	0.5 912 \$245.00 2205 500 \$5.07 50 0.5 912 \$120.00 2205 500 \$2.48	Ibs creep feed/lamb/day lambs weaned / tonne commercial feed cost lbs/tonne ewes /ewe  days/year lbs hay/day lambs weaned /tonne of hay lbs/tonne ewes /ewe  days/year lbs creep feed/lamb/day	
Pre Weaning Ration  Pre Weaning Forage	x : : : = x x x : : : = x	0.5 912 \$245.00 2205 500 \$5.07 50 0.5 912 \$120.00 2205 500 \$2.48 30 1 912 \$195.00 2205	Ibs creep feed/lamb/day lambs weaned / tonne commercial feed cost lbs/tonne ewes /ewe  days/year lbs hay/day lambs weaned /tonne of hay lbs/tonne ewes /ewe  days/year lbs creep feed/lamb/day lambs weaned	
Pre Weaning Ration  Pre Weaning Forage	x : : : : : : : : : : : : : : : : : : :	0.5 912 \$245.00 2205 500 \$5.07 50 0.5 912 \$120.00 2205 500 \$2.48 30 1 912 \$195.00 2205 500	Ibs creep feed/lamb/day lambs weaned / tonne commercial feed cost lbs/tonne ewes /ewe  days/year lbs hay/day lambs weaned /tonne of hay lbs/tonne ewes /ewe  days/year lbs creep feed/lamb/day lambs weaned / tonne commercial feed cost lbs/tonne ewes	
Pre Weaning Ration  Pre Weaning Forage	x : : : = x x x : : : = x x x : : : = x x x : : : :	0.5 912 \$245.00 2205 500 \$5.07 50 0.5 912 \$120.00 2205 500 \$2.48 30 1 912 \$195.00 2205	Ibs creep feed/lamb/day lambs weaned / tonne commercial feed cost lbs/tonne ewes /ewe days/year lbs hay/day lambs weaned /tonne of hay lbs/tonne ewes /ewe days/year lbs creep feed/lamb/day lambs weaned / tonne commercial feed cost lbs/tonne	
Pre Weaning Forage Weaning Ration	x : : : = x x x : : : : : : : : : : : :	0.5 912 \$245.00 2205 500 \$5.07 50 0.5 912 \$120.00 2205 500 \$2.48 30 1 912 \$195.00 2205 500 \$4.84	Ibs creep feed/lamb/day lambs weaned / tonne commercial feed cost lbs/tonne ewes /ewe days/year lbs hay/day lambs weaned /tonne of hay lbs/tonne ewes /ewe days/year lbs creep feed/lamb/day lambs weaned / tonne commercial feed cost lbs/tonne ewes /ewe	
Pre Weaning Ration  Pre Weaning Forage	x : : : = x x x : : : : : : : : : : : :	0.5 912 \$245.00 2205 500 \$5.07 50 0.5 912 \$120.00 2205 500 \$2.48 30 1 912 \$195.00 2205 500	Ibs creep feed/lamb/day lambs weaned / tonne commercial feed cost lbs/tonne ewes /ewe  days/year lbs hay/day lambs weaned /tonne of hay lbs/tonne ewes /ewe  days/year lbs creep feed/lamb/day lambs weaned / tonne commercial feed cost lbs/tonne ewes	

	X	912	lambs weaned	
	Χ	\$120.00	/tonne of hay	
	÷	2205	lbs/tonne	
			ewes	
	÷	500		
	=	\$2.98	/ewe	
Finishing Ration		100	days/year	
		2.5	lbs creep feed/lamb/day	
	X	894	lambs weaned	
	Χ	\$150.00	/ tonne commercial feed cost	
	÷	2205	lbs/tonne	
	÷	<u>500</u>	ewes	
	=	\$30.41	/ewe	
Finishing Forage		100	days/year	
		1.5	lbs alfalfa hay/day	
	X	894	lambs weaned	
	Χ	\$120.00	/tonne of alfalfa hay	
	÷	2205	lbs/tonne	
	÷	<u>500</u>	ewes	
	=	\$14.60	/ewe	
Total	=	\$60.38	/ewe	
1.07 Salt-Mineral Mi	x			
Ewes		22	lbs salt-mineral/ewe/year	
21100	v	<u>\$0.65</u>	/ <u>lb</u>	
	<u>X</u>			
	=	\$14.30	/ewe	
		_		
Lambs		6	lbs salt-mineral/lamb/year	
Lambs (incl. in ration)	x	6 \$0.35	lbs salt-mineral/lamb/year /lb	
	X X		-	
	X	\$0.35 894	/lb lambs marketed	
	x ÷	\$0.35 894 <u>500</u>	/lb lambs marketed <u>ewes</u>	
	X	\$0.35 894	/lb lambs marketed	
(incl. in ration)	x ÷	\$0.35 894 <u>500</u> \$3.75	/lb lambs marketed <u>ewes</u> /ewe	
	X <u>÷</u> =	\$0.35 894 <u>500</u> \$3.75	/lb lambs marketed ewes /ewe lbs salt-mineral/ram/year	
(incl. in ration)	x ± =	\$0.35 894 500 \$3.75 22 \$0.65	/lb lambs marketed ewes /ewe lbs salt-mineral/ram/year /lb	
(incl. in ration)	x = x x	\$0.35 894 500 \$3.75 22 \$0.65 13	/lb lambs marketed ewes /ewe lbs salt-mineral/ram/year /lb rams	
(incl. in ration)	x ± =	\$0.35 894 500 \$3.75 22 \$0.65 13 500	/lb lambs marketed ewes /ewe lbs salt-mineral/ram/year /lb	
(incl. in ration)	x = x x	\$0.35 894 500 \$3.75 22 \$0.65 13	/lb lambs marketed ewes /ewe lbs salt-mineral/ram/year /lb rams	
(incl. in ration)	x = x x x	\$0.35 894 500 \$3.75 22 \$0.65 13 500	/lb lambs marketed ewes /ewe lbs salt-mineral/ram/year /lb rams ewes	
(incl. in ration) Rams	x = x x x	\$0.35 894 500 \$3.75 22 \$0.65 13 500 \$0.37	/lb lambs marketed ewes /ewe lbs salt-mineral/ram/year /lb rams ewes /ewe	
(incl. in ration)	x = x x x =	\$0.35 894 500 \$3.75 22 \$0.65 13 500	/lb lambs marketed ewes /ewe lbs salt-mineral/ram/year /lb rams ewes	
(incl. in ration)  Rams  Total	x = x x x =	\$0.35 894 500 \$3.75 22 \$0.65 13 500 \$0.37	/lb lambs marketed ewes /ewe lbs salt-mineral/ram/year /lb rams ewes /ewe	
(incl. in ration)  Rams  Total  2. Other Operating (	x = x x x =	\$0.35 894 500 \$3.75 22 \$0.65 13 500 \$0.37	/lb lambs marketed ewes /ewe lbs salt-mineral/ram/year /lb rams ewes /ewe	
(incl. in ration)  Rams  Total  2. Other Operating 0 2.01 Straw	x = x x x =	\$0.35 894 500 \$3.75 22 \$0.65 13 500 \$0.37	/lb lambs marketed ewes /ewe lbs salt-mineral/ram/year /lb rams ewes /ewe	
(incl. in ration)  Rams  Total  2. Other Operating (	x = x x x =	\$0.35 894 500 \$3.75 22 \$0.65 13 500 \$0.37 \$18.42	/lb lambs marketed ewes /ewe  lbs salt-mineral/ram/year /lb rams ewes /ewe /ewe	
(incl. in ration)  Rams  Total  2. Other Operating 0 2.01 Straw	x = x x x =	\$0.35 894 500 \$3.75 22 \$0.65 13 500 \$0.37	/lb lambs marketed ewes /ewe lbs salt-mineral/ram/year /lb rams ewes /ewe	
(incl. in ration)  Rams  Total  2. Other Operating 0 2.01 Straw	x = x x x = =	\$0.35 894 500 \$3.75 22 \$0.65 13 500 \$0.37 \$18.42	/lb lambs marketed ewes /ewe  lbs salt-mineral/ram/year /lb rams ewes /ewe /ewe	
(incl. in ration)  Rams  Total  2. Other Operating 0 2.01 Straw	x = x x x =	\$0.35 894 500 \$3.75 22 \$0.65 13 500 \$0.37 \$18.42	/lb lambs marketed ewes /ewe  lbs salt-mineral/ram/year /lb rams ewes /ewe  /ewe  tonnes/ewe/year	
(incl. in ration)  Rams  Total  2. Other Operating (2.01 Straw Ewes	x ± = x x ± = <b>=</b> Costs:	\$0.35 894 500 \$3.75 22 \$0.65 13 500 \$0.37 <b>\$18.42</b> 0.20 <u>\$40.00</u>	/lb lambs marketed ewes /ewe  lbs salt-mineral/ram/year /lb rams ewes /ewe  /ewe  tonnes/ewe/year /tonne	
(incl. in ration)  Rams  Total  2. Other Operating 0 2.01 Straw	x ± = x x ± = <b>=</b> Costs:	\$0.35 894 500 \$3.75 22 \$0.65 13 500 \$0.37 <b>\$18.42</b> 0.20 \$40.00 \$8.00	/lb lambs marketed ewes /ewe  lbs salt-mineral/ram/year /lb rams ewes /ewe  /ewe  tonnes/ewe/year /tonne /ewe	
(incl. in ration)  Rams  Total  2. Other Operating (2.01 Straw Ewes	x ± = x x x ± = <b>Costs:</b>	\$0.35 894 500 \$3.75 22 \$0.65 13 500 \$0.37 <b>\$18.42</b> 0.20 <u>\$40.00</u> \$8.00 0.10	/lb lambs marketed ewes /ewe  lbs salt-mineral/ram/year /lb rams ewes /ewe  /ewe  tonnes/ewe/year /tonne /ewe  tonnes/lamb/year	
(incl. in ration)  Rams  Total  2. Other Operating (2.01 Straw Ewes	x = x x = = Costs:	\$0.35 894 500 \$3.75 22 \$0.65 13 500 \$0.37 <b>\$18.42</b> 0.20 \$40.00 \$8.00 0.10 \$40.00	/lb lambs marketed ewes /ewe  lbs salt-mineral/ram/year /lb rams ewes /ewe  /ewe  tonnes/ewe/year /tonne /ewe  tonnes/lamb/year /tonne	
(incl. in ration)  Rams  Total  2. Other Operating (2.01 Straw Ewes	x ± = x x x ± = <b>Costs:</b>	\$0.35 894 500 \$3.75 22 \$0.65 13 500 \$0.37 <b>\$18.42</b> 0.20 \$40.00 \$8.00 0.10 \$40.00 894	/lb lambs marketed ewes /ewe  lbs salt-mineral/ram/year /lb rams ewes /ewe  /ewe  tonnes/ewe/year /tonne /ewe  tonnes/lamb/year /tonne lambs	
(incl. in ration)  Rams  Total  2. Other Operating (2.01 Straw Ewes	x = x x = = Costs:	\$0.35 894 500 \$3.75 22 \$0.65 13 500 \$0.37 <b>\$18.42</b> 0.20 \$40.00 \$8.00 0.10 \$40.00 894 500	/lb lambs marketed ewes /ewe  lbs salt-mineral/ram/year /lb rams ewes /ewe  /ewe  tonnes/ewe/year /tonne /ewe  tonnes/lamb/year /tonne lambs ewes ewes	
(incl. in ration)  Rams  Total  2. Other Operating (2.01 Straw Ewes  Lambs	x ± = x x x ± = <b>Costs:</b>	\$0.35 894 500 \$3.75 22 \$0.65 13 500 \$0.37 <b>\$18.42</b> 0.20 \$40.00 \$8.00 0.10 \$40.00 894	/lb lambs marketed ewes /ewe  lbs salt-mineral/ram/year /lb rams ewes /ewe  /ewe  tonnes/ewe/year /tonne /ewe  tonnes/lamb/year /tonne lambs	
(incl. in ration)  Rams  Total  2. Other Operating (2.01 Straw Ewes	x ± = x x x ± = <b>Costs:</b> X = x x	\$0.35 894 500 \$3.75 22 \$0.65 13 500 \$0.37 <b>\$18.42</b> 0.20 \$40.00 \$8.00 0.10 \$40.00 894 500	/lb lambs marketed ewes /ewe  lbs salt-mineral/ram/year /lb rams ewes /ewe  /ewe  tonnes/ewe/year /tonne /ewe  tonnes/lamb/year /tonne lambs ewes ewes	
(incl. in ration)  Rams  Total  2. Other Operating (2.01 Straw Ewes  Lambs	x ± = x x x ± = <b>Costs:</b> X = x x	\$0.35 894 500 \$3.75 22 \$0.65 13 500 \$0.37 <b>\$18.42</b> 0.20 \$40.00 \$8.00 0.10 \$40.00 894 500	/lb lambs marketed ewes /ewe  lbs salt-mineral/ram/year /lb rams ewes /ewe  /ewe  tonnes/ewe/year /tonne /ewe  tonnes/lamb/year /tonne lambs ewes ewes	
(incl. in ration)  Rams  Total  2. Other Operating (2.01 Straw Ewes  Lambs	x ± = x x x ± = <b>Costs:</b> X = x x	\$0.35 894 500 \$3.75 22 \$0.65 13 500 \$0.37 <b>\$18.42</b> 0.20 \$40.00 \$8.00 0.10 \$40.00 894 500 \$7.15	/lb lambs marketed ewes /ewe  lbs salt-mineral/ram/year /lb rams ewes /ewe  /ewe  tonnes/ewe/year /tonne /ewe  tonnes/lamb/year /tonne lambs ewes /ewe /ewe	

	Х	13	rams	
	<u>÷</u>	<u>500</u>	<u>ewes</u>	
	=	\$0.26	/ewe	
Total	=	\$15.41	/ewe	
2.02 Veterinary M	edicine	& Supplies		
Lamb Medication		• •		
		\$0.87	/lamb clostridial vaccine	
	+	\$0.53	/lamb internal parasiticide	
	+	\$0.20	/lamb injected vitamins	
	+	\$4.50	/RFID tag	
	<u>+</u>	\$0.50	/lamb miscellaneous medicine	
	=	\$6.60	/lamb	
	×	\$94	lambs	
		<u>500</u>		
	÷	\$11.80	ewes	
	=	φ11.60	/ewe	
Two Madiantina				
Ewe Medication		40.00		
		\$0.29	clostridial. vaccine	
	+	\$0.26	caseous lymphadenitis	
	+	\$1.06	internal parasiticide	
	+	\$0.40	injected vitamins	
	<u>+</u>	<u>\$0.50</u>	miscellaneous medicine	
	=	\$2.51	/ewe	
Ram Medication				
		\$0.29	clostridial. vaccine	
	+	\$0.26	caseous lymphadenitis	
	+	\$1.06	internal parasiticide	
	+	\$0.40	injected vitamins	
	<u>+</u>	\$0.50	miscellaneous medicine	
	=	\$2.51	/ram	
	<u>x</u>	13	rams	
	<u> </u>	\$32.63	total medication	
		500		
	÷	\$0.07	<u>ewes</u> /ewe	
	=	φυ.υ7	/ewe	
Total		¢4.4.20	<b>/</b>	
Total	=	\$14.38	/ewe	
2.03 Fuel, Mainte		-		
Machin	ery fuel c	cost - Tractor with		
		120	PTO hp	
	÷	2.5	avg HP required	
	X	0.1665576	litres fuel/hour/hp	
	X	1.0	hours per day	
	X	\$0.85	diesel / litre	
	<u>X</u>	<u>235</u>	days on feed	
		\$1,596.95	annual fuel cost	
	÷	<u>500.00</u>	<u>ewes</u>	
	=	\$3.19	/ewe	
Machin	ery repai	r & maintenance		
	•	\$59,000	machinery capital cost	
	<u>x</u>	1.50	% repair rate	
	=	\$885.00	oil, repairs & maintenance	
	÷	500.00	ewes	
	=	\$1.77	/ewe	
Building	repair 8	k maintenance		
24.1411	,			

Total	<u>X</u> = ± =	\$174,260 <u>1.00</u> \$1,742.60 <u>500.00</u> \$3.49 <b>\$8.45</b>	building capital cost % repair rate repairs & maintenance ewes /ewe /ewe	
2.04 Hydro, Water a	nd Telep		L. L.	
		\$594.75	hydro	
	+	\$0 \$600	water	
	+ =	\$1,195	telephone	
	_ 	500	<u>ewes</u>	
	<u>-</u>	\$2.39	/ewe	
		Ψσσ	,	
2.05 Death Loss				
Ewe		\$220.00	/ewe	
	<u>x</u>	<u>3</u>	death loss %	
	=	\$6.60	/ewe	
5		<b>A-</b>	,	
Ram		\$500.00	/ram	
	X	3	death loss %	
	÷	<u>38</u>	ewes/ram	
	=	\$0.39	/ewe	
Total	=	\$6.99	/ewe	
2.06 Insurance Building and Equipme Breeding Flock  Additional Coverage	ent	\$222,700 \$0.40 100 <u>500</u> \$1.78 \$116,500 \$0.45 100 <u>500</u> \$1.05 \$49.00 <u>500</u> \$0.10	bldg. & equipment investment /\$100 capital	
Total	=	\$2.93	/ewe	
2.07 Flock Replacent Ewe Replacement	nent <u>X</u> =	500 <u>0.15</u> 75	ewes replacement rate number replaced/year	
	- x ÷ =	\$220 \$102 75 <u>500</u> \$17.70	/replacement ewe /cull ewe number replaced/year ewes /ewe	

Ram Replacement				
·		13	rams	
	Χ	<u>0.25</u>	replacement rate	
	=	3	rams replaced/year	
		<b>A=00</b>		
		\$500	replacement ram value	
	-	\$120	cull ram value	
	X	3	rams replaced/year	
	主	<u>500</u> \$2.28	<u>ewes</u> /ewe	
	=	φ2.20	/ewe	
Total	=	\$19.98	/ewe	
		<b>V</b>		
2.08 Marketing & Tr	ansportat	tion		
Trucking	-	\$6.25	trucking per lamb	
_	Χ	<u>1.79</u>	lambs marketed/ewe	
	=	\$11.19	/ewe	
Commission, fees, e	tc.	\$6.50	cost per lamb	
	Χ	<u>1.79</u>	lambs marketed/ewe	
	=	11.64	/ewe	
Total	=	\$22.83	/ewe	
2.09 Shearing Costs	5	<b>#</b> 40.00	Φ/	
		\$10.00	\$/ram	
	÷	38.46	ewes/ram	
	<u>+</u>	\$5.00 \$5.26	<u>\$/ewe</u>	
	=	\$5.26	/ewe	
2.10 Predator Contr	ol			
2.1011caator conti	0.	\$750	stock dog	
	+	\$500	guard dog	
	÷	4	years	
	+	\$500	annual maintenance	
	÷	<u>500</u>	<u>ewes</u>	
	=	\$1.63	<del>/ewe</del>	
2.11 Professional F	ees			
Herd Veterinarian		\$2	Total Yearly hours	
	Χ	<u>\$141</u>	charge per hour	
	=	\$282	Vet Fees	
	÷	<u>500</u>	<u>ewes</u>	
	=	\$0.56	/ewe	
Mileage		80	Total Kilometers (round trip)	
	X	\$0.85	Charge per km	
	X	<u>1</u>	Number of yearly visits	
	=	\$68 500	Mileage charges	
	± =	<u>500</u> \$0.14	<u>ewes</u> /ewe	
	_	ψ0.14	/ewe	
Total	=	\$0.70	/ewe	
		-		
2.12 Manure Remov	<i>r</i> al			
		0.00171	manure m3/ewe/day (0.06	ft3/ewe/day)
				<del>-</del> ,

+	0.00590	bedding m3/ewe/day (0.21 ft3/ewe/day)
x	<u>235</u>	feeding days
=	1.79	m <sup>3</sup> manure volume
x	80	% volume shrink
Х	1.30795	yd³ per m³
<u>x</u>	<u>\$10.00</u>	<u>yd<sup>3</sup> manure removal cost</u>
=	\$4.68	/ewe
2 42 Missallanasus		
2.13 Miscellaneous	\$500.00	total office expenses
<u>.</u>	\$500.00 <u>500</u>	total office expenses
± =	\$1. <b>00</b>	<u>ewes</u> /ewe
_	Ψ1.00	
2.14 Operating Interest		
	\$227.76	subtotal operating costs
÷	2	average
<u>×</u>	<u>4.5%</u>	operating interest rate
=	\$5.12	/ewe
B. FIXED COSTS		
B. FIXED COSTS	CADITAL	
	CAPITAL	NVESTMENT
Buildings		
Pole Barn (36' x 1	44') with	
Lambing/Shearing	•	36') \$150,000
Wintering Lots	,	\$5,700
Well		\$8,000
Total Building Cost		\$163,700
Equipment & Improvement	s	
Water System (3		
Miscellaneous Ma		
Tractor & Loader		•
Truck - allocated t	•	\$15,000 \$50,000
Total Equipment & Improve		\$59,000
Total Buildings & Equipme	nt investmen	t \$222,700

Ŧ ,
\$110,000
\$6,500
\$116,500
80
625
\$50,000
\$2.00
2
\$5,280
<u>\$10,560</u>
\$60,560
\$399,760

3. Depreciation:

<u>Original Value -Salvage Value</u> Useful life

3.01 Buildings:

		\$163,700	original value	
	_	\$15,000	salvage value	
	÷	30	years useful life	
	÷	<u>500</u>	<u>ewes</u>	
	=	\$9.91	/ewe	
3.02 Equipment & I	mproven	nents		
		\$59,000	original value	
			•	
	-	\$10,000	salvage value	
	÷	10	years useful life	
	±	<u>500</u>	<u>ewes</u>	
	=	\$9.80	/ewe	
4. Interest on Inves	tment			
4. Interest on inves			skanna Malana — a lasana (mana)	2-1-
	<u>Origin</u>		<u>ilvage Value</u> x Investment F	Rate
		2		
4.01 Buildings:				
_		\$163,700	original value	
	+	\$15,000	salvage value	
		ψ13,000 2		
	÷		average	
	X	2.3%	investment rate	
	÷	<u>500</u>	<u>ewes</u>	
	=	\$4.02	/ewe	
4.02 Equipment & I	mnroven	nents		
4.02 Equipment & I	iiipi o voii		original value	
		\$59,000	original value	
	+	\$10,000	salvage value	
	÷	2	average	
	Χ	2.3%	investment rate	
	÷	<u>500</u>	<u>ewes</u>	
	=	\$1.55	/ewe	
	_	Ψ1.00	70.110	
4 02 Brooding Stoo	ı.			
4.03 Breeding Stoc	K	<b>.</b>		
		\$116,500	herd investment	
	Χ	2.3%	investment rate	
	÷	<u>500</u>	<u>ewes</u>	
	=	\$5.24	/ewe	
		<b>4</b> 0		
5. Pasture Costs				
		<b>A</b>		
Land Investment		\$50,000	land value	
	Χ	2.3%	investment rate	
	÷	<u>500</u>	<u>ewes</u>	
	=	\$2.25	/ewe	
		<b>4</b>	,	
Taxes		\$160	total taxes	
Taxes				
	÷	<u>500</u>	<u>ewes</u>	
	=	\$0.32	/ewe	
Fence depreciation		\$10,560	fence value	
I	_	0	salvage value	
		20	useful life	
	÷			
	÷	<u>500</u>	<u>ewes</u>	
	=	\$1.06	/ewe	
Fence investment		\$10,560	fence value	
	+	0	salvage value	
	÷	2	average	
	-	_		

	x ÷ =	2.3% <u>500</u> \$0.24	investment rate <u>ewes</u> /ewe	
Total	=	\$3.86	/ewe	
C. Labour				
		2.25	hours/ewe	
	<u>x</u>	\$20.00	<u>/hour</u>	
	=	\$45.00	/ewe	
Wool Value				
		513	total breeding animals	
	X	5	average lbs wool production	
	X	\$0.75	\$/lb	
	±	<u>500</u>	<u>ewes</u>	
	=	\$3.85	/ewe	

### **Profitability and Breakeven Analysis:**

Gross Revenue per lamb = lamb weight (110lbs) x 3% shrink x \$200/cwt

Operating Expense Ratio = (\$130.25 operating cost / \$215.55 gross revenue) x 100

Breakeven Price \$/cwt = Cost - \$2.15 wool value ÷ shrunk lamb market weight (1.067 cwt)

May, 2017

Created and maintained by <u>Manitoba Agriculture Farm Management</u>

For more information, contact your local <u>Manitoba Agriculture GO Office</u> or:

Rob Berry Linda Fox Benjamin Hamm

Industry Development Specialist Farm Production Extension Specialist Farm Management Specialis

Roy Arnott Wray Whitmore

Farm Management Specialist Manager - Livestock Farm Production Extension

# For more information • Contact your local Manitoba Agriculture, Growing Opportunities (GO) Office. • Visit us at manitoba.ca/agriculture.

