UNL-Sheep Budget Tool



An Excel spreadsheet for evaluating the value of potential sheep production revenue, expenses, an <mark>Farm and Ranch Management</mark> profitability

Version: 2021-04-01



INTRODUCTION

The University of Nebraska - Lincoln sheep budget tool was developed to help producers determine the value of sheep production. This tool is NOT intended to represent any one operation but rather market prices and average costs estimates. Each individual operation should adjust key inputs and local market prices to reflect their own situation.

FOR MORE INFORMATION:

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An Excel spreadsheet for evaluating the value of potential sheep production revenue, expenses, and profitability



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Budget Instructions

(1) The "Summary Budget" tab includes total income, total costs, and net revenue, plus breakeven calculations.

(2) DO NOT input numbers directly in the "Summary Budget" tab.

(3) Instead, input numbers directly into "Production Parameters", "Revenue", "Expenses - Variable", "Expenses - Fixed", "Non-Farm Adjustments", and "Taxes" tabs.

(4) Only input numbers and data into the yellow cells. Other numbers will automatically calculate and fill.

Introduction

The University of Nebraska-Lincoln Department of Agricultural Economics Extension and Outreach program has developed sheep and goat budget templates for use by producers in Nebraska. The budget templates contain an interface in which producers can customize production parameters to their specific operations. Enterprise budgets can serve as a useful guide for producers as they make management decisions.

How to Use

Both the sheep and goat production budgets are organized identically and are designed to operate in the same way. The budgets include:

- 1) Instructions Provides instructions for how to navigate the spreadsheet.
- 2) Summary Budget Includes total income, variable cost, fixed cost, and breakeven calculations.
- 3) Production Parameters Contains customizable general flock, feed, and asset value information.
- 4) Revenue Contains a breakdown of the revenue components of sheep/goat production.
- 5) Expenses -Variable Includes a breakdown of production expenses that vary from year-to-year.
- 6) Expenses Fixed Includes a breakdown of fixed and overhead expenses.
- 7) Taxes Contains common taxes paid by sheep/goat producers.
- 8) Non-Farm Adjustments Contains sources of other on and off-farm income that producers may include in their sheep or goat budgets.

To use, please follow the following guidelines:

The "Summary Budget" tab summarizes totals from the various budget worksheets or tabs.

Worksheet users should input numbers directly into the yellow highlighted cells in the "Production Parameters", "Revenue", "Expenses – Variable", "Expenses – Fixed", "Non-Farm Adjustments", and "Taxes" tabs.

Methods

The market prices, cost estimates, and production parameters included in the sample budget were developed in consultaton with Nebraska sheep and goat producers. After review of sample production budgets from producers, the template was drafted and presented to producers at their annual meetings. From there, revisions were made and the final budget template was completed and reviewed.

Assumptions

Several assumptions were made in an effort to create a sheep budget representative of average operations. A few of the key assumptions are:

Sheep Budget

- Breeding Flock Size: 250 ewes
- Lambs Born: 350 head/year
- · Lambs Weaned: 329 head/year
- Lamb Weaning Weight: 75 pounds
- Lambs Sold at Weaning: 329 head/year
- Total Lambs Finished: 0 head/year

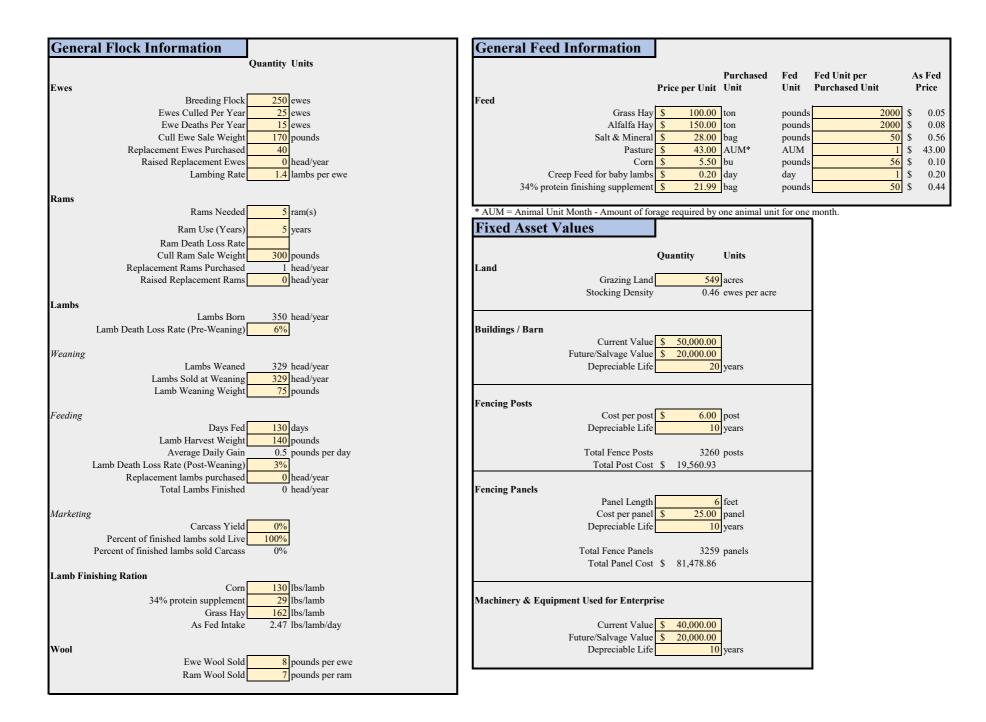
Conclusion

The University of Nebraska-Lincoln sheep and goat budget templates were developed to help producers project the value of sheep production and net revenue. This tool is not intended to represent any one operation, but rather to reflect production rates, market prices, and average cost estimates. Each individual operation should adjust key inputs and local market prices to reflect their own situation. **Annual Sheep Budget**

	Total	Per Ewe
Revenue	Total Annual Revenue	Per Ewe Revenue
Ewe-Related Sales	\$ 4,122.50	\$ 16.49
Ram-Related Sales	\$ 270.00	
Lamb Sales	÷ 57000	4 1100
Weaned Lamb Sales	\$ 59,220.00	\$ 236.88
Finished Lamb Sales	\$ -	\$ -
Wool	\$ 2,000.00	\$ 8.00
Other Revenue		
Total Gross Revenue	\$ 65,647.50	\$ 262.59
Expenses - Variable	Total Annual Expenses - Variable	Per Ewe Annual Expenses - Variable
Total Animal Purchases	\$ 8,400.00	\$ 33.60
Total Feed Expenses	\$ 27,805.71	
Total Other Expenses	\$ 14,095.00	+
Total Other Expenses	3 14,095.00	\$ 50.58
Total Expenses - Variable	\$ 50,300.71	\$ 201.20
Expenses - Fixed	Total Annual Expenses - Fixed	Per Ewe Annual Expenses - Fixed
Total Annualized Fixed Expenses	\$ 15,353.98	\$ 61.42
Total Overhead and Fixed Expenses	\$ 3,000.00	
Total Expenses - Fixed & Overhead	\$ 18,353.98	\$ 73.42
Taxes		
Taxes Total Taxes	Total Annual Taxes \$ 1,700.00	Per Ewe Taxes \$ 6.80
	5 1,700.00	3 0.00
Total Expenses (Variable + Fixed + Taxes)	\$ 70,354.69	\$ 281.42
Net Revenue (Loss)	\$ (4,707)	\$ (18.83)
Non-Farm Adjustments	Tetel America Additionation	Den Freis Auftrichmennte
Total Non-Farm Adjustments	Total Annual Adjustments	Per Ewe Adjustments
) \$ (18.83)

Breakeven Prices

	Breakeven Price (\$/lb)	Sale Price Above Breakeven (\$/lb)	Breakeven Price Calculations Explanation
Weaned Breakeven Prices			
Weaned Lamb Breakeven Price (\$/lb) Live Weight	\$ 2.8:	5 \$ (0.45) All expenses (excluding finishing expenses) divided by total weight of weaned lambs.
Finishing Breakeven Prices			
Finished Lamb Breakeven Price (\$/lb) Live Weight	#DIV/0!	#DIV/0!	All expenses times percent sold by live weight divided by total finished lamb lbs. sold by a live weight basis.
Finished Lamb Breaken Price (\$/lb) Carcass Weight	No Animals Sold by Carcass Weight	No Animals Sold by Carcass Weight	All expenses times percent sold by carcass weight divided by total finished lamb lbs. sold by a carcass weight basis.



Total Gross Revenue

65,647.50

\$

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Revenue		T T •/	р [.]		T (1 D
	Quantity	Units	Price	Per Unit	Total Revenue
Ewe-Related Sales					
Cull Ewe Sales	42.5	cwt	\$ 9	07 cwt	\$ 4,122.50
Ram-Related Sales					
Cull Ram Sales	3.0	cwt	<mark>\$</mark>	0 cwt	\$ 270.00
Lamb Sales					
Weaned Lamb Sales	246.8	cwt	\$ 24	0 cwt	\$ 59,220.00
Finished Lamb Sales			<u>.</u>		
Live Weight	-	cwt		05 cwt	\$ -
Carcass Weight	-	cwt	\$ 35	50 cwt	\$ -
Wool					
Ewe Wool Sales	2,000	pounds	\$	1 pound	\$ 2,000.00
Ram Wool Sales	35	pounds	\$	1 pound	\$ 35.00
Other Revenue					
Other Revenue		units		unit	
Other Revenue		units		unit	
Other Revenue		units		unit	
Total "Other" Revenue					
Gross Revenue					\$ 65,647.50

Total Expenses - Variable				\$ 50,300.71
Animal Purchases	Quantity	Units	Price Per Unit	Annual Variable Costs
Replacement Ewes Purchased	40	head	\$ 200 head	\$ 8,000.00
Replacement Ram Purchased		head	\$ 400 head	\$ 400.00
Weaned Lambs (Purchased) Other Animal Purchases		head	head	
Other Animal Purchases		unit	unit	
Other Animal Purchases Other Animal Purchases		unit unit	unit unit	
Total Other Animal Purchases		um	unit	
Total Animal Purchases				¢ 9.400.00
i otal Animal Purchases				\$ 8,400.00
Feed Expenses	Quantity per Animal per			
reed Expenses	Animai per Year	Units	Price Per Unit	Annual Variable Costs
Ewe Feed Grass Hay		pounds	\$ 0.05 pounds	
Alfalfa Hay	210	pounds	\$ 0.08 pounds	\$ 3,937.50
Salt & Mineral Pasture	4	pounds AUM	\$ 0.56 pounds \$ 43.00 AUM	\$ 560.00 \$ 16,125.00
Corn	200	pounds	\$ 0.10 pounds	\$ 4,910.71
Other		pounds	pounds	
Ram Feed Grass Hay	200	pounds	\$ 0.05 pounds	\$ 50.00
Alfalfa Hay	200	pounds	\$ 0.08 pounds	\$ 75.00
Salt & Mineral	31.25	pounds	\$ 0.56 pounds	\$ 87.50
Pasture Corn	0.4	AUM pounds	\$ 43.00 AUM \$ 0.10 pounds	\$ 86.00
Other		pounds	pounds	
Pre-Weaning Lamb Feed Grass Hay		pounds	\$ 0.05 pounds	
Alfalfa Hay		pounds	\$ 0.08 pounds	
Salt & Mineral		pounds	\$ 0.56 pounds	
Pasture Corn		AUM pounds	\$ 43.00 AUM \$ 0.10 pounds	
Creep Feed for baby lambs	30	days	\$ 0.20 day	\$ 1,974.00
Other Finishing Lamb Feed		pounds	pounds	
Grass Hay	162	pounds	\$ 0.05 pounds	s -
Alfalfa Hay		pounds	\$ 0.08 pounds	
Salt & Mineral Pasture		pounds AUM	\$ 0.56 pounds \$ 43.00 AUM	
Corn		pounds	\$ 0.10 pounds	\$ -
34% protein supplement Other	29	pounds pounds	\$ 0.44 pounds pounds	\$ -
Other		pounds	pounds	
Other Feed Expenses				
Other Feed Expenses Other Feed Expenses		unit unit	unit unit	
Other Feed Expenses		unit	unit	
Total Feed Expenses				\$ 27,805.71
-	Number of		Box	
Other Variable Expenses	Animals	Animal	Per Price Animal	Annual Variable Costs
Wool Expenses				
Shearing Ewes Shearing Rams		ewes ram(s)	\$ 5.00 per ewe \$ 10.00 per ram	\$ 1,250.00 \$ 50.00
Other Wool Expenses		units	per unit	
Marketing & Risk Management Pasture, Rangeland, & Forage Insurance	250	ewes	\$ 1.30 per ewe	\$ 325.00
Livestock Revenue Protection Insurance		ewes	per ewe	\$ -
The American Lamb Checkoff		lambs finished	\$ 1.19 per lamb	
Additional Marketing & Hauling Other Marketing & Risk Management Costs	329	lambs units	\$ 5.00 per lamb per unit	\$ 1,645.00
Predator Control		unto		
Dog Food Additional Predator Control		ewes ewes	\$ 1.50 per ewe \$ 1.80 per ewe	\$ 375.00 \$ 450.00
Other Predator Control	230	units	unit	÷ +30.00
Repair Expenses				
Housing Improvement & Repairs Machinery, Equipment, Vehicle Repairs		ewes ewes	per ewe \$ 5.00 per ewe	\$ 1,250.00
Fencing Repairs		ewes	\$ 3.00 per ewe	\$ 750.00
Other Variable Expenses	250	ewes	per ewe	
Other Variable Expenses Labor - Hired	250	ewes	\$ 15.00 per ewe	\$ 3,750.00
Fuel		ewes	\$ 10.00 per ewe	\$ 2,500.00
Veterinary and Medical Operating Interest		ewes ewes	\$ 4.00 per ewe \$ 3.00 per ewe	\$ 1,000.00 \$ 750.00
Other Variable Expenses	250	units	per unit	. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Other Variable Expenses Other Variable Expenses		units units	per unit per unit	
Ouler variable Expenses		units	per unit	
Total Other Expenses				\$ 14,095.00

Total Expenses - Fixed & Overhead

18,353.98

\$

Annualized Fixed Expenses			
	Value	Per Unit	Annualized Fixed Expenses
Annualized Fencing Expenses (Depreciation)			
Buildings /Barn	\$ 6.00	per ewe	\$ 1,500.00
Fence Posts	\$ 7.82	per ewe	\$ 1,956.09
Fence Panels	\$ 32.59	per ewe	\$ 8,147.89
Machinery & Equipment Used for Enterprise	\$ 8.00	per ewe	\$ 2,000.00
Other Annualized Expenses			
Other Annualized Fixed Expenses	\$ -	per ewe	
Other Annualized Fixed Expenses	\$ -	per ewe	
Other Annualized Fixed Expenses	\$ -	per ewe	
Opportunity Interest Expense	\$ 7.00	per ewe	\$ 1,750.00
Total Annualized Fixed Expenses			\$ 15,353.98

Other Expenses: Fixed and	d Overhead			
		Price	Per Unit	Overhead and Other Fixed Expenses
Overhead Expenses	Overhead Expense	\$ 12.00	per ewe	\$ 3,000.00
Other Fixed Expenses				
-	Land Rent		per ewe	
	Other Fixed Expenses		per ewe	
	Other Fixed Expenses		per ewe	
Total Overhead and Fixed Expenses				\$ 3,000.00

Total Taxes

\$ 1,700.00

Taxes					
	Unit	Price	Per Unit	Annual Ta	ax Expenses
Taxes					
Real Estate Tax				\$	1,200.00
Personal Propety Taxes				\$	500.00
			<u>. </u>		
Total Taxes				\$	1,700.00

Total Non-Farm Adjustments

\$

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Non-Farm Adjustments					
					Total Adjustment
	Quantity	Units	Price	Per Unit	Revenue
Off-Farm Wages				_	
Custom Feeding		units		per unit	
Custom Bailing		units		per unit	
Custom Grazing		units		per unit	
		units		per unit	
		units		per unit	
		units		per unit	
Off-Farm Income	<u> </u>				
Off-Farm Income					
Off-Farm Income					
Other Non-Farm Adjustments					
		units		per unit	
		units		per unit	
		units		per unit	
		units		per unit	
Total Non-Farm Adjustments					\$ -