

Sheep Budget Worksheet

by

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This budgeting workbook is designed for the small producer and assumes that ewes will lamb once per year. It includes spreadsheets for the breeding flock, rams, replacement ewes, and finishing lambs. Output from the "Ram" and "Replacement" spreadsheets feed into the "Flock" spreadsheet. The "Flock" and "Finish Lambs" spreadsheets work together but can be used separately. If they are used together, the lambs from the flock automatically move into the "Finish Lambs" spreadsheet. Their results are combined in the Farm Flock to Finish spreadsheet. All inputs except feed amounts are entered in the "Inputs" spreadsheet.

Budget Inputs

Breeding Flock		
Flock size	150	ewes
Ewes Culled per Year	20	ewes
Ewe Deaths per year	3	ewes
Are Replacement Ewes Purchased?	No	(If "No", the lamb crop will be reduced by the amount of ewes culled and died per year) (This entry will not be used if the above question is answered "No".)
Replacement Ewe Cost (if applicable)	0	\$ / head
Cull Ewe Sale Weight	140	pounds
Cull Ewe Sale Price	30	\$ / cwt
Rams Needed	5	Ram(s)
Ram Purchase Price	200	\$ / head
Ram use (years)	5	years
Ram Death Loss Rate	0%	
Cull Ram Value	50	per head
Lambs Weaned	275	head/year
Lamb Weaning Weight	60	pounds
Weaning Lamb Price	140	\$ / cwt
Ewe Wool Sold	1092	pounds
Wool Price	0.25	\$ / lb

Lamb Finishing		
Weaned Lambs Purchased	0	head
Price for Weaned Lambs	0	\$ / Head
Days fed	30	days
Lamb Wool Sold	0	pounds
Finished Lambs Sold	250	head
Finished Lamb Weight	70	pounds
Finished Lamb Price	140	\$ / cwt

Feed					
Description	Price per Unit Purchased	Purchased Unit (tons, lbs. etc)	Fed Unit (tons, lbs. etc)	Fed Unit per Purchased Unit	As Fed Price
Pasture	30.00	AUM	AUM	1	30.00
Hay	12.29	Ewe	Ewe	1	12.29
Salt, Mineral, Protein	3.20	Ewe	Ewe	1	3.20
Lamb Feed	8.22	Ewe	Lamb	1.76	4.68
Crop Residue	8.00	acre	Ewe	1.49	5.38
Replacement Hay	65.00	Ton	pound	2000	0.03
Salt Limited Corn	3.75	bushel	pound	56	0.07
Salt	0.06	pound	pound	1	0.06

Non-Feed Input Costs				
Description	Cost per Year	Is this Cost Per Animal or for All Animals?	Percent for Farm Flock	Percent for Finishing
Labor	1000.00	all animals	90%	10%
Fuel	200.00	all animals	90%	10%
Veterinary and Medical	3.88	per animal	100%	0%
Weaned Lamb Marketing	0.00	all animals	100%	0%
Finished Lamb Marketing	0.00	per animal	0%	100%
Cull Ewe Marketing	4.50	per animal	100%	0%
Cull Ram Marketing	4.50	per animal	100%	0%
Shearing Ewes	2.75	per animal	100%	0%
Trucking	3.91	per animal	0%	100%
Donkey	12.50	all animals	100%	0%
Dogs	75.00	all animals	100%	0%
Dog Feed	416.00	all animals	100%	0%

Depreciable Input Costs						
Description	Current Cost	Future Cost	Remaining Life	Annual Repairs	Percent for Farm Flock (Optional)	Percent for Finishing
Farm Flock Housing			5	150	100%	0%
Finishing Housing			5		0%	100%
Farm Flock Machinery	15,200	15,200	5	19	100%	0%
Finishing Machinery			5		0%	100%

Interest	
Operations Interest Rate	7%
Opportunity Rate	3%

Overhead Costs			Percent for Farm Flock (Optional)	Percent for Finishing
Real Estate Value	1,000		100%	0%
Real Estate Tax	-	per year	100%	0%
Annual Insurance Premium	-	per year	85%	15%
Professional Fees	333	per year	90%	10%
Annual Management Charge		per year	50%	50%
Other		per year	25%	75%

Farm Flock Budget (150 ewes)

Income				Flock Total	Per Ewe	Per Lamb Sold
	Amount	Price		Total	Total	Total
Weaned Lamb Value	15,120 lbs @	140.00	per cwt	21,168	141.12	84.00
Cull Ewe Sales	2,800 lbs @	30.00	per cwt	840	5.60	3.33
Wool Sales	1092 lbs @	0.25	per lb	273	1.82	1.08
Gross Income				22,281	148.54	88.42

Variable Costs				Flock Total	Per Ewe	Per Lamb Sold
	Number	Price		Total	Total	Total
Breeding Costs						
Rams		(This amount is the "Net Expenses" from the "Rams" tab)		155	1.03	0.61
Replacement Ewes Purchased	0	N/A \$ per head				
Ewe Feed						
	Amount per Year	Per Animal or Total	Price	Total	Total	Total
Pasture	140.4 AUM	total	@ 30.00 per AUM	4,212	28.08	16.71
Pasture	58.5 AUM	total	@ 30.00 per AUM	1,755	11.70	6.96
Crop Residue	1 Ewe	per animal	@ 5.38 per Ewe	808	5.38	3.21
Hay	1 Ewe	per animal	@ 12.29 per Ewe	1,844	12.29	7.32
Salt, Mineral, Protein	1 Ewe	per animal	@ 3.20 per Ewe	480	3.20	1.90
		per animal				
Replacement Ewe Feed		(From Replacement Spreadsheet)		91	0.60	0.36
Total Feed				9,098	60.65	36.10
Other Variables						
		Allocation		Total	Total	Total
Labor		90%		900	6.00	3.57
Fuel		90%		180	1.20	0.71
Veterinary and Medical		100%		582	3.88	2.31
Weaned Lamb Marketing		100%		-	0.00	0.00
Cull Ewe Marketing		100%		90	0.60	0.36
Shearing Ewes		100%		413	2.75	1.64
Donkey		100%		13	0.08	0.05
Dogs		100%		75	0.50	0.30
Dog Feed		100%		416	2.77	1.65
				213	1.42	0.84
Operations Interest						
Total Other				2,881	19.20	11.43
Total Variable Costs				12,133	80.89	48.15

Fixed Costs				Flock Total	Per Ewe	Per Lamb Sold
	Depreciation	Oppor-tunity	Repairs	Total	Total	Total
Depreciables Input Costs						
Farm Flock Housing	-	-	150	150	1.00	1.18
Farm Flock Machinery	-	456	19	475	3.17	3.74
				-		
				-		
				-		
				-		
Total Ownership				625	4.17	4.92
Overhead and Management						
	Allocation			Total	Total	Total
Real Estate Value	100%			30	0.12	0.11
Real Estate Tax	100%			-	0.00	0.00
Annual Insurance Premium	85%			-	0.00	0.00
Professional Fees	90%			300	1.15	1.09
Annual Management Charge	50%			-	0.00	0.00
Other	25%			-	0.00	0.00
Total Overhead				330	1.27	1.20
Total Fixed Costs				955	5.44	6.12

Net Income				9,193	62.21	34.15
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Farm Ram Budget (5 rams)

Income			Flock Total
	Amount	Price	Total
Cull Ram Sales	1.00 head @	50.00 per head	50
Gross Income			50

Variable Costs			Flock Total
<u>Breeding Costs</u>			<u>Total</u>
Rams	1.0	200 \$ per head	200
<u>Ram Feed</u>	<u>Amount per Year</u>	<u>Per Animal or Total</u>	<u>Price</u>
		per animal	
		per animal	
		per animal	
		per animal	
		per animal	
		Total Feed	-
<u>Other Variables</u>			<u>Total</u>
Cull Ram Marketing		<u>Allocation</u>	5
		100%	
Operations Interest			0
		Total Other	5
Total Variable Costs			205
Net Expense			155

Farm Replacement Budget (23 ewe lambs)

Variable Costs				Flock Total
<u>Replacement Feed</u>	Amount per Year		Per Animal or Total	<u>Price</u>
Lamb Feed	1	Lamb	per animal	@ 4.68 per Lamb
Replacement Hay	309.6	pound	per animal	@ 0.03 per pound
Salt Limited Corn	40	pound	per animal	@ 0.07 per pound
Salt	12	pound	per animal	@ 0.06 per pound
			per animal	
			per animal	
Total Variable Costs				91

Finishing Budget

Income				Flock Total	Per Lamb Sold
	<u>Number</u>	<u>Weight</u>	<u>Price</u>	<u>Total</u>	<u>Total</u>
Lamb Sales	250	70	140 \$ / cwt	24,500	98.00
Wool Sales		0	0.25 \$ / lb	-	-
Gross Income				24,500	98.00

Variable Costs				Flock Total	Per Lamb Sold
	<u>Number</u>	<u>Weight</u>	<u>Price</u>	<u>Total</u>	<u>Total</u>
Weaned Lambs (Raised)	252	60	140.00 \$ / cwt	21,168	84.67
Weaned Lambs (Purchased)	0		0.00 \$ / head	-	-
Feed	Amount Fed per Year		Per Animal or Total	Price	
Lamb Feed	1	Lamb	per animal	4.68 \$ Lamb	
Total Feed				1,175	4.70
NonFeed			Allocation	Total	Total
Labor			10%	100	0.40
Fuel			10%	20	0.08
Veterinary and Medical			0%	-	-
Finished Lamb Marketing			100%	-	-
Operations Interest				126	0.50
Total NonFeed				246	0.98
Total Variable Costs				22,588	90.35

Fixed Costs				Flock Total	Per Lamb Sold
	<u>Depreciation</u>	<u>Oppor-tunity</u>	<u>Repairs</u>	<u>Total</u>	<u>Total</u>
Depreciables Input Costs					
Finishing Housing	-	-	-	-	-
Finishing Machinery	-	-	-	-	-
Total Depreciables				-	
Overhead and Management		Allocation		Total	Total
Real Estate Value		0%		-	-
Real Estate Tax		0%		-	-
Annual Insurance Premium		15%		-	-
Professional Fees		10%		33	0.13
Annual Management Charge		50%		-	-
Other		75%		-	-
Total Overhead and Ownership				33	0.13
Total Fixed Costs				33	0.13

Total Costs				22,622	90.49
Net Income				1,878	7.51

Combined Farm Flock and Lamb Finishing

Income				Flock Total	Per Lamb Sold
	Number	Weight	Price	Total	Total
Finished Lamb Sales	250	70.00	140 \$ / cwt	24,500	98.00
Cull Ewe Sales	20	140.00	30 \$ / cwt	840	3.36
Cull Ram Sales	1.00		50.00 per head	50	0.20
Wool Sales		1092	0.25 \$ / lb	273	1.09
Gross Income				25,663	102.65

Variable Costs				Flock Total	Per Lamb Sold
	Number	Price		Total	Total
Animal Purchases					
Ewes	0	0 \$ per head		-	-
Rams	1.0	200 \$ per head		200	0.80
Feeder Lambs	0	0 \$ / head		-	-
Total Animals Purchased				200	0.80
Feed	Amount	Price		Total	Total
Pasture	140 AUM @	30.00 per AUM		4,212	16.85
Hay	150 Ewe @	12.29 per Ewe		1,844	7.37
Salt, Mineral, Protein	150 Ewe @	3.20 per Ewe		480	1.92
Lamb Feed	256 Lamb @	4.68 per Lamb		1,198	4.79
Crop Residue	150 Ewe @	5.38 per Ewe		808	3.23
Replacement Hay	1,548 pound @	0.03 per pound		50	0.20
Salt Limited Corn	200 pound @	0.07 per pound		13	0.05
Salt	60 pound @	0.06 per pound		4	0.01
-	-	-		-	-
-	-	-		-	-
Total Feed				8,609	34.43
Other Variable				Total	Total
Labor				1,000	4.00
Fuel				200	0.80
Veterinary and Medical				582	2.33
Weaned Lamb Marketing				-	-
Cull Ewe Marketing				90	0.36
Cull Ram Marketing				5	0.02
Shearing Ewes				413	1.65
Trucking				-	-
Donkey				13	0.05
Dogs				75	0.30
Dog Feed				416	1.66
Operations Interest				338	1.35
Total Other				3,131	12.52
Total Variable Costs				11,939	47.76

Fixed Costs				Flock Total	Per Lamb Sold
	Depre- ciation	Oppor- tunity	Repairs	Total	Total
Depreciables Input Costs					
Farm Flock Housing	-	-	150	150	0.60
Finishing Housing	-	-	-	-	-
Farm Flock Machinery	-	456	19	475	1.90
Finishing Machinery	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
Total Ownership				625	2.50
Overhead and Management				Total	Total
Real Estate Opportunity				30	0.12
Real Estate Tax				-	-
Insurance				-	-
Professional Fees				333	1.33
Management				-	-
Other				-	-
Total Overhead				363	1.45
Total Fixed Costs				988	3.95

Total Costs				12,928	51.71
Net Income				12,735	50.94