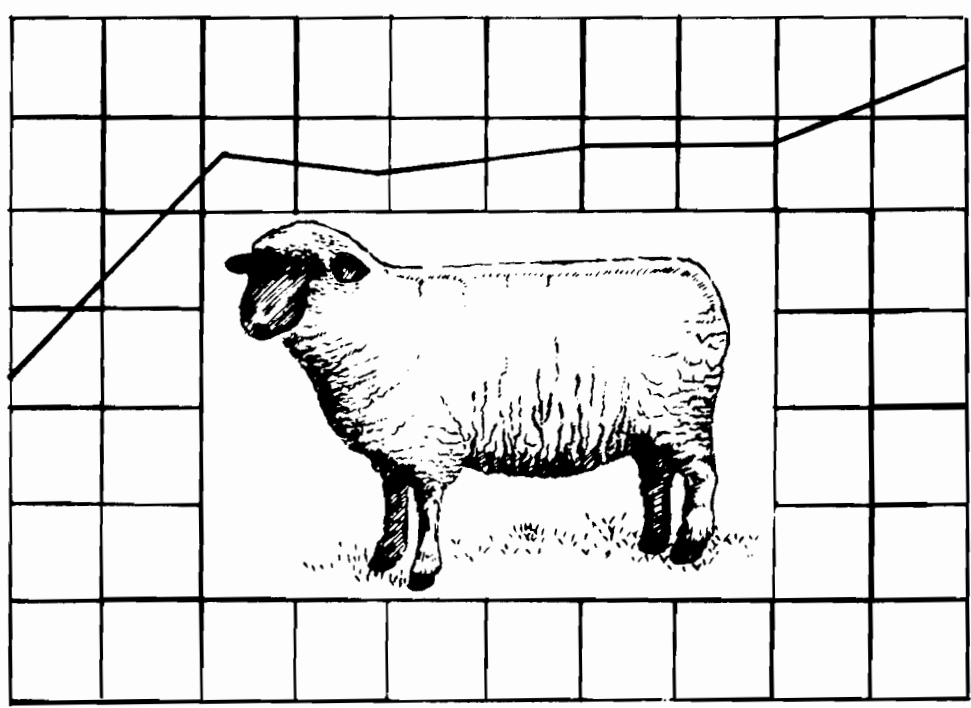


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SHEEP PRODUCTION IN HUMBOLDT COUNTY

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AGRICULTURE EXTENSION SERVICE
UNIVERSITY OF CALIFORNIA

SHEEP PRODUCTION IN HUMBOLDT COUNTY

by

John Dunbar, Farm Advisor and A. D. Reed, Extension Economist

This study presents sample investment, income and expense items on typical sheep operations in three areas of the county: southeastern, southwestern, and the Humboldt coast.

The county was divided into these areas on the basis of land capabilities, production rates, and annual production costs. The data for the study was established by a committee of sheep producers representing each production zone.

In this study, we have attempted to show how the total ranch investment, income and expense would be divided on an enterprise accounting system, and how the service enterprises (range,* horse and dogs, and equipment) would be charged to the sheep. This system shows the contribution to profit or loss that each resource makes toward the total ranch profit. This type of analysis can be used as a guide by an owner with 100 percent equity in a ranch, an individual considering the purchase of a ranch, or interested in rental or leasing.

This study also examines three alternative methods of obtaining replacement ewes for each area.

1. 1,000 ewe band with replacement ewes raised and retained on the ranch.
2. 1,000 ewe band with replacement ewe lambs purchased.
3. 1,150 ewe band with replacement yearling ewes purchased.

The price per hundredweight of lamb is net to the ranch while the price of wool includes incentive payment.

* Range land investment and costs were taken from "Cost of Range Land - Humboldt County, California" by Farm Advisor D. W. Cooper & Phil Parsons, Extension Economist, 1967.

Sample Income and Expense
Sheep Ranch in Southeastern Humboldt

Based on 1,000 ewe band, 50 rams, 80% lamb crop, 5% mortality, 20% replacement

<u>Investment</u>	<u>Total Ranch</u>	<u>Sheep</u>	<u>Range</u>	<u>Horses & Dogs</u>	<u>Equipment</u>
Range land, including fences	150,200		150,200		
Barns, corrals, lambing sheds, etc.	9,800		9,800		
Trucks and tractors	11,800				11,800
Horses and dogs	900			900	
Bucks 50 @ \$34 (1,700)					
Ewes 1,000 @ \$17 (17,000)	21,900	21,900			
Ewe replacements 200 @ \$16 (3,200)					
Total	\$194,600	\$21,900	\$160,000	\$900	\$11,800

<u>Income</u>					
60% fat lambs 360 @ 85# 30,600# @ 20¢	6,120	6,120			
40% feeder lambs 240 @ 70# 16,800# @ 17¢	2,856	2,856			
Cull ewes 150 @ 120# 18,000# @ 4¢	720	720			
Cull rams 7 @ 175# 1,225# @ 3¢	37	37			
Wool 950 @ 7# 6,650# @ 80¢	5,320	5,320			
Ram wool 47 @ 7# 329# @ 80¢	263	263			
Lamb wool 200 @ 3# 600# @ 65¢	390	390			
Replacement ewe wool 190 @ 7#, 1,330# @ 80¢	1,064	1,064			
Transfers to sheep			7,000	906	3,052
Total	\$16,770	\$16,770	\$7,000	\$906	\$3,052

<u>Expense</u>					
Feed: Range 1,000 ewes @ \$7		7,000			
Hay 100 ton @ \$38	3,800	3,290		510	
Salt	100	100			
Dog food	180			180	
Shearing 1,387 @ 55¢	763	763			
Tag 1,200 @ 15¢	180	180			
Replacement rams 10 @ \$75	750	750			
Vet. and medicine	500	480		20	
Horse and dogs		906			
Taxes	2,528	368	2,030	12	118
Gasoline, oil and equipment repairs	1,200				1,200
Equipment		3,052			
Maintenance of fences, roads, corrals, barns	976		976		
Insurance	600	150	250		200
Misc. overhead	1,450	720	700	30	
Depreciation	3,790		2,510	100	1,180
Family labor	4,800	4,800			
Interest	9,354	1,314	7,632	54	354
Total	\$30,971	\$23,873	\$14,098	\$906	\$3,052

MANAGEMENT INCOME

\$-14,201 \$-7,103 \$-7,098

Comparison of raising ewe replacements, purchasing ewe lambs, or purchasing yearling ewes on a southeastern Humboldt County ranch.

<u>INVESTMENT</u>	<u>Raised</u>	<u>Purchased Ewe Lambs</u>	<u>Purchased Yrlg. Ewes</u>
Range land, including fences	\$150,200	\$150,200	\$150,200
Barns, corrals, lambing sheds, etc.	9,800	9,800	9,800
Trucks and tractors	11,800	11,800	11,800
Horses and dogs	900	900	900
Bucks	1,700	1,700	1,904
Ewes	17,000	17,000	19,550
Replacement ewes	3,200	3,200	---
Total	\$194,600	\$194,600	\$194,154

<u>INCOME</u>			
Fat lambs @ 20¢	6,120	10,080	11,592
Feeder lambs @ 17¢	2,856	3,060	3,519
Cull ewes @ 4¢	720	720	826
Cull rams @ 3¢	37	37	42
Wool @ 80¢	5,320	5,320	6,115
Ram wool @ 80¢	263	188	216
Lamb wool @ 65¢	390	---	---
Replacement ewe wool @ 80¢	1,064	1,064	---
Total	\$16,770	\$20,469	\$22,310

<u>EXPENSES</u>			
Feed: Hay @ \$38/ton	3,800	3,800	3,800
Salt	100	100	100
Dog food	180	180	180
Shearing @ 55¢	763	653	630
Tag @ 15¢	180	180	172
Purchase replacement ewes		3,200	5,980
Replacement rams @ \$75	750	750	825
Vet., medicine and supplies	500	500	500
Taxes	2,528	2,528	2,588
Gasoline, oil, equipment repairs	1,200	1,200	1,200
Maintenance of fences, roads, corrals, barns	976	976	976
Insurance	600	600	600
Misc. overhead	1,450	1,450	1,450
Depreciation	3,790	3,790	3,790
Family labor	4,800	4,800	4,800
Interest @ 6%	9,354	9,354	9,327
Total	\$30,971	\$34,061	\$36,918
MANAGEMENT INCOME	\$-14,201	\$-13,592	\$-14,608

- 1,000 ewe band, 5% mortality, 800 lambs raised, 200 ewe lambs retained as replacements, 420 fat lambs @ 85#, 180 feeders @ 70#, 150 cull ewes @ 120#, 7 cull rams @ 175#, 950 shorn ewes av. 7#, 47 rams shorn av. 7#, 190 replacement yrlg. ewes shorn av. 7#, 200 ewe lambs shorn av. 3#.
- 1,000 ewe band, 5% mortality, 800 lambs raised, 200 shorn ewe lambs purchased @ \$16, 560 fat lambs sold @ 90#, 240 feeders @ 75#, 150 cull ewes @ 120#, 7 cull rams @ 175#, 950 ewes shorn av. 7#, 47 rams shorn av. 5#, 190 yearlings shorn av. 7#.
- 1,150 ewe band, 5% mortality, 920 lambs raised, 230 shorn yrlg. ewes purchased @ \$26, 644 fat lambs @ 90#, 276 feeders @ 75#, 172 cull ewes @ 120#, 8 cull rams @ 175#, 1,092 ewes shorn av. 7#, 54 rams shorn av. 5#.

Sample Income and Expense
Sheep Ranch in Southwestern Humboldt

Based on 1,000 ewe band, 50 rams, 90% lamb crop, 2.5% mortality, 20% replacement

<u>Investment</u>	<u>Total Ranch</u>	<u>Sheep</u>	<u>Range</u>	<u>Horses & Dogs</u>	<u>Equipment</u>
Range land, including fences	\$150,200		\$150,200		
Barns, corrals, lambing sheds, etc.	9,800		9,800		
Trucks and tractors	11,800				11,800
Horses and dogs	900			900	
Bucks 50 @ \$34	1,700)				
Ewes 1,000 @ \$17	17,000)				
Replacement ewes 200 @ \$16	3,200)				
Total	\$194,600	\$21,900	\$160,000	\$900	\$11,800
 <u>Income</u>					
80% fat lambs 560 @ 95# 53,200# @ 20¢	10,640	10,640			
20% feeder lambs 140 @ 75# 10,500# @ 17¢	1,785	1,785			
Cull ewes 175 @ 130# 22,750# @ 4¢	910	910			
Cull rams 9 @ 175# 1,575# @ 3¢	47	47			
Wool 975 @ 8# 7,800# @ 80¢	6,240	6,240			
Ram wool 49 @ 8# 392# @ 80¢	314	314			
Lamb wool 200 @ 4# 800# @ 65¢	520	520			
Replacement ewe wool 195 @ 7½# 1,463# @ 80¢	1,170	1,170			
Transfers to sheep			7,000	904	3,032
Total	\$21,626	\$21,626	\$7,000	\$904	\$3,032
 <u>Expense</u>					
Feed: Range 1,000 ewes @ \$7		7,000			
Hay 50 ton @ \$38	1,900	1,390		510	
Salt	100	100			
Dog food	180			180	
Shearing 1,419 @ 55¢	780	780			
Tag 1,200 @ 15¢	180	180			
Replacement rams 10 @ \$75	750	750			
Vet. and medicine	500	480		20	
Horse and dogs		904			
Taxes	2,199	307	1,784	10	98
Gasoline, oil and equipment repairs	1,200				1,200
Equipment		3,032			
Maintenance of roads, fences, corrals, barns	1,520		1,520		
Insurance	625	150	275		200
Misc. overhead	1,057	720	307	30	
Depreciation	3,092		1,812	100	1,180
Family labor	4,800	4,800			
Interest	9,878	1,314	8,156	54	354
Total	\$28,761	\$21,907	\$13,854	\$904	\$3,032
MANAGEMENT INCOME	\$-7,135	\$ -281	\$-6,854		

Comparison of raising ewe replacements, purchasing ewe lamb replacements, and purchasing yearling ewe replacements on a southwestern Humboldt ranch.

<u>INVESTMENT</u>	<u>Raised</u>	<u>Purchased Ewe Lambs</u>	<u>Purchased Yrlg. Ewes</u>
Range land, including fences	\$150,200	\$150,200	\$150,200
Barns, corrals, lambing sheds, etc.	9,800	9,800	9,800
Trucks, tractors, pickup, etc.	11,800	11,800	11,800
Horses and dogs	900	900	900
Bucks	1,700	1,700	1,904
Ewes	17,000	17,000	19,550
Replacement ewe lambs	<u>3,200</u>	<u>3,200</u>	<u> </u>
Total	\$194,600	\$194,600	\$194,154

<u>INCOME</u>			
Fat lambs @ 20¢	10,640	16,200	18,640
Feeder lambs @ 17¢	1,785	1,224	1,401
Cull ewes @ 4¢	910	910	1,045
Cull rams @ 3¢	47	47	58
Wool @ 80¢	6,240	6,240	7,174
Ram wool @ 80¢	236	236	264
Lamb wool @ 65¢	520	---	---
Replacement ewe wool @ 80¢	<u>1,170</u>	<u>1,170</u>	<u>---</u>
Total	\$21,626	\$26,027	\$28,582

<u>EXPENSES</u>			
Feed: Hay @ \$38/ton	1,900	1,900	1,900
Salt	100	100	100
Dog food	180	180	180
Shearing	780	670	647
Tag	180	180	173
Replacement rams	750	750	825
Replacement ewes		3,200	5,980
Vet., medicine and supplies	500	500	500
Taxes	2,199	2,199	2,250
Gasoline, oil, equipment repairs	1,200	1,200	1,200
Maintenance of fences, barns, corrals, roads	1,520	1,520	1,520
Insurance	625	625	625
Misc. overhead	1,057	1,057	1,057
Depreciation	3,092	3,092	3,092
Family labor	4,800	4,800	4,800
Interest @ 6%	<u>9,878</u>	<u>9,878</u>	<u>9,851</u>
Total	\$28,761	\$31,851	\$34,700
MANAGEMENT INCOME	\$-7,135	\$-5,824	\$-6,118

- 1,000 ewe band, 2.5% mortality, 900 lambs raised, 200 ewe lambs retained as replacements, 560 fat lambs @ 95#, 140 feeders @ 75#, 175 cull ewes @ 130#, 9 cull rams @ 175#, 975 ewes shorn @ 8#, 49 rams shorn @ 8#, 195 replacement yrlg. ewes shorn @ 7.5#, 200 ewe lambs shorn av. 4#.
- 1,000 ewe band, 2.5% mortality, 900 lambs raised, 200 shorn ewe lambs purchased @ \$16, 810 fat lambs @ 100#, 90 feeders @ 80#, 175 cull ewes @ 130#, 9 cull rams @ 175#, 975 ewes shorn @ 8#, 49 rams shorn @ 6#, 195 yrlg. ewes shorn av. 7.5#.
- 1,150 ewe band, 2.5% mortality, 230 shorn yrlg. ewes purchased as replacements @ \$26, 1,035 lambs raised, 932 fat lambs sold @ 100#, 103 feeders @ 80#, 201 cull ewes @ 130#, 11 cull rams @ 175#, 1,121 ewes shorn av. 8#, 55 rams shorn av. 6#.

Sample Income and Expense
Sheep Ranch on Humboldt Co. Coast

Based on 1,000 ewe band, 50 rams, 90% lamb crop, 2.5% mortality, 20% replacement

<u>Investment</u>	<u>Total Ranch</u>	<u>Sheep</u>	<u>Range</u>	<u>Horses & Dogs</u>	<u>Equipment</u>
Range land, including fences	\$140,600		\$140,600		
Barns, corrals, lambing sheds, etc.	19,400		19,400		
Trucks and tractors	11,800				11,800
Horses and dogs	900			900	
Bucks 50 @ \$34	1,700)				
Ewes 1,000 @ \$17	17,000)				
Ewe replacements 200 @ \$16	3,200)				
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Total	\$194,600	\$21,900	\$160,000	\$900	\$11,800
 <u>Income</u>					
80% fat lambs 560 @ 95# 53,200# @ 20¢	10,640	10,640			
20% feeder lambs 140 @ 75# 10,500# @ 17¢	1,785	1,785			
Cull ewes 175 @ 130# 22,750# @ 4¢	910	910			
Cull rams 9 @ 175# 1,575# @ 3¢	47	47			
Wool 975 @ 8# @ 80¢	6,240	6,240			
Ram wool 49 @ 8# 392# @ 80¢	314	314			
Lamb wool 200 @ 4# 800# @ 65¢	520	520			
Replacement ewe wool 195 @ 7½# 1,463# @ 80¢	1,170	1,170			
Transfers to sheep			7,000	904	3,035
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Total	\$21,626	\$21,626	\$ 7,000	\$904	\$ 3,035
 <u>Expense</u>					
Feed: Range 1,000 ewes @ \$7		7,000			
Hay 50 ton @ \$38	1,900	1,390		510	
Salt	100	100			
Dog food	180			180	
Shearing 1,419 @ 55¢	780	780			
Tag 1,200 @ 15¢	180	180			
Replacement rams 10 @ \$75	750	750			
Vet. and medicine	500	480		20	
Horse and dogs		904			
Taxes	2,625	316	2,198	10	101
Gasoline, oil and equipment repairs	1,200				1,200
Equipment		3,035			
Maintenance of fences, roads, corrals, barns	852		852		
Insurance	625	150	275		200
Misc. overhead	930	720	180	30	
Depreciation	2,310		1,030	100	1,180
Family labor	4,800	4,800			
Interest	10,450	1,314	8,728	54	354
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Total	\$28,182	\$21,929	\$13,263	\$904	\$3,035
MANAGEMENT INCOME	\$-6,556	\$ -293	\$-6,263		

Comparison of raising ewe replacements, purchasing ewe lambs, or purchasing yearling ewe on a Humboldt County coast ranch.

<u>INVESTMENT</u>	<u>Raised</u>	<u>Purchased Ewe Lambs</u>	<u>Purchased Yrlg. Ewes</u>
Range land, including fences	\$140,600	\$140,600	\$140,600
Barns, corrals, lambing sheds, etc.	19,400	19,400	19,400
Trucks, tractors, pickup, etc.	11,800	11,800	11,800
Horses and dogs	900	900	900
Bucks	1,700	1,700	1,904
Ewes	17,000	17,000	19,550
Replacement ewes	<u>3,200</u>	<u>3,200</u>	<u> </u>
Total	\$194,600	\$194,600	\$194,154

<u>INCOME</u>			
Fat lambs @ 20¢	10,640	16,200	18,240
Feeder lambs @ 17¢	1,785	1,224	1,401
Cull ewes @ 4¢	910	910	1,165
Cull rams @ 3¢	47	47	58
Wool @ 80¢	6,240	6,240	7,174
Ram wool @ 80¢	314	236	264
Lamb wool @ 65¢	520	---	---
Replacement ewe wool @ 80¢	<u>1,170</u>	<u>1,170</u>	<u>---</u>
Total	\$21,626	\$26,027	\$28,702

<u>EXPENSES</u>			
Feed: Hay @ \$38/ton	1,900	1,900	1,900
Salt	100	100	100
Dog food	180	180	180
Shearing	780	670	647
Tag	180	180	173
Replacement rams	750	750	825
Replacement ewes		3,200	5,980
Vet., medicine and supplies	500	500	500
Taxes	2,625	2,625	2,678
Gasoline, oil, and equipment repairs	1,200	1,200	1,200
Maintenance of fences, barns, corrals, roads	852	852	852
Insurance	625	625	625
Misc. overhead	930	930	930
Depreciation	2,310	2,310	2,310
Family labor	4,800	4,800	4,800
Interest @ 6%	<u>10,450</u>	<u>10,450</u>	<u>10,423</u>
Total	\$28,182	\$31,272	\$34,123
MANAGEMENT INCOME	\$-6,556	\$-5,245	\$-5,421

1. 1,000 ewe band, 2.5% mortality, 900 lambs raised, 200 ewe lambs retained as replacements, 560 fat lambs @ 95#, 140 feeders @ 75#, 175 cull ewes @ 130#, 9 cull rams 175#, 975 ewes shorn @ 8#, 49 rams shorn @ 8#, 195 replacement yrlg. ewes shorn @ 7.5#, 200 ewe lambs shorn av. 4#.
2. 1,000 ewe band, 2.5% mortality, 900 lambs raised, 200 shorn ewe lambs purchased @ \$16, 810 fat lambs @ 100#, 90 feeders @ 80#, 175 cull ewes @ 130#, 9 cull rams @ 175#, 975 ewes shorn @ 8#, 49 Rams shorn @ 6#, 195 yrlg. ewes shorn av. 7.5#.
3. 1,150 ewe band, 2.5% mortality, 230 shorn yrlg. ewes purchased as replacements @ \$26, 1,035 lambs raised, 932 fat lambs sold @ 100#, 103 feeders @ 80#, 201 cull ewes @ 130#, 11 cull rams @ 175#, 1,121 ewes shorn av. 8#, 55 rams shorn av. 6#.