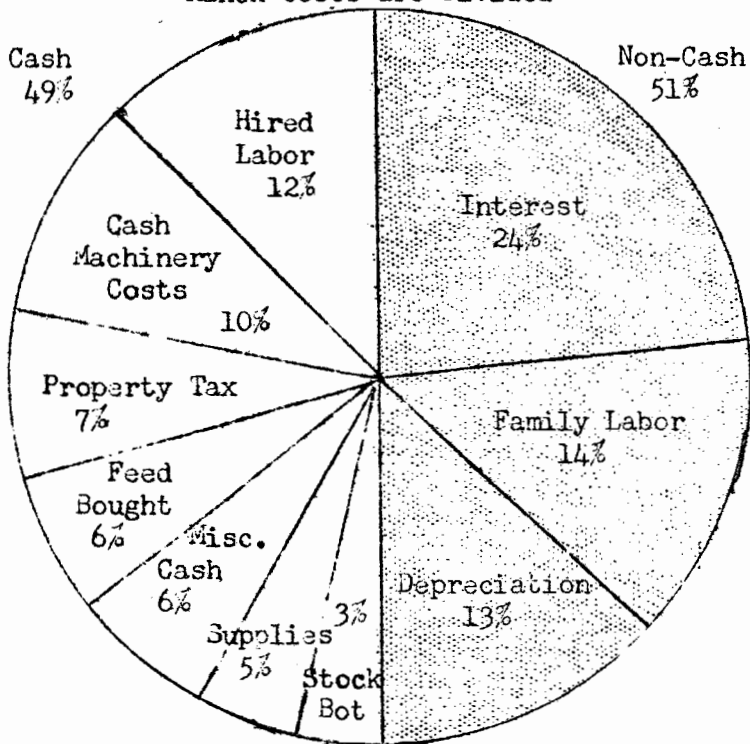


MODOC BEEF MANAGEMENT STUDY 1953

Ranch Costs are Divided



By

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Modoc Beef Management Study 1953

This report summarizes the operation of five beef ranches for the 1953 calendar year. All of the ranches experienced a net loss when family labor and interest on the investment are charged as expenses.

The following figures summarize some of the important management factors. The range columns show the high and low ranch for each item and therefore the various income and expense figures do not add to the totals.

	<u>RANGE</u>		
	<u>Low</u>	<u>High</u>	<u>Average</u>
No. breeding cows	102	472	324
Percent calf crop	75	88	81
Percent mortality	1.5	3.0	2.0
Lbs. beef produced per cow	383	665	529
Lbs. beef sold per cow	423	585	503
Income per cwt. produced	\$15.19	17.13	15.94
Expense per cwt.	15.77	25.78	19.91
Net Income per cwt.	-9.30	-.58	-3.97

ANALYSIS OF INCOME

Income per cow			
Beef sales	\$62.81	93.75	78.41
Hay & other sales	0	33.37	12.80
Change stock inventory	<u>-21.91</u>	<u>43.87</u>	<u>7.66</u>
Total Income	80.05	140.05	98.87
Av. price per cwt. of major stock sales	\$15.47	\$18.50	\$16.46
Av. weight per animal sold			
Calves	244	550	396
Yearling steers	655	890	765

High production x high price gives a good total income.

High production results from high calf crop, low mortality, and good growth.

High price results from a good marketing program backed by good quality, fast gaining stock marketed in uniform lots.

ANALYSIS OF EXPENSE

These expenses are for the entire ranch and not just the beef enterprise. They are therefore with some of the Beef Management Study figures published previously.

	<u>RANGE</u>		
	<u>Low</u>	<u>High</u>	<u>Average</u>
Expense per cow			
Stock bought	\$ 0	12.04	3.74
Range rent	1.17	6.56	3.24
Other feed bought	.04	14.12	3.83
Hired labor	5.34	22.47	13.69
Machinery fuel, oil, repairs	8.33	15.93	11.24
Property taxes	4.93	13.04	8.35
Beef supplies	1.99	8.66	6.45
Misc. cash cost	5.13	9.58	7.60
Depreciation	<u>9.91</u>	<u>19.66</u>	<u>15.43</u>
Total cash and deprec.	49.95	91.48	73.57
Family labor	11.42	29.41	15.95
Interest on investment	<u>21.91</u>	<u>45.68</u>	<u>28.66</u>
Total Cost	86.17	150.06	118.18

Quantity feed per cow			
Hay - tons	1.8	3.4	2.5
Concentrate - pounds	0	532	199
Acres owned range	4.8	10.0	8.3
Cost feed per unit			
Hay per ton	\$10.45	18.10	14.46
Concentrate per cwt.	2.47	2.65	2.56
Pasture per acre	.69	1.56	1.23

ANALYSIS OF NET INCOME

Total Income	80.05	140.05	98.87
Total cash & deprec. cost	<u>49.95</u>	<u>91.48</u>	<u>73.57</u>
Net farm income	-5.55	65.08	25.30
Family labor and interest	<u>35.07</u>	<u>75.09</u>	<u>44.61</u>
Management Income	-35.62	-2.69	-19.31

1953 MODOC COUNTY BEEF COST STUDY

N. Nichols and A. D. Reed

	8	11	6	5	12	Av.
No. breeding cows	243	102	472	432	370	324
Percent calf crop	?	86	88	76	75	81
Percent mortality	3	-	-	1.5	1.5	2.0
Pounds produced per cow	461	665	580	558	383	529
Pounds sold per cow	423	430	562	585	516	503
Income per cwt.	15.19	15.55	15.34	17.13	16.48	15.94
Expense per cwt.	15.77	17.05	19.25	21.72	25.78	19.91
Net Income per cwt.	-.58	-1.50	-3.91	-4.59	-9.30	-3.97
Income per cow						
Beef sales	66.25	62.81	84.17	93.75	85.07	78.41
Grain sales	10.22	32.08	-	-	6.77	9.81
Hay sales	-	-	-	-	10.12	2.02
Other cash	3.51	1.29	-	-	-	.97
Change stock inventory	3.50	43.87	4.89	7.96	-21.91	7.66
Total	83.48	140.05	89.06	101.71	80.05	98.87
Cash and depreciation cost per cow						
Stock bought	-	-	4.67	12.04	2.00	3.74
Range rent	3.58	2.50	2.39	6.56	1.17	3.24
Other feed bought	-	-	2.73	14.12	-	3.37
Salt	.04	1.50	.57	-	.20	1.46
Hired labor	5.34	13.81	13.12	13.70	22.47	13.69
Seed, water, etc.	1.06	3.95	.80	.98	3.20	2.00
Supplies	1.99	4.72	8.37	8.51	8.66	6.45
Veterinary	.23	-	1.47	1.37	1.77	.97
Machine hire and haul	4.26	.59	.96	2.61	-	1.68
Truck and tractor costs	11.67	10.20	7.37	8.07	10.49	9.56
Taxes	7.35	13.04	8.06	4.93	8.34	8.35
Insurance	1.93	4.10	2.51	1.70	1.22	2.29
Miscellaneous	2.58	.90	3.72	1.08	3.39	2.34
Depreciation	9.91	19.66	14.09	15.81	17.70	15.43
Total	49.95	74.97	70.83	91.48	80.61	73.57
Net farm income per cow	33.53	65.08	18.23	10.23	-.55	25.30
Family labor per cow	12.35	29.41	12.71	13.89	11.42	15.95
Interest on investment	23.87	45.68	28.19	21.91	23.65	28.66
Management Income per cow	-2.69	-10.01	-22.67	-25.57	-35.62	-19.31
Return per hour family labor	.78	.66	-	-	-	.72
Percent return on investment	4.4	3.9	1.0	-	-	3.1

1953 MODOC COUNTY BEEF COST STUDY

	8	11	6	5	12	Av.
Sales per cow						
Bulls	\$ 6.56	2.08	1.25	-	-	1.98
Cows	7.73	9.84	4.53	16.73	9.52	9.67
Calves	49.53	3.86	.41	3.44	20.10	15.47
Heifers	.37	9.45	20.57	4.93	29.91	13.04
Steers	2.06	37.58	57.41	68.64	25.54	38.25
Total	66.25	62.81	84.17	93.75	85.07	78.41
Average weight per animal sold						
Bulls	1500	1630	1480	-	-	1537
Cows	1048	945	905	930	799	925
Calves	387	402	550	244	398	396
Heifers	755	605	662	718	603	669
Steers	890	767	834	655	677	765
Average price per cwt.						
Bulls	17.70	13.00	13.20	-	-	14.63
Cows	11.32	9.66	18.26	10.65	11.90	12.36
Calves	16.30	19.55	11.76	15.63	18.15	16.28
Heifers	12.00	15.90	13.45	14.12	18.20	14.73
Steers						16.78
Feed costs per cow						
Hay	26.79	35.90	38.93	35.61	32.80	34.01
Concentrate	-	-	2.73	14.13	11.50	5.67
Rented range	3.58	2.50	2.39	2.89	1.17	2.51
Owned range	8.67	16.07	6.22	8.75	6.86	9.31
Salt	.04	1.51	.57	-	.19	.46
Total	39.08	55.98	50.84	61.38	52.52	51.96
Quantity feed per cow						
Hay - tons	1.8	3.4	3.2	2.0	1.9	2.5
Concentrate - pounds	-	-	-	532	465	499
Acres owned range	5.6	12.4	4.8	8.8	10.0	8.3
Cost feed per unit						
Hay per ton	14.50	10.45	12.25	18.10	17.02	14.46
Concentrate	-	-	-	2.65	2.47	2.56
Pasture per acre	1.56	1.30	1.28	1.33	.69	1.23
Investment per cow						
Fences & pasture improvement	13.19	53.92	3.75	-	6.95	15.56
Beef equipment	.53	40.82	11.47	3.95	20.71	15.50
Tractors, trucks etc.	9.62	30.00	36.30	28.36	9.90	22.34
Hay equipment	16.81	11.40	5.08	9.64	8.24	10.23
Other equipment	6.17	2.84	6.67	-	29.70	9.08
Cattle	242.04	285.32	324.62	271.96	215.18	267.32
Land - Lots	2.06	2.45	3.18	1.16	-	1.77
Hay	82.30	117.65	100.11	41.20	101.59	88.57
Grain	49.38	245.10	-	-	11.81	61.26
Range	55.56	124.02	72.59	81.90	68.89	80.59
Total	477.66	913.52	563.77	438.17	472.97	573.22

FOUR YEAR SUMMARY OF FOUR BEEF
RANCHES IN MODOC COUNTY

	Year			
	1950	1951	1952	1953
No. breeding cows	237	272	302	312
Percent calf crop	74	87	77	83
Percent mortality	3.2	2.8	3.0	2.3
Pounds beef produced per cow	481	554	525	566
Income per cwt. produced \$	22.17	28.59	23.36	15.80
Expense per cwt. produced	<u>21.49</u>	<u>20.88</u>	<u>20.38</u>	<u>18.44</u>
Net Income per cwt.	.68	7.71	2.98	-2.64
Income per cow				
Stock sales	\$128.27	147.30	119.64	76.74
Misc.	1.21	.72	.91	-
Change stock inventory	<u>-6.41</u>	<u>20.06</u>	<u>10.08</u>	<u>13.48</u>
Total Income	123.07	168.08	130.63	99.22
Expense per cow*				
Feed	63.14	78.35	56.34	51.82
Stock purchased	15.43	8.96	7.12	4.18
Beef labor	13.41	11.86	9.97	10.10
Misc. cash beef cost	8.53	8.80	25.30	22.73
Depreciation	1.40	1.36	1.62	1.76
Interest	<u>17.90</u>	<u>16.05</u>	<u>15.45</u>	<u>14.87</u>
Total	119.81	125.38	115.80	105.46
Management Income per Cow	<u>3.26</u>	42.70	14.83	-15.24
Feed cost per cow	21.18	53.15	30.78	21.00
Hay	41.67	58.61	37.11	34.31
Concentrate	6.03	5.71	6.56	4.22
Range	14.47	13.65	12.05	12.76
Salt	<u>.97</u>	<u>.38</u>	<u>.62</u>	<u>.53</u>
Total	63.14	78.35	56.34	51.82

* These costs are figured on the beef enterprise as a separate operation from the ranch. The feed costs include the costs of purchased feed plus the cost of raising home grown feed. The other costs apply only to the beef enterprise.