

## **APPENDIX P**

# **RANCH BUDGETS AND METHODOLOGY FOR ASSESSING RANCH-RELATED IMPACTS**

Each of the allotments and range users were first evaluated for their dependency on BLM grazing permits. Those allotments with twenty-five or fewer BLM AUMs were eliminated. The remaining 181 allotments were divided into five categories of ranch sizes. For each operator, the BLM AUMs were divided by the total ranch AUMs to determine the dependency of each operator on BLM grazing permits. These dependency ratios were then averaged for each size class. These ratios may understate dependency because of the importance of BLM grazing in specific seasons.

Ranch budgets were developed for each size class. These budgets look only at the cattle ranching portion of an operation. They do not look at other sources of income such as grain farming or outside employment, which is common among the smaller operators.

Proposed changes in AUMs in each alternative were converted into cattle numbers based upon a seven month grazing season. It was assumed that all of these increases or decreases would be added or subtracted from sales. Each maximum and minimum change for each size class was added to the ranch budgets and appropriate cost changes were made. Then returns above cash costs for each change was calculated. Tables P-1 to P-5 show the ranch budgets for each size class.

**TABLE P-1**  
**RANCH BUDGETS, SIZE CLASS 1: 0-100 Head**

<b>Sales</b>	<b>Number</b>	<b>Average Weight (lbs.)</b>	<b>Price/Cwt.<sup>1</sup> (\$)</b>	<b>Total Value (\$)</b>
Steer Calves	24	450	71.23	7,693
Heifer Calves	12	410	62.82	3,090
Feeder Steers	3	725	59.02	1,284
Cull Cows	8	1,000	36.99	2,959
Total				15,026
Total/Head				273.20

  

<b>Cash Costs</b>	<b>Total Value (\$)</b>	<b>Value/Head (\$)</b>
BLM Permit	364	6.18
State Lease	36	.65
Private Lease	783	14.24
Grazing Association	109	1.98
Hay (Produced)	3,559	64.70
Hay (Purchased)	652	11.85
Barley (Produced)	114	2.07
Protein Supp.	209	3.80
Salt & Minerals	193	3.51
Vet & Medicine	383	6.96
Trucking	118	2.15
Marketing	322	5.85
Hired Labor	180	3.27
Machine Fuel & Labor	1,034	18.80
Machine Repair	1,064	19.35
Equipment Fuel & Labor	177	3.22
Equipment Repair	224	4.07
Land Tax	603	10.96
Other Tax	131	2.38
Insurance	114	2.07
General Farm Overhead	594	10.80
Interest on Oper. Capital	510	9.27
Total Cash Costs	11,473	208.13
<b>Other Costs</b>		
Family Labor	2,830	51.45
Depreciation	2,157	39.22
Interest on Investment Other Than Land	4,540	82.55
Interest on Land Investment	12,200	221.82
Total	21,727	395.04
Total All Costs	33,200	603.17
Return Above Cash Costs	3,553	
Return Above Cash Costs and Family Labor	723	
Return on Investment Other Than Land	-5,974	
Return on Land Investment	2,826	

Production Assumptions: Herds 55 cows, 95% calf crop, 5% calf death loss to weaning, 25 cows per bull, 20% replacement rates, 2% cow loss.

<sup>1</sup>Cwt — Hundred Weight

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**TABLE P-2**  
**RANCH BUDGETS, SIZE CLASS 2: 101-250 HEAD**

<b>Sales</b>	<b>Number</b>	<b>Average Weight (lbs.)</b>	<b>Price/Cwt.<sup>1</sup> (\$)</b>	<b>Total Value (\$)</b>
Steer Calves	69	450	71.23	22,116.91
Heifer Calves	43	410	62.82	11,075.17
Feeder Steers	8	725	59.02	3,423.16
Cull Cows	31	1,000	36.99	1,466.90
Total				48,082.14
Total/Head				282.84

  

<b>Cash Costs</b>	<b>Total Value (\$)</b>	<b>Value/Head (\$)</b>
BLM Permit	873	5.14
State Lease	47	.28
Private Lease	1,719	10.11
Grazing Association	300	1.76
Hay (Produced)	10,136	59.62
Hay (Purchased)	1,905	11.21
Barley (Produced)	322	1.89
Protein Supp.	592	3.48
Salt & Minerals	545	3.21
Vet & Medicine	1,092	6.42
Trucking	401	2.36
Marketing	843	4.96
Hired Labor	902	5.31
Machine Fuel & Labor	1,829	10.76
Machine Repair	1,618	9.52
Equipment Fuel & Labor	306	1.80
Equipment Repair	607	3.57
Land Tax	1,770	10.41
Other Tax	317	1.86
Insurance	874	5.14
General Farm Overhead	1,517	8.92
Interest on Oper. Capital	1,526	8.98
Total Cash Costs	30,041	176.71
<b>Other Costs</b>		
Family Labor	6,606	38.86
Depreciation	5,642	33.19
Interest on Investment Other Than Land	12,466	73.33
Interest on Land Investment	41,112	241.84
Total	65,826	387.22
Total All Costs	95,867	563.93
Return Above Cash Costs	18,041.14	
Return Above Cash Costs and Family Labor	11,435.14	
Return on Investment Other Than Land	-6,672.86	
Return on Land Investment	6,970.14	

Production Assumptions: Herd size 170 cows, 95% calf crop, 5% calf death loss to weaning, 25 cows per bull, 20% replacement rates, 2% cow loss.

<sup>1</sup>Cwt — Hundred Weight

**TABLE P-3  
RANCH BUDGETS, SIZE CLASS 3: 251-500 Head**

<b>Sales</b>	<b>Number</b>	<b>Average Weight (lbs.)</b>	<b>Price / Cwt.<sup>1</sup> (\$)</b>	<b>Total Value (\$)</b>
Steer Calves	142	450	71.23	45,515.91
Heifer Calves	88	410	62.82	22,665.46
Feeder Steers	16	725	59.02	6,846.32
Cull Cows	63	1,000	36.99	2,330.37
Total				98,331.39
Total/Head				280.95

  

<b>Cash Costs</b>	<b>Total Value (\$)</b>	<b>Value/Head (\$)</b>
BLM Permit	2,244	6.41
State Lease	268	.77
Private Lease	990	2.83
Grazing Association	617	1.76
Hay (Produced)	21,097	60.28
Hay (Purchased)	3,872	11.06
Barley (Produced)	659	1.88
Protein Supp.	1,220	3.49
Salt & Minerals	1,142	3.26
Vet & Medicine	2,026	5.79
Trucking	572	1.63
Marketing	716	2.05
Hired Labor	3,944	11.27
Machine Fuel & Labor	2,818	8.05
Machine Repair	2,823	8.07
Equipment Fuel & Labor	707	2.02
Equipment Repair	1,266	3.62
Land Tax	3,529	10.08
Other Tax	572	1.63
Insurance	1,777	5.08
General Farm Overhead	2,831	8.09
Interest on Oper. Capital	2,980	8.51
<b>Total Cash Costs</b>	<b>58,670</b>	<b>167.63</b>
<b>Other Costs</b>		
Family Labor	14,508	41.45
Depreciation	10,914	31.18
Interest on Investment Other Than Land	25,280	72.23
Interest on Land Investment	83,462	238.46
Total	134,164	383.32
Total All Costs	192,834	550.95
Return Above Cash Costs	39,661.39	
Return Above Cash Costs and Family Labor	25,153.39	
Return on Investment Other Than Land	-11,040.61	
Return on Land Investment	14,869.39	

Production Assumptions: Herd size 350 cows, 95% calf crop, 5% calf death loss, 20 cows per bull, 20% replacement rates, 2% cow loss.

<sup>1</sup>Cwt — Hundred Weight

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**TABLE P-4  
RANCH BUDGETS, SIZE CLASS 4: 501-1000 Head**

<b>Sales</b>	<b>Number</b>	<b>Average Weight (lbs.)</b>	<b>Price/Cwt.<sup>1</sup> (\$)</b>	<b>Total Value (\$)</b>
Steer Calves	365	450	71.23	116,995.27
Heifer Calves	226	410	62.82	58,209.00
Feeder Steers	41	725	59.02	17,543.70
Cull Cows	162	1,000	36.99	59,923.80
Total				252,671.77
Total/Head				280.75

<b>Cash Costs</b>	<b>Total Value (\$)</b>	<b>Value/Head (\$)</b>
BLM Permit	4,506	5.01
State Lease	244	.27
Private Lease	1,545	1.72
Grazing Association	1,578	1.75
Hay (Produced)	54,132	60.15
Hay (Purchased)	9,961	11.07
Barley (Produced)	1,705	1.89
Protein Supp.	3,137	3.49
Salt & Minerals	2,938	3.26
Vet & Medicine	5,212	5.79
Trucking	1,469	1.63
Marketing	1,839	2.04
Hired Labor	10,141	11.27
Machine Fuel & Labor	7,247	8.05
Machine Repair	7,258	8.07
Equipment Fuel & Labor	1,817	2.02
Equipment Repair	3,253	3.61
Land Tax	9,075	10.08
Other Tax	1,469	1.63
Insurance	4,570	5.08
General Farm Overhead	7,278	8.09
Interest on Oper. Capital	7,510	8.34
Total Cash Costs	147,884	164.31
<b>Other Costs</b>		
Family Labor	20,587	22.87
Depreciation	28,062	31.18
Interest on Investment Other Than Land	65,025	72.25
Interest on Land Investment	251,482	279.42
Total	365,156	405.72
Total All Costs	513,040	570.03
Return Above Cash Costs	104,787.77	
Return Above Cash Costs and Family Labor	84,200.77	
Return on Investment Other Than Land	-8,886.23	
Return on Land Investment	1,189.77	

Production Assumptions: Herd size 900 cows, 95% calf crop, 5% calf death loss, 20 cows per bull, 20% replacement rates, 2% cow loss.

<sup>1</sup>Cwt — Hundred Weight

**TABLE P-5**  
**RANCH BUDGETS, SIZE CLASS 5: More Than 1,000 Cows**

<b>Sales</b>	<b>Number</b>	<b>Average Weight (lbs.)</b>	<b>Price/Cwt.<sup>1</sup> (\$)</b>	<b>Total Value (\$)</b>
Steer Calves	608	450	71.23	194,885.28
Heifer Calves	377	410	62.82	97,100.87
Feeder Steers	68	725	59.02	29,096.86
Cull Cows	270	1,000	36.99	99,873.00
Total				420,956.01
Total/Head				280.63

  

<b>Cash Costs</b>	<b>Total Value (\$)</b>	<b>Value/Head (\$)</b>
BLM Permit	7,675	5.17
State Lease	406	.27
Private Lease	2,575	1.72
Grazing Association	2,630	1.75
Hay (Produced)	90,220	60.15
Hay (Purchased)	16,802	11.07
Barley (Produced)	2,842	1.89
Protein Supp.	5,228	3.49
Salt & Minerals	4,897	3.26
Vet & Medicine	8,687	5.79
Trucking	2,448	1.63
Marketing	3,065	2.04
Hired Labor	16,902	11.27
Machine Fuel & Labor	12,078	8.05
Machine Repair	12,097	8.06
Equipment Fuel & Labor	3,028	2.02
Equipment Repsir	5,422	3.62
Land Tax	15,125	10.08
Other Tax	2,448	1.63
Insurance	7,617	5.08
General Farm Overhead	12,130	8.09
Interest on Oper. Capital	12,517	8.34
Total Cash Costs	246,643	164.47
<b>Other Costs</b>		
Family Labor	34,312	22.87
Depreciation	46,770	31.18
Interest on Investment Other Than Land	108,375	72.25
Interest on Land Investment	419,137	279.42
Total	608,594	405.72
Total All Costs	855,237	570.19
Return Above Cash Costs	174,313.01	
Return Above Cash Costs and Family Labor	140,001.01	
Return on Investment Other Than Land	-15,143.99	
Return on Land Investment	1,819.01	

Production Assumptions: Herd size 1,500 cows, 95% calf crop, 5% calf death loss, 20 cows per bull, 20% replacement rates, 2% cow loss.

<sup>1</sup>Cwt — Hundred Weight