

**CENTRAL REGION  
LARGE COW/CALF BUDGET**

BREED HERD SIZE **228**      COW to BULL **20**      CALF CROP PERCENT<sup>1</sup> 85%  
CULL RATE 15%      REPLACEMENT HEIFER'S KEPT 34

**VALUE OF PRODUCTION**

	QUANTITY	WEIGHT	PRICE <sup>2</sup>	VALUE	VALUE PER COW	NEW VALUE
STEER CALVES	97	515	\$1.21	\$60,251	\$264.84	_____
HEIFER CALVES	63	495	\$1.06	\$32,827	\$144.29	_____
CULL COWS	34	900	\$0.54	\$16,585	\$72.90	_____
CULL BULLS	1	1200	\$0.61	<u>\$732</u>	<u>\$3.22</u>	_____
<b>TOTAL</b>	<b>194</b>			<b>\$110,394</b>	<b>\$485.25</b>	_____

**VARIABLE COSTS**

	UNITS	QUANTITY/PERCENT	PRICE	COST	VALUE PER COW	NEW VALUE
<b>1. FEED COSTS</b>						
HAY	TON	45.50	\$140	\$6,370	\$28.00	_____
STATE	AUY	20.0%	\$25.08	\$0	\$0.00	_____
FEDERAL LEASE	AUY	40.0%	\$16.20	\$3,686	\$16.20	_____
PRIVATE(Owned)	AUY	40.0%	\$0.00	\$0	\$0.00	_____
PRIVATE(Leased Grazing)	AUY	0.0%	\$144.00	\$0	\$0.00	_____
SALT & MINERAL	TON	6.00	\$230	\$1,380	\$6.07	_____
PROTEIN SUPP	TON	11.00	\$350	\$3,850	\$16.92	_____
OTHER		0.00	\$0	<u>\$0</u>	<u>\$0.00</u>	_____
<b>TOTAL</b>				<b>\$15,286</b>	<b>\$67.19</b>	_____

**2. OTHER VARIABLE COSTS**

	COST	VALUE PER COW	NEW VALUE
VET AND MEDICINE	\$2,844	\$12.50	_____
LIVESTOCK HAULING	\$1,020	\$4.49	_____
HIRED LABOR	\$0	\$0.00	_____
OPERATING COSTS-EQUIP & MACH	\$1,600	\$7.03	_____
OPERATING COSTS-VEHICLE	\$2,075	\$9.12	_____
RANCH MAINTENANCE	\$2,700	\$11.87	_____
BEEF CHECKOFF	\$159	\$0.70	_____
PURCHASED LIVESTOCK	<u>\$9,000</u>	<u>\$39.56</u>	_____
<b>TOTAL</b>	<b>\$19,398</b>	<b>\$85.27</b>	_____

**3. INTEREST ON VARIABLE COSTS**

SUM OF VARIABLE COSTS X MONTHS BORROWED			
X INTEREST RATE PER MONTH			
ANNUAL INTEREST RATE	7.5%		
NUMBER OF MONTHS BORROWED	6	VALUE PER COW	
		\$1,301	\$5.72
		<u>\$35,985</u>	<u>\$158.17</u>
<b>TOTAL</b>		<b>\$74,409</b>	<b>\$327.07</b>

**OWNERSHIP COSTS**

	Annual Capital Recovery <sup>4</sup> (At Replacement Valve):	Represents 65% Asset Ownership <sup>5</sup>	VALUE PER COW	NEW VALUE
<b>CASH COSTS</b>				
Taxes & Insurance		\$11,301	\$49.67	_____
Overhead		\$2,200	\$9.67	_____
<b>Total</b>		<b>\$13,501</b>	<b>\$59.34</b>	_____
<b>NON CASH COSTS</b>				
Purchased Livestock		\$7,453	\$32.76	_____
Machinery & Equipment		\$11,001	\$48.36	_____
Housing & Improvements		\$14,195	\$62.40	_____
Interest on Retained Livestock <sup>6</sup>		\$14,576	\$64.07	_____
Management & Operation Labor ( 6% of gross returns)		\$6,624	\$29.11	_____
<b>Total</b>		<b>\$53,849</b>	<b>\$236.70</b>	_____
<b>TOTAL FIXED COSTS</b>		<b>\$67,350</b>	<b>\$296.04</b>	_____
<b>TOTAL CASH AND VARIABLE COSTS</b>		<b>\$49,486</b>	<b>\$217.52</b>	_____
<b>TOTAL COSTS</b>		<b>\$103,335</b>	<b>\$454.22</b>	_____
<b>RETURN ABOVE TOTAL CASH COSTS</b>		<b>\$60,909</b>	<b>\$267.73</b>	_____
<b>RETURN ABOVE TOTAL COSTS</b>		<b>\$7,059</b>	<b>\$31.03</b>	_____

**BREAKEVEN CALCULATIONS**

	VARIABLE COSTS	TOTAL COSTS
REQUIRED AVG. CALF PRICES CASH COST (cwt)	\$36.85	\$50.67
REQUIRED AVG. CALF PRICES TOTAL COSTS(cwt)	\$36.85	\$105.82

1) Calf crop is defined as the actual number of calves sold divided, by the total number of cows (assuming all cows were exposed).

2) Prices represent 2005 price projections from Cattle Fax, Doanes reports for New Mexico feeder cattle cash prices

3) Market prices include commissions, brand inspections, beef council, yardage, feed, and insurance

4) Annual capital recovery is the method of calculating depreciation and interest recommended by the National Task Force on Commodity Costs and Returns Measurement Methods

5) The 35% reduction in asset values which represent a mix of new and used machinery.

6) Interest on average investment.

**CENTRAL MOUNTAIN REGION  
LARGE RANCH INVESTMENTS**

Number	Land Values	Price Per Unit	10 Yr Avg Rate of Return	Purchase Price	Salvage/Cull Value	Useful Life	Livestock Share	Annual Capital Recovery
10000	Acres of private land	\$200	3.9%	\$2,000,000	\$2,000,000			\$1,550.00
307	AU Values <sup>1</sup>	\$3,000	3.9%	\$921,375	\$921,375			
<b>Sub Totals</b>				\$2,921,375				
Number	Buildings, Improvements	Price Per Unit	Rate of Return	Purchase Price	Salvage/Cull Value	Useful Life	Livestock Share	Annual Capital Recovery
4	Miles of pipeline	\$2,000	3.9%	\$8,000	\$800	25	100	\$487
2	Wells	\$13,000	3.9%	\$26,000	\$2,600	25	100	\$1,583
40	Miles of Fence	\$4,000	3.9%	\$160,000	\$16,000	25	100	\$9,745
1	Corrals/Working Facilities	\$5,000	3.9%	\$5,000	\$500	30	100	\$277
1	Barns & Shop	\$10,000	3.9%	\$10,000	\$1,000	30	100	\$553
<b>Sub Totals</b>				\$209,000				\$14,195
Number	Machinery & Vehicles	Price Per Unit	Interest Rate <sup>3</sup>	Purchase Price	Salvage/Cull Value	Useful Life	Livestock Share	Annual Capital Recovery
1	3/4 ton pickup 4WD	\$30,000	7.5%	\$30,000	\$6,000	7	50	\$2,491
1	1 ton pickup 4WD	\$32,000	7.5%	\$32,000	\$6,400	7	50	\$2,657
1	Tractor	\$5,000	7.5%	\$5,000	\$1,000	7	100	\$830
2	Gooseneck trailer	\$6,500	7.5%	\$13,000	\$2,600	7	100	\$2,159
1	Horse tack	\$6,500	7.5%	\$6,500	\$1,300	10	100	\$855
1	Misc. equipment	\$3,500	7.5%	\$3,500	\$700	10	100	\$460
<b>Sub Total</b>				\$90,000				\$11,001
Head	Purchased Livestock	Price Per Unit	Interest Rate <sup>3</sup>	Purchase Price	Salvage/Cull Value	Useful Life	Livestock Share	Annual Capital Recovery
10	Horses	\$2,500	6.5%	\$25,000	\$9,500	10	100	\$2,774
11	Bulls	\$2,000	6.5%	\$22,750	\$8,645	4	100	\$4,679
53	Cows	\$1,100.00	6.5%	\$58,300	\$22,154	8	100	\$7,377
93	<b>Total AUUs</b>			\$106,050	\$40,300			\$14,830
<b>Sub Total</b>				\$47,750				\$7,453
Head	Retained Livestock	Price Per Unit	Interest Rate	Purchase Price	Salvage/Cull Value	Useful Life	Livestock Share	Annual Capital Recovery
228	Cows	\$1,100	6.5%	\$250,250	\$95,095			\$12,827
34	Replacement Heifers	\$1,000	6.5%	\$34,125	\$12,968			\$1,749
253	<b>Total AUUs</b>			\$284,375	\$108,063			\$14,576
<b>Sub Total</b>				\$284,375	\$108,063			\$14,576
<b>Total</b>				<u>\$3,552,500</u>				<u>\$39,773</u>

- 1) The interest rate of 3.9% used to calculate the capital recovery cost is the USDA-ERS's ten year average long-run rate of return to production assets for New Mexico.
- 2) For intermediate assets an interest rate of 7.50% was used.
- 3) A rate of 6.50 percent reflects a typical return on a low -risk investment (30 YR Treasury Bond)