

**CENTRAL REGION
MEDIUM COW/CALF BUDGET 2019**

BREED HERD SIZE 170 COW to BULL 20 CALF CROP PERCENT¹ 83%
CULL RATE 15% REPLACEMENT HEIFER'S KEPT 25.5

VALUE OF PRODUCTION						
	QUANTITY	WEIGHT	PRICE ²	VALUE	VALUE PER COW	NEW VALUE
STEER CALVES	71	515	\$1.65	\$59,950	\$352.65	_____
HEIFER CALVES	45	495	\$1.60	\$35,680	\$209.88	_____
CULL COWS	26	900	\$0.72	\$16,524	\$97.20	_____
CULL BULLS	1	1200	\$0.84	\$1,008	\$5.93	_____
TOTAL	142			\$113,161	\$665.66	_____

VARIABLE COSTS

1. FEED COSTS						
	UNITS	QUANTITY/PERCENT	PRICE	COST	VALUE PER COW	NEW VALUE
HAY	TON	28.00	\$160	\$4,480	\$26.35	_____
STATE	AUY	30.0%	\$33.48	\$0	\$0.00	_____
FEDERAL LEASE	AUY	40.0%	\$17.52	\$2,978	\$17.52	_____
PRIVATE(Owned)	AUY	30.0%	\$0.00	\$0	\$0.00	_____
PRIVATE(Leased Grazing)	AUY	0.0%	\$0.00	\$0	\$0.00	_____
SALT & MINERAL	TON	5.00	\$710	\$3,550	\$20.88	_____
PROTEIN SUPP	TON	8.00	\$355	\$2,840	\$16.71	_____
OTHER		0.00	\$0	\$0	\$0.00	_____
TOTAL				\$13,848	\$81.46	_____

2. OTHER VARIABLE COSTS						
				COST	VALUE PER COW	NEW VALUE
VET AND MEDICINE				\$2,687	\$15.81	_____
LIVESTOCK HAULING				\$661	\$3.89	_____
HIRED LABOR				\$0	\$0.00	_____
OPERATING COSTS-EQUIP & MACH				\$1,315	\$7.74	_____
OPERATING COSTS-VEHICLE				\$1,973	\$11.61	_____
RANCH MAINTENANCE				\$2,300	\$13.53	_____
BEEF CHECKOFF				\$116	\$0.68	_____
PURCHASED LIVESTOCK				\$15,000	\$88.24	_____
TOTAL				\$24,052	\$141.48	_____

3. INTEREST ON VARIABLE COSTS						
					VALUE PER COW	NEW VALUE
SUM OF VARIABLE COSTS X MONTHS BORROWED						_____
X INTEREST RATE PER MONTH						_____
ANNUAL INTEREST RATE				6.50%		_____
NUMBER OF MONTHS BORROWED				6		_____
				\$1,232	\$7.25	_____
				\$39,132	\$230.19	_____
TOTAL				\$74,029	\$435.47	_____

OWNERSHIP COSTS

Annual Capital Recovery ⁴ (At Replacement Value):						
				Represents 65% Asset Ownership ⁵	VALUE PER COW	NEW VALUE
CASH COSTS						
Taxes & Insurance				\$4,515	\$26.56	_____
Overhead				\$2,100	\$12.35	_____
Total				\$6,615	\$38.91	_____
NON CASH COSTS						
Purchased Livestock				\$5,403	\$31.78	_____
Machinery & Equipment				\$4,307	\$25.33	_____
Housing & Improvements				\$11,698	\$68.81	_____
Interest on Retained Livestock ⁶				\$9,009	\$52.99	_____
Management & Operation Labor (6% of gross returns)				\$6,790	\$39.94	_____
Total				\$37,206	\$218.86	_____
TOTAL FIXED COSTS				\$43,821	\$257.77	_____
TOTAL CASH AND VARIABLE COSTS				\$45,747	\$269.10	_____
TOTAL COSTS				\$82,953	\$487.96	_____
RETURN ABOVE TOTAL CASH COSTS				\$67,414	\$396.56	_____
RETURN ABOVE TOTAL COSTS				\$30,208	\$177.70	_____

BREAKEVEN CALCULATIONS

	VARIABLE COSTS	TOTAL COSTS
REQUIRED AVG. CALF PRICES CASH COST (cwt)	\$54.92	\$64.20
REQUIRED AVG. CALF PRICES TOTAL COSTS(cwt)	\$54.92	\$116.42

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 2019 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
MEDIUM 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
750	Acres of private land	\$800	3.9%	\$600,000	\$600,000			\$116.25
230	AU Values ¹	\$3,000	3.9%	\$688,500	\$688,500			
Sub Totals				\$1,288,500				
Number	Buildings, Improvements	Price Per Unit						
2	Miles of pipeline	\$4,000	3.9%	\$8,000	\$800	25	100	\$487
1	Wells	\$20,000	3.9%	\$20,000	\$2,000	25	100	\$1,218
18	Miles of Fence	\$8,000	3.9%	\$144,000	\$14,400	25	100	\$8,770
1	Corrals/Working Facilities	\$5,000	3.9%	\$5,000	\$500	30	100	\$277
1	Barns & Shop	\$15,000	3.9%	\$15,000	\$1,500	30	100	\$830
Sub Totals				\$192,000				\$11,698
Number	Machinery & Vehicles	Price Per Unit	Interest Rate³	Price	Salvage/Cull			
1	3/4 ton pickup 4WD	\$35,000	4.0%	\$35,000	\$7,000	7	50	\$2,473
0	3/4 ton pickup 4WD	\$35,000	4.0%	\$0	\$0	7	50	\$0
0	Tractor	\$5,000	4.0%	\$0	\$0	7	100	\$0
1	Gooseneck trailer	\$6,500	4.0%	\$6,500	\$1,300	7	100	\$918
1	Horse tack	\$5,000	4.0%	\$5,000	\$1,000	10	100	\$533
1	Misc. equipment	\$2,500	4.0%	\$2,500	\$500	10	100	\$267
Sub Total				\$49,000				\$4,307
Head	Purchased Livestock	Price Per Unit	Interest Rate³	Price	Salvage/Cull			
6	Horses	\$1,200	4.0%	\$7,200	\$2,736	10	100	\$660
9	Bulls	\$3,000	4.0%	\$25,500	\$9,690	4	100	\$4,743
30	Cows	\$1,500	4.0%	\$45,000	\$17,100	8	100	\$4,828
56	Total AUUs							
Sub Total				\$32,700				\$5,403
Head	Retained Livestock	Price Per Unit	Interest Rate	Price	Salvage/Cull		Interest on Investment	
170	Cows	\$1,500	4.0%	\$255,000	\$96,900			\$8,043
26	Replacement Heifers	\$1,200	4.0%	\$30,600	\$11,628			\$965
189	Total AUUs							
Sub Total				\$285,600	\$108,528			\$9,009
Total				\$1,847,800				\$25,014

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 6.50% was used.

3) A rate of 6.50 percent reflects a typical return on a low -risk investment (30 YR Treasury Bond)