

**NORTHEAST REGION  
LARGE COW/CALF BUDGET**

BREED HERD SIZE **140** COW to BULL **20** CALF CROP PERCENT<sup>1</sup> **84%**  
CULL RATE **15%** REPLACEMENT HEIFER'S KEPT **21**

**VALUE OF PRODUCTION**

	QUANTITY	WEIGHT	PRICE <sup>2</sup>	VALUE	VALUE PER COW	NEW VALUE
STEER CALVES	59	550	\$1.10	\$35,574	\$254.10	_____
HEIFER CALVES	38	515	\$1.05	\$20,440	\$146.00	_____
CULL COWS	<u>37</u>	<u>1000</u>	<u>\$0.48</u>	<u>\$17,760</u>	\$126.86	_____
CULL BULLS	1	1400	\$0.59	\$826	\$5.90	_____
<b>TOTAL</b>	<b>135</b>			<b>\$74,600</b>	<b>\$532.86</b>	

**VARIABLE COSTS**

		UNITS	QUANTITY/PERCENT	PRICE	COST	VALUE PER COW	NEW VALUE
<b>1. FEED COSTS</b>							
	HAY	TON	16.00	\$140	\$2,240	\$16.00	_____
	STATE	AUY	20.0%	\$25.08	\$0	\$0.00	_____
	FEDERAL LEASE	AUY	40.0%	\$16.20	\$2,268	\$16.20	_____
	PRIVATE(Owned)	AUY	40.0%	\$0.00	\$0	\$0.00	_____
	PRIVATE(Leased Grazing)	AUY	0.0%	\$96.00	\$13,440	\$96.00	_____
	SALT & MINERAL	TON	4.00	\$230	\$920	\$6.57	_____
	PROTEIN SUPP	TON	17.00	\$250	\$4,250	\$30.36	_____
	OTHER		0.00	\$0	\$0	\$0.00	_____
	<b>TOTAL</b>				<b>\$23,118</b>	<b>\$165.13</b>	

**2. OTHER VARIABLE COSTS**

		COST	VALUE PER COW	NEW VALUE
	VET AND MEDICINE	\$1,680	\$12.00	_____
	LIVESTOCK HAULING	\$673	\$4.81	_____
	HIRED LABOR	\$0	\$0.00	_____
	OPERATING COSTS-EQUIP & MACH	\$2,000	\$14.29	_____
	OPERATING COSTS-VEHICLE	\$2,500	\$17.86	_____
	RANCH MAINTENANCE	\$2,200	\$15.71	_____
	BEEF CHECKOFF	\$97	\$0.69	_____
	OTHER	\$3,000	\$21.43	_____
	<b>TOTAL</b>	<b>\$12,150</b>	<b>\$86.78</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	

<b>INTEREST COSTS</b>	\$1,323	\$9.45	
<b>TOTAL VARIABLE COSTS</b>	<b>\$36,590</b>	<b>\$261.36</b>	
<b>RETURN ABOVE VARIABLE COSTS</b>	<b>\$38,010</b>	<b>\$271.50</b>	

**OWNERSHIP COSTS**

		Annual Capital Recovery <sup>4</sup> (At Replacement Value):	Represents 65% Asset Ownership	VALUE PER COW	NEW VALUE
<b>CASH COSTS</b>			<b>TOTAL</b>		
	Taxes & Insurance		\$7,801	\$55.72	_____
	Overhead		\$2,100	\$15.00	_____
			<u>\$9,901</u>	\$70.72	_____
<b>NON CASH COSTS</b>					
	Purchased Livestock		\$4,377	\$31.27	_____
	Machinery & Equipment		\$7,801	\$55.72	_____
	Housing & Improvements		\$19,626	\$140.19	_____
	Interest on Retained Livestock <sup>6</sup>		\$8,970	\$64.07	_____
	Management & Operation Labor ( 6% of gross returns)		\$2,281	\$16.29	_____
	<b>TOTAL NON CASH COSTS</b>		<b>\$43,055</b>	<b>\$307.54</b>	
	<b>TOTAL FIXED COSTS</b>		<b>\$52,956</b>	<b>\$378.26</b>	
	<b>TOTAL CASH AND VARIABLE COSTS</b>		<b>\$46,491</b>	<b>\$332.08</b>	
	<b>TOTAL COSTS</b>		<b>\$89,546</b>	<b>\$639.62</b>	
	<b>RETURN ABOVE TOTAL CASH COSTS</b>		<b>\$28,109</b>	<b>\$200.78</b>	
	<b>RETURN ABOVE TOTAL COSTS</b>		<b>(\$14,946)</b>	<b>(\$106.76)</b>	

**BREAKEVEN CALCULATIONS**

	VARIABLE COSTS	TOTAL COSTS
REQUIRED AVG. CALF PRICES CASH COST (cwt)	\$58.43	\$74.24
REQUIRED AVG. CALF PRICES TOTAL COSTS(cwt)	\$58.43	\$143.00

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 2004 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.

**NORTHEAST 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
12000	Acres of private land	\$85	3.9%	\$1,020,000	\$1,020,000			
350	AU Values <sup>1</sup>	\$2,500	3.9%	\$875,000	\$875,000			
<b>Sub Totals</b>				\$1,895,000				
Number	Buildings, Improvements	Price Per Unit						
12	Miles of pipeline	\$2,000	3.9%	\$24,000	\$2,400	25	100	\$1,462
8	Wells	\$12,000	3.9%	\$96,000	\$9,600	25	100	\$5,847
70	Miles of Fence	\$2,500	3.9%	\$175,000	\$17,500	25	100	\$10,658
1	Corrals/Working Facilities	\$12,000	3.9%	\$12,000	\$1,200	30	100	\$664
1	Barns & Shop	\$18,000	3.9%	\$18,000	\$1,800	30	100	\$996
<b>Sub Totals</b>				\$325,000				\$19,626
Number	Machinery & Vehicles	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			
1	3/4 ton pickup 4WD	\$28,000	6.5%	\$28,000	\$5,600	7	50	\$2,224
1	1ton pickup 4WD	\$35,000	6.5%	\$35,000	\$7,000	7	50	\$2,780
0	Tractor	\$5,000	6.5%	\$0	\$0	7	100	\$0
2	Gooseneck trailer	\$4,500	6.5%	\$9,000	\$1,800	7	100	\$1,430
1	Horse tack	\$5,000	6.5%	\$5,000	\$1,000	10	100	\$621
1	Misc. equipment	\$6,000	6.5%	\$6,000	\$1,200	10	100	\$746
<b>Sub Total</b>				\$83,000				\$7,801
Head	Purchased Livestock	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			
9	Horses	\$1,500	6.5%	\$13,500	\$5,130	10	100	\$1,498
7	Bulls	\$2,000	6.5%	\$14,000	\$5,320	4	100	\$2,880
20	<b>Total AUYS</b>							
<b>Sub Total</b>				\$27,500				\$4,377
Head	Retained Livestock	Price Per Unit	Interest Rate	Price	Salvage/Cull			Interest on Investment
140	Cows	\$1,100	6.5%	\$154,000	\$58,520			\$7,894
21	Replacement Heifers	\$1,000	6.5%	\$21,000	\$7,980			\$1,076
156	<b>Total AUYS</b>							
<b>Sub Total</b>				\$175,000	\$66,500			\$8,970
<b>Total</b>				<u>\$2,505,500</u>				<u>\$36,397</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 6.50% was used.

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