

# Range Livestock Costs and Returns for New Mexico 1999



**Range Improvement Task Force** Cooperative Extension Service / Agricultural Experiment Station College of Agriculture and Home Economics

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# INTRODUCTION

Range livestock producers in New Mexico are influenced by many factors during a production year. These include financial and economic considerations vital to the success of the livestock operation. Access to this information gives producers, lending institutions, rangeland appraisers, and other interested parties a better understanding of cash flow, debt structure and aggregate profitability of the entity. Cost and return estimates take into account external factors that directly impact the ranching operation, such as land use policy development, property taxes, and credit analysis for current and future financial decisions.

This study presents 15 individual cost and return estimates considering representative model cow-calf ranches of different sizes in five regions throughout New Mexico . The regions are county-specific (each county is wholly contained in one region) and are classified as: Central Mountain, Northeast, Northwest, Southeast, and Southwest. Within each region, individual budgets were developed for three ranches of differing size, ranging from extra-small in the Central Mountain region to extra-large in the Northeast, Northwest and Southeast regions. Throughout the analysis, number of mother cows is reported and a one-to-twenty bull ratio assumed.

# **RANCHING REGIONS**

Ranching regions were established based on commonality in rangeland type, historical use, topography and climatic conditions. New Mexico State University has an extended history of developing range livestock cost and return estimates, and the regional-basis budget development undertaken in this study has historical precedent.

## **Central Mountain**

This region comprises Taos, Rio Arriba, Sandoval, Santa Fe, San Miguel, Bernalillo, Torrance, Lincoln and Otero counties. Representative ranches modeled for the Central Mountain region were small, medium, and large in size.

Rangelands in the Central Mountain region range from high alpine meadows to lower valleys. Higher elevations may accumulate heavy snow pack throughout the winter months and may receive heavy rains in the summer months. Because of the varying topography of this region, annual precipitation levels within it vary from 8 to 30 inches (Palmer Drought Index). Both warm and cool season grasses are prevalent and are coupled with coniferous forest and browse species.

# Small Ranch

The small representative ranch had 45 mature cows. A 15% culling rate was applied, and an 83% calf crop percentage was assumed. Gross

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Figure 1. Economic returns for small New Mexico ranches, 1999



Figure 2. Economic returns for medium-sized New Mexico ranches, 1999

returns per cow were approximately \$353 with total costs approaching \$644 per cow, resulting in a profit of \$291 per cow (Figure 1). The combination of increasing costs with stagnant cattle prices resulted in significant economic and financial losses.

#### Medium Ranch

The medium representative ranch had 180 mature cows. A 15% culling rate was applied, and an 84% calf crop percentage was assumed. Gross returns per cow were approximately \$350 with total costs approaching \$295 per cow, resulting in a profit of \$56 per cow (Figure 2). Break-even calf prices were \$69 per hundred weight (cwt) with 1999 prices averaging \$83/cwt.

#### Large Ranch

The large representative ranch had 315 mature cows. A 15% culling rate was applied, and an 84% calf crop percentage was assumed. Gross returns per cow were approximately \$348 with total costs approaching \$293 per cow, resulting in a profit of \$55 per cow (Figure 3). Break-even calf prices were \$96 per hundred weight (cwt) with 1999 prices averaging \$69/cwt.

#### Northeast Region

This region comprises Colfax, Curry, De Baca, Guadalupe, Harding, Quay, and Mora counties. Representative ranches modeled for the Northeast region were medium, large and extra-large in size.

Rangelands in the Northeast region are primarily prairie plains vegetated by perennial grasses. Precipitation in the region varies from 12 to 20 inches (Palmer Drought Index). Stuckey and Henderson (1969) estimate carrying capacities ranging from 15 to 24 animal units yearlong (AUY)..

#### Medium Ranch

The medium representative ranch had 180 mature cows. A 15% culling rate was applied and an 83% calf crop percentage was assumed. Gross returns per cow were approximately \$410 with total costs approaching \$345 per cow, resulting in a profit of greater than \$65 per cow (Figure 2). Break-even calf prices were \$78 per hundred weight (cwt) with 1999 prices averaging \$87/cwt for this region.

#### Large Ranch

The large representative ranch had 315 mature cows. A 15% culling rate was applied, and an 83% calf crop percentage was assumed. Gross returns per cow were approximately \$380 with total costs approaching \$295 per cow, resulting in a profit of \$86 per cow. Break-even calf prices were \$66 per hundred weight (cwt) with 1999 prices averaging \$87/cwt (Figure 3).

# Extra-Large Ranch

The extra-large representative ranch had 495 mature cows. A 15% culling rate was applied, and an 84% calf crop percentage was assumed. Gross returns per cow were approximately \$365 with total costs approaching \$288 per cow, resulting in a profit of \$76 per cow (Figure 4). Break-even calf prices were \$64 per hundred weight (cwt) with 1999 prices averaging \$87/cwt.

# **Northwest Region**

This region comprises Bernalillo, Catron, McKinley, Rio Arriba, Sandoval, and San Juan counties. Representative ranches modeled for the Northeast region were medium, large and extra-large in size. Drought conditions persisted throughout 2000, reducing cow numbers again from 1999 levels. Supplemental feeding rates increased for each of the representative ranches modeled in this region.

Both warm and cool season grasses are found in this region, as are piñon, juniper, oak brush, ponderosa pine and sagebrush. Precipitation ranges between 12 and 20 inches annually, with most precipitation falling in the summer months. Stocking rates reported by Stuckey and Henderson (1969) are between 5 and 14 AUY per section. This variance is due to terrain, precipitation and forage availability across the region.

# Medium Ranch

The medium representative ranch had 180 mature cows. A 15% culling rate was applied and an 83% calf crop percentage was assumed. Gross returns per cow were approximately \$365 with total costs approaching \$340 per cow, resulting in a profit of greater than \$26 per cow (Figure 2). Break-even calf prices were \$82 per hundred weight (cwt) with 1999 prices averaging \$83/cwt for this region.

# Large Ranch

The large representative ranch had 315 mature cows. A 15% culling rate was applied and an 82% calf crop percentage was assumed. Gross returns per cow were approximately \$325 with total costs approaching \$270 per cow, resulting in a profit of \$56 per cow (Figure 3). Break-even calf prices were \$66 per hundred weight (cwt) with 1999 prices averaging \$83/cwt.

# Extra-Large Ranch

The extra-large representative ranch had 450 mature cows. A 15% culling rate was applied and an 85% calf crop percentage was assumed. Gross returns per cow were approximately \$325 with total costs approaching \$281 per cow, resulting in a profit of \$45 per cow (Figure 4). Break-even calf prices were \$66 per hundred weight (cwt) with 1999 prices averaging \$83/cwt.

# **Southeast Region**

The cost and return estimates in this region were based on data gathered in Chaves, Eddy, Lea, Lincoln, Otero, and Roosevelt counties. Representative ranches modeled



Figure 3. Economic returns for large New Mexico ranches, 1999



Figure 4. Economic returns for extra-large New Mexico ranches, 1999



Figure 5. Beef Cattle Prices for New Mexico, 1999

for the Southeast region were medium, large and extra-large in size. Drought conditions worsened throughout 2000 resulting in further reductions in cow numbers for the Southeast region of New Mexico. These continuing drought conditions resulted in greater supplemental feeding rates.

Terrain in this region ranges from prairies to rough areas. Elevations vary from 3,000 to over 6,000 feet, with precipitation between 12 and 20 inches annually. Primary grass species are grama, tobosa, and galleta. Prevalent shrubs and trees are piñon, juniper, and oak brush. Stuckey and Henderson (1969) estimate that due to the huge variability of soil type, forage and precipitation levels stocking rates will range from 3 to 17 AUY per section.

# Medium Ranch

The medium representative ranch had 180 mature cows. A 15% culling rate was applied and an 83% calf crop percentage was assumed. Gross returns per cow were approximately \$360 with total costs approaching \$300 per cow, resulting in a profit of greater than \$60 per cow (Figure 2). Break-even calf prices were \$72 per hundred weight (cwt) with 1999 prices averaging \$82/cwt for this region.

# Large Ranch

The large representative ranch had 360 mature cows. A 15% culling rate was applied and an 83% calf crop percentage was assumed. Gross returns per cow were approximately \$317 with total costs approaching \$270 per cow, resulting in a profit of \$47 per cow (Figure 3). Break-even calf prices were \$65 per hundred weight (cwt) with 1998 prices averaging \$82/cwt.

# Extra-Large Ranch

The extra-large representative ranch had 495 mature cows. A 15% culling rate was applied and an 81% calf crop percentage was assumed. Gross returns per cow were approximately \$300 with total costs approaching \$286 per cow, resulting in a profit of \$14 per cow. Break-even calf prices were \$71 per hundred weight (cwt) with 1998 prices averaging \$82/cwt (Figure 4).

# **Southwest Region**

The cost and return estimates in this region were based on data gathered in Doña Ana, Grant, Hidalgo, Luna, and Sierra counties. Representative ranches modeled for the Southwest region were small, medium and large in size.

Terrain in this region ranges from prairies to rough areas. Elevations vary from 4,000 to over 8,000 with precipitation between 9 and 16 inches annually. Black grama is the primary grass plant in this region, while creosote and mesquite make up the majority of brush. Stuckey and Henderson (1969) estimate that due to the huge variability in soil type, forage and precipitation levels in this region stocking rates will range from 5 to 14 AUY per section.

# Small Ranch

The small representative ranch had 36 mature cows. A 15% culling rate was applied and an 80% calf crop percentage was assumed. Gross returns per cow were approximately \$437 with total costs approaching \$466 per cow, resulting in a loss of \$29 per cow (Figure 1). Break-even calf prices were \$120 per hundred weight (cwt) with 1999 prices averaging \$80/ cwt. The combination of increasing costs with stagnant cattle prices resulted in significant economic and financial losses.

# Medium Ranch

The medium representative ranch had 180 mature cows. A 15% culling rate was applied and an 82% calf crop percentage was assumed. Gross returns per cow were approximately \$340 with total costs approaching \$410 per cow, resulting in a loss of \$70 per cow (Figure 2). Break-even calf prices were \$102 per hundred weight (cwt) with 1999 prices averaging \$80/cwt. The combination of increasing costs with stagnant cattle prices resulted in significant economic and financial losses.

#### Large Ranch

The large representative ranch had 360 mature cows. A 15% culling rate was applied and an 81% calf crop percentage was assumed. Gross returns per cow were approximately \$300 with total costs approaching \$315 per cow, resulting in a loss of \$16 per cow. Breakeven calf prices were \$80 per hundred weight (cwt) with 1999 prices averaging \$80/cwt (Figure 3). The combination of increasing costs with stagnant cattle prices resulted in a significant economic and financial losses.

# SUMMARY

Range livestock production throughout New Mexico in 1999 resulted in mostly positive returns. Our model suggested that medium, large and extra-large ranching operations in each region of New Mexico other than the Southwest made a profit. Figure 5 provides aggregate beef cattle prices for New Mexico for 1998. These values are representative of all classes of beef cattle throughout the state. Precipitation levels were below normal in much of the state, forcing livestock producers to decide whether to increase supplemental feeding rates or to reduce the herd size. The majority of producers chose to reduce herd size by approximately 10% and to increase feeding rates during the time period when the bulls were with the cows. These factors created a mix of economic results for producers.

# REFERENCES

Cattle Fax Beef Cattle Price Index. (1999). Available from: www.cattlefax.com

- Hawkes J.M. & Libbin, J. D. (In Press). Range livestock cost and return estimates for New Mexico, 1998 (RITF Report 71). Las Cruces: New Mexico State University, Range Improvement Task Force.
- New Mexico Department of Finance and Adminstration (NMDFA) Local Government Division. (1998). County and Municipal Governments and the Property Tax, 1999 Tax Year. Available from: http://local. nmdfa.state.nm.us/
- Stuckey, H. R. & Henderson, D.C. (1969). Grazing capacities and selected factors affecting public land use (Research Report 158). Las Cruces: New Mexico State University, Agricultural Experiment Station.
- United States Palmer Drought Indices. (1999). Available from: http://lwf.ncdc.noaa.gov/oa/climate/research/prelim/drought/palmer.html

# **APPENDIX A**

## CENTRAL MOUNTAIN REGION SMALL RANCH INVESTMENTS 1999

Number	Land Values	Price Per Unit	10 Yr Avg Rate of Return	Purchase	Salvage/Cull	Useful	Livestock	Annual Capital
100	Acres of private land	\$925	3.9%	\$92,500	\$92,500	LIIC	onare	Recovery
34	AU Values <sup>1</sup>	\$2,825	3.9%	\$95,344	\$95,344			
			Subtotal	\$187,844				
Number	<b>Buildings</b> , Improvements	Price Per Unit						
0.5	Miles of pipeline	\$1,825	3.9%	\$913	\$91	25	100	\$56
1	Wells	\$9,000	3.9%	\$9,000	\$900	25	100	\$548
10	Miles of Fence	\$2,600	3.9%	\$26,000	\$2,600	25	100	\$1,583
1	Corrals/Working Facilities	\$4,600	3.9%	\$4,600	\$460	30	100	\$254
1	Barns & Shop	\$8,200	3.9%	\$8,200	\$820	30	100	\$454
			Subtotal	\$48,713				\$2,895
Number	Machinery & Vehicles	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			
1	3/4 ton pickup 4WD	\$17,000	7.0%	\$17,000	\$3,400	7	50	\$1,381
0	3/4 ton pickup 4WD	\$17,000	7.0%	\$0	\$0	7	50	\$0
0	Tractor	\$5,000	7.0%	\$0	\$0	7	100	\$0
1	Gooseneck trailer	\$3,200	7.0%	\$3,200	\$640	7	100	\$520
1	Horse tack	\$2,700	7.0%	\$2,700	\$540	10	100	\$345
1	Misc. equipment	\$1,600	7.0%	\$1,600	\$320	10	100	\$205
			Subtotal	\$24,500				\$2,451
Head	Purchased Livestock	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			
3	Horses	\$1,600	7.0%	\$4,800	\$1,824	10	100	\$551
1	Bulls	\$2,000	7.0%	\$2,500	\$950	4	100	\$524
5	Total AUYs					Contraction and the		
			Subtotal	\$7,300				\$1.075
Head	Retained Livestock	Price Per Unit	Interest Rate	Price	Salvage/Cull			Interest on Investment
25	Cows	\$1,100	7.0%	\$27,500	\$10,450			\$1,518
4	Replacement Heifers	\$1,000	7.0%	\$3,750	\$1,425			\$207
28	Total AUYs		Subtotal	\$31,250	\$11 875			\$1 725
			Total	\$299,606	<i></i> ,			\$7.071

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.

#### CENTRAL REGION SMALL COW/CALF BUDGET 1999

	CULL RATE	45 15%	COW to BULL	20	CALF CROP PERCENT	837 6.75
	١	VALUE OF PRO	DUCTION			
		QUANTITY	WEIGHT/LBS.	PRICE2	VALUE	VALUE PER COW
STEER CALVES		19	515	\$0.87	\$8.367	\$185.94
HEIFER CALVES		12	495	\$0.80	\$4,722	\$104.94
CULL COWS		7	900	\$0.38	\$2,309	\$51.30
CULL BULLS		1	1200	\$0.40	\$480	<u>\$10.67</u>
	TOTAL	38			\$15,878	\$352.85
VARIABLE COSTS						
1. FEED COSTS		UNITS	QUANTITY/PERCENT	PRICE	COST	VALUE PER COW
	HAY	TON	8.00	\$130	\$1,040	\$23.11
	STATE	AUY	0.0%	\$25.08	\$0	\$0.00
	FEDERAL LEASE	AUY	50.0%	\$16.20	\$729	\$16.20
	PRIVATE(Owned)	AUY	50.0%	\$0.00	\$0	\$0.00
	PRIVATE(Leased Grazing)	AUY	0.0%	\$0.00	\$0	\$0.00
	SALT & MINERAL	TON	2.00	\$135	\$270	\$6.00
	PROTEIN SUPP	TON	5.00	\$325	\$1.625	\$36.11
	OTHER		0.00	\$0	<u>\$0</u>	\$0.00
	TOTAL				\$3,664	\$81.42
					CO2T	
2. UTHER VARIABLE COSTS	WET AND MEDICINE				COST	00.00
					\$405	\$9.00
					\$90	\$2.13
	ODEDATING COSTS FOUR	MACH			\$U 6429	\$0.00
	OPERATING COSTS-EQUIP &	MACH			\$430	\$9.73 \$10.46
	DANCH MAINTENANCE				30/0 6076	\$19.40
	RANCH MAINTENANCE				\$870	\$19.40
	BEEF CHECKUFF				\$31 \$4.000	\$0.00 COC C7
	FURCHAGED LIVESTOCK				<u>31,200</u>	320.07
	TOTAL				\$3,920	\$87.12
3. INTEREST ON VARIABLE CO	TOTAL				\$3,920	\$87.12
3. INTEREST ON VARIABLE CC	TOTAL DSTS SUM OF VARIABLE COSTS X X INTEREST RATE PER MONI	MONTHS BORF	ROWED		\$3,920	\$87.12
3. INTEREST ON VARIABLE CC	TOTAL DSTS SUM OF VARIABLE COSTS X X INTEREST RATE PER MONT ANNUAL INTEREST RATE	MONTHS BORF	ROWED		\$3,920 7.0%	\$87.12
3. INTEREST ON VARIABLE CC	TOTAL DSTS SUM OF VARIABLE COSTS X X INTEREST RATE PER MONT ANNUAL INTEREST RATE NUMBER OF MONTHS BORR	Months Borf Th Owed	ROWED		\$3,920 7.0% 6	\$87.12 VALUE PER COW
3. INTEREST ON VARIABLE CC	TOTAL DSTS SUM OF VARIABLE COSTS X X INTEREST RATE PER MONT ANNUAL INTEREST RATE NUMBER OF MONTHS BORR(	Months Borf Th Owed	ROWED		\$3,920 7.0% 6 \$265	\$87.12 VALUE PER COW \$5.90
3. INTEREST ON VARIABLE CC	TOTAL DSTS SUM OF VARIABLE COSTS X X INTEREST RATE PER MONT ANNUAL INTEREST RATE NUMBER OF MONTHS BORR(	Months Borf Th Owed	ROWED		\$3,920 7.0% 6 \$265 \$7,850	\$87.12 VALUE PER COW \$5.90 \$174.44
3. INTEREST ON VARIABLE CC	TOTAL DSTS SUM OF VARIABLE COSTS X X INTEREST RATE PER MONT ANNUAL INTEREST RATE NUMBER OF MONTHS BORRO	MONTHS BORF TH OWED	ROWED		\$3,920 7.0% 6 \$265 \$7,850 \$8,028	\$87.12 VALUE PER COW \$5.90 \$174.44 \$178.41
3. INTEREST ON VARIABLE CC TOTAL OWNERSHIP COSTS	TOTAL DSTS SUM OF VARIABLE COSTS X X INTEREST RATE PER MONT ANNUAL INTEREST RATE NUMBER OF MONTHS BORR(	MONTHS BORF TH OWED	ROWED		\$3,920 7.0% 6 \$265 \$7,850 \$8,028 Represents 65% Asset Ownership <sup>5</sup>	\$87.12 VALUE PER COW \$5.90 \$174.44 \$178.41 VALUE PER COW
3. INTEREST ON VARIABLE CO TOTAL OWNERSHIP COSTS CASH COSTS	TOTAL DSTS SUM OF VARIABLE COSTS X X INTEREST RATE PER MONT ANNUAL INTEREST RATE NUMBER OF MONTHS BORR( Annual Capital Recovery <sup>4</sup> (At	MONTHS BORF TH OWED Replacement V	ROWED /alue):		\$3,920 7.0% 6 \$265 \$7,850 \$8,028 Represents 65% Asset Ownership <sup>5</sup>	\$87.12 VALUE PER COW \$5.90 \$174.44 \$178.41 VALUE PER COW
3. INTEREST ON VARIABLE CO TOTAL OWNERSHIP COSTS CASH COSTS Taxes & Insurance	TOTAL DSTS SUM OF VARIABLE COSTS X X INTEREST RATE PER MONT ANNUAL INTEREST RATE NUMBER OF MONTHS BORR( Annual Capital Recovery <sup>4</sup> (At	MONTHS BORF TH OWED Replacement V	ROWED		\$3,920 7.0% 6 \$265 \$7,850 \$8,028 Represents 65% Asset Ownership <sup>5</sup> \$2,451	\$87.12 VALUE PER COW \$5.90 \$174.44 \$178.41 VALUE PER COW \$54.46
3. INTEREST ON VARIABLE CO TOTAL OWNERSHIP COSTS CASH COSTS Taxes & Insurance Overhead	TOTAL DSTS SUM OF VARIABLE COSTS X X INTEREST RATE PER MONT ANNUAL INTEREST RATE NUMBER OF MONTHS BORR( Annual Capital Recovery <sup>4</sup> (At	MONTHS BORF TH OWED Replacement V	ROWED		\$3,920 7.0% 6 \$265 \$7,850 \$8,028 Represents 65% Asset Ownership <sup>5</sup> \$2,451 \$2,100 \$4.551	\$87.12 VALUE PER COW \$5.90 \$174.44 \$178.41 VALUE PER COW \$54.46 \$46.67 \$101.12
3. INTEREST ON VARIABLE CO TOTAL OWNERSHIP COSTS CASH COSTS Taxes & Insurance Overhead NON CASH COSTS	TOTAL DSTS SUM OF VARIABLE COSTS X X INTEREST RATE PER MONT ANNUAL INTEREST RATE NUMBER OF MONTHS BORRO Annual Capital Recovery <sup>4</sup> (At	MONTHS BORF TH OWED Replacement V	ROWED /alue):		\$3,920 7.0% 6 \$265 \$7,850 \$8,028 Represents 65% Asset Ownership <sup>5</sup> \$2,451 \$2,100 \$4,551	\$87.12 VALUE PER COW \$5.90 \$174.44 \$178.41 VALUE PER COW \$54.46 \$46.67 \$101.12
3. INTEREST ON VARIABLE CO TOTAL OWNERSHIP COSTS CASH COSTS Taxes & Insurance Overhead NON CASH COSTS Purchased Livestock	TOTAL DSTS SUM OF VARIABLE COSTS X X INTEREST RATE PER MONT ANNUAL INTEREST RATE NUMBER OF MONTHS BORR( Annual Capital Recovery <sup>4</sup> (At	MONTHS BORF TH OWED Replacement V	ROWED		\$3,920 7.0% 6 \$265 \$7,850 \$8,028 Represents 65% Asset Ownership <sup>5</sup> \$2,451 \$2,100 \$4,551 \$1,518	\$87.12 VALUE PER COW \$5.90 \$174.44 \$178.41 VALUE PER COW \$54.46 \$46.67 \$101.12 \$33.73
3. INTEREST ON VARIABLE CO TOTAL OWNERSHIP COSTS CASH COSTS Taxes & Insurance Overhead NON CASH COSTS Purchased Livestock Machinery & Equipment	TOTAL DSTS SUM OF VARIABLE COSTS X X INTEREST RATE PER MONT ANNUAL INTEREST RATE NUMBER OF MONTHS BORR( Annual Capital Recovery <sup>4</sup> (At	MONTHS BORF TH OWED Replacement V	ROWED		\$3,920 7.0% 6 \$265 \$7,850 \$8,028 Represents 65% Asset Ownership <sup>5</sup> \$2,451 \$2,100 \$4,551 \$1,518 \$2,451	\$87.12 VALUE PER COW \$5.90 \$174.44 \$178.41 VALUE PER COW \$54.46 \$46.67 \$101.12 \$33.73 \$54.46
3. INTEREST ON VARIABLE CO TOTAL OWNERSHIP COSTS CASH COSTS Taxes & Insurance Overhead NON CASH COSTS Purchased Livestock Machinery & Equipment Housing & Improvements	TOTAL DSTS SUM OF VARIABLE COSTS X X INTEREST RATE PER MONT ANNUAL INTEREST RATE NUMBER OF MONTHS BORR( Annual Capital Recovery <sup>4</sup> (At	MONTHS BORF TH OWED Replacement V	ROWED		\$3,920 7.0% 6 \$265 \$7,850 \$8,028 Represents 65% Asset Ownership <sup>5</sup> \$2,451 \$2,100 \$4,551 \$1,518 \$2,451 \$2,895	\$87.12 VALUE PER COW \$5.90 \$174.44 \$178.41 VALUE PER COW \$54.46 \$46.67 \$101.12 \$33.73 \$54.46 \$64.34
3. INTEREST ON VARIABLE CO TOTAL OWNERSHIP COSTS CASH COSTS Taxes & Insurance Overhead NON CASH COSTS Purchased Livestock Machinery & Equipment Housing & Improvements Interest on Retained Live	TOTAL DSTS SUM OF VARIABLE COSTS X X INTEREST RATE PER MONT ANNUAL INTEREST RATE NUMBER OF MONTHS BORR( Annual Capital Recovery <sup>4</sup> (At stock <sup>6</sup>	MONTHS BORF TH OWED Replacement V	ROWED /alue):		\$3,920 7.0% 6 \$265 \$7,850 \$8,028 Represents 65% Asset Ownership <sup>5</sup> \$2,451 \$2,100 \$4,551 \$1,518 \$2,451 \$2,451 \$2,451 \$2,451 \$2,451 \$1,518 \$2,451 \$2,451 \$1,518 \$1,518 \$2,451 \$2,895 \$1,725	\$87.12 VALUE PER COW \$5.90 \$174.44 \$178.41 VALUE PER COW \$54.46 \$46.67 \$101.12 \$33.73 \$54.46 \$64.34 \$64.34 \$38.33
3. INTEREST ON VARIABLE CO TOTAL OWNERSHIP COSTS CASH COSTS Taxes & Insurance Overhead NON CASH COSTS Purchased Livestock Machinery & Equipment Housing & Improvements Interest on Retained Live Management & Operation	TOTAL DSTS SUM OF VARIABLE COSTS X X INTEREST RATE PER MONT ANNUAL INTEREST RATE NUMBER OF MONTHS BORR( Annual Capital Recovery <sup>4</sup> (At Annual Capital Recovery <sup>4</sup> (At Labor (6% of gross returns)	MONTHS BORF TH OWED	ROWED /alue):		\$3,920 7.0% 6 \$265 \$7,850 \$8,028 Represents 65% Asset Ownership <sup>5</sup> \$2,451 \$2,100 \$4,551 \$1,518 \$2,451 \$2,895 \$1,725 \$8,028	\$87.12 VALUE PER COW \$5.90 \$174.44 \$178.41 VALUE PER COW \$54.46 \$46.67 \$101.12 \$33.73 \$54.46 \$64.34 \$64.34 \$38.33 \$178.41
3. INTEREST ON VARIABLE CO TOTAL OWNERSHIP COSTS CASH COSTS Taxes & Insurance Overhead NON CASH COSTS Purchased Livestock Machinery & Equipment Housing & Improvements Interest on Retained Live Management & Operation	TOTAL DSTS SUM OF VARIABLE COSTS X X INTEREST RATE PER MONT ANNUAL INTEREST RATE NUMBER OF MONTHS BORR( Annual Capital Recovery <sup>4</sup> (At Annual Capital Recovery <sup>4</sup> (At Labor (6% of gross returns)	MONTHS BORF TH OWED Replacement V	ROWED (alue):		\$3,920 7.0% 6 \$265 \$7,850 \$8,028 Represents 65% Asset Ownership <sup>5</sup> \$2,451 \$2,451 \$2,451 \$2,451 \$2,451 \$2,451 \$2,451 \$2,451 \$2,451 \$2,451 \$2,451 \$2,451 \$2,895 \$1,725 \$8,028 \$16,617	\$87.12 VALUE PER COW \$5.90 \$174.44 \$178.41 VALUE PER COW \$54.46 \$46.67 \$101.12 \$33.73 \$54.46 \$46.67 \$101.12 \$33.73 \$54.46 \$46.37 \$101.12 \$33.73 \$54.46 \$46.37 \$101.12
3. INTEREST ON VARIABLE CO TOTAL OWNERSHIP COSTS CASH COSTS Taxes & Insurance Overhead NON CASH COSTS Purchased Livestock Machinery & Equipment Housing & Improvements Interest on Retained Live Management & Operation	TOTAL DSTS SUM OF VARIABLE COSTS X X INTEREST RATE PER MONT ANNUAL INTEREST RATE NUMBER OF MONTHS BORR Annual Capital Recovery <sup>6</sup> (At Annual Capital Recovery <sup>6</sup> (At Labor (6% of gross returns)	MONTHS BORF TH OWED Replacement V	ROWED /alue):		\$3,920 7.0% 6 \$265 \$7,850 \$8,028 Represents 65% Asset Ownership <sup>5</sup> \$2,451 \$2,100 \$4,551 \$1,518 \$2,451 \$2,895 \$1,725 \$8,028 \$16,617 \$21,108	\$87.12 VALUE PER COW \$5.90 \$174.44 \$178.41 VALUE PER COW \$54.46 \$46.67 \$101.12 \$33.73 \$54.46 \$64.34 \$38.33 \$178.41 \$369.27 \$470.40 \$470.40
3. INTEREST ON VARIABLE CO TOTAL OWNERSHIP COSTS CASH COSTS Taxes & Insurance Overhead NON CASH COSTS Purchased Livestock Machinery & Equipment Housing & Improvements Interest on Retained Live Management & Operation TOTAL FIXED COSTS TOTAL CASH AND VARIABLE C	TOTAL DSTS SUM OF VARIABLE COSTS X X INTEREST RATE PER MONT ANNUAL INTEREST RATE NUMBER OF MONTHS BORR Annual Capital Recovery <sup>4</sup> (At Annual Capital Recovery <sup>4</sup> (At babor (6% of gross returns)	MONTHS BORF TH OWED Replacement V	ROWED		\$3,920 7.0% 6 \$265 \$7,850 \$8,028 Represents 65% Asset Ownership <sup>5</sup> \$2,451 \$2,100 \$4,551 \$1,518 \$2,451 \$2,895 \$1,725 \$8,028 \$16,617 \$21,168 \$12,400 \$2,400 \$12,400 \$2,000 \$1,518 \$2,028 \$1,518 \$2,000 \$1,518 \$2,028 \$1,518 \$2,028 \$1,518 \$2,028 \$1,518 \$2,028 \$1,518 \$2,000 \$1,510 \$1,250 \$1,200 \$1,000 \$1,200 \$1,000	\$87.12 VALUE PER COW \$5.90 \$174.44 \$178.41 VALUE PER COW \$54.46 \$46.67 \$101.12 \$33.73 \$54.46 \$64.34 \$38.33 \$178.41 \$369.27 \$470.40 \$275.56 \$01.50
3. INTEREST ON VARIABLE CO TOTAL OWNERSHIP COSTS CASH COSTS Taxes & Insurance Overhead NON CASH COSTS Purchased Livestock Machinery & Equipment Housing & Improvements Interest on Retained Live Management & Operation TOTAL FIXED COSTS TOTAL CASH AND VARIABLE C TOTAL COSTS	TOTAL DSTS SUM OF VARIABLE COSTS X X INTEREST RATE PER MONT ANNUAL INTEREST RATE NUMBER OF MONTHS BORR( Annual Capital Recovery <sup>4</sup> (At a Labor (6% of gross returns) COSTS COSTS	MONTHS BORF TH OWED	ROWED /alue):		\$3,920 7.0% 6 \$265 \$7,850 \$8,028 Represents 65% Asset Ownership <sup>5</sup> \$2,451 \$2,100 \$4,551 \$1,518 \$2,451 \$2,895 \$1,725 \$8,028 \$16,617 \$21,168 \$12,400 \$29,017 \$2,470	\$87.12 VALUE PER COW \$5.90 \$174.44 \$178.41 VALUE PER COW \$54.46 \$46.67 \$101.12 \$33.73 \$54.46 \$46.67 \$101.12 \$33.73 \$54.46 \$64.34 \$38.33 \$178.41 \$369.27 \$470.40 \$275.56 \$644.83 \$77

[	VARIABLE COSTS	TOTAL COSTS	
REQUIRED AVG. CALF PRICES CASH COST (cwt)	\$41.62	\$65.74	
REQUIRED AVG. CALF PRICES TOTAL COSTS(cwt)	\$41.62	\$153.84	

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 1999 price projections from Cattle Fax, Doane's 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 1999

Number	Land Values	Price Per Unit	10 Yr Avg Rate of Return	Purchase	Salvage/Cull	Useful	Livestock	Annual Capital
750	Acres of private land	\$185	3.9%	\$138,750	\$138 750	LIIE	Share	\$116.25
243	AU Values <sup>1</sup>	\$2,825	3.9%	\$686,475	\$686,475			¢110.20
			Subtotal	\$825 225				
Number	Buildings, Improvements	Price Per Unit	oubtotal	<i><b>4020,220</b></i>				
2	Miles of pipeline	\$1,825	3.9%	\$3.650	\$365	25	100	\$222
1	Wells	\$9,000	3.9%	\$9.000	\$900	25	100	\$548
18	Miles of Fence	\$2,600	3.9%	\$46.800	\$4.680	25	100	\$2.850
1	Corrals/Working Facilities	\$4,600	3.9%	\$4,600	\$460	30	100	\$254
1	Barns & Shop	\$8,200	3.9%	\$8,200	\$820	30	100	\$454
			Subtotal	\$72,250				\$4,445
Number	Machinery & Vehicles	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			
1	3/4 ton pickup 4WD	\$17,000	7.0%	\$17,000	\$3,400	7	50	\$1,381
0	3/4 ton pickup 4WD	\$17,000	7.0%	\$0	\$0	7	50	\$0
0	Tractor	\$5,000	7.0%	\$0	\$0	7	100	\$0
1	Gooseneck trailer	\$3,200	7.0%	\$3,200	\$640	7	100	\$520
1	Horse tack	\$2,700	7.0%	\$2,700	\$540	10	100	\$345
1	Misc. equipment	\$1,600	7.0%	\$1,600	\$320	10	100	\$205
			Subtotal	\$24,500				\$2,567
Head	Purchased Livestock	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			
6	Horses	\$1,600	7.0%	\$9,600	\$3,648	10	100	\$1,103
9	Bulls	\$2,000	7.0%	\$18,000	\$6,840	4	100	\$3,774
30	Cows	\$1,100.00	7.0%	\$33,000	\$12,540	8	100	\$4,304
56	Total AUYs							
			Subtotal	\$27,600				\$4,876
Head	Retained Livestock	Price Per Unit	Interest Rate	Price	Salvage/Cull			Interest on Investment
180	Cows	\$1,100	7.0%	\$198,000	\$75,240			\$10,930
27	Replacement Heifers	\$1,000	7.0%	\$27,000	\$10,260			\$1,490
200	Total AUYs		Subtotal	\$225,000	\$85,500			\$12,420
			Total	\$1,174,575	_			\$19,432

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.

#### CENTRAL REGION MEDIUM COW/CALF BUDGET 1999

	BREED HERD SIZE CULL RATE	180 15%	COW to BULL	20	CALF CROP PERCEN I <sup>1</sup> REPLACEMENT HEIFERS KEPT	<b>84%</b> 27
		VALUE OF PRO	DUCTION			VALUE DED COW
STEER CALVES HEIFER CALVES CULL COWS CULL BULLS		QUANTITY 76 49 27 1	<u>WEIGHT/LBS.</u> 515 495 900 1200	PRICE <sup>2</sup> \$0.87 \$0.80 \$0.38 \$0.40	VALUE \$33,873 \$19,246 \$9,234 \$480	\$188.18 \$106.92 \$51.30 \$2.67
	TOTAL	152			\$62.832	\$349.07
VARIABLE COSTS					440-1460	<b>QUICITY</b>
1 EEED COSTS		UNITO	OUANTITY/DEDGENT	DDICE	0007	VALUE PER COW
1. FEED COSIS	HAY STATE FEDERAL LEASE PRIVATE(Owned) PRIVATE(Leased Grazing) SALT & MINERAL PROTEIN SUPP OTHER	TON AUY AUY AUY AUY TON TON	QUANTITY/PERCENT 32.00 30.0% 40.0% 30.0% 0.0% 4.00 8.00 0.00	PRICE           \$130           \$25.08           \$16.20           \$0.00           \$0.00           \$135           \$325           \$0	COST \$4,160 \$0 \$2,916 \$0 \$0 \$540 \$2,600 \$ <u>0</u>	\$23.11 \$0.00 \$16.20 \$0.00 \$3.00 \$14.44 \$0.00
	TOTAL				\$10,216	\$56.76
2. OTHER VARIABLE COSTS	VET AND MEDICINE LIVESTOCK HAULING HIRED LABOR OPERATING COSTS-EQUIP & OPERATING COSTS-VEHICL RANCH MAINTENANCE BEEF CHECKOFF PURCHASED LIVESTOCK	& MACH E			COST \$1,620 \$381 \$0 \$876 \$1,313 \$1,530 \$124 \$3,000	\$9.00 \$2.11 \$0.00 \$4.86 \$7.30 \$8.50 \$0.69 <u>\$16.67</u>
	TOTAL				\$8,843	\$49.13
3. INTEREST ON VARIABLE CO	STS SUM OF VARIABLE COSTS > X INTEREST RATE PER MON ANNUAL INTEREST RATE NUMBER OF MONTHS BORR	( Months Borr Ith Rowed	OWED		7.0% 6	VALUE PER COW
					\$667	\$3.71
					\$19,727	\$109.59
	TOTAL				\$43,106	\$239.48
OWNERSHIP COSTS	Annual Caribal Danama Avan	Declassion			D	
CASH COSTS Taxes & Insurance Overhead Total	Annual Capital Recovery" (Al	t Replacement Va	llue):		Represents 65% Asset Ownership* \$2,786 \$2,100 \$4,886	\$15.48 \$11.67 \$27.14
NON CASH COSTS Purchased Livestock Machinery & Equipment Housing & Improvements Interest on Retained Lives Management & Operation Total	tock <sup>6</sup> Labor (6% of gross returns)				\$4,876 \$2,567 \$4,445 \$12,420 \$3,770 \$28,078	\$27.09 \$14.26 \$24.69 \$69.00 \$20.94 \$155.99
TOTAL FIXED COSTS	0575				\$32,964	\$183.13
TOTAL COSTS	0010				φ∠4,012 \$52.690	\$130.73
RETURN ABOVE TOTAL CASH (	COSTS				\$38.220	\$212.33
RETURN ABOVE TOTAL COSTS					\$10,142	\$56.34
BREAKEVEN CALCULATIONS						
		VARIABLE COSTS	TOTAL COSTS			
REQUIRED AVG.	CALF PRICES CASH COST (cwt)	\$25.83	\$32.23			
REQUIRED AVG. C	ALF PRICES TOTAL COSTS(cwt)	\$25.83	\$69.01			

Calf crop is defined as the actual number of calves sold divided by the total number of cows (assuming all cows were exposed).
 Prices represent 1999 price projections from Cattle Fax, Doane's reports for New Mexico feeder cattle cash prices.
 Market prices include commissions, brand inspections, beef council, yardage, feed, and insurance.
 Annual capital recovery is the method of calculating depreciation and interest recommended by the National Task Force on Commodity Costs and Returns Measurement Methods.
 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 1999

Number	Land Values	Price Per Unit	10 Yr Avg Rate of Return	Purchase	Salvage/Cull	Useful	Livestock	Annual Capital
10000	Acres of private land	\$185	3.9%	\$1,850,000	\$1,850,000	LIIC	onare	\$1,550,00
425	AU Values <sup>1</sup>	\$2,825	3.9%	\$1,201,331	\$1,201,331			¢1,000.00
			Subtotal	\$3.051.331				
Number	Buildings. Improvements	Price Per Unit	oustotai	\$0,001,001				
4	Miles of pipeline	\$1,825	3.9%	\$7,300	\$730	25	100	\$445
2	Wells	\$9,000	3.9%	\$18,000	\$1,800	25	100	\$1,096
40	Miles of Fence	\$2,600	3.9%	\$104,000	\$10,400	25	100	\$6,334
1	Corrals/Working Facilities	\$4,600	3.9%	\$4,600	\$460	30	100	\$254
1	Barns & Shop	\$8,200	3.9%	\$8,200	\$820	30	100	\$454
			Subtotal	\$142,100				\$10,133
Number	Machinery & Vehicles	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			
1	3/4 ton pickup 4WD	\$17,000	7.0%	\$17,000	\$3,400	7	50	\$1,381
1	1 ton pickup 4WD	\$17,000	7.0%	\$17,000	\$3,400	7	50	\$1,381
1	Tractor	\$5,000	7.0%	\$5,000	\$1,000	7	100	\$812
2	Gooseneck trailer	\$3,200	7.0%	\$6,400	\$1,280	7	100	\$1,040
1	Horse tack	\$2,700	7.0%	\$2,700	\$540	10	100	\$345
1	Misc. equipment	\$1,600	7.0%	\$1,600	\$320	10	100	\$205
			Subtotal	\$49,700				\$6,713
Head	Purchased Livestock	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			
10	Horses	\$1,500	7.0%	\$15,000	\$5,700	10	100	\$1,723
16	Bulls	\$2,000	7.0%	\$31,500	\$11,970	4	100	\$6,604
53	Cows	\$1,100.00	7.0%	\$58,300	\$22,154	8	100	\$7,604
98	Total AUYs							
	<u>^</u>		Subtotal	\$46,500	1			\$8,327
Head	Retained Livestock	Price Per Unit	Interest Rate	Price	Salvage/Cull			Interest on Investment
315	Cows	\$1,100	7.0%	\$346,500	\$131,670			\$19,127
47	Replacement Heifers	\$1,000	7.0%	\$47,250	\$17,955			\$2,608
350	Total AUYs		Subtotal	\$393,750	\$149,625			\$21,735
			Total	\$3,683,381				\$38,581

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.

#### CENTRAL REGION LARGE COW/CALF BUDGET 1999

	BREED HERD SIZE CULL RATE	315 15%	COW to BU	JLL 20	CALF C REPLACEMENT	ROP PERCENT <sup>1</sup> HEIFERS KEPT	84% 47
		ALUE OF PRO	DUCTION				VALUE DED COM
STEER CALVES HEIFER CALVES CULL COWS CULL BULLS		QUANTITY 132 85 47 1	WEIGHT/LBS. 515 495 900 1200	PRIC \$0.8 \$0.3 \$0.3 \$0.4	E <sup>2</sup> VAL           7         \$59,           0         \$33,           8         \$16,           0         \$46	UE 277 580 160 <u>30</u>	\$188.18 \$106.92 \$51.30 <u>\$1.52</u>
	TOTAL	265			\$109,	596	\$347.92
VARIABLE COSTS							
1 FFFD CORTS		UNITE	OHANTITY/DEDCE	NT PRIC	E	ет	VALUE PER COW
T, FEED COSTS	HAY STATE FEDERAL LEASE PRIVATE(Owned) PRIVATE(Leased Grazing) SALT & MINERAL PROTEIN SUPP OTHER	TON AUY AUY AUY AUY AUY TON TON	40.00 20.0% 40.0% 40.0% 6.00 15.00 0.00	NI PRO \$13 \$16.0 \$16.1 \$0.0 \$0.0 \$13 \$13 \$32 \$0 \$0	E         CU           0         \$5,2           18         \$1           10         \$5,1           0         \$5,1           0         \$1,0           5         \$1,0           5         \$1,0           5         \$1,0           \$1         \$1	51 100 103 10 10 10 10 10 10 10 10 10 10	\$16.51 \$0.00 \$16.20 \$0.00 \$0.00 \$2.57 \$15.48 <u>\$0.00</u>
	TOTAL				\$15,5	988	\$50 76
2. OTHER VARIABLE COSTS	VET AND MEDICINE LIVESTOCK HAULING HIRED LABOR OPERATING COSTS-EQUIP & OPERATING COSTS-VEHICLE RANCH MAINTENANCE BEEF CHECKOFF PURCHASED LIVESTOCK	MACH			CO \$2,8 \$60 \$1,3 \$1,7 \$2,2 \$21 \$3,5	<u>ST</u> 335 34 ) 160 164 195 17 500	\$9.00 \$2.11 \$0.00 \$4.32 \$5.50 \$7.29 \$0.69 \$11.11
	TOTAL				\$12,	635	\$40.11
3. INTEREST ON VARIABLE C	OSTS SUM OF VARIABLE COSTS X X INTEREST RATE PER MON ANNUAL INTEREST RATE NUMBER OF MONTHS BORR	MONTHS BOR TH OWED	ROWED		7.0 E	)% 5	VALUE PER COW
					\$1,0	02	\$3.18
					\$29,	625	\$94.05
	TOTAL				\$79,	971	\$253.88
OWNERSHIP COSTS							
CASH COSTS Taxes & Insurance Overhead	Annual Capital Recovery <sup>®</sup> (At	Replacement V	/alue):		Represents 65% \$7, \$2,2 \$0.5	Asset Ownership" 108 200 308	VALUE PER COW \$22.57 \$6.98 \$29.55
NON CASH COSTS Purchased Livestock Machinery & Equipment Housing & Improvement Interest on Retained Liv Management & Operatio Total	ts estock <sup>6</sup> in Labor (6% of gross returns)				\$8, \$6, \$10, \$21, \$6, \$53,	327 713 133 735 576 484	\$25.43 \$21.31 \$32.17 \$69.00 \$20.88 \$169.79
TOTAL FIXED COSTS					\$62,	792	\$199.34
TOTAL CASH AND VARIABLE	COSTS				\$38.	933	\$123.60
TOTAL COSTS	COSTS				392,	,417 663	\$293,39
RETURN ABOVE TOTAL CASH	re				370,	170	\$54 54
BREAKEVEN CALCULATIONS					\$11	11.0	QJ4,34
DICENTETER ONEODERITORS		VARIABLE COSTS	TOTAL COSTS				
REQUIRED AVG. ( REQUIRED AVG. CA	CALF PRICES CASH COST (cwt) ALF PRICES TOTAL COSTS(cwt)	\$22.17 \$22.17	\$29.14 \$69.16				

Calf crop is defined as the actual number of calves sold divided by the total number of cows (assuming all cows were exposed).
 Prices represent 1999 price projections from Cattle Fax, Doane's reports for New Mexico feeder cattle cash prices.
 Market prices include commissions, brand inspections, beef council, yardage, feed, and insurance.
 Annual capital recovery is the method of calculating depreciation and interest recommended by the National Task Force on Commodity Costs and Returns Measurement Methods.
 The 35% reduction in asset values which represent a mix of new and used machinery.
 Interest on average investment.

## NORTHEAST REGION MEDIUM RANCH INVESTMENTS 1999

Number	Land Values	Price Per Unit	10 Yr Avg Rate of Return	Purchase	Salvage/Cull	Useful	Livestock	Annual Capital
7000	Acres of private land	\$80	3.9%	\$560.000	\$560.000	LIIC	onare	Recovery
200	AU Values <sup>1</sup>	\$2,400	3.9%	\$480,000	\$480,000			
			Subtotal	\$1,040,000				
Number	Buildings, Improvements	Price Per Unit						
10	Miles of pipeline	\$1,825	3.9%	\$18,250	\$1,825	25	100	\$1,111
6	Wells	\$10,000	3.9%	\$60,000	\$6,000	25	100	\$3,654
50	Miles of Fence	\$2,600	3.9%	\$130,000	\$13,000	25	100	\$7,917
1	Corrals/Working Facilities	\$4,600	3.9%	\$4,600	\$460	30	100	\$254
1	Barns & Shop	\$8,200	3.9%	\$8,200	\$820	30	100	\$454
			Subtotal	\$221,050				\$13,391
Number	Machinery & Vehicles	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull		See Star	
1	3/4 ton pickup 4WD	\$17,000	7.0%	\$17,000	\$3,400	7	50	\$1,381
0	1 ton pickup 4WD	\$17,000	7.0%	\$0	\$0	7	50	\$0
0	Tractor	\$5.000	7.0%	\$0	\$0	7	100	\$0
1	Gooseneck trailer	\$3,200	7.0%	\$3.200	\$640	7	100	\$520
1	Horse tack	\$2,700	7.0%	\$2,700	\$540	10	100	\$345
1	Misc. equipment	\$1,600	7.0%	\$1,600	\$320	10	100	\$205
			Subtotal	\$24,500				\$2.451
Head	Purchased Livestock	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			· · · · ·
6	Horses	\$1,600	7.0%	\$9,600	\$3,648	10	100	\$1,103
9	Bulls	\$2,000	7.0%	\$18.000	\$6.840	4	100	\$3,774
40	Cows	\$1,100.00	7.0%	\$44.000	\$16,720	8	100	\$5,739
69	Total AUYs							
			Subtotal	\$27.600				\$4,876
Head	Retained Livestock	Price Per Unit	Interest Rate	Price	Salvage/Cull		13.000	Interest on Investment
180	Cows	\$1,100	7.0%	\$198,000	\$75,240		19. C. S. S. S.	\$10,930
27	Replacement Heifers	\$1,000	7.0%	\$27,000	\$10,260			\$1,490
200	i otal AUYS		Subtotal	\$225,000	\$85,500			\$12,420
			Total	\$1,538,150				\$28,262

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.

#### NORTHEAST REGION **MEDIUM COW/CALF BUDGET 1999**

	BREED HERD SIZE	180 15%	COW to BULL	20	CALF CROP PERCENT <sup>1</sup> REPLACEMENT HEIFERS KEPT	<b>83%</b>
		VALUE OF PRO	DUCTION			
STEER CALVES HEIFER CALVES		QUANTITY 75 48	<u>WEIGHT/LBS.</u> 550 515	PRICE2 \$0.92 \$0.85	VALUE \$37,798 \$20,881	\$209.99 \$116.00
CULL COWS CULL BULLS		37 1	900 1200	\$0.43 \$0.45	\$14,319 <u>\$540</u>	\$79.55 <u>\$3.00</u>
	TOTAL	160			\$73,538	\$408.54
VARIABLE COSTS						
1. FEED COSTS		UNITS	QUANTITY/PERCENT	PRICE	COST	VALUE PER COW
	HAY	TON	16.00	\$130	\$2,080	\$11.56
	BLM	AUY	0.0%	\$16.20	\$0 \$0	\$0.00
	FEDERAL LEASE	AUY	30.0%	\$16.20	\$2,916	\$16.20
	PRIVATE(Owned)	AUY	53.0%	\$0.00	\$0	\$0.00
	PRIVATE(Leased Grazing)	AUY	0.0%	\$0.00	\$0	\$0.00
	SALT & MINERAL	TON	3.00	\$135	\$405	\$2.25
	OTHER	ION	0.00	\$325 \$0	\$1,950	\$0.00
	omek		<u> </u>	*****	<u>**</u>	C40.04
	TOTAL				\$7,351	\$40.84
2. OTHER VARIABLE COSTS					COST	
	VET AND MEDICINE				\$1,620	\$9.00
	HIRED LABOR				\$0	\$0.00
	OPERATING COSTS-EQUIP 8	MACH			\$1,148	\$6.38
	OPERATING COSTS-VEHICLI	E			\$2,550	\$14.17
	RANCH MAINTENANCE				\$1,785	\$9.92
	BEEF CHECKOFF PURCHASED LIVESTOCK				\$122 \$4,000	\$0.68 \$22.22
	TOTAL				\$11.626	\$64.59
	X INTEREST RATE PER MON ANNUAL INTEREST RATE NUMBER OF MONTHS BORR	TH			7.0% 6	VALUE PER COW
					\$664	HIGH \$3.69
					\$19.641	\$109.12
	TOTAL				\$53,897	\$299.43
OWNERSHIP COSTS						
CASH COSTS	Annual Capital Recovery <sup>4</sup> (A	Replacement	Value):		Represents 65% Asset Ownership TOTAL	VALUE PER COW VALUE PER COW
Taxes & Insurance					\$2,451	\$13.61
Overhead					\$2,100	\$11.67
Total					\$4,551	\$25.28
NON CASH COSTS Purchased Livestock					\$4.876	\$27.09
Machinery & Equipmen	nt				\$2,451	\$13.61
Housing & Improvement	nts				\$13,391	\$74.40
Interest on Retained Li	vestock				\$12,420	\$69.00
Management & Operati	on Labor (6% of gross returns)				\$4,412	\$24.51
TOTAL SIXED COOTO					\$37,550	\$200.01
TOTAL CASH AND VARIABLE	E COSTS				\$24,192	\$134.40
TOTAL COSTS					\$61,742	\$343.01
RETURN ABOVE TOTAL CAS	SH COSTS				\$49.346	\$274.15
RETURN ABOVE TOTAL COS	STS				\$11,796	\$65.53
BREAKEVEN CALCULATION	S					
		VARIABLE COSTS	TOTAL COSTS			
REQUIRED AVG.	CALF PRICES CASH COST (cwt)	\$24.69	\$30.41			
REQUIRED AVG. C	CALF PRICES TOTAL COSTS(cwt)	\$24.69	\$77.61			
1) Calf crop is defined as the ac	ctual number of calves sold divided to	by the total numb	per of cows (assuming all cov	ws were exposed).		
<ol> <li>2) Prices represent 1999 price</li> <li>3) Market prices include commit</li> <li>4) Annual capital recovery is the</li> <li>5) The 25% reduction in provide</li> </ol>	projections from Cattle Fax, Doane's issions, brand inspections, beef coul e method of calculating depreciation	and interest rec	on mexico reeder cattle cash pr ed, and insurance. ommended by the National T	ask Force on Commodity Co	sts and Returns Measurement Metho	ıds.
6) Interest on average investme	ent.	ana abou maGi				

#### NORTHEAST REGION LARGE RANCH INVESTMENTS 1999

Number	Land Values	Price Por Unit	10 Yr Avg	Purchase	Salvage/Cull	Useful	Livestock	Annual Capital
12000	Acres of private land	S80	3.9%	\$960.000		Lile	Share	Recovery
350	AU Values <sup>1</sup>	\$2 400	3.0%	\$840,000	\$840,000			
000		φ2,400	0.070	\$040,000	\$040,000			
			Subtotal	\$1,800,000				
Number	Buildings, Improvements	Price Per Unit						
12	Miles of pipeline	\$1,900	3.9%	\$22,800	\$2,280	25	100	\$1,389
8	Wells	\$10,000	3.9%	\$80,000	\$8,000	25	100	\$4,872
70	Miles of Fence	\$2,600	3.9%	\$182,000	\$18,200	25	100	\$11,084
1	Corrals/Working Facilities	\$4,600	3.9%	\$4,600	\$460	30	100	\$254
1	Barns & Shop	\$8,200	3.9%	\$8,200	\$820	30	100	\$454
			Subtotal	\$297,600				\$18,053
Number	Machinery & Vehicles	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			
1	3/4 ton pickup 4WD	\$17,000	7.0%	\$17,000	\$3,400	7	50	\$1,381
1	1ton pickup 4WD	\$17,000	7.0%	\$17,000	\$3,400	7	50	\$1,381
0	Tractor	\$5,000	7.0%	\$0	\$0	7	100	\$0
2	Gooseneck trailer	\$3,200	7.0%	\$6,400	\$1,280	7	100	\$1.040
1	Horse tack	\$2,700	7.0%	\$2,700	\$540	10	100	\$345
1	Misc. equipment	\$1,600	7.0%	\$1,600	\$320	10	100	\$205
			Subtotal	\$44,700				\$4,351
Head	Purchased Livestock	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			
9	Horses	\$1,600	7.0%	\$14,400	\$5,472	10	100	\$1,654
16	Bulls	\$2,000	7.0%	\$31,500	\$11,970	4	100	\$6,604
70	Cows	\$1,100.00	7.0%	\$77,000	\$29,260	8	100	\$10.043
118	Total AUYs							
			Subtotal	\$45,900				\$8,258
Head	Retained Livestock	Price Per Unit	Interest Rate	Price	Salvage/Cull			Interest on Investment
315	Cows	\$1,100	7.0%	\$346,500	\$131,670			\$19,127
47	Replacement Heifers	\$1,000	7.0%	\$47,250	\$17,955			\$2,608
350	Total AUYs		Quilitatal	6000 750	64 40 005			004 705
			Subtotal	\$393,750	\$149,625			\$21,735
			Total	\$2,581,950				\$44,139

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.

#### NORTHEAST REGION LARGE COW/CALF BUDGET 1999

	BREED HERD SIZE CULL RATE	315 15%	COW to BULL	20	CALF CROP PERCENT <sup>1</sup> REPLACEMENT HEIFERS KEPT	<b>83%</b> 47.25
		VALUE OF PRO	DUCTION			
STEER CALVES HEIFER CALVES CULL COWS		QUANTITY 131 83 <u>37</u>	WEIGHT/LBS. 550 515 <u>1000</u>	PRICE2 \$0.92 \$0.85 <u>\$0.43</u>	VALUE \$66,147 \$36,541 \$15,910	\$209.99 \$116.00 \$50.51
CULL BULLS		1	1400	\$0.45	<u>\$630</u>	\$2.00
T	OTAL	252			\$119,228	\$378.50
VARIABLE COSTS						
1. FEED COSTS		UNITS	QUANTITY/PERCENT	PRICE	COST	VALUE PER COW
н	AY	TON	23.00	\$130	\$2,990	\$9.49
S	TATE	AUY	20.0%	\$25.08	\$0	\$0.00
FI	EDERAL LEASE	AUY	40.0%	\$16.20	\$5,103	\$16.20
P	RIVATE(Owned) RIVATE(Leased Grazing)	AUY	40.0%	\$0.00	50	\$0.00
S	ALT & MINERAL	TON	4.00	\$135	\$540	\$1.00
P	ROTEIN SUPP	TON	11.00	\$325	\$3.575	\$11.35
0	THER		0.00	\$0	<u>\$0</u>	\$0.00
т	OTAL				\$12.208	\$38.76
2. OTHER VARIABLE COSTS					COST	
V	ET AND MEDICINE				\$2,835	\$9.00
L	IVESTOCK HAULING				\$631	\$2.00
H	IRED LABOR				\$0	\$0.00
0	PERATING COSTS-EQUIP &	MACH			\$1,8/0	\$5.94
R	ANCH MAINTENANCE	•			\$2,405	\$7.03 \$6.61
В	EEF CHECKOFF				\$214	\$0.68
P	URCHASED LIVESTOCK				\$3,000	\$9.52
Т	OTAL				\$13.097	\$41.58
					• • • • • • • •	••••••
3. INTEREST ON VARIABLE COST	S					
5	UN OF VARIABLE COSTS X	MONTHS BORF	OWED			
Â	NNIIAI INTEREST RATE				7.0%	
Ň	UMBER OF MONTHS BORR	OWED			6	VALUE PER COW
INTEREST COSTS					\$886	\$2.81
TOTAL VARIABLE COSTS					\$26,191	\$83.15
RETURN ABOVE VARIABLE COST	S				\$93,037	\$295.36
OWNERSHIP COSTS						
A	nnual Capital Recovery <sup>4</sup> (At	Replacement V	alue):		Represents 65% Asset Ownership	VALUE PER COW
CASH COSTS					TOTAL	
Taxes & Insurance					\$4,351	\$13.81
Total					\$2,100	\$0.07
NON CASU COSTS					\$0,451	\$20.40
Durchaged Liverteek					20 DE0	eac aa
Machinery & Equipment					₹0,200 \$4,251	\$20.22
Housing & Improvements					\$18.053	\$57.31
Interest on Retained Livesto	ck <sup>6</sup>				\$21.735	\$69.00
Management & Operation La	bor (6% of gross returns)				\$7,154	\$22.71
TOTAL NON CASH COSTS					\$59,551	\$189.05
TOTAL FIXED COSTS					\$66,002	\$209.53
TOTAL CASH AND VARIABLE COS	STS				\$32,642	\$103.63
TOTAL COSTS					\$92,193	\$292.68
RETURN ABOVE TOTAL CASH CO	STS				\$86,586	\$274.88
RETURN ABOVE TOTAL COSTS					\$27,035	\$85.83
BREAKEVEN CALCULATIONS	r	VADIADIE	TOTAL			
		COSTS	COSTS			
REQUIRED AVG. CALF	PRICES CASH COST (cwt)	\$18.81	\$23.45			
REQUIRED AVG. CALF P	RICES TOTAL COSTS(cwt)	\$18.81	\$66.22			

Calf crop is defined as the actual number of calves sold divided by the total number of cows (assuming all cows were exposed).
 Prices represent 1999 price projections from Cattle Fax, Doane's reports for New Mexico feeder cattle cash prices.
 Market prices include commissions, brand inspections, beef council, yardage, feed, and insurance.
 Annual capital recovery is the method of calculating depreciation and interest recommended by the National Task Force on Commodity Costs and Returns Measurement Methods.
 The 35% reduction in asset values which represent a mix of new and used machinery.
 Interest on average investment.

#### NORTHEAST REGION EXTRA-LARGE RANCH INVESTMENTS 1999

			10 Yr Avg	Purchase	Salvage/Cull	Useful	Livestock	Annual Capital
Number	Land Values	Price Per Unit	Rate of Return	Price	Value	Life	Share	Recovery
15000	Acres of private land	\$80	3.9%	\$1,200,000	\$1,200,000			
500	AU Values <sup>1</sup>	\$2,400	3.9%	\$1,200,000	\$1,200,000			
			Subtotal	\$2,400,000				
Number	<b>Buildings, Improvements</b>	Price Per Unit						1
16	Miles of pipeline	\$1,825	3.9%	\$29,200	\$2,920	25	100	\$1,778
10	Wells	\$9,000	3.9%	\$90,000	\$9,000	25	100	\$5,481
95	Miles of Fence	\$2,600	3.9%	\$247,000	\$24,700	25	100	\$15,043
2	Corrals/Working Facilities	\$4,600	3.9%	\$9,200	\$920	30	100	\$509
1	Barns & Shop	\$8,200	3.9%	\$8,200	\$820	30	100	\$454
			Subtotal	\$383,600				\$23,265
Number	Machinery & Vehicles	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			
2	3/4 ton pickup 4WD	\$17,000	7.0%	\$34,000	\$6,800	7	50	\$2,762
1	1 ton pickup 4WD	\$17,000	7.0%	\$17,000	\$3,400	7	50	\$1,381
1	Tractor	\$4,000	7.0%	\$4,000	\$800	7	100	\$650
3	Gooseneck trailer	\$3,200	7.0%	\$9,600	\$1,920	7	100	\$1,559
1	Horse tack	\$2,700	7.0%	\$2,700	\$540	10	100	\$345
1	Misc. equipment	\$1,600	7.0%	\$1,600	\$320	10	100	\$205
			Subtotal	\$68,900				\$6,901
Head	Purchased Livestock	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			c -
13	Horses	\$1,600	7.0%	\$20,800	\$7,904	10	100	\$2,389
25	Bulls	\$2,000	7.0%	\$49,500	\$18,810	4	100	\$10,377
90	Cows	\$1,100.00	7.0%	\$99,000	\$37,620	8	100	\$12,913
160	Total AUYs					REAL CONTRACTOR		
			Subtotal	\$70,300				\$12,767
Head	Retained Livestock	Price Per Unit	Interest Rate	Price	Salvage/Cull			Interest on Investmen
495	Cows	\$1,100	7.0%	\$544,500	\$206,910			\$30,056
74	Replacement Heifers	\$1,000	7.0%	\$74,250	\$28,215			\$4,099
551	Total AUYs		Subtotal	\$618,750	\$235,125			\$34,155
			Total	\$3,541,550	_			\$64,322

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.

#### NORTHEAST REGION **EX-LARGE COW/CALF BUDGET 1999**

	BREED HERD SIZE CULL RATE	495 15%	COW to BULL	20	CALF CROP PERCENI <sup>1</sup> REPLACEMENT HEIFERS KEPT	84% 74.25
	V	ALUE OF PRO	DUCTION	-		1.12.4.2.14
STEER CALVES HEIFER CALVES CULL COWS CULL BULLS		QUANTITY 208 134 37 1	WEIGHT/LBS. 550 515 1000 1200	PRICE2 \$0.92 \$0.85 \$0.43 \$0.45	VALUE \$105,197 \$58,505 \$15,910 <u>\$540</u>	VALUE PER COW \$212.52 \$118.19 \$32.14 \$1.09
	TOTAL	380	100 C		\$180,153	\$363.94
VARIABLE COSTS		_				
1 FEED COSTS		LINITS	OLIANTITY/DEDCENT	PRICE	COST	VALUE PER COW
	HAY STATE FEDERAL LEASE PRIVATE(Owned) PRIVATE(Leased Grazing) SALT & MINERAL PROTEIN SUPP OTHER	TON AUY AUY AUY AUY TON TON	102.00 30.0% 7.0% 55.0% 0.0% 7.00 22.00 0.00	\$130 \$25.08 \$16.20 \$0.00 \$135 \$325 \$0	\$13,260 \$0 \$8,019 \$0 \$0 \$945 \$7,150 <u>\$0</u>	\$26.79 \$0.00 \$16.20 \$0.00 \$1.91 \$14.44 \$0.00
	TOTAL				\$29,374	\$59.34
2. OTHER VARIABLE COSTS	VET AND MEDICINE LIVESTOCK HAULING HIRED LABOR OPERATING COSTS-EQUIP & I OPERATING COSTS-VEHICLE RANCH MAINTENANCE BEEF CHECKOFF LIVESTOCK PURCHASES	масн			COST \$4,455 \$949 \$0 \$2,975 \$3,400 \$2,848 \$342 \$342	59.00 \$1.92 \$0.00 \$6.01 \$6.87 \$5.75 \$0.69 \$5.05
	TOTAL				\$17.468	\$35.29
3. INTEREST ON VARIABLE C	DSTS SUM OF VARIABLE COSTS X M X INTEREST RATE PER MONTI ANNUAL INTEREST RATE NUMBER OF MONTHS BORRO	Months Borf H Wed	ROWED		7.0% 6	VALUE PER COW
					\$1,639	\$3.31
	τοτοι				\$48,481	\$97.94
OWNERSHIP COSTS	TOTAL				\$131,0/1	\$266.00
OWNERSHIP COSTS	Annual Capital Recovery <sup>4</sup> (At R	Colscoment V	alualy		Dependents CEN: Accel Queenship5	VALUE OFF COM
CASH COSTS	Contract of the second of the	apiacement vi	1100).		Neplesens 03% Asset Ownership	VALUE PER COW
Taxes & Insurance Overhead					\$6,901	\$13.94
Total					\$9,001	\$18.18
NON CASH COSTS Purchased Livestock Machinery & Equipment Housing & Improvements Interest on Retained Live Management & Operation	s istock <sup>6</sup> 1 Labor (6% of gross returns)				\$12,767 \$6,901 \$23,265 \$34,155 \$7,900	\$25.79 \$13.94 \$47.00 \$69.00 \$15.96
Total					\$84,989	\$171.69
TOTAL CASH AND VARIABLE (	COSTS				\$93,990	\$189.88
TOTAL COSTS					\$142,472	\$287.82
RETURN ABOVE TOTAL CASH	COSTS				\$122,670	\$247.82
RETURN ABOVE TOTAL COST	S				\$37,681	\$76.12
BREAKEVEN CALCULATIONS	-	VADIADIE	TOTAL	2		
REQUIRED AVG, CA	ALF PRICES CASH COST (cwl) F PRICES TOTAL COSTS(cwl)	\$21.90 \$21.90	\$25.96 \$64.35			

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 1999 price projections from Cattle Fax, Doane's 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.

#### NORTHWEST REGION MEDIUM RANCH INVESTMENTS 1999

Number	Land Values	Price Por Unit	10 Yr Avg	Purchase	Salvage/Cull	Useful	Livestock	Annual Capital
4000	Acres of private land	S75	3 9%	\$300.000	\$300.000	Life	Share	Recovery
200	ALL Values <sup>1</sup>	\$2 400	3.0%	\$480,000	\$300,000			
200	AU Values	φ2,400	3.970	<b>φ</b> 400,000	\$400,000			
			Subtotal	\$780,000				
Number	<b>Buildings</b> , Improvements	Price Per Unit						
10	Miles of pipeline	\$1,900	3.9%	\$19,000	\$1,900	25	100	\$1,157
3	Wells	\$9,300	3.9%	\$27,900	\$2,790	25	100	\$1,699
40	Miles of Fence	\$2,600	3.9%	\$104,000	\$10,400	25	100	\$6,334
1	Corrals/Working Facilities	\$4,700	3.9%	\$4,700	\$470	30	100	\$260
1	Barns & Shop	\$8,200	3.9%	\$8,200	\$820	30	100	\$454
			Subtotal	\$163,800				\$9,904
Number	Machinery & Vehicles	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			
1	3/4 ton pickup 4WD	\$17,000	7.0%	\$17,000	\$3,400	7	50	\$1,381
0	3/4 ton pickup 4WD	\$17,000	7.0%	\$0	\$0	7	50	\$0
1	Tractor	\$5,000	7.0%	\$5,000	\$1,000	7	100	\$812
1	Gooseneck trailer	\$3,200	7.0%	\$3,200	\$640	7	100	\$520
1	Horse tack	\$2,700	7.0%	\$2,700	\$540	10	100	\$345
1	Misc. equipment	\$1,600	7.0%	\$1,600	\$320	10	100	\$205
			Subtotal	\$29,500				\$3,263
Head	Purchased Livestock	Price Per Unit	Interest Rate <sup>4</sup>	Price	Salvage/Cull			
8	Horses	\$1,600	7.0%	\$12,800	\$4,864	10	100	\$1,470
9	Bulls	\$2,000	7.0%	\$18,000	\$6,840	4	100	\$3,774
40	Cows	\$1,100.00	7.0%	\$44,000	\$16,720	8	100	\$5,739
71	Total AUYs							
			Subtotal	\$30,800				\$5,244
Head	Retained Livestock	Price Per Unit	Interest Rate	Price	Salvage/Cull			Interest on Investment
180	Cows	\$1,100	7.0%	\$198,000	\$75,240			\$10,930
27	Replacement Heifers	\$1,000	7.0%	\$27,000	\$10,260			\$1,490
200	Total AUYs		Subtotal	\$225,000	\$85,500			\$12.420
			Total	\$1,229,100				\$25,587

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.

#### NORTHWEST REGION MEDIUM COW/CALF BUDGET 1999

	BREED HERD SIZE CULL RATE	180 15%	COW to BULL	20	CALF CROP PERCEN I <sup>1</sup> REPLACEMENT HEIFERS KEPT	<b>83%</b> 27
		VALUE OF PRO	DUCTION			VALUE DED COW
STEER CALVES HEIFER CALVES CULL COWS CULL BULLS		QUANTITY 75 48 37 1	<u>WEIGHT/LBS.</u> 510 485 900 1200	PRICE <sup>2</sup> \$0.87 \$0.80 \$0.40 \$0.42	VALUE \$33,144 \$18,508 \$13,320 \$504	\$184.14 \$102.82 \$74.00 \$2.80
	τοται	160			\$65.476	\$363.76
VARIABLE COSTS					\$00,470	\$000.10
						VALUE PER COW
1. FEED COSTS	HAY STATE FEDERAL LEASE PRIVATE(Owned) PRIVATE(Leased Grazing) SALT & MINERAL PROTEIN SUPP OTHER	UNITS TON AUY AUY AUY AUY TON TON	QUANTITY/PERCENT 27.00 45.0% 33.0% 20.0% 0.0% 2.50 6.00 0.00	PRICE \$135.00 \$25.08 \$16.20 \$0.00 \$128.00 \$328.00 \$0.00	COST \$3,645 \$0 \$2,916 \$0 \$320 \$1,968 \$0	\$20.25 \$0.00 \$16.20 \$0.00 \$1.78 \$10.93 \$0.00
	TOTAL				\$8,849	\$49.16
2. OTHER VARIABLE COSTS	VET AND MEDICINE LIVESTOCK HAULING HIRED LABOR OPERATING COSTS-EQUIP & OPERATING COSTS-VEHICLE RANCH MAINTENANCE BEEF CHECKOFF OTHER TOTAL	MACH	10		COST \$1,620 \$401 \$0 \$2,125 \$2,635 \$2,201 \$122 \$2,000 \$11,104	\$9.00 \$2.23 \$0.00 \$11.81 \$14.64 \$12.23 \$0.68 <u>\$11.11</u> \$61.69
3. INTEREST ON VARIABLE CO	DSTS SUM OF VARIABLE COSTS X X INTEREST RATE PER MON ANNUAL INTEREST RATE NUMBER OF MONTHS BORR	MONTHS BORF TH OWED	ROWED		7.0% 6	VALUE PER COW
					\$698	HIGH \$3.88
	TOTAL				\$20,652	\$114.73
					\$44,824	\$249.02
OWNERSHIP COSTS	4	Destauration			D	
CASH COSTS Taxes & Insurance Overhead Total	Annual Capital Recovery (AL	Replacement v	aiue).		\$3,263 \$2,100 \$5,363	\$18.13 \$11.67 \$29.79
NON CASH COSTS Purchased Livestock Machinery & Equipment Housing & Improvements Interest on Retained Live Management & Operation Total	s bstock <sup>6</sup> n Labor (6% of gross returns)				\$5,244 \$3,263 \$9,904 \$12,420 \$3,929 \$34,759	\$29.13 \$18.13 \$55.02 \$69.00 \$21.83 \$193.11
TOTAL FIXED COSTS	COSTS				\$40,122	\$222.90
TOTAL CASH AND VARIABLE	00010				\$20,014	\$144.52
RETURN ABOVE TOTAL CASH	COSTS				\$39,462	\$219.23
RETURN ABOVE TOTAL COST	S				\$4,702	\$26.12
BREAKEVEN CALCULATIONS		VARIABLE	TOTAL		an katalan kata sering katalan	
		\$27.70	\$35.00			
REQUIRED AVG. CA	LF PRICES TOTAL COSTS(cwt)	\$27.78	\$81.77			

Calf crop is defined as the actual number of calves sold divided by the total number of cows (assuming all cows were exposed).
 Prices represent 2005 price projections from Cattle Fax, Doane's reports for New Mexico feeder cattle cash prices.
 Market prices include commissions, brand inspections, beef council, yardage, feed, and insurance.
 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.

#### NORTHWEST REGION LARGE RANCH INVESTMENTS 1999

Number	Land Values	Price Per Unit	10 Yr Avg Rate of Return	Purchase	Salvage/Cull	Useful	Livestock	Annual Capital
6000	Acres of private land	\$75	3.9%	\$450.000	\$450.000	LIIC	Onare	Recovery
350	AU Values <sup>1</sup>	\$2,400	3.9%	\$840,000	\$840,000			
			Subtotal	\$1,290,000				
Number	<b>Buildings</b> , Improvements	Price Per Unit				515922		
13	Miles of pipeline	\$1,900	3.9%	\$24,700	\$2,470	25	100	\$1,504
5	Wells	\$9,300	3.9%	\$46,500	\$4,650	25	100	\$2,832
65	Miles of Fence	\$2,600	3.9%	\$169,000	\$16,900	25	100	\$10,293
1	Corrals/Working Facilities	\$4,700	3.9%	\$4,700	\$470	30	100	\$260
1	Barns & Shop	\$8,200	3.9%	\$8,200	\$820	30	100	\$454
			Subtotal	\$253,100				\$15,343
Number	Machinery & Vehicles	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			
1	3/4 ton pickup 4WD	\$17,000	7.0%	\$17,000	\$3,400	7	50	\$1,381
0	3/4 ton pickup 4WD	\$17,000	7.0%	\$0	\$0	7	50	\$0
0	Tractor	\$5,000	7.0%	\$0	\$0	7	100	\$0
2	Gooseneck trailer	\$3,200	7.0%	\$6,400	\$1,280	7	100	\$1,040
1	Horse tack	\$2,700	7.0%	\$2,700	\$540	10	100	\$345
1	Misc. equipment	\$1,600	7.0%	\$1,600	\$320	10	100	\$205
			Subtotal	\$27,700				\$2,970
Head	Purchased Livestock	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull	199		
10	Horses	\$1,600	7.0%	\$16,000	\$6,080	10	100	\$1,838
16	Bulls	\$2,000	7.0%	\$31,500	\$11,970	4	100	\$6,604
90	Cows	\$1,100.00	7.0%	\$99,000	\$37,620	8	100	\$12,913
145	Total AUYs							
			Subtotal	\$47,500				\$8,442
Head	Retained Livestock	Price Per Unit	Interest Rate	Price	Salvage/Cull			Interest on Investment
315	Cows	\$1,100	7.0%	\$346,500	\$131,670			\$19,127
47	Replacement Heifers	\$1,000	7.0%	\$47,250	\$17,955			\$2,608
350	Total AUTS		Subtotal	\$393,750	\$149,625			\$21,735
			Total	\$2,012,050				\$40,048

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.

#### NORTHWEST REGION LARGE COW/CALF BUDGET 1999

	BREED HERD SIZE CULL RATE	315 15%	COW to BULL	20	CALF CROP PERCENT <sup>1</sup> REPLACEMENT HEIFERS KEPT	<b>82%</b> 47
STEER CALVES HEIFER CALVES		QUANTITY 129 82	DUCTION WEIGHT/LBS. 510 485	PRICE <sup>2</sup> \$0.87 \$0.80	<u>VALUE</u> \$57,304 \$31,777	VALUE PER COW \$181.92 \$100.88
CULL BULLS		31 1	900	\$0.40 \$0.42	\$13,320 <u>\$504</u>	\$42.29 <u>\$1.60</u>
VARIABLE COSTS	TOTAL	249			\$102,905	\$326.68
						VALUE PER COW
1. FEED COSTS	HAY STATE FEDERAL LEASE PRIVATE(Owned) PRIVATE(Leased Grazing) SALT & MINERAL PROTEIN SUPP OTHER	UNITS TON AUY AUY AUY AUY TON TON	QUANTITY/PERCENT 32.00 45.0% 20.0% 0.0% 4.00 6.00 0.00	PRICE \$135.00 \$25.08 \$16.20 \$0.00 \$128.00 \$328.00 \$0.00	COST \$4,320 \$0 \$5,103 \$0 \$0 \$512 \$1,968	\$13.71 \$0.00 \$16.20 \$0.00 \$1.63 \$6.25
				30.00	\$ <u>50</u> \$11,903	\$0.00 \$37.79
2. OTHER VARIABLE COSTS	VET AND MEDICINE LIVESTOCK HAULING HIRED LABOR OPERATING COSTS-EQUIP & OPERATING COSTS-VEHICLE RANCH MAINTENANCE BEEF CHECKOFF OTHER TOTAL	MACH	10		COST \$2,835 \$623 \$0 \$2,550 \$3,400 \$2,253 \$211 \$2,500 \$14,371	\$9.00 \$1.98 \$0.00 \$8.10 \$10.79 \$7.15 \$0.67 <u>\$7.94</u> \$45.62
3. INTEREST ON VARIABLE CO	STS SUM OF VARIABLE COSTS X I X INTEREST RATE PER MONT ANNUAL INTEREST RATE NUMBER OF MONTHS BORRO	MONTHS BORR H WED	OWED		7.0% 6	VALUE PER COW
					\$920	\$2.92
OWNERSHIP COSTS	TOTAL				\$27,194 \$75,711	\$86.33 \$240.35
CASH COSTS Taxes & Insurance Overhead	Annual Capital Recovery <sup>4</sup> (At F	Replacement Val	lue):		Represents 65% Asset Ownership <sup>5</sup> \$2,970 \$2,100	VALUE PER COW \$9.43 \$6.67
Total NON CASH COSTS Purchased Livestock Machinery & Equipment					\$5,070	\$16.10 \$26.80
Housing & Improvements Interest on Retained Lives Management & Operation	tock <sup>6</sup> Labor (6% of gross returns)				\$2,970 \$15,343 \$21,735 \$4,543	\$9.43 \$48.71 \$69.00 \$14.42
TOTAL FIXED COSTS					\$53,032 \$58.103	\$168.36 \$184.45
TOTAL CASH AND VARIABLE CO TOTAL COSTS RETURN ABOVE TOTAL CASH C	OSTS				\$32,264 \$85,296	\$102.43 \$270.78
RETURN ABOVE TOTAL COSTS					\$/0,641	\$224.26
BREAKEVEN CALCULATIONS					911,0UA	\$25.9U
	Γ	VARIABLE COSTS	TOTAL COSTS			
REQUIRED AVG. CA	LF PRICES CASH COST (cwt) F PRICES TOTAL COSTS(cwt)	\$21.16 \$21.16	\$25.11 \$66.38			

Calf crop is defined as the actual number of calves sold divided by the total number of cows (assuming all cows were exposed).
 Prices represent 1999 price projections from Cattle Fax, Doane's reports for New Mexico feeder cattle cash prices.
 Market prices include commissions, brand inspections, beef council, yardage, feed, and insurance.
 Annual capital recovery is the method of calculating depreciation and interest recommended by the National Task Force on Commodity Costs and Returns Measurement Methods.
 The 35% reduction in asset values which represent a mix of new and used machinery.

6) Interest on average investment.

#### NORTHWEST MOUNTAIN REGION EXTRA-LARGE RANCH INVESTMENTS 1999

			10 Yr Avg	Purchase	Salvage/Cull	Useful	Livestock	Annual Capital
Number	Land Values	Price Per Unit	Rate of Return	Price	Value	Life	Share	Recovery
8000	Acres of private land	\$75	3.9%	\$600,000	\$600,000			
500	AU Values <sup>1</sup>	\$2,400	3.9%	\$1,200,000	\$1,200,000			
			Subtotal	\$1,800,000				
Number	<b>Buildings, Improvements</b>	Price Per Unit						
18	Miles of pipeline	\$1,900	3.9%	\$34,200	\$3,420	25	100	\$2,083
7	Wells	\$9,300	3.9%	\$65,100	\$6,510	25	100	\$3,965
100	Miles of Fence	\$2,600	3.9%	\$260,000	\$26,000	25	100	\$15,835
2	Corrals/Working Facilities	\$4,700	3.9%	\$9,400	\$940	30	100	\$520
1	Barns & Shop	\$8,200	3.9%	\$8,200	\$820	30	100	\$454
			Subtotal	\$376,900				\$22,856
Number	Machinery & Vehicles	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			
2	3/4 ton pickup 4WD	\$17,000	7.0%	\$34,000	\$6,800	7	50	\$2,762
1	1 ton pickup 4WD	\$17,000	7.0%	\$17,000	\$3,400	7	50	\$1,381
1	Tractor	\$5,000	7.0%	\$5,000	\$1,000	7	100	\$812
3	Gooseneck trailer	\$3,200	7.0%	\$9,600	\$1,920	7	100	\$1,559
1	Horse tack	\$2,700	7.0%	\$2,700	\$540	10	100	\$345
1	Misc. equipment	\$1,600	7.0%	\$1,600	\$320	10	100	\$205
			Subtotal	\$69,900				\$7,064
Head	Purchased Livestock	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			
13	Horses	\$1,600	7.0%	\$20,800	\$7,904	10	100	\$2,389
23	Bulls	\$2,000	7.0%	\$45,000	\$17,100	4	100	\$9,434
100	Cows	\$1,100.00	7.0%	\$110,000	\$41,800	8	100	\$14.347
169	Total AUYs					CONTRACTOR CONT		
	rout no ro		Subtotal	\$65,800				\$11.823
Head	Retained Livestock	Price Per Unit	Interest Rate	Price	Salvage/Cull			Interest on Investment
450	Cows	\$1,100	7.0%	\$495,000	\$188,100			\$27,324
68	Replacement Heifers	\$1,000	7.0%	\$67,500	\$25,650			\$3,726
501	Total AUYs							
			Subtotal	\$562,500	\$213,750			\$31,050
			Total	\$2,875,100				\$60,970

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.

#### NORTHWEST REGION **EX-LARGE COW/CALF BUDGET 1999**

	BREED HERD SIZE CULL RATE	450 15%	COW TO BULL	20	CALF CROP PERCENT <sup>1</sup> REPLACEMENT HEIFERS KEPT	<b>85%</b> 67.5
	۷	ALUE OF PRO	DUCTION			
STEER CALVES HEIFER CALVES CULL COWS CULL BULLS		QUANTITY 191 124 <b>37</b> 1	<u>WEIGHT/LBS.</u> 510 485 900 1200	PRICE <sup>2</sup> \$0.87 \$0.80 \$0.40 \$0.42	VALUE \$84,858 \$48,015 \$13,320 <u>\$504</u>	\$188.57 \$106.70 \$29.60 <u>\$1.12</u>
	TOTAL	353			\$146,697	\$325.99
VARIABLE COSTS						
4 5550 00070		UNITO		PRICE	7200	VALUE PER COW
1. FED COSIS	HAY STATE FEDERAL LEASE PRIVATE(Owned) PRIVATE(Leased Grazing) SALT & MINERAL PROTEIN SUPP OTHER TOTAL	TON AUY AUY AUY AUY TON TON	GOANTITI/PERCENT 35.00 45.0% 20.0% 6.00 7.00 0.00	FX125           \$135           \$25.08           \$16.20           \$0.00           \$128           \$328           \$0	\$4,725 \$0 \$7,290 \$0 \$0 \$768 \$2,296 \$0 \$15,079	\$10.50 \$0.00 \$16.20 \$0.00 \$1.71 \$5.10 <u>\$0.00</u> \$33.51
	IUTAL				\$15,079	433.31
2. OTHER VARIABLE COSTS	VET AND MEDICINE LIVESTOCK HAULING HIRED LABOR OPERATING COSTS-EQUIP & OPERATING COSTS-VEHICLE RANCH MAINTENANCE BEEF CHECKOFF OTHER	МАСН	EDE		COST \$4,050 \$883 \$0 \$3,188 \$4,109 \$2,805 \$315 \$4,000	\$9.00 \$1.96 \$7.08 \$9.13 \$6.23 \$0.70 <u>\$8.89</u>
	TOTAL				\$19,349	\$43.00
3. INTEREST ON VARIABLE	COSTS SUM OF VARIABLE COSTS X X INTEREST RATE PER MONT ANNUAL INTEREST RATE NUMBER OF MONTHS BORRO	Months Bori Th DWED	ROWED		7.0% 6	VALUE PER COW
					\$1,205	\$2.68
					\$35,633	\$79.18
	TOTAL				\$111,064	\$246.81
OWNERSHIP COSTS						
CASU COSTS	Annual Capital Recovery <sup>4</sup> (At	Replacement V	alue):		Represents 65% Asset Ownership <sup>5</sup>	VALUE PER COW
Taxes & Insurance Overhead Total					\$7,064 \$2,100 \$9,164	\$15.70 \$4.67 \$20.36
NON CASH COSTS Purchased Livestock Machinery & Equipme Housing & Improvemu Interest on Retained I Management & Opera Total	ent ents Livestock <sup>6</sup> tion Labor (6% of gross returns)				\$11,823 \$7,064 \$22,856 \$31,050 \$8,802 \$81,595	\$26.27 \$15.70 \$50.79 \$69.00 \$19.56 \$181.32
TOTAL FIXED COSTS	E COSTS				\$90,759	\$201.69
TOTAL CASH AND VARIABI	LE 00010				\$126.392	\$280.87
RETURN ABOVE TOTAL CA	SH COSTS				\$101.900	\$226.44
RETURN ABOVE TOTAL CO	OSTS				\$20,305	\$45.12
BREAKEVEN CALCULATIO	NS	VARIABLE	TOTAL			
		COSTS	COSIS			
REQUIRED AVG.	CALF PRICES TOTAL COSTS(cwt)	\$18.73	ə∠3.54 \$66.42			

Calf crop is defined as the actual number of calves sold divided by the total number of cows (assuming all cows were exposed).
 Prices represent 1999 price projections from Cattle Fax, Doane's reports for New Mexico feeder cattle cash prices.
 Market prices include commissions, brand inspections, beef council, yardage, feed, and insurance.
 Annual capital recovery is the method of calculating depreciation and interest recommended by the National Task Force on Commodity Costs and Returns Measurement Methods.
 The 35% reduction in asset values which represent a mix of new and used machinery.
 Interest on average investment.

## SOUTHEAST REGION MEDIUM RANCH INVESTMENTS 1999

Number	Land Values	Deine Des Unit	10 Yr Avg	Purchase	Salvage/Cull	Useful	Livestock	Annual Capital
Number	Land Values	Price Per Unit	Rate of Return	Price	Value	Life	Share	Recovery
4000	Acres of private land	00¢	3.9%	\$260,000	\$260,000			
200	AU Values	\$2,250	3.9%	\$450,000	\$450,000			
			Subtotal	\$710,000				
Number	<b>Buildings</b> , Improvements	Price Per Unit	~					
5	Miles of pipeline	\$1,800	3.9%	\$9,000	\$900	25	100	\$548
4	Wells	\$8,900	3.9%	\$35,600	\$3,560	25	100	\$2,168
22	Miles of Fence	\$2,500	3.9%	\$55,000	\$5,500	25	100	\$3,350
1	Corrals/Working Facilities	\$4,500	3.9%	\$4,500	\$450	30	100	\$249
1	Barns & Shop	\$8,000	3.9%	\$8,000	\$800	30	100	\$443
			Subtotal	\$112,100				\$6,757
Number	Machinery & Vehicles	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			
1	3/4 ton pickup 4WD	\$17,000	7.0%	\$17,000	\$3,400	7	50	\$1,381
0	1 ton pickup 4WD	\$18,000	7.0%	\$0	\$0	7	50	\$0
0	Tractor	\$5,000	7.0%	\$0	\$0	7	100	\$0
1	Gooseneck trailer	\$3,200	7.0%	\$3,200	\$640	7	100	\$520
1	Horse tack	\$2,600	7.0%	\$2,600	\$520	10	100	\$333
1	Misc. equipment	\$1,600	7.0%	\$1,600	\$320	10	100	\$205
			Subtotal	\$24,400				\$2,438
Head	Purchased Livestock	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			
4	Horses	\$1,600	7.0%	\$6,400	\$2,432	10	100	\$735
9	Bulls	\$2,000	7.0%	\$18,000	\$6,840	4	100	\$3,774
40	Cows	\$1,100.00	7.0%	\$44,000	\$16,720	8	100	\$5,739
66	Total AUYs							
			Subtotal	\$24,400				\$4,509
Head	Retained Livestock	Price Per Unit	Interest Rate	Price	Salvage/Cull			Interest on Investment
180	Cows	\$1,100	7.0%	\$198,000	\$75,240			\$10,930
27	Replacement Heifers	\$1,000	7.0%	\$27,000	\$10,260			\$1,490
200	lotal AUYS		Subtotal	\$225,000	\$85,500			\$12,420
			Total	\$1,095,900				\$21,615

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.

#### SOUTHEAST REGION MEDIUM COW/CALF BUDGET 1999

	BREED HERD SIZE CULL RATE	180 15%	COW to BULL	20	CALF CROP PERCEN I <sup>1</sup> REPLACEMENT HEIFERS KEPT	<b>83%</b> 27
		VALUE OF PRO	DUCTION			
STEER CALVES HEIFER CALVES CULL COWS CULL BULLS		QUANTITY 75 48 37 1	<u>WEIGHT/LBS.</u> 510 485 900 1200	PRICE <sup>2</sup> \$0.85 \$0.80 \$0.40 \$0.42	VALUE \$32,382 \$18,508 \$13,320 \$504	\$179.90 \$102.82 \$74.00 \$2.80
	TOTAL	160		And	\$64.714	\$250.52
VARIABLE COSTS					401,FU4	\$JJ3.JZ
4 FEED COOTO						VALUE PER COW
1. FEED COSTS	HAY STATE FEDERAL LEASE PRIVATE(Owned) PRIVATE(Leased Grazing) SALT & MINERAL PROTEIN SUPP OTHER	UNITS TON AUY AUY AUY AUY TON TON	QUANTITY/PERCENT 17.00 45.0% 25.0% 30.0% 0.0% 2.50 9.00 0.00	PRICE \$135 \$25.08 \$16.20 \$0.00 \$100 \$135 \$325 \$0	COST \$2,295 \$0 \$2,916 \$0 \$0 \$338 \$2,925 <u>\$0</u>	\$12.75 \$0.00 \$16.20 \$0.00 \$0.00 \$1.88 \$16.25 <u>\$0.00</u>
	TOTAL				\$8,474	\$47.08
2. OTHER VARIABLE COSTS	VET AND MEDICINE LIVESTOCK HAULING HIRED LABOR OPERATING COSTS-EQUIP & OPERATING COSTS-VEHICLE RANCH MAINTENANCE BEEF CHECKOFF PURCHASED LIVESTOCK TOTAL	MACH	10		COST \$1,620 \$401 \$0 \$1,403 \$2,933 \$1,700 \$122 \$2,000 \$10,178	\$9.00 \$2.23 \$0.00 \$7.79 \$16.29 \$9.44 \$0.68 <u>\$11.11</u> \$56.55
3. INTEREST ON VARIABLE COS	TS SUM OF VARIABLE COSTS X X INTEREST RATE PER MONT ANNUAL INTEREST RATE NUMBER OF MONTHS BORR(	Months Borr Th Dwed	ROWED		7.0% 6	VALUE PER COW
					\$653	\$3.63
	ΤΟΤΔΙ				\$19,305	\$107.25
OWNERSHIP COSTS					940,409	\$232.27
UNRERGHIP COSTS	Annual Capital Recovery <sup>4</sup> (At	Replacement Va	alue):		Represents 65% Asset Ownership <sup>5</sup>	VALUE DED COW
CASH COSTS Taxes & Insurance Overhead Total	Annual Supran Recovery (Ar		aue).		\$2,438 \$2,100 \$4,538	\$13.54 \$11.67 \$25.21
NON CASH COSTS Purchased Livestock Machinery & Equipment Housing & Improvements Interest on Retained Livest Management & Operation L Total	ock <sup>e</sup> abor (6% of gross returns)				\$4,509 \$2,438 \$6,757 \$12,420 \$3,883 \$30,007	\$25.05 \$13.54 \$37.54 \$69.00 \$21.57 \$166.70
TOTAL FIXED COSTS					\$34,545	\$191.91
TOTAL CASH AND VARIABLE CO TOTAL COSTS	STS				\$23,842 \$53,849	\$132.46 \$299.16
RETURN ABOVE TOTAL CASH CO	OSTS				\$40,872	\$227.06
RETURN ABOVE TOTAL COSTS					\$10,865	\$60.36
BREAKEVEN GALCULATIONS REQUIRED AVG. C	ALF PRICES CASH COST (cwt)	VARIABLE COSTS \$25.97	TOTAL COSTS \$32.08			
REQUIRED AVG. CA	LF PRICES TOTAL COSTS(cwt)	\$25.97	\$72.45			

Calf crop is defined as the actual number of calves sold divided by the total number of cows (assuming all cows were exposed).
 Prices represent 1999 price projections from Cattle Fax, Doane's reports for New Mexico feeder cattle cash prices.

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.

## SOUTHEAST REGION LARGE RANCH INVESTMENTS 1999

Number	Land Values	Price Por Unit	10 Yr Avg	Purchase	Salvage/Cull	Useful	Livestock	Annual Capital
6000	Acres of private land	Frice Per Unit	3 Q%	\$300.000	\$300.000	Lile	Snare	Recovery
400	ALL Values <sup>1</sup>	\$00 \$2.250	2.0%	\$330,000	\$330,000			
400	AU values	\$2,250	3.9%	\$900,000	\$900,000			
			Subtotal	\$1,290,000				
Number	<b>Buildings</b> , Improvements	Price Per Unit						
12	Miles of pipeline	\$1,800	3.9%	\$21,600	\$2,160	25	100	\$1,316
6	Wells	\$8,900	3.9%	\$53,400	\$5,340	25	100	\$3,252
75	Miles of Fence	\$2,500	3.9%	\$187,500	\$18,750	25	100	\$11,419
1	Corrals/Working Facilities	\$4,500	3.9%	\$4,500	\$450	30	100	\$249
1	Barns & Shop	\$8,000	3.9%	\$8,000	\$800	30	100	\$443
		×	Subtotal	\$275,000				\$16,679
Number	Machinery & Vehicles	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			
1	3/4 ton pickup 4WD	\$17,000	7.0%	\$17,000	\$3,400	7	50	\$1,381
1	1 ton pickup 4WD	\$18,000	7.0%	\$18,000	\$3,600	7	50	\$1,462
0	Dozer/Tractor	\$5,000	7.0%	\$0	\$0	7	100	\$0
2	Gooseneck trailer	\$3,200	7.0%	\$6,400	\$1,280	7	100	\$1,040
1	Horse tack	\$2,600	7.0%	\$2,600	\$520	10	100	\$333
1	Misc. equipment	\$1,600	7.0%	\$1,600	\$320	10	100	\$205
			Subtotal	\$45,600				\$4,420
Head	Purchased Livestock	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull		1	
8	Horses	\$1,600	7.0%	\$12,800	\$4,864	10	100	\$1,470
18	Bulls	\$1,500	7.0%	\$27,000	\$10,260	4	100	\$5,660
80	Cows	\$1,100.00	7.0%	\$88,000	\$33,440	8	100	\$11,478
133	Total AUYs					Real Concernance		
			Subtotal	\$39,800				\$7,131
Head	Retained Livestock	Price Per Unit	Interest Rate	Price	Salvage/Cull			Interest on Investment
360	Cows	\$1,100	7.0%	\$396,000	\$150,480			\$21,859
54	Replacement Heifers	\$1,000	7.0%	\$54,000	\$20,520			\$2,981
401	Total AUYs		Subtotal	\$450,000	\$171,000			\$24,840
			Total	\$2,100,400				\$45,938

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.

#### SOUTHEAST REGION LARGE COW/CALF BUDGET 1999

	BREED HERD SIZE CULL RATE	360 15%	COW to BULL	20	CALF CROP PERCEN'I <sup>1</sup> REPLACEMENT HEIFERS KEPT	83% 54
		VALUE OF PRO	DUCTION			
STEER CALVES HEIFER CALVES CULL COWS CULL BULLS		QUANTITY 149 95 <b>37</b> 1	<u>WEIGHT/LBS.</u> 510 485 900 1200	PRICE <sup>2</sup> \$0.85 \$0.78 \$0.38 \$0.40	VALUE \$64,765 \$36,090 \$12,654 <u>\$480</u>	\$179.90 \$100.25 \$35.15 <u>\$1.33</u>
	TOTAL	283			\$113,989	\$316.64
VARIABLE COSTS						
1. FEED COSTS		UNITS	QUANTITY/PERCENT	PRICE	COST	VALUE PER COW
	HAY STATE FEDERAL LEASE PRIVATE(Owned) PRIVATE(Leased Grazing) SALT & MINERAL PROTEIN SUPP OTHER	TON AUY AUY AUY AUY TON TON	33.00 45.0% 25.0% 30.0% 5.00 16.00 0.00	\$135 \$25.08 \$16.20 \$0.00 \$0.00 \$135 \$325 \$0	\$4,455 \$0 \$5,832 \$0 \$675 \$5,200 <u>\$0</u>	\$12.38 \$0.00 \$16.20 \$0.00 \$1.88 \$14.44 <u>\$0.00</u>
	TOTAL				\$16,162	\$44.89
2. OTHER VARIABLE COSTS	VET AND MEDICINE LIVESTOCK HAULING HIRED LABOR OPERATING COSTS-EQUIP & OPERATING COSTS-VEHICLE RANCH MAINTENANCE BEEF CHECKOFF LIVESTOCK PURCHASES TOTAL	MACH E			COST \$3,240 \$707 \$0 \$1,955 \$3,400 \$1,998 \$245 \$2,000 \$13,544	\$9.00 \$1.96 \$0.00 \$5.43 \$9.44 \$5.55 \$0.68 <u>\$5.56</u> \$37.62
					\$10,011	001.02
3. INTEREST ON VARIABLE COS	SUM OF VARIABLE COSTS X X INTEREST RATE PER MON ANNUAL INTEREST RATE NUMBER OF MONTHS BORR	MONTHS BORR TH OWED	ROWED		7.0% 6	VALUE PER COW
					\$1,040	\$2.89
	TOTAL				\$30,746	\$85.41
OWNERSHIP COSTS					000,2.10	0201.20
	Annual Capital Recovery <sup>4</sup> (At	Replacement Va	alue):		Represents 65% Asset Ownership <sup>5</sup>	VALUE PER COW
CASH COSTS Taxes & Insurance Overhead Total					\$4,420 \$2,100 \$6,520	\$12.28 \$5.83 \$18.11
NON CASH COSTS Purchased Livestock Machinery & Equipment Housing & Improvements Interest on Retained Livest Management & Operation L Total	ock <sup>6</sup> abor (6% of gross returns)				\$7,131 \$4,420 \$16,679 \$24,840 \$6,839 \$59,908	\$19.81 \$12.28 \$46.33 \$69.00 \$19.00 \$166.41
TOTAL FIXED COSTS					\$66,428	\$184.52
TOTAL CASH AND VARIABLE CO	OSTS				\$37,266	\$103.52
TOTAL COSTS	0070				\$97,174	\$269.93
RETURN ABOVE TOTAL CASH CO	0818				\$76,723	\$213.12
BREAKEVEN CALCUL ATIONS					\$16,815	\$46.71
DICARCTER CALCULATIONS	[	VARIABLE COSTS	TOTAL COSTS			
REQUIRED AVG. C	ALF PRICES CASH COST (cwt)	\$20.68	\$25.07			
REQUIRED AVG. CA	LF PRICES TOTAL COSTS(cwt)	\$20.68	\$65.37			

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 1999 price projections from Cattle Fax, Doane's 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.

#### SOUTHEAST REGION EXTRA-LARGE RANCH INVESTMENTS 1999

Number	Land Values	Brice Ber Unit	10 Yr Avg	Purchase	Salvage/Cull	Useful	Livestock	Annual Capital
10000	Acres of private land	S65	3.9%	\$650,000	\$650,000	LIIE	Share	Recovery
550	ALL Values <sup>1</sup>	\$2 250	3.0%	\$1 237 500	\$1 237 500			
550	AU values	φ2,200	3.370	φ1,207,000	\$1,207,000			
			Subtotal	\$1,887,500				
Number	<b>Buildings</b> , Improvements	Price Per Unit						
15	Miles of pipeline	\$1,800	3.9%	\$27,000	\$2,700	25	100	\$1,644
8	Wells	\$8,900	3.9%	\$71,200	\$7,120	25	100	\$4,336
110	Miles of Fence	\$2,500	3.9%	\$275,000	\$27,500	25	100	\$16,748
2	Corrals/Working Facilities	\$4,500	3.9%	\$9,000	\$900	30	100	\$498
1	Barns & Shop	\$8,000	3.9%	\$8,000	\$800	30	100	\$443
			Subtotal	\$390,200				\$23,670
Number	Machinery & Vehicles	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			
2	3/4 ton pickup 4WD	\$17,000	7.0%	\$34,000	\$6,800	7	50	\$2,762
1	1 ton pickup 4WD	\$18,000	7.0%	\$18,000	\$3,600	7	50	\$1,462
1	Tractor	\$5,000	7.0%	\$5,000	\$1,000	7	100	\$812
3	Gooseneck trailer	\$3,200	7.0%	\$9,600	\$1,920	7	100	\$1,559
1	Horse tack	\$2,600	7.0%	\$2,600	\$520	10	100	\$333
1	Misc. equipment	\$1,600	7.0%	\$1,600	\$320	10	100	\$205
			Subtotal	\$70,800				\$7,132
Head	Purchased Livestock	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			
12	Horses	\$1,600	7.0%	\$19,200	\$7,296	10	100	\$2,206
25	Bulls	\$2,000	7.0%	\$49,500	\$18,810	4	100	\$10,377
110	Cows	\$1,100.00	7.0%	\$121,000	\$45,980	8	100	\$15,782
183	Total AUYs					enumeror		
			Subtotal	\$68,700				\$12,583
Head	Retained Livestock	Price Per Unit	Interest Rate	Price	Salvage/Cull			Interest on Investment
495	Cows	\$1,100	7.0%	\$544,500	\$206,910			\$30,056
74	Replacement Heifers	\$1,000	7.0%	\$74,250	\$28,215			\$4,099
551	Total AUYs		Subtotal	\$618 750	\$235 125			\$34 155
			Subtotal	φ010,750	φ <b>2</b> 30,120			φ <b>στ</b> , 100
			Tota	I \$3,035,950				\$64,957

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.

#### SOUTHEAST REGION **EX-LARGE COW/CALF BUDGET 1999**

	BREED HERD SIZE CULL RATE	495 15%	COW to BULL	20	CALF CROP PERCENT <sup>1</sup> REPLACEMENT HEIFERS KEPT	81% 74.25
	V	ALUE OF PRO	DUCTION			
STEER CALVES HEIFER CALVES		QUANTITY 200 126 27	WEIGHT/LBS. 510 485	PRICE2 \$0.85 \$0.78	VALUE \$86,906 \$47,751	\$175.57 \$96.47
CULL BULLS		1	1200	\$0.40 \$0.42	\$13,320 <u>\$504</u>	\$26.91 <u>\$1.02</u>
VARIABLE COSTS	TOTAL	365			\$148,481	\$299.96
						VALUE PER COW
1. FEED COSTS		UNITS	QUANTITY/PERCENT	PRICE	COST	VALUE PER COW
	HAY	TON	41.00	\$135	\$5,535	\$11.18
	FEDERAL LEASE	AUT	45.0%	\$25.08	\$0	\$0.00
	PRIVATE(Owned)	AUY	30.0%	\$10.20	\$8,019	\$16.20
	PRIVATE(Leased Grazing)	AUY	0.0%	\$0.00	\$0 \$0	\$0.00
	SALT & MINERAL	TON	8.00	\$135	\$1,080	\$2.18
	PROTEIN SUPP	TON	22.00	\$325	\$7,150	\$14.44
	OTHER		0.00	\$0	<u>\$0</u>	\$0.00
	TOTAL				\$21,784	\$44.01
2. OTHER VARIABLE COSTS						
	VET AND MEDICINE				CUSI \$4.455	00.03
	LIVESTOCK HAULING				\$912	\$9.00
	HIRED LABOR				SO	\$0.00
	OPERATING COSTS-EQUIP & N	IACH			\$2,975	\$6.01
	OPERATING COSTS-VEHICLE				\$3,060	\$6.18
	RANCH MAINTENANCE		NAME OF TAXABLE PARTY.		\$2,720	\$5.49
	OTHER		ESTER STATE		\$327	\$0.66
	τοται				00,000	310.10
	ere				\$22,440	\$40.30
3. INTEREST ON VARIABLE CO	SUM OF VARIABLE COSTS X M	ONTHS BORR	ROWED			
	X INTEREST RATE PER MONTH	1				
	ANNUAL INTEREST RATE NUMBER OF MONTHS BORROW	WED			7.0%	VALUE PER COW
					\$1 549	62 42
					\$45.781	\$3.13
	TOTAL				\$102,700	\$207.48
OWNERSHIP COSTS			1993 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			420.00
CASH COSTS	Annual Capital Recovery <sup>4</sup> (At Re	eplacement Va	alue):		Represents 65% Asset Ownership <sup>5</sup>	VALUE PER COW
Taxes & Insurance					\$7 122	***
Overhead					\$2 100	\$14.41
Total					\$9,232	\$18.65
NON CASH COSTS						
Purchased Livestock					\$12 583	\$25.42
Machinery & Equipment					\$7,132	\$14.41
Housing & Improvements					\$23,670	\$47.82
Interest on Retained Lives	tock°				\$34,155	\$69.00
Management & Operation	Labor (6% of gross returns)				\$8,909	\$18.00
					\$86,449	\$174.64
TOTAL FILED CUSIS	0575				\$95,681	\$193.29
TOTAL CASH AND VARIABLE C	0010				\$55,013	\$111.14
IUTAL CUSIS					\$141,462	\$285.78
RETURN ABOVE TOTAL CASH (	COSTS				\$93,468	\$188.82
RETURN ABOVE TOTAL COSTS					\$7,019	\$14.18
UNLAREVEN CALCOLATIONS		VARIABLE	TOTAL			
		COSTS	COSTS			
REQUIRED AVG.	CALF PRICES CASH COST (cwt)	\$22.95	\$27.58			
REQUIRED AVG. CA	ALF PRICES TOTAL COSTS(cwt)	\$22.95	\$70.92			
1) Colf area is defined as the actus	number of enhanced divided by the					

Calf crop is defined as the actual number of calves sold divided by the total number of cows (assuming all cows were exposed).
 Prices represent 1999 price projections from Cattle Fax, Doane's reports for New Mexico feeder cattle cash prices.
 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.

#### SOUTHWEST REGION SMALL RANCH INVESTMENTS 1999

			10 Yr Avg	Purchase	Salvage/Cull	Useful	Livestock	Annual Capital
Number	Land Values	Price Per Unit	Rate of Return <sup>1</sup>	Price	Value	Life	Share	Recovery
1500	Acres of private land	\$60	3.9%	\$90,000	\$90,000			
72	AU Values	\$2,100	3.9%	\$151,200	\$151,200			
			Subtotal	\$241,200				
Number	Buildings, Improvements	Price Per Unit				1.1.1.1		
5	Miles of pipeline	\$2,000	3.9%	\$10,000	\$1,000	25	100	\$609
2	Wells	\$8,200	3.9%	\$16,400	\$1,640	25	100	\$999
25	Miles of Fence	\$2,700	3.9%	\$67,500	\$6,750	25	100	\$4,111
1	Corrals/Working Facilities	\$4,700	3.9%	\$4,700	\$470	30	100	\$260
1	Barns & Shop	\$8,200	3.9%	\$8,200	\$820	30	100	\$454
			Subtotal	\$106,800				\$6,432
Number	Machinery & Vehicles	Price Per Unit	Interest Rate <sup>2</sup>	Price	Salvage/Cull	28,820	Sec. 1	
1	3/4 ton pickup 4WD	\$17,000	7.0%	\$17,000	\$3,400	7	50	\$1,381
0	3/4 ton pickup 4WD	\$18,000	7.0%	\$0	\$0	7	50	\$0
0	Dozer/Tractor	\$5,000	7.0%	\$0	\$0	7	100	\$0
1	Gooseneck trailer	\$3,200	7.0%	\$3,200	\$640	7	100	\$520
1	Horse tack	\$2,700	7.0%	\$2,700	\$540	10	100	\$345
1	Misc. equipment	\$1,600	7.0%	\$1,600	\$320	10	100	\$205
			Subtotal	\$24,500				\$2,451
Head	Purchased Livestock	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			
4	Horses	\$1,600	7.0%	\$6,400	\$2,432	10	100	\$735
5	Bulls	\$2,000	7.0%	\$9,600	\$3,648	4	100	\$2,013
12	Cows	\$1,100.00	7.0%	\$13,200	\$5,016	8	100	\$1,722
26	Total AUYs							
			Subtotal	\$16,000				\$2,748
Head	Retained Livestock	Price Per Unit	Interest Rate	Price	Salvage/Cull			Interest on Investment
72	Cows	\$1,100	7.0%	\$79,200	\$30,096		19 19 19 19 19 19 19 19 19 19 19 19 19 1	\$4,372
11	Replacement Heifers	\$1,000	7.0%	\$10,800	\$4,104			\$596
80	Total AUYs							
			Subtotal	\$90,000	\$34,200			\$4,968
			Total	\$478,500				\$13,851

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.

#### SOUTHWEST REGION SMALL COW/CALF BUDGET 1999

	BREED HERD SIZE CULL RATE	72 15%	COW to BULL	15	CALF CROP PERCENI <sup>1</sup> REPLACEMENT HEIFERS KEPT	<b>80%</b> 10.8
	1	ALUE OF PRO	DUCTION			VALUE PER COW
ANIMALS SOLD STEER CALVES HEIFER CALVES CULL COWS CULL BULLS	and the second se	QUANTITY 29 18 37 1	<u>WEIGHT/LBS.</u> 500 475 900 1200	PRICE <sup>2</sup> \$0.84 \$0.77 \$0.37 \$0.39	VALUE \$12,096 \$6,584 \$12,321 <u>\$468</u>	\$168.00 \$91.44 \$171.13 <u>\$6.50</u>
	TOTAL	85			\$31.469	\$437.06
VARIABLE COSTS					\$01,100	\$457.00
4 5550 00070						VALUE PER COW
1. FEED COSTS	HAY STATE FEDERAL LEASE PRIVATE(Owned) PRIVATE(Leased Grazing) SALT & MINERAL PROTEIN SUPP OTHER	UNITS TON AUY AUY AUY AUY TON TON	QUANTITY/PERCENT 20.00 25.0% 65.0% 20.0% 0.0% 1.00 3.00 0.00	PRICE \$130 \$25.08 \$16.20 \$0.00 \$1.00 \$125 \$325 \$0	COST \$2,600 \$0 \$1,166 \$0 \$0 \$125 \$975 <u>\$0</u>	\$36.11 \$0.00 \$16.20 \$0.00 \$1.74 \$13.54 \$0.00
	TOTAL				\$4,866	\$67.59
2. OTHER VARIABLE COSTS	VET AND MEDICINE LIVESTOCK HAULING HIRED LABOR OPERATING COSTS-EQUIP & OPERATING COSTS-VEHICLE RANCH MAINTENANCE BEEF CHECKOFF OTHER TOTAL	MACH	100		COST \$648 \$212 \$0 \$300 \$2,000 \$1,148 \$47 \$1,000 \$5,354	\$9.00 \$2.94 \$0.00 \$4.17 \$15.94 \$0.65 \$13.89 \$74.37
3. INTEREST ON VARIABLE CO	DSTS SUM OF VARIABLE COSTS X I X INTEREST RATE PER MONT ANNUAL INTEREST RATE NUMBER OF MONTHS BORRC	Months Borr 'H Dwed	OWED		7.0% 6	VALUE PER COW
					\$358	\$4.97
					\$10,578	\$146.92
	TOTAL				\$20,890	\$290.14
OWNERSHIP COSTS						
CASH COSTS Taxes & Insurance Overhead	Annual Capital Recovery* (At I	Replacement Va	llue):		Represents 65% Asset Ownership <sup>o</sup> \$2,451 \$2,100	\$34.04 \$29.17
NON CASH COSTS Purchased Livestock Machinery & Equipment Housing & Improvements Interest on Retained Live Management & Operation Total	s estock <sup>6</sup> n Labor (6% of gross returns)				\$4,551 \$2,748 \$2,451 \$6,432 \$4,968 \$1,888 \$18,487	\$63.20 \$38.16 \$34.04 \$89.34 \$69.00 \$26.22 \$256.76
TOTAL FIXED COSTS					\$23.037	\$319.96
TOTAL CASH AND VARIABLE O TOTAL COSTS RETURN ABOVE TOTAL CASH	COSTS			7	\$15,129 \$33,616 \$16,340	\$210.12 \$466.89 \$226.94
RETURN ABOVE TOTAL COST	S				(\$2,147)	(\$29.82)
BREAKEVEN CALCULATIONS	]	VARIABLE COSTS	TOTAL COSTS			
REQUIRED AVERAGE CA	ALF PRICES CASH COST (cwt) F PRICES TOTAL COSTS(cwt)	\$37.67 \$37.67	\$53.88 \$119.71			

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

Prices represent 1999 price projections from Cattle Fax, Doane's reports for New Mexico feeder cattle cash prices.
 Market prices include commissions, brand inspections, beef council, yardage, feed, and insurance.
 Annual capital recovery is the method of calculating depreciation and interest recommended by the National Task Force on Commodity Costs and Returns Measurement Methods.
 The 35% reduction in asset values which represent a mix of new and used machinery.
 Interest on average investment.

# SOUTHWEST REGION MEDIUM RANCH INVESTMENTS 1999

			10 Yr Avg	Purchase	Salvage/Cull	Useful	Livestock	Annual Capital
Number	Land Values	Price Per Unit	Rate of Return	Price	Value	Life	Share	Recovery
3500	Acres of private land	\$65	3.9%	\$227,500	\$227,500			
180	AU Values <sup>1</sup>	\$2,100	3.9%	\$378,000	\$378,000			
			Subtotal	\$605,500				
Number	Buildings, Improvements	Price Per Unit				-		
10	Miles of pipeline	\$2,000	3.9%	\$20,000	\$2,000	25	100	\$1,218
2	Wells	\$92,000	3.9%	\$184,000	\$18,400	25	100	\$11,206
45	Miles of Fence	\$2,700	3.9%	\$121,500	\$12,150	25	100	\$7,400
1	Corrals/Working Facilities	\$4,700	3.9%	\$4,700	\$470	30	100	\$260
1	Barns & Shop	\$82,000	3.9%	\$82,000	\$8,200	30	100	\$4,536
			Subtotal	\$412,200	1.1			\$24,620
Number	Machinery & Vehicles	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			
1	3/4 ton pickup 4WD	\$17,000	7.0%	\$17,000	\$3,400	7	50	\$1,381
1	1 ton pickup 4WD	\$18,000	7.0%	\$18,000	\$3,600	7	50	\$1,462
0	Dozer/Tractor	\$5,000	7.0%	\$0	\$0	7	100	\$0
2	Gooseneck trailer	\$3,200	7.0%	\$6,400	\$1,280	7	100	\$1,040
1	Horse tack	\$2,700	7.0%	\$2,700	\$540	10	100	\$345
1	Misc. equipment	\$1,600	7.0%	\$1,600	\$320	10	100	\$205
			Subtotal	\$45,700				\$4,432
Head	Purchased Livestock	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull	1		
8	Horses	\$1,600	7.0%	\$12,800	\$4,864	10	100	\$1,470
12	Bulls	\$2,000	7.0%	\$24,000	\$9,120	4	100	\$5,031
30	Cows	\$1,100.00	7.0%	\$33,000	\$12,540	8	100	\$4,304
63	Total AUYs							
			Subtotal	\$36,800				\$6,502
Head	Retained Livestock	Price Per Unit	Interest Rate	Price	Salvage/Cull	L		Interest on Investment
180	Cows	\$1,100	7.0%	\$198,000	\$75,240			\$10,930
27	Replacement Heifers	\$1,000	7.0%	\$27,000	\$10,260			\$1,490
200	Total AUYs		C., 44-4-1	600E 000	COE 500			¢10,400
			Subtotal	\$225,000	\$85,500			\$12,420
			Total	\$1,325,200				\$41,472

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.

#### SOUTHWEST REGION MEDIUM COW/CALF BUDGET 1999

	BREED HERD SIZE CULL RATE	180 15%	COW to BULL	15	CALF CROP PERCENI <sup>1</sup> REPLACEMENT HEIFERS KEPT	82% 27
	1	ALUE OF PRO	DUCTION			
STEER CALVES HEIFER CALVES CULL COWS CULL BULLS	TOTAL	QUANTITY 74 47 37 <u>1</u> 159	WEIGHT/LBS. 500 475 900 1200	PRICE <sup>2</sup> \$0.84 \$0.77 \$0.37 \$0.39	VALUE \$30,996 \$17,117 \$12,321 <u>\$468</u>	\$172.20 \$95.10 \$68.45 \$2.60
VARIABLE COSTS	TOTAL				\$60,902	\$338.35
		-				VALUE PER COW
1. FEED COSTS	HAY STATE FEDERAL LEASE PRIVATE(Owned) PRIVATE(Leased Grazing) SALT & MINERAL PROTEIN SUPP OTHER	UNITS TON AUY AUY AUY AUY TON TON	QUANTITY/PERCENT 22.00 30.0% 60.0% 10.0% 2.00 4.00 0.00	PRICE \$130 \$25.08 \$16.20 \$0.00 \$0.00 \$125 \$325 \$325 \$0	COST \$2,860 \$0 \$2,916 \$0 \$0 \$250 \$1,300 <u>\$0</u>	\$15.89 \$0.00 \$16.20 \$0.00 \$1.39 \$7.22 \$0.00
	TOTAL				\$7,326	\$40.70
2. OTHER VARIABLE C	COSTS VET AND MEDICINE LIVESTOCK HAULING HIRED LABOR OPERATING COSTS-EQUIP & MACH OPERATING COSTS-VEHICLE RANCH MAINTENANCE BEEF CHECKOFF PURCHASED LIVESTOCK				COST \$1,620 \$397 \$0 \$500 \$2,000 \$1,870 \$121 \$1,000	\$9.00 \$2.20 \$0.00 \$11.11 \$10.39 \$0.67 <u>\$5.56</u>
	TOTAL				\$7,507	\$41.71
3. INTEREST ON VARI	ABLE COSTS SUM OF VARIABLE COSTS X MONT X INTEREST RATE PER MONTH ANNUAL INTEREST RATE NUMBER OF MONTHS BORROWED	HS BORROWE	D		7.0% 6 \$519 \$15.352	VALUE PER COW \$2.88 \$85.29
	TOTAL				\$45,550	\$253.05
OWNERSHIP COSTS						
CASH COSTS Taxes & Insuran Overhead Total	Annual Capital Recovery3 (At Replace	cement Value):			Represents 65% Asset Ownership <sup>5</sup> \$4,432 \$2,100 \$6,532	\$24.62 \$11.67
NON CASH COSTS Purchased Lives Machinery & Equ Housing & Impro- Interest on Retai Management & C Total	stock Jipment ovements ined Livestock <sup>6</sup> Dperation Labor (6% of gross returns)				\$6,502 \$4,432 \$24,620 \$12,420 \$3,654 \$51,628	\$36.12 \$24.62 \$136.78 \$69.00 \$20.30 \$286.82
TOTAL FIXED COSTS					\$58,161	\$323,11
TOTAL CASH AND VAP	RIABLE COSTS				\$21,885	\$121.58
RETURN ABOVE TOTA	L CASH COSTS				\$/3,513	\$408.41
RETURN ABOVE TOTA	L COSTS				039,017 (C12 C14)	0210.70
BREAKEVEN CALCUL	ATIONS				(#12,011)	(\$70.06)
	GE CALF PRICES CASH COST (cwt)	VARIABLE COSTS S21.34	TOTAL COSTS \$30.41 \$102.17			

Call crop is defined as the actual number of calves sold divided by the total number of cows (assuming all cows were exposed).
 Prices represent 1999 price projections from Cattle Fax, Doane's reports for New Mexico feeder cattle cash prices.
 Market prices include commissions, brand inspections, beef council, yardage, feed, and insurance.
 Annual capital recovery is the method of calculating depreciation and interest recommended by the National Task Force on Commodity Costs and Returns Measurement Methods.
 The 35% reduction in asset values which represent a mix of new and used machinery.

6) Interest on average investment.

#### SOUTHWEST REGION LARGE RANCH INVESTMENTS 1999

			10 Yr Avg	Purchase	Salvage/Cull	Useful	Livestock	Annual Capital
Number	Land Values	Price Per Unit	Rate of Return	Price	Value	Life	Share	Recovery
6000	Acres of private land	\$60	3.9%	\$360,000	\$360,000			
360	AU Values'	\$2,100	3.9%	\$756,000	\$756,000			
			Subtotal	\$1,116,000				
Number	<b>Buildings</b> , Improvements	Price Per Unit		Service Services	1			
18	Miles of pipeline	\$2,000	3.9%	\$36,000	\$3,600	25	100	\$2,193
12	Wells	\$9,200	3.9%	\$110,400	\$11,040	25	100	\$6,724
100	Miles of Fence	\$2,700	3.9%	\$270,000	\$27,000	25	100	\$16,444
1	Corrals/Working Facilities	\$4,700	3.9%	\$4,700	\$470	30	100	\$260
1	Barns & Shop	\$8,200	3.9%	\$8,200	\$820	30	100	\$454
			Subtotal	\$429,300				\$26.074
Number	Machinery & Vehicles	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			
2	3/4 ton pickup 4WD	\$17,000	7.0%	\$34,000	\$6,800	7	50	\$2,762
1	1 ton pickup 4WD	\$18,000	7.0%	\$18,000	\$3,600	7	50	\$1,462
1	Tractor	\$5,000	7.0%	\$5,000	\$1,000	7	100	\$812
3	Gooseneck trailer	\$3,200	7.0%	\$9,600	\$1,920	7	100	\$1,559
1	Horse tack	\$2,600	7.0%	\$2,600	\$520	10	100	\$333
1	Misc. equipment	\$1,600	7.0%	\$1,600	\$320	10	100	\$205
			Subtotal	\$70,800				\$7,132
Head	Purchased Livestock	Price Per Unit	Interest Rate <sup>3</sup>	Price	Salvage/Cull			
10	Horses	\$1,600	7.0%	\$16,000	\$6,080	10	100	\$1,838
24	Bulls	\$2,000	7.0%	\$48,000	\$18,240	4	100	\$10.063
34	Cows	\$1,100.00	7.0%	\$37,400	\$14,212	8	100	\$4.878
85	Total AUYs							* .,
			Subtotal	\$64,000				\$11,901
Head	Retained Livestock	Price Per Unit	Interest Rate	Price	Salvage/Cull	1.00	1.	Interest on Investment
360	Cows	\$1,100	7.0%	\$396,000	\$150,480	1.1.1	2. 1. 1. 1.	\$21.859
54	Replacement Heifers	\$1,000	7.0%	\$54,000	\$20,520			\$2,981
401	Total AUYs							+-,
			Subtotal	\$450,000	\$171,000			\$24,840
			Total	\$2,130,100				\$58,046

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.

# **NOTES**

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