NORTHEAST REGION MEDIUM COW/CALF BUDGET 2016

	BREED HERD SIZE CULL RATE	180 15%	COW to BULL	20	CALF CROP PERCENT ¹ REPLACEMENT HEIFER'S KEPT	
	V	ALUE OF PRO	DUCTION			VALUE PER COW
		QUANTITY	WEIGHT	PRICE ²	VALUE	VALUE I EN CON
STEER CALVES		75	550	\$2.15	\$88,333	\$490.74
HEIFER CALVES		48	515	\$2.08	\$51,096	\$283.87
CULL COWS		27	900	\$0.81	\$19,683	\$109.35
CULL BULLS		1	1200	\$0.92	\$1,104	\$6.13
FEE HUNTING		<u>1</u>			<u>\$6,000</u>	\$33.33
	TOTAL	150			\$166,216	\$923.42
VARIABLE COSTS						
1. FEED COSTS		<u>UNITS</u>	QUANTITY/PERCENT	PRICE	COST	VALUE PER COW
	HAY	TON	12.00	\$155	\$1,860	\$10.33
	BLM	AUY	0.0%	\$1.74	\$0	\$0.00
	STATE	AUY	17.0%	\$34.20	\$1,047	\$5.81
	FEDERAL LEASE	AUY	30.0%	\$20.88	\$3,758	\$20.88
	PRIVATE(Owned)	AUY	53.0%	\$0.00	\$0	\$0.00
	PRIVATE(Leased Grazing)	AUY	0.0%	\$0.00	\$0	\$0.00
	SALT & MINERAL	TON	7	\$710	\$4,665	\$25.92
	PROTEIN SUPP OTHER	TON	34	\$315	\$10,631	\$59.06
	TOTAL				\$21,961	\$122.00
2. OTHER VARIABLE COSTS					<u>COST</u>	
	VET AND MEDICINE				\$2,995	\$16.64
	LIVESTOCK HAULING				\$834	\$4.63
	HIRED LABOR				\$5,500	\$30.56
	OPERATING COSTS-EQUIP & N	MACH			\$3,000	\$16.67
	OPERATING COSTS-VEHICLE				\$4,500	\$25.00
	RANCH MAINTENANCE				\$4,000	\$22.22
	BEEF CHECKOFF				\$122	\$0.68
	PURCHASED LIVESTOCK				<u>\$8,000</u>	<u>\$44.44</u>
	TOTAL				\$28,951	\$160.84
3. INTEREST ON VARIABLE CO	OSTS SUM OF VARIABLE COSTS X N X INTEREST RATE PER MONTI ANNUAL INTEREST RATE NUMBER OF MONTHS BORRO	Н	ROWED		7.00% 6	VALUE PER COW HIGH
					\$1,782	\$9.90
					\$52,694	\$292.74
	TOTAL				\$113,522	\$630.68
OWNERSHIP COSTS	Annual Capital Recovery ⁴ (At R	lanlacement V	alva):		Represents 65% Asset Ownership	VALUE DED COM
CASH COSTS	Allitual Capital Recovery (At R	epiacement v	aive).		TOTAL	VALUE PER COW
Taxes & Insurance					\$5,093	\$28.29
Overhead					\$2,000	\$11.11
Total					\$7,093	\$39.41
NON CASH COSTS Purchased Livestock					\$7,356	\$40.87
Machinery & Equipment					\$5,093	\$28.29
Housing & Improvements					\$19,443	\$108.02
Interest on Retained Livest	tock				\$16,153	\$89.74
	Labor (6% of gross returns)				\$9,973	\$55.41
Total	, 5				\$58,018	\$322.32
TOTAL FIXED COSTS					\$65,111	\$361.73
TOTAL CASH AND VARIABLE	^^eTe				\$59,787	\$332.15
	00010					
TOTAL COSTS	00070				\$117,805	\$654.47
RETURN ABOVE TOTAL COST					\$106,429	\$591.27
BREAKEVEN CALCULATIONS	o				\$48,411	\$268.95
DICENCE ON CALCULATIONS	Г	VARIABLE	TOTAL			
	L	COSTS	COSTS			
	CALF PRICES CASH COST (cwt)	\$66.24	\$75.15			
REQUIRED AVG. CA	LF PRICES TOTAL COSTS(cwt)	\$66.24	\$148.08			

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 2016 price projections from Cattle Fax, Doanes reports for New Mexico feeder cattle cash prices.

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

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

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

⁶⁾ Interest on average investment.

NORTHEAST REGION MEDIUM RANCH INVESTMENTS

			10 Yr Avg	Purchase	Salvage/Cull	Useful	Livestock	Annual Capital
Number	Land Values	Price Per Unit	Rate of Return	Price	Value	Life	Share	Recovery
7,000	Acres of private land	\$85	3.9%	\$595,000	\$595,000			
200	AU Values ¹	\$2,500	3.9%	\$500,000	\$500,000			
			Sub Totals	\$1,095,000				
Number	Buildings, Improvements	Price Per Unit						
10	Miles of pipeline	\$2,000	3.9%	\$20,000	\$2,000	25	100	\$1,218
6	Wells	\$12,000	3.9%	\$72,000	\$7,200	25	100	\$4,385
50	Miles of Fence	\$4,000	3.9%	\$200,000	\$20,000	25	100	\$12,181
1	Corrals/Working Facilities	\$12,000	3.9%	\$12,000	\$1,200	30	100	\$664
1	Barns & Shop	\$18,000	3.9%	\$18,000	\$1,800	30	100	\$996
			Sub Totals	\$322,000				\$19,443
Number	Machinery & Vehicles	Price Per Unit	Interest Rate ³	Price	Salvage/Cull			
1	3/4 ton pickup 4WD	\$42,000	4.0%	\$42,000	\$8,400	7	50	\$2,967
0	1 ton pickup 4WD	\$45,000	4.0%	\$0	\$0	7	50	\$0
0	Tractor	\$7,000	4.0%	\$0	\$0	7	100	\$0
1	Gooseneck trailer	\$7,500	4.0%	\$7,500	\$1,500	7	100	\$1,060
1	Horse tack	\$3,500	4.0%	\$3,500	\$700	10	100	\$373
1	Misc. equipment	\$6,500	4.0%	\$6,500	\$1,300	10	100	\$693
			Sub Total	\$59,500				\$5,093
Head	Purchased Livestock	Price Per Unit	Interest Rate ³	Price	Salvage/Cull			
6	Horses	\$1,200	4.0%	\$7,200	\$2,736	10	100	\$660
9	Bulls	\$4,000	4.0%	\$36,000	\$13,680	4	100	\$6,696
40	Cows	\$2,500	4.0%	\$100,000	\$38,000	8	100	\$10,729
69	Total AUYs							
			Sub Total	\$43,200				\$7,356
Head	Retained Livestock	Price Per Unit	Interest Rate	Price	Salvage/Cull			Interest on Investment
180	Cows	\$2,500	4.0%	\$450,000	\$171,000	_		\$14,194
27	Replacement Heifers	\$2,300	4.0%	\$62,100	\$23,598			\$1,959
200	Total AUYs		Sub Total	\$512,100	\$194,598			\$16,153
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Total <u>\$2,031,800</u>							\$40,689	

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.