

TABLE 1. Basic cost information for Cotton City Hidalgo County, 2003.

Item			
Labor Wage Rate:		\$/hour	\$5.15
Purchased Inputs:			
Fertilizer:			
Anhydrous Ammonia (NH3)		\$/ton	\$310.00
Nitrogen (N)		\$/pound	\$0.36
Phosphate (P205)		\$/pound	\$0.33
Chile sacks		\$/sack	\$0.35
Baling wire		\$/pound	\$0.39
Canal water		\$/acre	\$28.00
Energy:			
Butane		\$/MCF	\$1.21
Diesel fuel		\$/gallon	\$1.30
Gasoline		\$/gallon	\$1.35
Electricity (Socorro Elec Coop)		cents/KwHr	6.90
Natural Gas		\$/MCF	\$3.28
Employee Liability Insurance		\$/1,000 wages	\$20.00
Employee Benefits		percent/w ages	18.00%
Labor Downtime		percent	25.00%
Financial Rates:			
Operating Capital Interest Rate		percent	8.00%
Land Interest Rate		percent	7.00%
Equipment Interest Rate		percent	8.00%
Real Interest Rate		percent	4.00%
Land Taxes	\$180	/acre (full value)	\$1.90
Personal Property Tax Rate - NR		\$/1,000 (Assessed Value)	\$31.61
- R			\$29.58
Supervision Factors			
Field Crop-Irrigation		\$/labor hour	\$1.00
Field Crop-Equipment & General		\$/labor hour	\$0.50
Vegetable Crop-Irrigation		\$/labor hour	\$2.90
Vegetable Crop-Equip & General		\$/labor hour	\$1.00
Management Rate			
Field Crops		percent/GR	7.00%
Vegetable Crops		percent/TOE	10.00%

TABLE 1a. Overhead cost information for Socorro County, 2002.

ITEM				CROP ENTERPRISE	LIVESTOCK ENTERPRISE	TOTAL	
Electricity (Domestic & Shop)				\$1,800	\$180.00	\$1,980.00	
Telephone				\$960	\$96.00	\$1,056.00	
Accounting & Legal				\$775		\$775.00	
Misc. Supplies & Hand Tools				\$1,650		\$1,650.00	
Pickup and Auto	Crop Ent.	Livestock Ent.					
miles	15000	7725	@	\$0.365 per mile	\$5,475	\$2,819.63	
Insurance							
- general liability (non-employee)				\$1,395	\$0.00	\$1,395.00	
- fire/theft				\$1,060	\$0.00	\$1,060.00	
Property Taxes							
- non-planted land				\$47	\$0.00	\$47.42	
- other than land & machinery				\$465		\$465.00	
Building repairs and maintenance				\$960	\$96.00	\$1,056.00	
Dues, fees, publications				\$420	\$21.00	\$441.00	
Farmstead Equipment				\$165	\$16.50	\$181.50	
				Total	\$15,172	\$3,229	\$18,402
				Total Per Planted Acre	\$40.46		

Table 2. Pumping Costs and Data For Irrigation Wells, Socorro County, 2003.

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INPUT DATA

DELIVERY PSI:		DEPTH CHARACTERISTICS:	
SPRINKLER...	0	STATIC... ..	15
		DRAW DOWN .....	55
		TOTAL HEAD.....	70
		CASING... ..	125
GALLONS PER MINUTE (GPM)...	1500		
WORK HORSEPOWER .....	27		
EFFICIENCY FACTOR:			
ELECTRICITY. ....	0.447		
NATURAL GAS. ....	0.125		
BUTANE..... ..	0.186		
DIESEL..... ..	0.199		
FUEL COST PER UNIT:			
ELECTRICITY. ....	\$6.90	CENTS/K	WH
NATURAL GAS. ....	\$3.50	\$/MCF	
BUTANE..... ..	\$1.21	\$/GAL	
DIESEL..... ..	\$1.30	\$/GAL	

FUEL PUMPING COSTS:

ELECTRICAL WELL:	
COST PER HOUR.....	\$3.08
COST PER ACRE INCH .....	\$0.93
NATURAL GAS WELL:	
COST PER HOUR.....	\$2.10
COST PER ACRE INCH .....	\$0.63
BUTANE WELL:	
COST PER HOUR.....	\$4.81
COST PER ACRE INCH .....	\$1.45
DIESEL WELL:	
COST PER HOUR.....	\$3.14
COST PER ACRE INCH .....	\$0.95

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TABLE 2a. Equipment summary for a 200 acre farm with above average management, Socorro County, 2003.

EQUIPMENT		VARIABLE COSTS						FIXED COSTS		
ITEM & SIZE	ANNUAL HOURS OF USE	NUMBER	TOTAL FUEL AND VALUE	UBRICANT	REPAIR	FUEL, LUBE PER HR	REPAIR PER HR	DEPRECIATION	TAXES	TOTAL PER HOUR
TRACTOR 65 HP	1136	3	\$7,200	\$7,454	\$1,274	\$6.56	\$1.12	\$413	\$87	\$0.44
TRACTOR 130 HP	634	2	\$24,650	\$6,240	\$4,476	\$9.85	\$7.06	\$5,813	\$459	\$9.90
BALEWAGON PTO	200	1	\$1,650		\$1,296		\$6.48	\$800	\$84	\$4.42
BALER, PTO 2-WIRE	210	2	\$3,000		\$275		\$1.31	\$770	\$81	\$4.05
CULTIVATOR 4-ROW	124	2	\$3,000		\$115		\$0.93	\$400	\$32	\$3.48
LAND PLANE 14 FT.	33	1	\$2,750		\$18		\$0.55	\$367	\$29	\$11.90
DISC 12 FT	115	2	\$4,500		\$165		\$1.44	\$600	\$47	\$5.64
PLANTER 4-ROW	20	1	\$3,400		\$68		\$3.47	\$680	\$36	\$36.71
LISTER 4-ROW	14	1	\$1,600		\$19		\$1.38	\$213	\$17	\$17.05
HARROW 12 FT.	14	1	\$300		\$0		\$0.02	\$40	\$3	\$3.03
PLOW 3-BOTTOM (FLIP)	151	2	\$6,700		\$308		\$2.04	\$893	\$71	\$6.39
DRILL 10 FT.	38	1	\$1,800		\$108		\$2.88	\$360	\$19	\$10.11
SPRAYER 12 FT	20	1	\$1,375		\$34		\$1.73	\$183	\$14	\$10.14
SWATHER 14 FT.	160	2	\$12,000	\$809	\$673	\$5.05	\$4.21	\$2,900	\$306	\$20.03
BORDER DISC 6-DISC	8	1	\$750		\$6		\$0.75	\$100	\$8	\$14.39
			\$74,675	\$14,502	\$8,835			\$14,533	\$1,293	

Table 2b. Value of Resources for Livestock Enterprise

	UNIT	QUANTITY	\$/UNIT	TOTAL	USEFUL LIFE	DEPRECIATION
<b>Cattle:</b>						
Cows	NO	95	\$650	\$61,750		
Replacement Heifers	NO	9	\$650	\$5,850		
Heifer Calves	NO	0	\$437	\$0		
Steer Calves	NO	0	\$526	\$0		
Bulls	NO	4	\$1,000	\$3,800		
Horses	NO	1	\$1,000	\$1,000		
Subtotal				\$72,400		
<b>Other Range Facilities:</b>						
Fencing						
- Permanent	MI	1.0	\$1,500	\$1,500	25	\$60
- temporary	MI	0.5	\$250	\$125	10	\$13
Pipelines	MI	0.0	\$300	\$0	20	\$0
Tanks and Reservoirs	NO	0.0	\$500	\$0	40	\$0
Corrals	NO	1.0	\$5,000	\$5,000	25	\$200
Livestock Trailer	NO	1.0	\$2,500	\$2,500	10	\$250
Subtotal				\$9,125		
Total				\$81,525		\$523

Table 3a. Livestock Production Parameters

NUMBER OF COWS	95
COWS PER BULL	25
NUMBER OF HORSES	1
REPLACEMENT RATE (%)	9.00%
CALF DEATH LOSS (%)	3.00%
YEARLING DEATH LOSS (%)	0.00%
COW DEATH LOSS (%)	2.00%
BULL DEATH LOSS (%)	0.00%
CALF CROP (%)	92.00%
PRODUCTIVE LIFE OF BULLS (YEARS)	4
PERCENT SOLD AS YEARLINGS:	
HEIFERS	0.00%
STEERS	0.00%

Table 3b. Forage Sources for Livestock

	ACRES	AUMS/ ACRE	AUMS PROVIDED
ALFALFA	200.00	1.00	200.00
PERMANENT PASTURE	0.00	15.00	0.00
SUDAN AFTER OAT HAY	0.00	1.00	0.00
SUDAN HAY	0.00	1.00	0.00
WHEAT	0.00	1.00	0.00
BARLEY	100.00	1.00	100.00
CORN	20.00	1.00	20.00
BALED HAY (TONS)		401.49	1003.74
<b>TOTAL</b>	<b>320.00</b>		<b>1323.74</b>

Table 3c. STOCK COUNT CHART E BORN IN: MARCH

SEASON	BULLS	REPLACEMENT		YEARLING	YEARLING	STEERS	HEIFER	HORSES	TOTAL
	1.4	COWS	HEIFERS	STEERS	HEIFERS	CALVES	CALVES		AUMs
		1.0	0.7	0.7	0.7	0.5	0.5	1.25 REQUIRED	
JANUARY	4	95				0	9	1	106
FEBUARY	4	95				0	9	1	106
MARCH	4	95	9					1	108
APRIL	4	95	9					1	108
MAY	4	95	9					1	108
JUNE	4	95	9					1	108
JULY	4	95	9					1	108
AUGUST	4	95	9					1	108
SEPTEMBER	4	95	9					1	108
OCTOBER	4	95				45	45	1	147
NOVEMBER	4	95				0	9	1	106
DECEMBER	4	95				0	9	1	106

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Table 3d. FORAGE BALANCE CHART

	TOTAL AUMs REQUIRED	ALFALFA	PASTURE	SUDAN AOH	SUDAN HAY	WHEAT	BARLEY	CORN	TOTAL AUMs SUPPLIED	HAY
JANUARY	106	50	0	0	0	0	0	10	60	46
FEBRUARY	106	50	0	0	0	0	0	10	60	46
MARCH	108	0	0	0	0	0	0	0	0	108
APRIL	108	0	0	0	0	0	0	0	0	108
MAY	108	0	0	0	0	0	0	0	0	108
JUNE	108	0	0	0	0	0	0	0	0	108
JULY	108	0	0	0	0	0	0	0	0	108
AUGUST	108	0	0	0	0	0	0	0	0	108
SEPTEMBER	108	0	0	0	0	0	0	0	0	108
OCTOBER	147	0	0	0	0	0	0	0	0	147
NOVEMBER	106	50	0	0	0	0	50	0	100	6
DECEMBER	106	50	0	0	0	0	50	0	100	6
Total AUMs	1324	200	0	0	0	0	100	20	320	1004



TABLE 4. Alfalfa establishment, flood-irrigated, budgeted per acre costs and returns for a 200 acre farm with above average management, Cotton City Hidalgo County, 2003.  
Planting dates: August 15 - September 15

ITEM	PRICE	QUANTITY	PURCHASED INPUTS	TOTAL				
<u>PURCHASED INPUTS</u>								
SEED	\$2.95	20 LBS	\$59.00	\$59.00				
NITROGEN (N)	\$0.36	40 LBS	\$14.40	\$14.40				
PHOSPHATE (P2O5)	\$0.33	90 LBS	\$29.70	\$29.70				
CANAL WATER		12 AC. IN.						
SUBTOTAL			\$103.10	\$103.10				
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	200 HP	0.17 HR		\$0.88	\$1.67	\$1.45	\$2.64	\$6.64
PLOW	201 HP	0.67 HR		\$3.45	\$6.60	\$6.10	\$10.92	\$27.06
DISC (2X)	202 HP	0.34 HR		\$1.75	\$3.35	\$2.89	\$5.28	\$13.27
LASER PLANE (CUSTOM)			\$73.33					\$73.33
BORDER DISC	130 HP	0.05 HR		\$0.26	\$0.33	\$0.09	\$0.74	\$1.42
DRILL	130 HP	0.25 HR		\$1.29	\$1.64	\$1.00	\$2.64	\$6.57
IRRIGATE (3X)		1.50 HR		\$7.73				\$7.73
SUBTOTAL		2.98 HR	\$73.33	\$15.35	\$13.59	\$11.53	\$22.22	\$136.01
<u>OVERHEAD EXPENSES</u>								
DOWNTIME		1.18 HR		\$6.09				\$6.09
EMPLOYEE BENEFITS				\$2.76				\$2.76
INSURANCE			\$0.31					\$0.31
SUPERVISION AND MANAGEMENT				\$18.98				\$18.98
SUBTOTAL		1.18 HR	\$0.31	\$27.83				\$28.14
TOTAL OPERATING EXPENSES		4.16 HR	\$176.74	\$43.18	\$13.59	\$11.53	\$22.22	\$267.25

TABLE 5. Alfalfa hay, flood-irrigated, budgeted per acre costs and returns for a 200 acre farm with above average management, Cotton City, Hidalgo County, 2003.  
Harvest dates: May 15 - October 15

ITEM	PRICE	YIELD						TOTAL
<b>GROSS RETURNS</b>								
ALFALFA HAY	\$140.00	5.00 TONS (STACKED)						\$700.00
GRAZING	\$10.00	1.00 AUM						\$10.00
<b>TOTAL</b>							<b>\$710.00</b>	
PURCHASED INPUTS		PRICE	QUANTITY	PURCHASED INPUTS			FIXED COST	TOTAL
NITROGEN (N)	\$0.36	40 LBS		\$29.70				\$29.70
PHOSPHATE (P2O5)	\$0.33	90 LBS		\$30.54				\$30.54
INSECTICIDE (CUSTOM)	\$30.54	1 ACRE		\$30.54				\$30.54
WIRE	\$0.39	43 LBS		\$16.71				\$16.71
ESTABLISHMENT: Principal		5 YEARS				\$53.45	\$53.45	
: Interest						\$12.36	\$12.36	
CANAL WATER		60 AC. IN.				\$28.00	\$28.00	
<b>SUBTOTAL</b>				<b>\$107.49</b>				<b>\$93.81</b>
<b>\$201.31</b>								
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
IRRIGATE (10X)		5.00 HR		\$25.75				\$25.75
<b>SUBTOTAL</b>		<b>5.00 HR</b>		<b>\$25.75</b>				<b>\$25.75</b>
<b>HARVEST OPERATIONS</b>								
SWATHER (5X)	16 FT.	0.80 HR		\$4.12	\$4.04	\$3.36	\$16.03	\$27.56
BALER (5X)	130 HP	1.05 HR		\$5.41	\$6.89	\$2.55	\$4.72	\$19.57
BALEWAGON (5X)	130 HP	1.00 HR		\$5.15	\$9.85	\$13.54	\$14.32	\$42.86
<b>SUBTOTAL</b>		<b>2.85 HR</b>		<b>\$14.68</b>	<b>\$20.78</b>	<b>\$19.46</b>	<b>\$35.06</b>	<b>\$89.98</b>
<b>OVERHEAD EXPENSES</b>								
DOWNTIME		0.71 HR		\$3.67				\$3.67
EMPLOYEE BENEFITS				\$7.28				\$7.28
INSURANCE			\$0.81					\$0.81
LAND TAXES							\$1.90	\$1.90
SUPERVISION AND MANAGEMENT				\$56.13				\$56.13
OTHER EXPENSES			\$40.46					\$40.46
<b>SUBTOTAL</b>		<b>0.71 HR</b>		<b>\$41.27</b>	<b>\$67.07</b>			<b>\$1.90</b>
<b>TOTAL OPERATING EXPENSES</b>		<b>8.56 HR</b>		<b>\$148.76</b>	<b>\$107.50</b>	<b>\$20.78</b>	<b>\$19.46</b>	<b>\$130.78</b>
<b>NET OPERATING PROFIT</b>							<b>\$282.72</b>	
INTEREST ON OPERATING CAPITAL	(	\$57.10	@	8.00%			\$4.57	
INTEREST ON EQUIPMENT INVESTMENT							\$13.50	
<b>RETURN TO LAND AND RISK</b>							<b>\$264.66</b>	

**BUDGET SUMMARY**

GROSS RETURN		\$710.00	
VARIABLE OPERATING EXPENSES	\$189.00		
RETURN OVER VARIABLE EXPENSES		\$521.00	(GROSS MARGIN)
FIXED EXPENSES	\$130.78		
NET FARM INCOME		\$390.22	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$107.50		
NET OPERATING PROFIT		\$282.72	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$18.06		
RETURN TO LAND AND RISK		\$264.66	

TABLE 6. Permanent pasture establishment, flood-irrigated, budgeted per acre costs and returns for a 200 acre farm with above average management, Socorro County, 2003.  
Planting dates: August 15 - September 15

ITEM	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL	
<u>PURCHASED INPUTS</u>									
FESCUE SEED	\$2.85	15 LBS		\$42.75					\$42.75
ANHYDROUS AMMONIA (NH3)	\$0.1550	50 LBS		\$7.75					\$7.75
CANAL WATER		12 AC. IN.							
SUBTOTAL				\$50.50					\$50.50
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
DISC	130 HP	0.17 HR		\$0.88	\$1.67	\$1.45	\$2.64	\$6.64	
PLOW	130 HP	0.67 HR		\$3.45	\$6.60	\$6.10	\$10.92	\$27.06	
DISC (2X)	130 HP	0.34 HR		\$1.75	\$3.35	\$2.89	\$5.28	\$13.27	
LAND PLANE	130 HP	0.19 HR		\$0.98	\$1.87	\$1.45	\$4.14	\$8.44	
BORDER DISC	65 HP	0.05 HR		\$0.26	\$0.33	\$0.09	\$0.74	\$1.42	
DRILL	65 HP	0.25 HR		\$1.29	\$1.64	\$1.00	\$2.64	\$6.57	
IRRIGATE (3X)		1.50 HR		\$7.73				\$7.73	
SUBTOTAL		3.17 HR		\$16.33	\$15.46	\$12.98	\$26.36	\$71.12	
<u>OVERHEAD EXPENSES</u>									
DOWNTIME		0.42 HR		\$2.15					\$2.15
EMPLOYEE BENEFITS				\$4.08					\$4.08
INSURANCE			\$0.33						\$0.33
SUPERVISION AND MANAGEMENT				\$10.85					\$10.85
SUBTOTAL		0.42 HR	\$0.33	\$17.08					\$17.41
TOTAL OPERATING EXPENSES		3.59 HR	\$50.83	\$33.41	\$15.46	\$12.98	\$26.36	\$139.03	

TABLE 7. Permanent pasture, flood-irrigated, budgeted per acre costs and returns for a 200 acre farm with above average management, Socorro County, 2003.  
Harvest dates: Year Round

ITEM	PRICE	YIELD					TOTAL	
<b>GROSS RETURNS</b>								
PASTURE	\$12.00	15.00	AUMS				\$180.00	
<b>TOTAL</b>							\$180.00	
<b>PURCHASED INPUTS</b>								
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
ANHYDROUS AMMONIA (NH3)	\$0.1550	200	LBS	\$31.00				\$31.00
ESTABLISHMENT: Principal		7	YEARS			\$19.86	\$19.86	
: Interest						\$5.54	\$5.54	
CANAL WATER		60	AC. IN.			\$28.00	\$28.00	
<b>SUBTOTAL</b>				\$31.00		\$53.41	\$84.41	
<b>PREHARVEST OPERATIONS</b>								
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
IRRIGATE (10X)		5.00	HR	\$25.75				\$25.75
<b>SUBTOTAL</b>				\$25.75				\$25.75
<b>OVERHEAD EXPENSES</b>								
DOWNTIME				\$0.00				\$0.00
EMPLOYEE BENEFITS				\$4.64				\$4.64
INSURANCE				\$0.52				\$0.52
LAND TAXES						\$1.90	\$1.90	
SUPERVISION AND MANAGEMENT				\$15.10				\$15.10
OTHER EXPENSES				\$40.46				\$40.46
<b>SUBTOTAL</b>				\$40.97	\$19.74		\$1.90	\$62.61
<b>TOTAL OPERATING EXPENSES</b>		5.00	HR	\$71.97	\$45.49		\$55.30	\$172.76
<b>NET OPERATING PROFIT</b>								\$7.24
INTEREST ON OPERATING CAPITAL	(	\$84.41	@	8.00%				\$3.89
INTEREST ON EQUIPMENT INVESTMENT								\$0.00
<b>RETURN TO LAND AND RISK</b>								\$3.35

BUDGET SUMMARY

GROSS RETURN		\$180.00	
VARIABLE OPERATING EXPENSES	\$71.97		
RETURN OVER VARIABLE EXPENSES		\$108.03	(GROSS MARGIN)
FIXED EXPENSES	\$55.30		
NET FARM INCOME		\$52.72	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$45.49		
NET OPERATING PROFIT		\$7.24	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$3.89		
RETURN TO LAND AND RISK		\$3.35	

TABLE 8. Sudan hay (following oat hay), flood-irrigated, budgeted per acre costs and returns for a 200 acre farm with above average management, Socorro County, 2003.

Planting dates: July 1 - July 31  
Harvest dates: September 1 - October 15

ITEM	PRICE	QUANTITY						TOTAL
<b>GROSS RETURNS</b>								
SUDAN HAY	\$110.00	2.50 TONS (STACKED)						\$275.00
GRAZING	\$10.00	1.00 AUM						\$10.00
<b>TOTAL</b>							<b>\$285.00</b>	
<b>PURCHASED INPUTS</b>								
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
SEED	\$0.53	60 LBS	\$31.80					\$31.80
ANHYDROUS AMMONIA (NH3)	\$0.1550	200 LBS	\$31.00					\$31.00
INSECTICIDE (CUSTOM)	\$21.03	1 ACRE	\$21.03					\$21.03
WIRE	\$0.39	21 LBS	\$8.36					\$8.36
CANAL WATER		24 AC. IN.					\$28.00	\$28.00
<b>SUBTOTAL</b>			<b>\$92.19</b>				<b>\$28.00</b>	<b>\$120.19</b>
<b>PREHARVEST OPERATIONS</b>								
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC (2X)	130 HP	0.34 HR		\$1.75	\$3.35	\$2.89	\$5.28	\$13.27
LAND PLANE	130 HP	0.19 HR		\$0.98	\$1.87	\$1.45	\$4.14	\$8.44
BORDER DISC	65 HP	0.05 HR		\$0.26	\$0.33	\$0.09	\$0.74	\$1.42
DRILL	65 HP	0.25 HR		\$1.29	\$1.64	\$1.00	\$2.64	\$6.57
IRRIGATE (4X)		2.00 HR		\$10.30				\$10.30
<b>SUBTOTAL</b>			<b>2.83 HR</b>	<b>\$14.57</b>	<b>\$7.19</b>	<b>\$5.43</b>	<b>\$12.80</b>	<b>\$40.00</b>
<b>HARVEST OPERATIONS</b>								
SWATHER	14 FT.	0.16 HR		\$0.82	\$0.81	\$0.67	\$3.21	\$5.51
BALER	65 HP	0.21 HR		\$1.08	\$1.38	\$0.51	\$0.94	\$3.91
BALEWAGON	130 HP	0.20 HR		\$1.03	\$1.97	\$2.71	\$2.86	\$8.57
<b>SUBTOTAL</b>			<b>0.57 HR</b>	<b>\$2.94</b>	<b>\$4.16</b>	<b>\$3.89</b>	<b>\$7.01</b>	<b>\$18.00</b>
<b>OVERHEAD EXPENSES</b>								
DOWNTIME		1.25 HR		\$6.42				\$6.42
EMPLOYEE BENEFITS				\$3.15				\$3.15
INSURANCE			\$0.35					\$0.35
LAND TAXES							\$0.95	\$0.95
SUPERVISION AND MANAGEMENT				\$13.91				\$13.91
OTHER EXPENSES			\$20.23					\$20.23
<b>SUBTOTAL</b>			<b>1.25 HR</b>	<b>\$20.58</b>	<b>\$23.48</b>		<b>\$0.95</b>	<b>\$45.01</b>
<b>TOTAL OPERATING EXPENSES</b>			<b>4.65 HR</b>	<b>\$112.77</b>	<b>\$40.99</b>	<b>\$11.34</b>	<b>\$9.32</b>	<b>\$223.19</b>
<b>NET OPERATING PROFIT</b>							<b>\$61.81</b>	
INTEREST ON OPERATING CAPITAL	(	\$49.92	@	8.00%	)			\$3.99
INTEREST ON EQUIPMENT INVESTMENT								\$7.37
<b>RETURN TO LAND AND RISK</b>							<b>\$50.45</b>	

**BUDGET SUMMARY**

GROSS RETURN		\$285.00	
VARIABLE OPERATING EXPENSES	\$133.43		
RETURN OVER VARIABLE EXPENSES		\$151.57	(GROSS MARGIN)
FIXED EXPENSES	\$48.76		
NET FARM INCOME		\$102.80	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$40.99		
NET OPERATING PROFIT		\$61.81	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$11.36		
RETURN TO LAND AND RISK		\$50.45	

TABLE 9. Sudan hay, flood-irrigated, budgeted per acre costs and returns for a 200 acre farm with above average management, Socorro County, 2003.

Planting dates: May 20 - June 15

Harvest dates: July 1 - October 15

ITEM	PRICE	YIELD						TOTAL	
<b>GROSS RETURNS</b>									
SUDAN HAY	\$110.00	5.00	TONS (STACKED)					\$550.00	
GRAZING	\$10.00	1.00	AUM					\$10.00	
<b>TOTAL</b>								\$560.00	
<b>PURCHASED INPUTS</b>									
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL	
SEED	\$0.53	70	LBS	\$37.10				\$37.10	
ANHYDROUS AMMONIA (NH3)	\$0.1550	200	LBS	\$31.00				\$31.00	
INSECTICIDE (CUSTOM)	\$21.03	1	ACRE	\$21.03				\$21.03	
WIRE	\$0.39	43	LBS	\$16.71				\$16.71	
CANAL WATER		48	AC. IN.			\$25.00	\$25.00		
<b>SUBTOTAL</b>				\$105.84				\$25.00	\$130.84
<b>PREHARVEST OPERATIONS</b>									
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
PLOW	130 HP	0.67 HR		\$3.45	\$6.60	\$6.10	\$10.92	\$27.06	
DISC (2X)	130 HP	0.34 HR		\$1.75	\$3.35	\$2.89	\$5.28	\$13.27	
LAND PLANE	130 HP	0.19 HR		\$0.98	\$1.87	\$1.45	\$4.14	\$8.44	
BORDER DISC	65 HP	0.05 HR		\$0.26	\$0.33	\$0.09	\$0.74	\$1.42	
DRILL	65 HP	0.25 HR		\$1.29	\$1.64	\$1.00	\$2.64	\$6.57	
IRRIGATE (8X)		4.00 HR		\$20.60				\$20.60	
<b>SUBTOTAL</b>		5.50 HR		\$28.33	\$13.78	\$11.53	\$23.72	\$77.36	
<b>HARVEST OPERATIONS</b>									
SWATHER (2X)	14 FT.	0.32 HR		\$1.65	\$1.62	\$1.35	\$6.41	\$11.02	
BALER (2X)	65 HP	0.42 HR		\$2.16	\$2.76	\$1.02	\$1.89	\$7.83	
BALEWAGON (2X)	130 HP	0.40 HR		\$2.06	\$3.94	\$5.42	\$5.73	\$17.14	
<b>SUBTOTAL</b>		1.14 HR		\$5.87	\$8.31	\$7.78	\$14.03	\$35.99	
<b>OVERHEAD EXPENSES</b>									
DOWNTIME		0.66 HR		\$3.40				\$3.40	
EMPLOYEE BENEFITS				\$6.16				\$6.16	
INSURANCE				\$0.68				\$0.68	
LAND TAXES							\$1.90	\$1.90	
SUPERVISION AND MANAGEMENT				\$44.52				\$44.52	
OTHER EXPENSES				\$40.46				\$40.46	
<b>SUBTOTAL</b>		0.66 HR		\$41.14	\$54.07		\$1.90	\$97.11	
<b>TOTAL OPERATING EXPENSES</b>		7.30 HR		\$146.99	\$88.27	\$22.10	\$19.32	\$64.64	\$341.31
<b>NET OPERATING PROFIT</b>								\$218.69	
INTEREST ON OPERATING CAPITAL	(	\$60.59	@	8.00%	)			\$4.85	
INTEREST ON EQUIPMENT INVESTMENT								\$13.10	
<b>RETURN TO LAND AND RISK</b>								\$200.74	
<b>BUDGET SUMMARY</b>									
GROSS RETURN		\$560.00							
VARIABLE OPERATING EXPENSES	\$188.40								
RETURN OVER VARIABLE EXPENSES	\$371.60	(GROSS MARGIN)							
FIXED EXPENSES	\$64.64								
NET FARM INCOME	\$306.96	(RETURN TO CAPITAL, LABOR, LAND & RISK)							
LABOR AND MANAGEMENT COST	\$88.27								
NET OPERATING PROFIT	\$218.69	(RETURN TO CAPITAL, LAND & RISK)							
CAPITAL COSTS	\$17.95								
RETURN TO LAND AND RISK	\$200.74								

TABLE 10. Grain Sorghum for grain, flood-irrigated, budgeted per acre costs and returns for a 200 acre farm with above average management, Cotton City, Hidalgo County, 2003.

Planting dates: September 15 - October 15

Harvest dates: July 1 - July 15

ITEM	PRICE	YIELD						TOTAL	
<b>GROSS RETURNS</b>									
GRAIN	\$4.39	61.00	CWT					\$267.79	
DIRECT PAYMENT	\$0.867	61.00	CWT					\$52.89	
COUNTER CYCLICAL PAYMENT	\$0.00							\$0.00	
GRAZING	\$10.00	1.00	AUM					\$10.00	
<b>TOTAL</b>								<b>\$330.68</b>	
<b>PURCHASED INPUTS</b>									
PURCHASED INPUTS	PRICE	QUANTITY		PURCHASED INPUTS				FIXED COST	TOTAL
SEED	\$0.11	100	LBS	\$11.00					\$11.00
ANHYDROUS AMMONIA (NH3)	\$0.1550	200	LBS	\$31.00					\$31.00
NITROGEN (N)	\$0.36	200	LBS	\$72.00					\$72.00
PHOSPHATE (P205)	\$0.33	90	LBS	\$29.70					\$29.70
CANAL WATER		24	AC. IN.					\$25.00	\$25.00
CROP INSURANCE	ERR								ERR
<b>SUBTOTAL</b>				<b>\$143.70</b>				<b>\$25.00</b>	<b>ERR</b>
<b>PREHARVEST OPERATIONS</b>									
	POWER UNIT	ACCOMPLISHMENT RATE		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	130 HP	0.17	HR		\$0.88	\$1.67	\$1.45	\$2.64	\$6.64
PLOW	130 HP	0.67	HR		\$3.45	\$6.60	\$6.10	\$10.92	\$27.06
DISC (2X)	130 HP	0.34	HR		\$1.75	\$3.35	\$2.89	\$5.28	\$13.27
LAND PLANE	130 HP	0.19	HR		\$0.98	\$1.87	\$1.45	\$4.14	\$8.44
BORDER DISC	65 HP	0.05	HR		\$0.26	\$0.33	\$0.09	\$0.74	\$1.42
DRILL	65 HP	0.25	HR		\$1.29	\$1.64	\$1.00	\$2.64	\$6.57
IRRIGATE (6X)		3.00	HR		\$15.45				\$15.45
<b>SUBTOTAL</b>		<b>4.67 HR</b>			<b>\$24.05</b>	<b>\$15.46</b>	<b>\$12.98</b>	<b>\$26.36</b>	<b>\$78.85</b>
<b>HARVEST OPERATIONS</b>									
COMBINE (CUSTOM)				\$40.87					\$40.87
HAUL (CUSTOM)				\$11.59					\$11.59
<b>SUBTOTAL</b>				<b>\$52.46</b>					<b>\$52.46</b>
<b>OVERHEAD EXPENSES</b>									
DOWNTIME		0.42	HR		\$2.15				\$2.15
EMPLOYEE BENEFITS					\$4.33				\$4.33
INSURANCE				\$0.48					\$0.48
LAND TAXES							\$1.90		\$1.90
SUPERVISION AND MANAGEMENT					\$26.98				\$26.98
OTHER EXPENSES				\$40.46					\$40.46
<b>SUBTOTAL</b>		<b>0.42 HR</b>		<b>\$40.94</b>	<b>\$33.46</b>			<b>\$1.90</b>	<b>\$76.30</b>
<b>TOTAL OPERATING EXPENSES</b>		<b>5.09 HR</b>		<b>\$237.10</b>	<b>\$57.51</b>	<b>\$15.46</b>	<b>\$12.98</b>	<b>\$53.26</b>	<b>ERR</b>
<b>NET OPERATING PROFIT</b>									
INTEREST ON OPERATING CAPITAL	(	ERR	@	8.00%					ERR
INTEREST ON EQUIPMENT INVESTMENT									\$13.10
<b>RETURN TO LAND AND RISK</b>									
<b>BUDGET SUMMARY</b>									
GROSS RETURN		\$330.68							
VARIABLE OPERATING EXPENSES	\$265.54								
RETURN OVER VARIABLE EXPENSES		\$65.14	(GROSS MARGIN)						
FIXED EXPENSES	\$53.26								
NET FARM INCOME		\$11.88	(RETURN TO CAPITAL, LABOR, LAND & RISK)						
LABOR AND MANAGEMENT COST	\$57.51								
NET OPERATING PROFIT		(\$45.63)	(RETURN TO CAPITAL, LAND & RISK)						
CAPITAL COSTS	ERR								
RETURN TO LAND AND RISK		ERR							

TABLE 11. Barley for grain, flood-irrigated, budgeted per acre costs and returns for a 200 acre farm with above average management, Socorro County, 2003.  
 Planting dates: September 15 - October 15  
 Harvest dates: July 1 - July 15

ITEM	PRICE	YIELD						TOTAL	
<b>GROSS RETURNS</b>									
GRAIN	\$3.30	45.00	CWT					\$148.50	
DIRECT PAYMENT	\$0.50	45.00	CWT					\$22.50	
COUNTER CYCLICAL PAYMENT	\$0.00	0.00	CWT					\$0.00	
GRAZING	\$10.00	1.00	AUM					\$10.00	
<b>TOTAL</b>								<b>\$181.00</b>	
<b>PURCHASED INPUTS</b>									
PURCHASED INPUTS	PRICE	QUANTITY		PURCHASED INPUTS				FIXED COST	TOTAL
SEED	\$0.25	100	LBS	\$25.00				\$25.00	
ANHYDROUS AMMONIA (NH3)	\$0.1550	200	LBS	\$31.00				\$31.00	
NITROGEN (N)	\$0.36	40	LBS	\$14.40				\$14.40	
PHOSPHATE (P205)	\$0.33	90	LBS	\$29.70				\$29.70	
CANAL WATER		24	AC. IN.					\$25.00	
CROP INSURANCE	\$0.50							\$0.50	
<b>SUBTOTAL</b>				<b>\$100.10</b>				<b>\$25.00</b>	<b>\$125.60</b>
<b>PREHARVEST OPERATIONS</b>									
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	130 HP	0.17	HR		\$0.88	\$1.67	\$1.45	\$2.64	\$6.64
PLOW	130 HP	0.67	HR		\$3.45	\$6.60	\$6.10	\$10.92	\$27.06
DISC (2X)	130 HP	0.34	HR		\$1.75	\$3.35	\$2.89	\$5.28	\$13.27
LAND PLANE	130 HP	0.19	HR		\$0.98	\$1.87	\$1.45	\$4.14	\$8.44
BORDER DISC	65 HP	0.05	HR		\$0.26	\$0.33	\$0.09	\$0.74	\$1.42
DRILL	65 HP	0.25	HR		\$1.29	\$1.64	\$1.00	\$2.64	\$6.57
IRRIGATE (6X)		3.00	HR		\$15.45				\$15.45
<b>SUBTOTAL</b>		<b>4.67 HR</b>			<b>\$24.05</b>	<b>\$15.46</b>	<b>\$12.98</b>	<b>\$26.36</b>	<b>\$78.85</b>
<b>HARVEST OPERATIONS</b>									
COMBINE (CUSTOM)				\$30.15					\$30.15
HAUL (CUSTOM)				\$9.00					\$9.00
<b>SUBTOTAL</b>				<b>\$39.15</b>					<b>\$39.15</b>
<b>OVERHEAD EXPENSES</b>									
DOWNTIME		0.42	HR		\$2.15				\$2.15
EMPLOYEE BENEFITS					\$4.33				\$4.33
INSURANCE				\$0.48				\$0.48	
LAND TAXES							\$1.90	\$1.90	
SUPERVISION AND MANAGEMENT					\$16.51				\$16.51
OTHER EXPENSES				\$40.46				\$40.46	
<b>SUBTOTAL</b>		<b>0.42 HR</b>		<b>\$40.94</b>	<b>\$22.98</b>			<b>\$1.90</b>	<b>\$65.82</b>
<b>TOTAL OPERATING EXPENSES</b>		<b>5.09 HR</b>		<b>\$180.19</b>	<b>\$47.03</b>	<b>\$15.46</b>	<b>\$12.98</b>	<b>\$53.26</b>	<b>\$309.42</b>
<b>NET OPERATING PROFIT</b>								<b>(\$128.42)</b>	
INTEREST ON OPERATING CAPITAL	(	\$60.67	@	8.00%				\$4.85	
INTEREST ON EQUIPMENT INVESTMENT								\$8.44	
<b>RETURN TO LAND AND RISK</b>								<b>(\$141.71)</b>	

**BUDGET SUMMARY**

GROSS RETURN		\$181.00	
VARIABLE OPERATING EXPENSES	\$208.63		
RETURN OVER VARIABLE EXPENSES		(\$27.63)	(GROSS MARGIN)
FIXED EXPENSES	\$53.26		
NET FARM INCOME		(\$80.88)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$47.03		
NET OPERATING PROFIT		(\$127.92)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$13.29		
RETURN TO LAND AND RISK		(\$141.21)	



TABLE 12. Corn for grain, flood-irrigated, budgeted per acre costs and returns for a 200 acre farm with above average management, Socorro County, 2003.

Planting dates: April 15 - May 15

Harvest dates: October 20 - November 20

ITEM	PRICE	YIELD						TOTAL
<b>GROSS RETURNS</b>								
CORN	\$5.08	100.00	CWT					\$508.00
DIRECT PAYMENT	\$0.50	100.00	CWT					\$50.00
COUNTER CYCLICAL PAYMENT	\$0.00	0.00	CWT					\$0.00
GRAZING	\$10.00	1.00	AUM					\$10.00
<b>TOTAL</b>								<b>\$568.00</b>
<b>PURCHASED INPUTS</b>								
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS		FIXED COST			TOTAL
SEED	\$78.50	25	000	\$24.53				\$24.53
ANHYDROUS AMMONIA (NH3)	\$0.1550	250	LBS	\$38.75				\$38.75
NITROGEN (N)	\$0.36	40	LBS	\$14.40				\$14.40
PHOSPHATE (P2O5)	\$0.33	90	LBS	\$29.70				\$29.70
INSECTICIDE (CUSTOM)	\$15.24	2	X/ACRE	\$30.49				\$30.49
HERBICIDE	\$10.37	1	X/ACRE	\$10.37				\$10.37
CANAL WATER		48	AC. IN.		\$25.00			\$25.00
CROP INSURANCE	\$2.50							\$2.50
<b>SUBTOTAL</b>				<b>\$148.24</b>	<b>\$25.00</b>			<b>\$175.74</b>
<b>PREHARVEST OPERATIONS</b>								
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	130 HP	0.17 HR		\$0.88	\$1.67	\$1.45	\$2.64	\$6.64
PLOW	130 HP	0.67 HR		\$3.45	\$6.60	\$6.10	\$10.92	\$27.06
DISC (2X)	130 HP	0.34 HR		\$1.75	\$3.35	\$2.89	\$5.28	\$13.27
LAND PLANE	130 HP	0.19 HR		\$0.98	\$1.87	\$1.45	\$4.14	\$8.44
SPRAYER	65 HP	0.15 HR		\$0.77	\$0.98	\$0.43	\$1.59	\$3.77
LISTER	65 HP	0.18 HR		\$0.93	\$1.18	\$0.45	\$3.15	\$5.71
PRE-IRRIGATE		0.75 HR		\$3.86				\$3.86
HARROW	65 HP	0.19 HR		\$0.98	\$1.25	\$0.22	\$0.66	\$3.10
PLANTER	130 HP	0.26 HR		\$1.34	\$2.56	\$2.74	\$12.12	\$18.75
CULTIVATOR (2X)	65 HP	0.42 HR		\$2.16	\$2.76	\$0.86	\$1.65	\$7.43
IRRIGATE (8X)		4.00 HR		\$20.60				\$20.60
<b>SUBTOTAL</b>		<b>7.32 HR</b>		<b>\$37.70</b>	<b>\$22.22</b>	<b>\$16.58</b>	<b>\$42.14</b>	<b>\$118.64</b>
<b>HARVEST OPERATIONS</b>								
COMBINE (CUSTOM)				\$42.00				\$42.00
HAUL (CUSTOM)				\$20.00				\$20.00
<b>SUBTOTAL</b>				<b>\$62.00</b>				<b>\$62.00</b>
<b>OVERHEAD EXPENSES</b>								
DOWNTIME		0.38 HR		\$1.96				\$1.96
EMPLOYEE BENEFITS				\$6.79				\$6.79
INSURANCE				\$0.75				\$0.75
LAND TAXES							\$1.90	\$1.90
SUPERVISION AND MANAGEMENT				\$44.52				\$44.52
OTHER EXPENSES				\$40.46				\$40.46
<b>SUBTOTAL</b>		<b>0.38 HR</b>		<b>\$41.21</b>	<b>\$53.26</b>		<b>\$1.90</b>	<b>\$96.37</b>
<b>TOTAL OPERATING EXPENSES</b>		<b>7.70 HR</b>		<b>\$251.45</b>	<b>\$90.96</b>	<b>\$22.22</b>	<b>\$16.58</b>	<b>\$452.75</b>
<b>NET OPERATING PROFIT</b>								<b>\$115.25</b>
INTEREST ON OPERATING CAPITAL	(	\$90.24	@	8.00%				\$7.22
INTEREST ON EQUIPMENT INVESTMENT								\$8.44
<b>RETURN TO LAND AND RISK</b>								<b>\$99.59</b>

**BUDGET SUMMARY**

GROSS RETURN		\$568.00	
VARIABLE OPERATING EXPENSES	\$290.25		
RETURN OVER VARIABLE EXPENSES		\$277.75	(GROSS MARGIN)
FIXED EXPENSES	\$69.04		
NET FARM INCOME		\$208.71	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$90.96		
NET OPERATING PROFIT		\$117.75	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$15.66		
RETURN TO LAND AND RISK		\$102.09	

TABLE 13. Oat hay, flood-irrigated, budgeted per acre costs and returns for a 200 acre farm with above :  
 management, Socorro County, 2003.

Planting dates: March 1 - March 31

Harvest dates: June 15 - July 1

ITEM	PRICE	YIELD	
<b>GROSS RETURNS</b>			
OAT HAY	\$130.00	2.50	TONS (STACKED)
<b>TOTAL</b>			
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS
SEED	\$0.23	100 LBS	\$23.00
ANHYDROUS AMMONIA (NH3)	\$0.1550	100 LBS	\$15.50
WIRE	\$0.39	21 LBS	\$8.36
CANAL WATER		24 AC. IN.	
SUBTOTAL			\$46.86

TABLE 14. Corn silage, flood-irrigated, budgeted per acre costs and returns for a 200 acre farm with above average management, Socorro County, 2003.

Planting dates: April 15 - May 15  
Harvest dates: August 20 - October 15

ITEM	PRICE	YIELD						TOTAL		
<b>GROSS RETURNS</b>										
CORN SILAGE	\$31.00	22.00	TONS	(HAULED)				\$682.00		
<b>TOTAL</b>								\$682.00		
<b>PURCHASED INPUTS</b>										
PURCHASED INPUTS	PRICE	QUANTITY		PURCHASED INPUTS		FIXED COST		TOTAL		
SEED	\$78.50	25	000	\$24.53				\$24.53		
ANHYDROUS AMMONIA (NH3)	\$0.1550	225	LBS	\$34.88				\$34.88		
NITROGEN (N)	\$0.36	40	LBS	\$14.40				\$14.40		
PHOSPHATE (P2O5)	\$0.33	90	LBS	\$29.70				\$29.70		
HERBICIDE	\$7.62	1	X/ACRE	\$7.62				\$7.62		
INSECTICIDE (CUSTOM)	\$21.03	1	X/ACRE	\$21.03				\$21.03		
CANAL WATER		36	AC. IN.			\$25.00		\$25.00		
<b>SUBTOTAL</b>				\$132.15		\$25.00		\$157.15		
<b>PREHARVEST OPERATIONS</b>										
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
DISC	130 HP	0.17	HR		\$0.88	\$1.67	\$1.45	\$2.64	\$6.64	
PLOW	130 HP	0.67	HR		\$3.45	\$6.60	\$6.10	\$10.92	\$27.06	
DISC (2X)	130 HP	0.34	HR		\$1.75	\$3.35	\$2.89	\$5.28	\$13.27	
LAND PLANE	130 HP	0.19	HR		\$0.98	\$1.87	\$1.45	\$4.14	\$8.44	
SPRAYER	65 HP	0.15	HR		\$0.77	\$0.98	\$0.43	\$1.59	\$3.77	
LISTER	65 HP	0.18	HR		\$0.93	\$1.18	\$0.45	\$3.15	\$5.71	
PRE-IRRIGATE		0.75	HR		\$3.86				\$3.86	
HARROW	65 HP	0.19	HR		\$0.98	\$1.25	\$0.22	\$0.66	\$3.10	
PLANTER	130 HP	0.26	HR		\$1.34	\$2.56	\$2.74	\$12.12	\$18.75	
CULTIVATOR (2X)	65 HP	0.42	HR		\$2.16	\$2.76	\$0.86	\$1.65	\$7.43	
IRRIGATE (6X)		3.00	HR		\$15.45				\$15.45	
<b>SUBTOTAL</b>		6.32 HR			\$32.55	\$22.22	\$16.58	\$42.14	\$113.49	
<b>HARVEST OPERATIONS</b>										
ENSILAGE CHOPPER (CUSTOM)					\$55.00				\$55.00	
HAUL (CUSTOM)					\$100.00				\$100.00	
<b>SUBTOTAL</b>					\$155.00				\$155.00	
<b>OVERHEAD EXPENSES</b>										
DOWNTIME		0.60	HR		\$3.06				\$3.06	
EMPLOYEE BENEFITS					\$5.86				\$5.86	
INSURANCE					\$0.65				\$0.65	
LAND TAXES							\$1.90		\$1.90	
SUPERVISION AND MANAGEMENT					\$53.40				\$53.40	
OTHER EXPENSES					\$40.46				\$40.46	
<b>SUBTOTAL</b>		0.60 HR			\$41.11	\$62.32		\$1.90	\$105.33	
<b>TOTAL OPERATING EXPENSES</b>		6.92 HR			\$328.26	\$94.87	\$22.22	\$16.58	\$69.04	\$530.97
<b>NET OPERATING PROFIT</b>								\$151.03		
INTEREST ON OPERATING CAPITAL	(	\$88.69	@	8.00%	)				\$7.10	
INTEREST ON EQUIPMENT INVESTMENT									\$11.14	
<b>RETURN TO LAND AND RISK</b>								\$132.80		

**BUDGET SUMMARY**

GROSS RETURN		\$682.00	
VARIABLE OPERATING EXPENSES	\$367.06		
RETURN OVER VARIABLE EXPENSES		\$314.94	(GROSS MARGIN)
FIXED EXPENSES	\$69.04		
NET FARM INCOME		\$245.90	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$94.87		
NET OPERATING PROFIT		\$151.03	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$18.23		
RETURN TO LAND AND RISK		\$132.80	

TABLE 15. Chile, flood-irrigated, budgeted per acre costs and returns for a 200 acre farm with above average management, Socorro County, 2003.  
 Planting dates: March 15 - May 1  
 Harvest dates: August 1 - October 15

ITEM	PRICE	YIELD						TOTAL	
<b>GROSS RETURNS</b>									
GREEN	\$0.15	12000.00	LBS					\$1,800.00	
RED	\$1.25	400.00	LBS					\$500.00	
<b>TOTAL</b>								\$2,300.00	
<b>PURCHASED INPUTS</b>									
PURCHASED INPUTS	PRICE	QUANTITY		PURCHASED INPUTS		FIXED COST		TOTAL	
SEED	\$21.00	7	LBS	\$147.00				\$147.00	
ANHYDROUS AMMONIA (NH3)	\$0.1550	250	LBS	\$38.75				\$38.75	
NITROGEN (N)	\$0.36	10	LBS	\$3.60				\$3.60	
PHOSPHATE (P205)	\$0.33	12	LBS	\$3.96				\$3.96	
SACKS	\$0.35	330	EACH	\$115.50				\$115.50	
HERBICIDE	\$19.05	1	ACRE	\$19.05				\$19.05	
CANAL WATER		48	AC. IN.			\$25.00		\$25.00	
<b>SUBTOTAL</b>				\$327.86		\$25.00		\$352.86	
<b>PREHARVEST OPERATIONS</b>									
	POWER UNIT	ACCOMPLISHMENT RATE		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	130 HP	0.17	HR		\$0.88	\$1.67	\$1.45	\$2.64	\$6.64
PLOW	130 HP	0.67	HR		\$3.45	\$6.60	\$6.10	\$10.92	\$27.06
DISC (2X)	130 HP	0.34	HR		\$1.75	\$3.35	\$2.89	\$5.28	\$13.27
LAND PLANE	130 HP	0.19	HR		\$0.98	\$1.87	\$1.45	\$4.14	\$8.44
LISTER	65 HP	0.18	HR		\$0.93	\$1.18	\$0.45	\$3.15	\$5.71
PRE-IRRIGATE		0.75	HR		\$3.86				\$3.86
HARROW	65 HP	0.19	HR		\$0.98	\$1.25	\$0.22	\$0.66	\$3.10
PLANTER	130 HP	0.26	HR		\$1.34	\$2.56	\$2.74	\$12.12	\$18.75
CULTIVATOR (10X)	130 HP	2.10	HR		\$10.82	\$20.68	\$16.79	\$28.10	\$76.38
SPRAYER (2X)	65 HP	0.30	HR		\$1.55	\$1.97	\$0.86	\$3.18	\$7.55
THIN & HOE (CUSTOM)				\$100.00					\$100.00
IRRIGATE (11X)		5.50	HR		\$28.33				\$28.33
<b>SUBTOTAL</b>		10.65	HR	\$100.00	\$54.85	\$41.12	\$32.93	\$70.18	\$299.08
<b>HARVEST OPERATIONS</b>									
HARVEST (CUSTOM)				\$620.00					\$620.00
HAUL & SELL	65 HP	15.00	HR		\$77.25	\$98.46	\$16.83	\$6.60	\$199.13
<b>SUBTOTAL</b>		15.00	HR	\$620.00	\$77.25	\$98.46	\$16.83	\$6.60	\$819.13
<b>OVERHEAD EXPENSES</b>									
DOWNTIME		4.85	HR		\$24.98				\$24.98
EMPLOYEE BENEFITS					\$23.78				\$23.78
INSURANCE				\$2.64					\$2.64
LAND TAXES							\$1.90		\$1.90
SUPERVISION AND MANAGEMENT					\$132.01				\$132.01
OTHER EXPENSES				\$40.46					\$40.46
<b>SUBTOTAL</b>		4.85	HR	\$43.10	\$180.76			\$1.90	\$225.76
<b>TOTAL OPERATING EXPENSES</b>		30.50	HR	\$1,090.96	\$312.86	\$139.58	\$49.76	\$103.68	\$1,696.83
<b>NET OPERATING PROFIT</b>								\$603.17	
INTEREST ON OPERATING CAPITAL	(	\$244	@	8.00%	)			\$19.50	
INTEREST ON EQUIPMENT INVESTMENT								\$25.93	
<b>RETURN TO LAND AND RISK</b>								\$557.74	
<b>BUDGET SUMMARY</b>									
GROSS RETURN		\$2,300.00							
VARIABLE OPERATING EXPENSES	\$1,280.30								
RETURN OVER VARIABLE EXPENSES		\$1,019.70	(GROSS MARGIN)						
FIXED EXPENSES	\$103.68								
NET FARM INCOME		\$916.03	(RETURN TO CAPITAL, LABOR, LAND & RISK)						
LABOR AND MANAGEMENT COST	\$312.86								
NET OPERATING PROFIT		\$603.17	(RETURN TO CAPITAL, LAND & RISK)						
CAPITAL COSTS	\$45.43								
RETURN TO LAND AND RISK		\$557.74							

Table 16. Livestock Enterprise, cost and returns for a 200 acre farm with livestock as the primary enterprise, with above average management, Socorro County, 1998.

GROSS RETURNS						
NUMBER		\$/CWT	Sale Weight (CWT)	Total (\$)	Guideline Value (\$/Cow)	Guideline Value (\$/AU)
0	YEARLING HEIFERS	\$92.00	4.85	\$0	\$0.00	\$0.00
0	YEARLING STEERS	102.00	5.25	0	0.00	\$0.00
35	HEIFER CALVES	104.00	4.20	15,288	160.93	\$138.59
44	STEER CALVES	112.00	4.70	23,162	243.81	\$209.97
1	BULLS	40.00	14.75	590	6.21	\$5.35
7	CULL COWS	38.00	8.85	2,354	24.78	\$21.34
1,309	MANURE	0.13	8.00	1,309	13.78	\$11.86
TOTAL				\$42,702	\$449.50	\$387.11

  

PURCHASED INPUTS						
NUMBER	PURCHASED INPUTS	Unit	\$/Unit	Total	Guideline Value (\$/Cow)	Guideline Value (\$/AU)
FORAGE:						
200	ALFALFA	AUM	\$10.00	\$2,000	\$21.05	\$18.13
0	PERMANENT PASTURE	AUM	\$12.00	\$0	\$0.00	\$0.00
0	SUDAN AFTER OAT HAY	AUM	\$10.00	\$0	\$0.00	\$0.00
0	SUDAN HAY	AUM	\$10.00	\$0	\$0.00	\$0.00
0	WHEAT	AUM	\$10.00	\$0	\$0.00	\$0.00
100	BARLEY	AUM	\$10.00	\$1,000	\$10.53	\$9.07
20	CORN	AUM	\$10.00	\$200	\$2.11	\$1.81
SUBTOTAL				\$3,000	\$32	\$27
LABOR, FEED, LIVESTOCK:						
		Unit	\$/Unit	Total	(\$/Cow)	(\$/AU)
2	PROTEIN SUPPLEMENT	TON	245	465.5	\$4.90	\$4.22
1	SALT & MINERALS	TON	210	160	1.68	1.45
401	HAY	TON	140	56,209	591.68	509.55
0	GRAIN	TON	200	0	0.00	0.00
0	GRAIN CUBES	TON	200	0	0.00	0.00
	FUEL AND REPAIRS	ANNUAL		0	0.00	0.00
	VETERINARY AND MEDICINE	ANNUAL		815	8.58	7.39
0	BULLS PURCHASED	HEAD	1500	0	0.00	0.00
	LIVESTOCK TAXES	ANNUAL		17	0.18	0.15
	MAINTENANCE	ANNUAL		0	0.00	0.00
104	PREGNANCY TEST	HEAD	2	207	2.00	1.88
150	LABOR	HOUR	5	751	7.90	6.80
87	BEEF CHECKOFF PROGRAM	HEAD	1	87	0.91	0.79
	MISCELLANEOUS	ANNUAL		0	0.00	0.00
SUBTOTAL				\$58,711	\$617.83	\$532.23
OVERHEAD EXPENSES						
	EMPLOYEE BENEFITS			0	\$0.00	\$0.00
	INSURANCE			0	\$0.00	\$0.00
	DEPRECIATION			523	\$5.50	\$4.74
	SUPERVISION AND MANAGEMENT			0	\$0.00	\$0.00
	OTHER EXPENSES			3,229	\$33.99	\$29.27
SUBTOTAL				\$3,752	\$39.49	\$34.01
TOTAL OPERATING EXPENSES				\$65,462	\$689.08	\$593.43
NET OPERATING PROFIT				(\$22,760)	(\$239.58)	(\$206.32)
CAPITAL COST						
	INTEREST ON OPERATING CAPITAL			\$2,419	\$25	\$22
	INTEREST ON MACHINERY AND IMPROVEMENTS			\$730	\$8	\$7
	INTEREST ON LIVESTOCK			\$0	\$0	\$0
TOTAL CAPITAL COST				\$3,149	\$33	\$29
RETURN TO RISK				(\$25,909)	(\$273)	(\$235)
RATE OF RETURN ON INVESTMENT				-27.9175%		

  

BUDGET SUMMARY			
GROSS RETURN		\$42,702	
VARIABLE OPERATING EXPENSES	\$61,711		
RETURN OVER VARIABLE EXPENSES		(\$19,008)	
FIXED EXPENSES	\$3,752		
NET FARM INCOME		(\$22,760)	
LABOR AND MANAGEMENT COST	\$0		
NET OPERATING PROFIT		(\$22,760)	
CAPITAL COST	\$3,149		
RETURN TO LAND AND RISK		(\$25,909)	

TABLE 17. Summary of per acre costs and returns, 200 acre farm with above average management, Socorro County, 2003.

	ALFALFA ESTABLISHMENT	ALFALFA HAY	PERMANENT PASTURE EST.	PERMANENT PASTURE	OAT HAY	SUDAN HAY (AOH)	SUDAN HAY FLOOD	CORN SILAGE	WHEAT FOR GRAIN	BARLEY FOR GRAIN	CORN FOR GRAIN	GREEN CHILE
		TONS		AUMS	TONS	TONS	TONS	TONS	CWT	CWT	CWT	LBS
PRIMARY YIELD		5.00		0.00	0.00	0.00	0.00	0.00	0.00	45.00	100.00	12000.00
PRIMARY PRICE		140.00		0.00	0.00	0.00	0.00	0.00	0.00	3.30	5.08	0.15
GOVERNMENT PAYMENTS		0.00		0.00	0.00	0.00	0.00	0.00	0.00	22.50	50.00	0.00
SECOND INCOME		10.00		0.00	0.00	0.00	0.00	0.00	0.00	10.00	10.00	500.00
GROSS RETURN		\$710.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$181.00	\$568.00	\$2,300.00
CASH OPERATING EXPENSES												
SEED	\$59.00		\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25.00	\$24.53	\$147.00
FERTILIZER	\$44.10	\$60.24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$75.10	\$82.85	\$46.31
CHEMICALS		\$30.54				\$0.00	\$0.00	\$0.00			\$40.86	\$19.05
CROP INSURANCE									ERR	\$0.50	\$2.50	
OTHER PURCHASED INPUTS		\$16.71			\$0.00	\$0.00	\$0.00					\$115.50
CANAL WATER		\$28.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25.00	\$25.00	\$25.00
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$13.59	\$20.78	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15.46	\$22.22	\$139.58
FUEL-IRRIGATION												
REPAIRS	\$11.53	\$19.46	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12.98	\$16.58	\$49.76
CUSTOM CHARGES	\$73.33							\$0.00	\$0.00	\$39.15	\$62.00	\$720.00
LAND TAXES		\$1.90		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.90	\$1.90	\$1.90
OTHER EXPENSES	\$0.31	\$41.27	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$40.94	\$41.21	\$43.10
TOTAL CASH EXPENSES	\$201.86	\$218.90	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	ERR	\$236.02	\$319.65	\$1,307.19
RETURN OVER CASH EXPENSES	(\$201.86)	\$491.10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	ERR	(\$55.02)	\$248.35	\$992.81
FIXED EXPENSES	\$22.22	\$100.88	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$26.36	\$42.14	\$76.78
TOTAL EXPENSES	\$224.07	\$319.78	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	ERR	\$262.38	\$361.79	\$1,383.97
NET FARM INCOME	(\$224.07)	\$390.22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	ERR	(\$81.38)	\$206.21	\$916.03
LABOR AND MANAGEMENT COSTS	\$43.18	\$107.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$47.03	\$90.96	\$312.86
NET OPERATING PROFIT	(\$267.25)	\$282.72	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	ERR	(\$128.42)	\$115.25	\$603.17
CAPITAL COSTS												
INTEREST ON OPERATING CAPITAL		\$4.57		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.85	\$7.22	\$19.50
INTEREST ON EQUIPMENT INVESTMENT		\$13.50		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.44	\$8.44	\$25.93
TOTAL CAPITAL COSTS	\$0.00	\$18.06	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$13.29	\$15.66	\$45.43
RETURN TO LAND AND RISK	(\$267.25)	\$264.66	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	ERR	(\$141.71)	\$99.59	\$557.74

TABLE 18. Whole farm budget summary, Socorro County, 2003.

GROSS RETURNS		
ALFALFA HAY	200.0 ACRES	
CROP		\$140,000
GRAZING		\$2,000
PERMANENT PASTURE	0.0 ACRES	
GRAZING		\$0
OAT HAY	0.0 ACRES	
CROP		\$0
SUDAN HAY (AOH)	0.0 ACRES	
CROP		\$0
GRAZING		\$0
SUDAN HAY	0.0 ACRES	
CROP		\$0
GRAZING		\$0
CORN SILAGE	0.0 ACRES	
CROP		\$0
WHEAT	0.0 ACRES	
CROP		\$0
GRAZING		\$0
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
BARLEY	100.0 ACRES	
CROP		\$14,850
GRAZING		\$1,000
DIRECT PAYMENT		\$2,250
COUNTER CYCLICAL PAYMENT		\$0
CORN FOR GRAIN	20.0 ACRES	
CROP		\$10,160
GRAZING		\$200
DIRECT PAYMENT		\$1,000
COUNTER CYCLICAL PAYMENT		\$0
GREEN CHILE	55.0 ACRES	
GREEN		\$99,000
RED		\$27,500
LIVESTOCK		\$42,702
GROSS RETURN		<u>\$340,662</u>
CASH OPERATING EXPENSES		
FORAGE		\$3,000
LIVESTOCK		\$58,711
SEED		\$14,026
FERTILIZER		\$25,967
CHEMICALS		\$7,973
CROP INSURANCE		ERR
OTHER PURCHASED INPUTS		\$9,695
CANAL WATER		\$9,975
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$14,502
FUEL-IRRIGATION		\$0
REPAIRS		\$8,835
CUSTOM CHARGES		\$48,422
LAND TAXES		\$711
OTHER EXPENSES		\$15,558
TOTAL CASH EXPENSES		<u>ERR</u>
RETURN OVER CASH EXPENSES		ERR
FIXED EXPENSES	\$18,298	
TOTAL EXPENSES		<u>ERR</u>
NET FARM INCOME		ERR
LABOR AND MANAGEMENT COSTS	\$47,389	
NET OPERATING PROFIT		ERR
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$2,616
INTEREST ON EQUIPMENT INVESTMENT		\$5,137
TOTAL CAPITAL COSTS		<u>\$7,753</u>
RETURN TO LAND AND RISK		<u>ERR</u>

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$1,000 /ACRE	ERR	ERR
\$2,000 /ACRE	ERR	ERR
\$3,000 /ACRE	ERR	ERR
\$4,000 /ACRE	ERR	ERR
\$5,000 /ACRE	ERR	ERR
\$6,000 /ACRE	ERR	ERR
\$7,000 /ACRE	ERR	ERR