

TABLE 1. Basic cost information for the Roswell-Hagerman area, Chaves County, 2003.

Item			
Labor Wage Rate:			
Equipment operators		\$/hour	\$7.55
General & Irrigators		\$/hour	\$6.45
Purchased Inputs:			
Fertilizer:			
Nitrogen (N)		\$/pound	\$0.36
Phosphate (P205)		\$/pound	\$0.33
Seed:			
Alfalfa		\$/pound	\$3.00
Cotton			
picker		\$/pound	\$0.56
stripper		\$/pound	\$0.51
Oat		\$/pound	\$0.40
Corn		\$/bag	\$89.75
Plastic Twine:		\$/roll	\$19.00
Natural gas		\$/MCF	\$3.28
(service charge)		\$/month	\$10.00
Diesel fuel		\$/gallon	\$1.30
Gasoline		\$/gallon	\$1.35
Electricity		cents/KwHr	5.84
LP Gas		\$/gallon	\$1.21
Employee Liability Insurance		\$/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	\$185.00	/acre (full value)	\$1.49
Personal Property Tax Rate - NR		\$/ \$1,000 (Assessed Value)	\$24.18
- R			\$20.02
Supervision Factors			
Field Crop-Irrigation		\$/labor hour	\$1.00
Field Crop-Equipment & General		\$/labor hour	\$0.50
Management Rate		percent	7.00%

TABLE 1a. Overhead cost information for Roswell-Hagerman area, Chaves County, 2003.

ITEM			
Electricity (Domestic & Shop)		\$210.00 per month	\$2,520
Telephone		\$105.00 per month	\$1,260
Accounting & Legal			\$1,520
Misc. Supplies & Hand Tools			\$2,290
Pickup and Auto			
miles	20,000	@ \$0.365 per mile	\$7,300
Insurance			
- general liability (non-employee)			\$1,660
- fire/theft			\$1,310
Property Taxes			
- non-planted land			\$17
- other than land & machinery			\$600
Building repairs and maintenance			\$1,250
Dues, fees, publications			\$380
Farmstead Equipment			\$165
Total			<u>\$20,272</u>
Total Per Planted Acre			\$33.79

TABLE 2. Pumping costs and data for irrigation wells, Roswell-Hagerman area,
Chaves County, 2003.

INPUT DATA

DELIVERY PSI:	0	DEPTH CHARACTERISTICS:	
		STATIC... ..	150
		DRAW DOV.....	30
		TOTAL HEAD.....	180
		CASING... ..	600
GALLONS PER MINUTE (GPM)...	1000		
WORK HORSEPOWER.....	45		
EFFICIENCY FACTOR:			
ELECTRICITY.....	0.540		
NATURAL GAS.....	0.154		
LP GAS.....	0.154		
DIESEL.....	0.160		
FUEL COST PER UNIT:			
ELECTRICITY.....	5.84	CENTS/K wHr	
NATURAL GAS.....	\$3.28	\$/MCF	
LP GAS.....	\$1.21	\$/GAL	
DIESEL.....	\$1.30	\$/GAL	

PUMPING FUEL COSTS

ELECTRIC WELL:		
COST PER HOUR.....\$		\$3.70
COST PER ACRE INCH.....\$		\$1.67
NATURAL GAS WELL:		
COST PER HOUR.....\$		\$2.73
COST PER ACRE INCH.....\$		\$1.24
LP GAS WELL:		
COST PER HOUR.....\$		\$9.92
COST PER ACRE INCH.....\$		\$4.49
DIESEL WELL:		
COST PER HOUR.....\$		\$6.67
COST PER ACRE INCH.....\$		\$3.02

TABLE 3. Equipment summary for a 640 acre flood-irrigated farm with above average management, Roswell-Hagerman area, 2003.

EQUIPMENT ITEM & SIZE	ANNUAL		VARIABLE COSTS					FIXED COSTS		
	HOURS OF USE	NUMBEI	TOTAL VALUE	FUEL AND LUBRICANT	REPAIR	FUEL,LUBE PER HR	REPAIR PER HR	DEPRE- CIATION	TAXES	TOTAL PER HOUR
TRACTOR 96 HP	380	1	\$19,240	\$3,645	\$1,989	\$9.59	\$5.24	\$1,073	\$173	\$3.28
TRACTOR 130 HP	315	1	\$12,325	\$2,982	\$2,222	\$9.48	\$7.06	\$1,453	\$176	\$5.18
TRACTOR 145 HP	345	1	\$31,475	\$4,056	\$2,314	\$11.74	\$6.70	\$4,652	\$281	\$14.28
COTTON PICKER 2-ROW	63	1	\$11,720	\$497	\$1,866	\$7.86	\$29.50	\$5,960	\$360	\$99.94
COTTON STRIPPER MTD	63	1	\$2,520		\$255		\$4.03	\$767	\$46	\$12.86
SWATHER 16 FT	179	1	\$24,740	\$871	\$1,684	\$4.87	\$9.41	\$3,621	\$292	\$21.87
BALER 1-TON	109	1	\$48,920		\$286		\$2.62	\$5,812	\$351	\$56.36
PLANTER 4-ROW	42	1	\$3,400		\$246		\$5.85	\$680	\$27	\$16.79
ROLLING CULT 4-ROW	132	1	\$1,500		\$111		\$0.84	\$200	\$12	\$1.61
DISC OFFSET 14 FT	105	1	\$5,750		\$344		\$3.28	\$767	\$46	\$7.74
DRILL 13 FT	42	1	\$2,150		\$154		\$3.70	\$430	\$17	\$10.76
PLANE 12 FT	29	1	\$2,500		\$13		\$0.45	\$333	\$20	\$12.27
FLOAT 14 FT	26	1	\$600		\$9		\$0.33	\$60	\$4	\$2.45
LISTER 4-ROW	29	1	\$1,600		\$35		\$1.18	\$213	\$13	\$7.76
PLOW (MOLDBOARD) 4-16 IN	131	1	\$4,000		\$294		\$2.24	\$533	\$32	\$4.32
SHREDDER 4-ROW	14	1	\$2,500		\$13		\$0.90	\$333	\$20	\$24.75
COTTON TRAILER	128	4	\$4,800		\$31		\$0.24	\$640	\$39	\$5.32
SPRAYER 12 FT	42	1	\$1,375		\$105		\$2.50	\$183	\$11	\$4.62
FRONT END LOADER (ATTACH)	79	1	\$2,550		\$123		\$1.56	\$255	\$21	\$3.47
SEMI-TRUCK & FLATBED	194	1	\$15,500	\$1,321	\$0	\$6.83	\$0.00	\$3,100	\$125	\$16.67
RAKES	79	1	\$3,400		\$248		\$3.13	\$340	\$27	\$4.63
V-DITCHER	32	1	\$1,250		\$8		\$0.25	\$167	\$10	\$5.58
NATURAL GAS WELL	11835	3	\$127,500	\$32,323	\$2,692	\$2.73	\$0.23	\$10,625	\$1,028	\$1.02
			\$331,315	\$45,694	\$15,041			\$42,197	\$3,132	

TABLE 4. Alfalfa establishment, flood-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Roswell-Hagerman area, 2003.

Planting dates: September 1 - September 31

ITEM	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
<u>PURCHASED INPUTS</u>								
SEED	\$3.00	30 LBS		\$90.00				\$90.00
INSECTICIDE (CUSTOM)	\$13.38	1 ACRE		\$13.38				\$13.38
PUMP WATER*		16 AC. IN.						
SUBTOTAL				\$103.38				\$103.38
<u>PREHARVEST OPERATIONS</u>								
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	145 HP	0.17 HR		\$1.28	\$3.99	\$1.70	\$3.74	\$10.71
PLOW	145 HP	0.48 HR		\$3.62	\$5.64	\$4.29	\$8.93	\$22.48
DISC (2X)	145 HP	0.34 HR		\$2.57	\$3.99	\$3.39	\$7.49	\$17.44
PLANE (2X)	130 HP	0.48 HR		\$3.62	\$4.55	\$3.61	\$8.38	\$20.16
DRILL	96 HP	0.21 HR		\$1.59	\$2.01	\$1.88	\$2.95	\$8.42
DITCHER (2X)	130 HP	0.10 HR		\$0.76	\$0.95	\$0.73	\$1.08	\$3.51
IRRIGATE (2X)		1.00 HR		\$6.45	\$19.78	\$1.65	\$7.35	\$35.22
SUBTOTAL		2.78 HR		\$19.89	\$40.91	\$17.24	\$39.91	\$117.95
<u>OVERHEAD EXPENSES</u>								
DOWNTIME		0.45 HR		\$3.36				\$3.36
EMPLOYEE BENEFITS				\$3.58				\$3.58
INSURANCE			\$0.40					\$0.40
SUPERVISION AND MANAGEMENT				\$17.33				\$17.33
SUBTOTAL		0.45 HR	\$0.40	\$24.27				\$24.67
<u>TOTAL OPERATING EXPENSES</u>		3.23 HR	\$103.77	\$44.16	\$40.91	\$17.24	\$39.91	\$245.99

TABLE 5. Alfalfa hay, flood-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Roswell-Hagerman area, 2003.
Harvesting dates: May 20 - October 15

ITEM	PRICE	YIELD						TOTAL	
GROSS RETURNS									
ALFALFA HAY	\$140.00	7.00	TONS (DELIVERED)					\$980.00	
TOTAL								\$980.00	
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PURCHASED INPUTS	PRICE	QUANTITY		PURCHASED INPUTS		FIXED COST		TOTAL	
FERTILIZER (10-26-10)	\$0.20	200	LBS	\$40.00				\$40.00	
INSECTICIDE (CUSTOM)	\$44.48	1	ACRE	\$44.48				\$44.48	
HERBICIDE (CUSTOM)	\$28.11	1	ACRE	\$28.11				\$28.11	
PLASTIC TWINE	\$19.00	170	FT/TON	\$5.65				\$5.65	
ESTABLISHMENT: Principal		5	YEARS			\$49.20		\$49.20	
: Interest						\$10.40		\$10.40	
PUMP WATER*		54	AC. IN.						
SUBTOTAL				\$118.24		\$59.60		\$177.84	
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PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
IRRIGATE (6X)		3.00	HR		\$19.35	\$66.74	\$5.56	\$24.81	\$116.46
SUBTOTAL		3.00	HR		19.35	66.74	5.56	24.81	116.46
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HARVEST OPERATIONS									
SWATHER (5X)	14 FT	0.55	HR		\$4.15	\$2.68	\$5.18	\$12.03	\$24.03
RAKE (5X)	96 HP	0.25	HR		\$1.89	\$2.40	\$2.09	\$1.98	\$8.35
BALER (5X)	145 HP	0.35	HR		\$2.64	\$4.11	\$3.26	\$24.72	\$34.74
FRONT END LOADER (5X)	130 HP	0.25	HR		\$1.89	\$2.37	\$2.15	\$2.16	\$8.58
HAUL	SEMI	0.50	HR		\$3.78	\$3.41	\$0.00	\$8.33	\$15.52
SUBTOTAL		1.90	HR		\$14.35	\$14.97	\$12.68	\$49.22	\$91.22
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OVERHEAD EXPENSES									
DOWNTIME		0.48	HR		\$3.59				\$3.59
EMPLOYEE BENEFITS					\$6.07				\$6.07
INSURANCE					\$0.67				\$0.67
LAND TAXES								\$1.49	\$1.49
SUPERVISION AND MANAGEMENT					\$72.55				\$72.55
OTHER EXPENSES					\$33.79				\$33.79
SUBTOTAL		0.48	HR		\$34.46	\$82.20		\$1.49	\$118.15
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TOTAL OPERATING EXPENSES		5.38	HR		\$152.70	\$115.90	\$81.71	\$18.24	\$135.12
NET OPERATING PROFIT									\$476.33
INTEREST ON OPERATING CAPITAL	(	79.50	@	8.00%	)				\$6.36
INTEREST ON EQUIPMENT INVESTMENT									\$37.13
RETURN TO LAND AND RISK									\$432.84

* Pump water costs are shown under irrigation in the preharvest operations section.

BUDGET SUMMARY

GROSS RETURN	\$980.00	
VARIABLE OPERATING EXPENSES	\$252.65	
RETURN OVER VARIABLE EXPENSES	\$727.35	(GROSS MARGIN)
FIXED EXPENSES	\$135.12	
NET FARM INCOME	\$592.23	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$115.90	
NET OPERATING PROFIT	\$476.33	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$43.49	
RETURN TO LAND AND RISK	\$432.84	

TABLE 6. Wheat, flood-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Roswell-Hagerman area, 2003.

Planting dates: August 15 - November 1

Harvesting dates: June 15 - July 1

ITEM	PRICE	YIELD							TOTAL
GROSS RETURNS									
WHEAT	\$5.75	30.00	CWT						\$172.50
DIRECT PAYMENT	\$0.87	30.00	CWT						\$26.10
COUNTER CYCLICAL PAYMENT	\$0.00								\$0.00
GRAZING	\$44.00	1.00	ACRE						\$44.00
TOTAL									\$242.60
PURCHASED INPUTS									
PURCHASED INPUTS	PRICE	QUANTITY		PURCHASED INPUTS					TOTAL
SEED	\$0.11	100	LBS	\$11.00					\$11.00
NITROGEN (N)	\$0.36	150	LBS	\$54.00					\$54.00
PHOSPHATE (P205)	\$0.33	50	LBS	\$16.50					\$16.50
INSECTICIDE	\$19.17	1	ACRE	\$19.17					\$19.17
PUMP WATER*		28	AC. IN.						
CROP INSURANCE	\$0.98			\$0.98					\$0.98
SUBTOTAL									\$101.65
PREHARVEST OPERATIONS									
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PLOW	145 HP	0.48	HR		\$3.62	\$5.64	\$4.29	\$8.93	\$22.48
DISC (2X)	145 HP	0.34	HR		\$2.57	\$3.99	\$3.39	\$7.49	\$17.44
FERTILIZE	DEALER APPLIED								
DRILL	96 HP	0.21	HR		\$1.59	\$2.01	\$1.88	\$2.95	\$8.42
DITCHER (2X)	130 HP	0.10	HR		\$0.76	\$0.95	\$0.73	\$1.08	\$3.51
IRRIGATE (4X)		2.00	HR		\$12.90	\$34.61	\$2.88	\$12.86	\$63.25
SUBTOTAL									\$115.10
HARVEST OPERATIONS									
COMBINE (CUSTOM)					\$24.84				\$24.84
HAUL (CUSTOM)					\$5.10				\$5.10
SUBTOTAL									\$29.94
OVERHEAD EXPENSES									
DOWNTIME		0.28	HR		\$2.13				\$2.13
EMPLOYEE BENEFITS					\$3.86				\$3.86
INSURANCE					\$0.43				\$0.43
LAND TAXES							\$1.49		\$1.49
SUPERVISION AND MANAGEMENT					\$19.50				\$19.50
OTHER EXPENSES					\$33.79				\$33.79
SUBTOTAL									\$61.19
TOTAL OPERATING EXPENSES		3.41	HR	\$165.81	\$46.92	\$47.20	\$13.17	\$34.79	\$307.89
NET OPERATING PROFIT									(\$65.29)
INTEREST ON OPERATING CAPITAL	(	68.42	@	8.00%	)				\$5.47
INTEREST ON EQUIPMENT INVESTMENT									\$15.61
RETURN TO LAND AND RISK									(\$86.38)

* Pump water costs are shown under irrigation in the preharvest operations section.

BUDGET SUMMARY

GROSS RETURN		\$242.60	
VARIABLE OPERATING EXPENSES	\$226.18		
RETURN OVER VARIABLE EXPENSES		\$16.42	(GROSS MARGIN)
FIXED EXPENSES	\$34.79		
NET FARM INCOME		(\$18.37)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$46.92		
NET OPERATING PROFIT		(\$65.29)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$21.09		
RETURN TO LAND AND RISK		(\$86.38)	

TABLE 7. Oat hay, flood-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Roswell-Hagerman area, 2003.

Planting dates: February 15 - April 1

Harvesting dates: June 15 - July 1

ITEM	PRICE	YIELD							TOTAL
GROSS RETURNS									
OAT HAY	\$130.00	5.00	TONS (DELIVERED)						\$650.00
TOTAL									\$650.00
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PURCHASED INPUTS	PRICE	QUANTITY		PURCHASED INPUTS					TOTAL
SEED	\$0.40	80	LBS	\$32.00					\$32.00
NITROGEN (N)	\$0.36	85	LBS	\$30.60					\$30.60
PUMP WATER*		21	AC. IN.						
SUBTOTAL				\$62.60					\$62.60
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PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC (2X)	145 HP	0.34	HR		\$2.57	\$3.99	\$3.39	\$7.49	\$17.44
DRILL	96 HP	0.21	HR		\$1.59	\$2.01	\$1.88	\$2.95	\$8.42
DITCHER (2X)	130 HP	0.05	HR		\$0.38	\$0.47	\$0.37	\$0.54	\$1.76
IRRIGATE (3X)		1.50	HR		\$9.68	\$25.96	\$2.16	\$9.65	\$47.44
SUBTOTAL		2.10	HR		\$14.21	\$32.44	\$7.80	\$20.62	\$75.06
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HARVEST OPERATIONS									
SWATHER	14 FT	0.16	HR		\$1.21	\$0.78	\$1.51	\$3.50	\$6.99
RAKE	96 HP	0.05	HR		\$0.38	\$0.48	\$0.42	\$0.40	\$1.67
BALER	145 HP	0.05	HR		\$0.38	\$0.59	\$0.47	\$3.53	\$4.96
FRONT END LOADER	130 HP	0.05	HR		\$0.38	\$0.47	\$0.43	\$0.43	\$1.72
HAUL	SEMI	0.50	HR		\$3.78	\$3.41	\$0.00	\$8.33	\$15.52
SUBTOTAL		0.81	HR		\$6.12	\$5.73	\$2.82	\$16.19	\$30.86
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OVERHEAD EXPENSES									
DOWNTIME		0.35	HR		\$2.66				\$2.66
EMPLOYEE BENEFITS					\$3.66				\$3.66
INSURANCE				\$0.41					\$0.41
LAND TAXES							\$1.49		\$1.49
SUPERVISION AND MANAGEMENT					\$47.68				\$47.68
OTHER EXPENSES				\$33.79					\$33.79
SUBTOTAL		0.35	HR	\$34.19	\$54.00		\$1.49		\$89.68
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TOTAL OPERATING EXPENSES		3.26	HR	\$96.79	\$74.32	\$38.17	\$10.62	\$38.30	\$258.20
<hr/>									
NET OPERATING PROFIT									\$391.80
INTEREST ON OPERATING CAPITAL	(42.07	@	8.00%)				\$3.37
INTEREST ON EQUIPMENT INVESTMENT									\$17.81
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RETURN TO LAND AND RISK									\$370.62

* Pump water costs are shown under irrigation in the preharvest operations section.

BUDGET SUMMARY

GROSS RETURN		\$650.00	
VARIABLE OPERATING EXPENSES	\$145.58		
RETURN OVER VARIABLE EXPENSES		\$504.42	(GROSS MARGIN)
FIXED EXPENSES	\$38.30		
NET FARM INCOME		\$466.12	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$74.32		
NET OPERATING PROFIT		\$391.80	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$21.18		
RETURN TO LAND AND RISK		\$370.62	

TABLE 8. Upland cotton (picker), flood-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Roswell-Hagerman area, 2003.
Planting dates: April 15 - June 1
Harvesting dates: October 1 - December 31

ITEM	PRICE	YIELD							TOTAL
GROSS RETURNS									
COTTON LINT	\$0.520	900 LBS							\$468.00
COTTON SEED	\$0.08	1440 LBS							\$108.00
DIRECT PAYMENT	\$0.0667	900 LBS							\$60.03
COUNTER CYCLICAL PAYMENT	\$0.0873	900 LBS							\$78.57
TOTAL								\$714.60	
PURCHASED INPUTS									
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS						TOTAL
SEED	\$0.56	20 LBS	\$11.20						\$11.20
NITROGEN (N)	\$0.36	32 LBS	\$11.52						\$11.52
PHOSPHATE (P205)	\$0.33	40 LBS	\$13.20						\$13.20
HERBICIDE	\$15.88	1 ACRE	\$15.88						\$15.88
HERBICIDE (CUSTOM)	\$16.96	1 ACRE	\$16.96						\$16.96
INSECTICIDE (CUSTOM) 2X	\$37.15	1 ACRE	\$37.15						\$37.15
CROP INSURANCE			\$0.98						\$0.98
PUMP WATER*		28 AC. IN.							
SUBTOTAL			\$106.89						\$106.89
PREHARVEST OPERATIONS									
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
DISC	145 HP	0.17 HR		\$1.28	\$2.00	\$1.70	\$3.74	\$8.72	
PLOW	145 HP	0.48 HR		\$3.62	\$5.64	\$4.29	\$8.93	\$22.48	
FLOAT	130 HP	0.16 HR		\$1.21	\$1.52	\$1.18	\$1.22	\$5.13	
FERTILIZE	DEALER APPLIED								
LISTER	130 HP	0.18 HR		\$1.36	\$1.71	\$1.48	\$2.33	\$6.88	
PRE-IRRIGATE		0.75 HR		\$4.84	\$8.65	\$0.72	\$3.22	\$17.43	
CULT & SPRAY	96 HP	0.26 HR		\$1.96	\$2.49	\$2.23	\$2.47	\$9.16	
PLANTER	130 HP	0.26 HR		\$1.96	\$2.47	\$3.36	\$5.71	\$13.50	
CULTIVATOR (3X)	96 HP	0.63 HR		\$4.76	\$6.04	\$3.83	\$3.08	\$17.71	
HAND HOE (CUSTOM)			\$20.00					\$20.00	
DITCHER (2X)	130 HP	0.10 HR		\$0.76	\$0.95	\$0.73	\$1.08	\$3.51	
IRRIGATE (3X)		1.50 HR		\$9.68	\$25.96	\$2.16	\$9.65	\$47.44	
SUBTOTAL			\$20.00	\$31.42	\$57.41	\$21.68	\$41.42	\$171.95	
HARVEST OPERATIONS									
COTTON PICKER (2X)	2-ROW	1.24 HR		\$9.36	\$9.75	\$36.58	\$123.93	\$179.62	
HAUL (2X)	65 HP	1.00 HR		\$7.55	\$9.59	\$5.48	\$8.60	\$31.22	
GIN COTTON (CUSTOM)			\$148.32					\$148.32	
SUBTOTAL			\$148.32	\$16.91	\$19.34	\$42.06	\$132.53	\$359.16	
POSTHARVEST OPERATIONS									
SHREDDER	96 HP	0.14 HR		\$1.06	\$1.33	\$1.11	\$4.19	\$7.69	
SUBTOTAL				\$1.06	\$1.33	\$1.11	\$4.19	\$7.69	
OVERHEAD EXPENSES									
DOWNTIME		1.16 HR		\$8.72				\$8.72	
EMPLOYEE BENEFITS				\$8.89				\$8.89	
INSURANCE			\$0.99					\$0.99	
LAND TAXES							\$1.49	\$1.49	
SUPERVISION AND MANAGEMENT				\$54.53				\$54.53	
OTHER EXPENSES			\$33.79					\$33.79	
SUBTOTAL			\$34.77	\$72.14			\$1.49	\$108.41	
TOTAL OPERATING EXPENSES		8.03 HR	\$309.98	\$121.54	\$78.08	\$64.86	\$179.63	\$754.09	
NET OPERATING PROFIT								(\$39.49)	
INTEREST ON OPERATING CAPITAL	(	78.54 @	8.00%)					\$6.28
INTEREST ON EQUIPMENT INVESTMENT								\$17.81	
RETURN TO LAND AND RISK								(\$63.59)	

* Pump water costs are shown under irrigation in the preharvest operations section.

BUDGET SUMMARY

GROSS RETURN		\$714.60	
VARIABLE OPERATING EXPENSES	\$452.92		
RETURN OVER VARIABLE EXPENSES	\$261.68	(GROSS MARGIN)	
FIXED EXPENSES	\$179.63		
NET FARM INCOME		\$82.04	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$121.54		
NET OPERATING PROFIT		(\$39.49)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$24.10		
RETURN TO LAND AND RISK		(\$63.59)	

TABLE 9. Upland cotton (stripper), flood-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Roswell-Hagerman area, 2003.
Planting dates: April 15 - June 1
Harvesting dates: October 1 - December 31

ITEM	PRICE	YIELD							TOTAL
GROSS RETURNS									
COTTON LINT	\$0.470	900 LBS							\$423.00
COTTON SEED	\$0.08	1440 LBS							\$108.00
DIRECT PAYMENT	\$0.0667	900 LBS							\$60.03
COUNTER CYCLICAL PAYMENT	\$0.1373	900 LBS							\$123.57
TOTAL								\$714.60	
PURCHASED INPUTS									
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS						TOTAL
SEED	\$0.51	25 LBS	\$12.75						\$12.75
NITROGEN (N)	\$0.36	32 LBS	\$11.52						\$11.52
PHOSPHATE (P205)	\$0.33	40 LBS	\$13.20						\$13.20
HERBICIDE	\$15.88	1 ACRE	\$15.88						\$15.88
HERBICIDE (CUSTOM)	\$15.82	1 ACRE	\$15.82						\$15.82
INSECTICIDE (CUSTOM) 2X	\$35.20	1 X/ACRE	\$35.20						\$35.20
CROP INSURANCE			\$0.98						\$0.98
PUMP WATER*		28 AC. IN.							
SUBTOTAL			\$105.36						\$105.36
PREHARVEST OPERATIONS									
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
DISC	145 HP	0.17 HR		\$1.28	\$2.00	\$1.70	\$3.74	\$8.72	
PLOW	145 HP	0.48 HR		\$3.62	\$5.64	\$4.29	\$8.93	\$22.48	
FLOAT	130 HP	0.16 HR		\$1.21	\$1.52	\$1.18	\$1.22	\$5.13	
FERTILIZE	DEALER APPLIED								
LISTER	130 HP	0.18 HR		\$1.36	\$1.71	\$1.48	\$2.33	\$6.88	
PRE-IRRIGATE		0.75 HR		\$4.84	\$8.65	\$0.72	\$3.22	\$17.43	
CULT & SPRAY	96 HP	0.26 HR		\$1.96	\$2.49	\$2.23	\$2.47	\$9.16	
PLANTER	130 HP	0.26 HR		\$1.96	\$2.47	\$3.36	\$5.71	\$13.50	
CULTIVATOR (3X)	96 HP	0.63 HR		\$4.76	\$6.04	\$3.83	\$3.08	\$17.71	
HAND HOE (CUSTOM)			\$20.00					\$20.00	
DITCHER (2X)	130 HP	0.10 HR		\$0.76	\$0.95	\$0.73	\$1.08	\$3.51	
IRRIGATE (3X)		1.50 HR		\$9.68	\$25.96	\$2.16	\$9.65	\$47.44	
SUBTOTAL			4.49 HR	\$20.00	\$31.42	\$57.41	\$21.68	\$41.42	\$171.95
HARVEST OPERATIONS									
COTTON STRIPPER	96 HP	1.24 HR		\$9.36	\$11.76	\$13.75	\$22.36	\$57.23	
HAUL	130 HP	1.50 HR		\$11.33	\$14.39	\$8.21	\$12.90	\$46.83	
GIN COTTON (CUSTOM)			\$190.89					\$190.89	
SUBTOTAL			2.74 HR	\$190.89	\$20.69	\$26.15	\$21.96	\$35.27	\$294.95
POSTHARVEST OPERATIONS									
SHREDDER	130 HP	0.14 HR		\$1.06	\$1.33	\$1.11	\$4.19	\$7.69	
SUBTOTAL			0.14 HR	\$1.06	\$1.33	\$1.11	\$4.19	\$7.69	
OVERHEAD EXPENSES									
DOWNTIME		1.28 HR		\$9.66					\$9.66
EMPLOYEE BENEFITS				\$9.57					\$9.57
INSURANCE			\$1.06					\$1.06	
LAND TAXES							\$1.49	\$1.49	
SUPERVISION AND MANAGEMENT				\$54.78					\$54.78
OTHER EXPENSES			\$33.79					\$33.79	
SUBTOTAL			1.28 HR	\$34.85	\$74.02			\$1.49	\$110.36
TOTAL OPERATING EXPENSES		8.65 HR	\$351.10	\$127.18	\$84.89	\$44.76	\$82.37	\$690.30	
NET OPERATING PROFIT								\$24.30	
INTEREST ON OPERATING CAPITAL	(	76.66 @	8.00%)					\$6.13
INTEREST ON EQUIPMENT INVESTMENT								\$49.75	
RETURN TO LAND AND RISK								(\$31.58)	

* Pump water costs are shown under irrigation in the preharvest operations section.

BUDGET SUMMARY

GROSS RETURN		\$714.60	
VARIABLE OPERATING EXPENSES	\$480.74		
RETURN OVER VARIABLE EXPENSES	\$233.86		(GROSS MARGIN)
FIXED EXPENSES	\$82.37		
NET FARM INCOME		\$151.49	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$127.18		
NET OPERATING PROFIT		\$24.30	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$55.88		
RETURN TO LAND AND RISK		(\$31.58)	

TABLE 10. Corn silage, flood-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Roswell-Hagerman area, 2003.

Planting dates: April 1 - April 15

Harvesting dates: August 1 - August 31

ITEM	PRICE	YIELD						TOTAL	
GROSS RETURNS									
CORN FOR SILAGE	\$21.00	STANDING	24	TONS					\$504.00
TOTAL								\$504.00	
PURCHASED INPUTS									
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUT						TOTAL
SEED	\$1.12	32	000		\$35.90				\$35.90
NITROGEN (N)	\$0.36	200	LBS		\$72.00				\$72.00
INSECTICIDE (CUSTOM) 2X	\$44.42	1	ACRE		\$44.42				\$44.42
CROP INSURANCE		400	DOLLARS		\$20.00				\$20.00
PUMP WATER*		48	AC. IN.						
SUBTOTAL					\$172.32				\$172.32
PREHARVEST OPERATIONS									
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
DISC	145 HP	0.17 HR		\$1.28	\$2.00	\$1.70	\$3.74	\$8.72	
PLOW	145 HP	0.48 HR		\$3.62	\$5.64	\$4.29	\$8.93	\$22.48	
FLOAT	130 HP	0.16 HR		\$1.21	\$1.52	\$1.18	\$1.22	\$5.13	
FERTILIZE	DEALER APPLIED								
LISTER	130 HP	0.18 HR		\$1.36	\$1.71	\$1.48	\$2.33	\$6.88	
PRE-IRRIGATE		0.75 HR		\$4.84	\$9.89	\$0.82	\$3.67	\$19.22	
CULT & SPRAY	96 HP	0.26 HR		\$1.96	\$2.49	\$2.23	\$2.47	\$9.16	
PLANTER	130 HP	0.26 HR		\$1.96	\$2.47	\$3.36	\$5.71	\$13.50	
CULTIVATOR (2X)	96 HP	0.42 HR		\$3.17	\$4.03	\$2.55	\$2.05	\$11.81	
DITCHER (2X)	130 HP	0.10 HR		\$0.76	\$0.95	\$0.73	\$1.08	\$3.51	
IRRIGATE (5X)		2.50 HR		\$16.13	\$49.44	\$4.12	\$18.37	\$88.06	
SUBTOTAL		5.28 HR		\$36.29	\$80.12	\$22.47	\$49.58	\$188.46	
OVERHEAD EXPENSES									
DOWNTIME		0.51 HR		\$2.54				\$2.54	
EMPLOYEE BENEFITS				\$6.53				\$6.53	
INSURANCE				\$0.73				\$0.73	
LAND TAXES							\$1.49	\$1.49	
SUPERVISION AND MANAGEMENT				\$39.50				\$39.50	
OTHER EXPENSES				\$33.79				\$33.79	
SUBTOTAL		0.51 HR		\$34.51	\$48.56		\$1.49	\$84.57	
TOTAL OPERATING EXPENSES		5.79 HR		\$206.83	\$84.85	\$80.12	\$22.47	\$51.08	\$445.34
NET OPERATING PROFIT								\$58.66	
INTEREST ON OPERATING CAPITAL	(	111.80	@	8.00%	)			\$8.94
INTEREST ON EQUIPMENT INVESTMENT								\$24.67	
RETURN TO LAND AND RISK								\$25.04	

* Pump water costs are shown under irrigation in the preharvest operations section.

BUDGET SUMMARY

GROSS RETURN		\$504.00	
VARIABLE OPERATING EXPENSES	\$309.41		
RETURN OVER VARIABLE EXPENSES		\$194.59	(GROSS MARGIN)
FIXED EXPENSES	\$51.08		
NET FARM INCOME		\$143.51	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$84.85		
NET OPERATING PROFIT		\$58.66	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$33.61		
RETURN TO LAND AND RISK		\$25.04	

TABLE 11. Summary of per acre costs and returns for a 640 acre farm with above average management, Roswell-Hagerman area, Chaves County, 2002.

	ALFALFA ESTABLISHMENT	ALFALFA HAY	WHEAT	OAT HAY	PICKER COTTON	STRIPPER COTTON	CORN SILAGE
				-----FLOOD-----			
		TONS	CWT	TONS	LBS	LBS	TONS
PRIMARY YIELD		7.00	30.00	5.00	900.00	900.00	24.00
PRIMARY PRICE		140.00	140.00	130.00	0.52	0.47	21.00
GOVERNMENT PAYMENTS		0.00	26.10	0.00	138.60	183.60	0.00
SECOND INCOME		0.00	44.00	0.00	108.00	108.00	0.00
GROSS RETURN		\$980.00	\$242.60	\$650.00	\$714.60	\$714.60	\$504.00
CASH OPERATING EXPENSES							
SEED	\$90.00		\$11.00	\$32.00	\$11.20	\$12.75	\$35.90
FERTILIZER		\$40.00	\$70.50	\$30.60	\$24.72	\$24.72	\$72.00
CHEMICALS	\$13.38	\$72.59	\$19.17		\$69.99	\$66.91	\$44.42
CROP INSURANCE			\$0.98		\$0.98	\$0.98	\$20.00
OTHER PURCHASED INPUTS		\$5.65					
CANAL WATER							
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$21.13	\$14.97	\$12.59	\$12.21	\$43.48	\$50.28	\$20.79
FUEL-IRRIGATION	\$19.78	\$66.74	\$34.61	\$25.96	\$34.61	\$34.61	\$59.33
REPAIRS	\$17.24	\$18.24	\$13.17	\$10.62	\$64.86	\$44.76	\$22.47
CUSTOM CHARGES			\$29.94		\$168.32	\$210.89	
LAND TAXES		\$1.49	\$1.49	\$1.49	\$1.49	\$1.49	\$1.49
OTHER EXPENSES	\$0.40	\$34.46	\$34.21	\$34.19	\$34.77	\$34.85	\$34.51
TOTAL CASH EXPENSES	\$161.92	\$254.15	\$227.67	\$147.07	\$454.42	\$482.23	\$310.90
RETURN OVER CASH EXPENSES	(\$161.92)	\$725.85	\$14.93	\$502.93	\$260.18	\$232.37	\$193.10
FIXED EXPENSES	\$39.91	\$133.63	\$33.30	\$36.81	\$178.14	\$80.88	\$49.58
TOTAL EXPENSES	\$201.83	\$387.77	\$260.97	\$183.88	\$632.56	\$563.11	\$360.49
NET FARM INCOME	(\$201.83)	\$592.23	(\$18.37)	\$466.12	\$82.04	\$151.49	\$143.51
LABOR AND MANAGEMENT COSTS	\$44.16	\$115.90	\$46.92	\$74.32	\$121.54	\$127.18	\$84.85
NET OPERATING PROFIT	(\$245.99)	\$476.33	(\$65.29)	\$391.80	(\$39.49)	\$24.30	\$58.66
CAPITAL COSTS							
INTEREST ON OPERATING CAPITAL		\$6.36	\$5.47	\$3.37	\$6.28	\$6.13	\$8.94
INTEREST ON EQUIPMENT INVESTMENT		\$37.13	\$15.61	\$17.81	\$17.81	\$49.75	\$24.67
TOTAL CAPITAL COSTS	\$0.00	\$43.49	\$21.09	\$21.18	\$24.10	\$55.88	\$33.61
RETURN TO LAND AND RISK	(\$245.99)	\$432.84	(\$86.38)	\$370.62	(\$63.59)	(\$31.58)	\$25.04

TABLE 12. Whole farm summary, Roswell-Hagerman area, Chaves County, 2002.

GROSS RETURNS		
ALFALFA HAY	300 ACRES	
CROP		\$294,000
WHEAT	51 ACRES	
CROP		\$8,798
GRAZING		\$2,244
DIRECT PAYMENT		\$1,331
COUNTER CYCLICAL PAYMENT		\$0
SMALL GRAINS	87 ACRES	
CROP		\$56,550
UPLAND COTTON (PICKER)	51 ACRES	
COTTON LINT		\$23,868
COTTON SEED		\$5,508
DIRECT PAYMENT		\$1,441
COUNTER CYCLICAL PAYMENT		\$4,007
UPLAND COTTON (STRIPPER)	51 ACRES	
COTTON LINT		\$21,573
COTTON SEED		\$5,508
DIRECT PAYMENT		\$3,062
COUNTER CYCLICAL PAYMENT		\$6,302
CORN	60 ACRES	
CROP		\$30,240
GROSS RETURN		<u>\$464,431</u>
CASH OPERATING EXPENSES		
SEED		\$12,120
FERTILIZER		\$25,099
CHEMICALS		
CROP INSURANCE		\$1,350
OTHER PURCHASED INPUTS		\$1,696
CANAL WATER		\$0
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$13,492
FUEL-IRRIGATION		\$32,323
REPAIRS		\$15,041
CUSTOM CHARGES		\$20,867
LAND TAXES		\$895
OTHER EXPENSES		\$20,703
TOTAL CASH EXPENSES		<u>\$143,585</u>
RETURN OVER CASH EXPENSES		\$320,846
FIXED EXPENSES		\$48,809
TOTAL EXPENSES		\$192,394
NET FARM INCOME		\$272,037
LABOR AND MANAGEMENT COSTS		\$64,053
NET OPERATING PROFIT		\$207,984
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$3,650
INTEREST ON EQUIPMENT INVESTMENT		\$18,412
TOTAL CAPITAL COSTS		<u>\$22,062</u>
RETURN TO LAND AND RISK		<u>\$185,922</u>

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$1,000 /ACRE	\$160,322	21.41%
\$3,000 /ACRE	\$109,122	9.24%
\$5,000 /ACRE	\$57,922	5.89%
\$7,000 /ACRE	6,722	4.32%
\$9,000 /ACRE	(44,478)	3.41%

* RETURN TO LAND AND RISK MINUS (INTEREST RATE TIMES LAND VALUE TIMES ACREAGE)

** NET OPERATING PROFIT DIVIDED BY (MACHINERY AND EQUIPMENT VALUE PLUS LAND VALUE)