

TABLE 1. Acreage Summary, Chaves County, Roswell-Hagermand Area, Acutal 2023

BUDGET AREA..... ROSWELL-HAGERMAN AREA, CHAVES COUNTY			
FARM SIZE.....	320	ACRES	
IRRIGATION TYPE.....	SPRINKLER		
NUMBER OF CROPS.....	5		
		WATER USE	
ACREAGE SUMMARY:	LAND USE (ACRES)	AC.IN. PER AC.	TOTAL AC.IN.
ALFALFA ESTABLISHMENT	35.00 *	16	560
ALFALFA	175.00	54	9,450
WHEAT	25.50	28	714
ARP	0.00		
FLEX IN OAT HAY	4.50	28	126
OAT HAY	25.00	21	525
PICKER COTTON	34.00	28	952
ARP	0.00		
FLEX IN OAT HAY	6.00	28	168
STRIPPER COTTON	34.00	28	952
ARP	0.00		
FLEX IN OAT HAY	6.00	28	168
ROADS, DITCHES, HOMESTEAD	10.00		
	<u>TOTAL</u>		<u>13,615</u>
	ACRE FEET PER ACRE OF WATER RIGHTS		3.55

* DOUBLE-CROPPED

TABLE 2. Basic cost information for the Roswell-Hagerman area, Chaves County, Acutal 2023

Item		
Labor Wage Rate:		
Equipment operators	\$/hour	\$20.00
General & Irrigators	\$/hour	\$16.60
Purchased Inputs:		
Fertilizer:		
Nitrogen (N)	\$/pound	\$0.83
Phosphate (P205)	\$/pound	\$2.00
Seed:		
Alfalfa	\$/pound	\$4.50
Cotton picker	\$/pound	\$7.10
stripper	\$/pound	\$7.10
Oat Hay	\$/pound	\$0.56
Wheat	\$/pound	\$0.50
Plastic Twine:	\$/box	\$0.72
Natural gas	\$/MCF	\$2.71
Diesel fuel	\$/gallon	\$4.33
Gasoline	\$/gallon	\$2.99
Electricity	cents/KwHr	\$9.79
LP Gas	\$/gallon	\$2.45
Employee Liability Insurance	\$/wages	\$20.00
Employee Benefits	percent/wages	18.00%
Labor Downtime	percent	25.00%
Financial Rates:		
Operating Capital Interest Rate	percent	7.25%
Land Interest Rate	percent	9.15%
Equipment Interest Rate	percent	8.25%
Real Interest Rate	percent	4.25%
Land Taxes	\$185.00 /acre (full value)	\$1.68
Personal Property Tax Rate - NR	\$/1,000 (Assessed Value)	\$27.30
- R		\$22.05
Supervision Factors		
Field Crop-Irrigation	\$/labor hour	\$1.00
Field Crop-Equipment & General	\$/labor hour	\$0.50
Management Rate	percent	7.00%

TABLE 3. Overhead cost information for Roswell-Hagerman area, Chaves County, Acutal 2023

Item		
Electricity (Domestic & Shop)	\$243.20	per month \$2,918
Telephone	\$121.60	per month \$1,459
Accounting & Legal		\$1,798
Misc. Supplies & Hand Tools		\$2,714
Pickup and Auto		
miles	25,600	@ \$0.665 per mile \$17,024
Insurance		
- general liability (non-employee)		\$1,946
- fire/theft		\$1,542
Property Taxes		
- non-planted land		\$0
- other than land & machinery		\$0
Building repairs and maintenance		\$1,478
Dues, fees, publications		\$448
Farmstead Equipment		\$192
		<u>Total</u> <u>\$31,520</u>
	Total Per Planted Acre	\$101.68

TABLE 6. Alfalfa establishment, sprinkler-irrigated, budgeted per acre costs and returns for a 320 acre farm with above average management, Roswell-Hagerman area, Acutal 2023
Planting dates: September 1 - September 31

ITEM	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL	
PURCHASED INPUTS									
SEED	\$4.50	30 LBS		\$135.00				\$135.00	
INSECTICIDE (CUSTOM)	\$8.77	1 ACRE		\$8.77				\$8.77	
PUMP WATER*		16 AC. IN.							
SUBTOTAL				\$143.77				\$143.77	
PREHARVEST OPERATIONS									
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
DISC	145 HP	0.17 HR		\$3.40	\$6.07	\$1.89	\$5.59	\$16.95	
PLOW	145 HP	0.48 HR		\$9.60	\$17.14	\$4.94	\$13.69	\$45.37	
DISC (2X)	145 HP	0.34 HR		\$6.80	\$12.14	\$3.77	\$11.19	\$33.90	
DRILL	96 HP	0.21 HR		\$4.20	\$3.82	\$0.41	\$4.97	\$13.40	
DITCHER (2X)	130 HP	0.10 HR		\$2.00	\$3.57	\$0.40	\$4.07	\$10.05	
IRRIGATE (2X)		0.50 HR		\$8.30	\$76.12	\$0.66	\$6.02	\$91.10	
SUBTOTAL		1.80 HR		\$34.30	\$118.88	\$12.05	\$45.52	\$210.76	
OVERHEAD EXPENSES									
DOWNTIME		0.33 HR		\$6.50				\$6.50	
EMPLOYEE BENEFITS				\$6.17				\$6.17	
INSURANCE				\$0.69				\$0.69	
SUPERVISION AND MANAGEMENT				\$25.92				\$25.92	
SUBTOTAL		0.33 HR		\$0.69	\$38.59			\$39.28	
TOTAL OPERATING EXPENSES			2.13 HR	\$144.45	\$72.89	\$118.88	\$12.05	\$45.52	\$393.80

TABLE 7. Alfalfa hay, sprinkler-irrigated, budgeted per acre costs and returns for a 320 acre farm with above average management, Roswell-Hagerman area, Acutal 2023
Harvesting dates: May 20 - October 15

ITEM	PRICE	YIELD						TOTAL	
GROSS RETURNS									
ALFALFA HAY	\$301.00	5.80 TONS (DELIVERED)						\$1,745.80	
TOTAL								\$1,745.80	
PURCHASED INPUTS		PRICE	QUANTITY	PURCHASED INPUTS		FIXED COST	TOTAL		
FERTILIZER (10-26-10)	\$0.43	200 LBS	\$86.00				\$86.00		
INSECTICIDE (CUSTOM)	\$19.52	2 X/ACRE	\$39.04				\$39.04		
HERBICIDE (CUSTOM)	\$26.09	1 X/ACRE	\$26.09				\$26.09		
PLASTIC TWINE	\$0.72	170 FT/TON	\$0.18				\$0.18		
ESTABLISHMENT: Principal		5 YEARS				\$78.76	\$78.76		
: Interest						\$15.86	\$15.86		
PUMP WATER*		54 AC. IN.							
SUBTOTAL			\$151.30			\$94.62	\$245.92		
PREHARVEST OPERATIONS		POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
IRRIGATE (6X)			1.50 HR		\$24.90	\$256.92	\$2.21	\$20.31	\$304.34
SUBTOTAL			1.50 HR		\$24.90	\$256.92	\$2.21	\$20.31	\$304.34
HARVEST OPERATIONS									
SWATHER (5X)	16 FT	0.55 HR		\$11.00	\$8.92	\$0.76	\$20.06	\$40.73	
RAKE (5X)	96 HP	0.25 HR		\$5.00	\$4.55	\$0.46	\$2.69	\$12.71	
BALER (5X)	145 HP	0.35 HR		\$7.00	\$12.50	\$1.92	\$35.73	\$57.15	
FRONT END LOADER (5X)	130 HP	0.25 HR		\$5.00	\$8.93	\$1.78	\$9.08	\$24.79	
HAUL	SEMI	0.50 HR		\$10.00	\$11.37	\$1.30	\$15.69	\$38.36	
SUBTOTAL		1.90 HR		\$38.00	\$46.27	\$6.22	\$83.26	\$173.74	
OVERHEAD EXPENSES									
DOWNTIME		0.48 HR		\$9.50				\$9.50	
EMPLOYEE BENEFITS				\$11.32				\$11.32	
INSURANCE				\$1.26				\$1.26	
LAND TAXES							\$1.68	\$1.68	
SUPERVISION AND MANAGEMENT				\$124.66				\$124.66	
OTHER EXPENSES				\$101.68				\$101.68	
SUBTOTAL		0.48 HR		\$102.94	\$145.48		\$1.68	\$250.10	
TOTAL OPERATING EXPENSES		3.88 HR		\$254.24	\$208.38	\$303.18	\$8.43	\$199.87	\$974.10
NET OPERATING PROFIT									\$771.70
INTEREST ON OPERATING CAPITAL		(\$144.81 @ 7.25%)							\$10.50
INTEREST ON EQUIPMENT INVESTMENT									\$61.61
RETURN TO LAND AND RISK									\$699.59

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

BUDGET SUMMARY

GROSS RETURN		\$1,745.80	
VARIABLE OPERATING EXPENSES	\$565.85		
RETURN OVER VARIABLE EXPENSES	\$1,179.95		(GROSS MARGIN)
FIXED EXPENSES	\$199.87		
NET FARM INCOME	\$980.08		(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$208.38		
NET OPERATING PROFIT	\$771.70		(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$72.11		
RETURN TO LAND AND RISK		\$699.59	

TABLE 8. Wheat, sprinkler-irrigated, budgeted per acre costs and returns for a 320 acre farm with above average management, Roswell-Hagerman area, Acutal 2023
 Planting dates: August 15 - November 1
 Harvesting dates: June 15 - July 1

ITEM	PRICE	YIELD	BASE					TOTAL
GROSS RETURNS								
WHEAT	\$9.30	40.00 CWT						\$372.00
PROGRAM PAYMENT	\$0.00	40.00 CWT	0.85					\$0.00
PLC PAYMENT	\$0.00							\$0.00
GRAZING	\$44.00	1.00 ACRE						\$44.00
TOTAL								\$416.00
PURCHASED INPUTS								
	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
SEED	\$2.45	100.00 LBS	\$245.00					\$245.00
NITROGEN (N)	\$0.83	150.00 LBS	\$124.50					\$124.50
PHOSPHATE (P205)	\$2.00	50.00 LBS	\$100.00					\$100.00
INSECTICIDE (CUSTOM)	\$18.62	1.00 ACRE	\$18.62					\$18.62
PUMP WATER*		28.00 AC. IN.						
CROP INSURANCE	\$1.96		\$1.96					\$1.96
SUBTOTAL			\$490.08					\$490.08
PREHARVEST OPERATIONS								
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PLOW	145 HP	0.48 HR		\$9.60	\$17.14	\$4.94	\$13.69	\$45.37
DISC (2X)	145 HP	0.28 HR		\$5.60	\$10.00	\$3.10	\$9.21	\$27.92
FERTILIZE	DEALER APPLIED							
DRILL	96 HP	0.21 HR		\$4.20	\$3.82	\$0.41	\$4.97	\$13.40
DITCHER (2X)	130 HP	0.10 HR		\$2.00	\$3.57	\$0.40	\$4.07	\$10.05
IRRIGATE (4X)		1.00 HR		\$16.60	\$133.22	\$1.15	\$10.53	\$161.50
SUBTOTAL		2.07 HR		\$38.00	\$167.76	\$9.99	\$42.47	\$258.22
HARVEST OPERATIONS								
COMBINE (CUSTOM)			\$14.18					\$14.18
HAUL (CUSTOM)			\$8.00					\$8.00
COMBINE & HAUL (CUSTOM)			\$22.18					\$22.18
OVERHEAD EXPENSES								
DOWNTIME		0.27 HR		\$5.35				\$5.35
EMPLOYEE BENEFITS				\$6.84				\$6.84
INSURANCE			\$0.76					\$0.76
LAND TAXES							\$1.68	\$1.68
SUPERVISION AND MANAGEMENT				\$30.61				\$30.61
OTHER EXPENSES			\$101.68					\$101.68
SUBTOTAL		0.27 HR	\$102.44	\$42.80			\$1.68	\$146.92
TOTAL OPERATING EXPENSES		2.34 HR	\$614.70	\$80.80	\$167.76	\$9.99	\$44.15	\$917.40
NET OPERATING PROFIT								(\$501.40)
INTEREST ON OPERATING CAPITAL		(\$291.33 @	7.25%)				\$21.12
INTEREST ON EQUIPMENT INVESTMENT								\$27.43
RETURN TO LAND AND RISK								(\$549.95)

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

BUDGET SUMMARY

GROSS RETURN		\$416.00	
VARIABLE OPERATING EXPENSES	\$792.45		
RETURN OVER VARIABLE EXPENSES		(\$376.45)	(GROSS MARGIN)
FIXED EXPENSES	\$44.15		
NET FARM INCOME		(\$420.61)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$80.80		
NET OPERATING PROFIT		(\$501.40)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$48.55		
RETURN TO LAND AND RISK		(\$549.95)	

TABLE 9. Oat hay, sprinkler-irrigated, budgeted per acre costs and returns for a 320 acre farm with above average management, Roswell-Hagerman area, Acutal 2023
 Planting dates: February 15 - April 1
 Harvesting dates: June 15 - July 1

ITEM	PRICE	YIELD						TOTAL
GROSS RETURNS								
OAT HAY	\$245.00	5.0 TONS (DELIVERED)						\$1,225.00
TOTAL								\$1,225.00
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS		FIXED COST			TOTAL
SEED	\$0.56	80 LBS	\$44.80					\$44.80
NITROGEN (N)	\$0.83	85 LBS	\$70.55					\$70.55
PUMP WATER*		21 AC. IN.						
SUBTOTAL			\$115.35					\$115.35
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC (2X)	145 HP	0.34 HR		\$6.80	\$12.14	\$3.77	\$11.19	\$33.90
DRILL	96 HP	0.21 HR		\$4.20	\$3.82	\$0.41	\$4.97	\$13.40
DITCHER (2X)	130 HP	0.10 HR		\$2.00	\$3.57	\$0.40	\$4.07	\$10.05
IRRIGATE (4X)		1.00 HR		\$16.60	\$99.91	\$0.86	\$7.90	\$125.27
SUBTOTAL		1.65 HR		\$29.60	\$119.45	\$5.44	\$28.13	\$182.62
HARVEST OPERATIONS								
SWATHER	14 FT	0.16 HR		\$3.20	\$2.59	\$0.22	\$5.84	\$11.85
RAKE	96 HP	0.05 HR		\$1.00	\$0.91	\$0.09	\$0.54	\$2.54
BALER	145 HP	0.05 HR		\$1.00	\$1.79	\$0.27	\$5.10	\$8.16
FRONT END LOADER	130 HP	0.05 HR		\$1.00	\$1.79	\$0.36	\$1.82	\$4.96
HAUL	SEMI	0.50 HR		\$10.00	\$11.37	\$1.30	\$15.69	\$38.36
SUBTOTAL		0.81 HR		\$16.20	\$18.44	\$2.24	\$28.99	\$65.87
OVERHEAD EXPENSES								
DOWNTIME		0.37 HR		\$7.30				\$7.30
EMPLOYEE BENEFITS				\$8.24				\$8.24
INSURANCE			\$0.92					\$0.92
LAND TAXES							\$1.68	\$1.68
SUPERVISION AND MANAGEMENT				\$87.43				\$87.43
OTHER EXPENSES			\$101.68					\$101.68
SUBTOTAL		0.37 HR		\$102.59	\$102.97		\$1.68	\$207.25
TOTAL OPERATING EXPENSES		2.83 HR		\$217.94	\$148.77	\$137.89	\$7.68	\$571.09
NET OPERATING PROFIT								\$653.91
INTEREST ON OPERATING CAPITAL		(\$90.62 @ 7.25%)						\$6.57
INTEREST ON EQUIPMENT INVESTMENT								\$32.35
RETURN TO LAND AND RISK								\$614.98

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

GROSS RETURN		\$1,225.00	
VARIABLE OPERATING EXPENSES	\$363.52		
RETURN OVER VARIABLE EXPENSES		\$861.48	(GROSS MARGIN)
FIXED EXPENSES	\$58.80		
NET FARM INCOME		\$802.68	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$148.77		
NET OPERATING PROFIT		\$653.91	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$38.92		
RETURN TO LAND AND RISK		\$614.98	

TABLE 10. Upland cotton (picker), sprinkler-irrigated, budgeted per acre costs and returns for a 320 acre farm with above average management, Roswell-Hagerman area, Acutal 2023
 Planting dates: April 15 - June 1
 Harvesting dates: October 1 - December 31

ITEM	PRICE	YIELD	BASE	TOTAL
GROSS RETURNS				
COTTON LINT	\$0.93	750 LBS		\$697.50
COTTON SEED	\$0.08	1,200 LBS		\$100.80
PROGRAM PAYMENT	\$0.0000	750 LBS	0.85	\$0.00
PLC PAYMENT	\$0.3670	750 LBS	0.85	\$233.96
TOTAL				\$1,032.26

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$7.10	20 LBS	\$142.00		\$142.00
NITROGEN (N)	\$0.83	32 LBS	\$26.56		\$26.56
PHOSPHATE (P205)	\$2.00	40 LBS	\$80.00		\$80.00
HERBICIDE	\$15.41	1 ACRE	\$15.41		\$15.41
HERBICIDE (CUSTOM)	\$15.68	1 ACRE	\$15.68		\$15.68
INSECTICIDE (CUSTOM)	\$19.52	2 X/ACRE	\$39.04		\$39.04
CROP INSURANCE			\$1.47		\$1.47
PUMP WATER*		28 AC. IN.			
SUBTOTAL			\$320.16		\$320.16

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	145 HP	0.17 HR		\$3.40	\$6.07	\$1.89	\$5.59	\$16.95
PLOW	145 HP	0.48 HR		\$9.60	\$17.14	\$4.94	\$13.69	\$45.37
FLOAT	130 HP	0.16 HR		\$3.20	\$5.71	\$0.64	\$5.78	\$15.34
FERTILIZE	DEALER APPLIED							
LISTER	130 HP	0.18 HR		\$3.60	\$6.43	\$1.07	\$8.80	\$19.90
PRE-IRRIGATE		0.25 HR		\$4.15	\$33.30	\$0.29	\$2.63	\$40.37
CULT & SPRAY	96 HP	0.26 HR		\$5.20	\$4.73	\$1.05	\$4.80	\$15.78
PLANTER	130 HP	0.26 HR		\$5.20	\$9.29	\$1.45	\$18.32	\$34.26
CULTIVATOR (3X)	96 HP	0.63 HR		\$12.60	\$11.47	\$2.13	\$4.65	\$30.85
HAND HOE (CUSTOM)			\$20.00					\$20.00
DITCHER (2X)	130 HP	0.10 HR		\$2.00	\$3.57	\$0.40	\$4.07	\$10.05
IRRIGATE (3X)		0.75 HR		\$12.45	\$99.91	\$0.86	\$7.90	\$121.12
SUBTOTAL		3.24 HR	\$20.00	\$61.40	\$197.64	\$14.71	\$76.23	\$369.98

HARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
COTTON PICKER (2X)	2-ROW	1.24 HR		\$24.80	\$32.47	\$7.49	\$158.10	\$222.86
HAUL (2X)	65 HP	1.00 HR		\$20.00	\$18.21	\$0.95	\$8.83	\$47.98
GIN COTTON (CUSTOM)			\$123.60					\$123.60
SUBTOTAL		2.24 HR	\$123.60	\$44.80	\$50.68	\$8.43	\$166.93	\$394.44

POSTHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
SHREDDER	96 HP	0.14 HR		\$2.80	\$5.00	\$0.61	\$9.47	\$17.88
SUBTOTAL		0.14 HR		\$2.80	\$5.00	\$0.61	\$9.47	\$17.88

OVERHEAD EXPENSES	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME	1.16 HR		\$23.10				\$23.10
EMPLOYEE BENEFITS			\$19.62				\$19.62
INSURANCE		\$2.18					\$2.18
LAND TAXES						\$1.68	\$1.68
SUPERVISION AND MANAGEMENT			\$75.52				\$75.52
OTHER EXPENSES		\$101.68					\$101.68
SUBTOTAL	1.16 HR	\$103.86	\$118.24			\$1.68	\$223.78

TOTAL OPERATING EXPENSES 6.78 HR \$567.62 \$227.24 \$253.32 \$23.75 \$254.32 \$1,326.25

NET OPERATING PROFIT (\$293.99)

INTEREST ON OPERATING CAPITAL (\$219.50 @ 7.25%) \$15.91
 INTEREST ON EQUIPMENT INVESTMENT \$32.35

RETURN TO LAND AND RISK (\$342.25)

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

GROSS RETURN		\$1,032.26	
VARIABLE OPERATING EXPENSES	\$844.69		
RETURN OVER VARIABLE EXPENSES	\$187.57	(GROSS MARGIN)	
FIXED EXPENSES	\$254.32		
NET FARM INCOME	(\$66.75)	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$227.24		
NET OPERATING PROFIT	(\$293.99)	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$48.27		
RETURN TO LAND AND RISK	(\$342.25)		

TABLE 11. Upland cotton (stripper), sprinkler-irrigated, budgeted per acre costs and returns for a 320 acre farm with above average management, Roswell-Hagerman area, Acutal 2023
 Planting dates: April 15 - June 1
 Harvesting dates: October 1 - December 31

ITEM	PRICE	YIELD	BASE	TOTAL
GROSS RETURNS				
COTTON LINT	\$0.93	750 LBS		\$697.50
COTTON SEED	\$0.08	1,200 LBS		\$100.80
PROGRAM PAYMENT	\$0.0000	750 LBS	0.85	\$0.00
PLC PAYMENT	\$0.3670	750 LBS	0.85	\$233.96
TOTAL				\$1,032.26

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$7.10	25 LBS	\$177.50		\$177.50
NITROGEN (N)	\$0.83	32 LBS	\$26.56		\$26.56
PHOSPHORUS (P205)	\$2.00	40 LBS	\$80.00		\$80.00
HERBICIDE	\$15.41	1 ACRE	\$15.41		\$15.41
HERBICIDE (CUSTOM)	\$15.68	1 ACRE	\$15.68		\$15.68
INSECTICIDE (CUSTOM)	\$14.86	2 X/ACRE	\$29.72		\$29.72
CROP INSURANCE			\$1.47		\$1.47
PUMP WATER*		28 AC. IN.			
SUBTOTAL			\$346.34		\$346.34

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	145 HP	0.17 HR		\$3.40	\$6.07	\$1.89	\$5.59	\$16.95
PLOW	145 HP	0.48 HR		\$9.60	\$17.14	\$4.94	\$13.69	\$45.37
FLOAT	130 HP	0.16 HR		\$3.20	\$5.71	\$0.64	\$5.78	\$15.34
FERTILIZE	DEALER APPLIED							
LISTER	130 HP	0.18 HR		\$3.60	\$6.43	\$1.07	\$8.80	\$19.90
PRE-IRRIGATE		0.25 HR		\$4.15	\$33.30	\$0.29	\$2.63	\$40.37
CULT & SPRAY	96 HP	0.26 HR		\$5.20	\$4.73	\$1.05	\$4.80	\$15.78
PLANTER	130 HP	0.26 HR		\$5.20	\$9.29	\$1.45	\$18.32	\$34.26
CULTIVATOR (3X)	96 HP	0.63 HR		\$12.60	\$11.47	\$2.13	\$4.65	\$30.85
HAND HOE (CUSTOM)			\$20.00					\$20.00
DITCHER (2X)	130 HP	0.10 HR		\$2.00	\$3.57	\$0.40	\$4.07	\$10.05
IRRIGATE (3X)		0.75 HR		\$12.45	\$99.91	\$0.86	\$7.90	\$121.12
SUBTOTAL		3.24 HR	\$20.00	\$61.40	\$197.64	\$14.71	\$76.23	\$369.98

HARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
COTTON STRIPPER	130 HP	1.24 HR		\$24.80	\$44.29	\$6.05	\$61.61	\$136.75
HAUL	96 HP	1.50 HR		\$30.00	\$27.31	\$1.42	\$13.24	\$71.97
GIN COTTON (CUSTOM)			\$159.08					\$159.08
SUBTOTAL		2.74 HR	\$159.08	\$54.80	\$71.60	\$7.47	\$74.85	\$367.80

POSTHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
SHREDDER	96 HP	0.14 HR		\$2.80	\$5.00	\$0.61	\$9.47	\$17.88
SUBTOTAL		0.14 HR		\$2.80	\$5.00	\$0.61	\$9.47	\$17.88

OVERHEAD EXPENSES	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME	1.28 HR		\$25.60				\$25.60
EMPLOYEE BENEFITS			\$21.42				\$21.42
INSURANCE		\$2.38					\$2.38
LAND TAXES						\$1.68	\$1.68
SUPERVISION AND MANAGEMENT			\$75.77				\$75.77
OTHER EXPENSES		\$101.68					\$101.68
SUBTOTAL	1.28 HR	\$104.06	\$122.79			\$1.68	\$228.53

TOTAL OPERATING EXPENSES 7.40 HR \$629.48 \$241.79 \$274.24 \$22.79 \$162.24 \$1,330.53

NET OPERATING PROFIT (\$298.27)

INTEREST ON OPERATING CAPITAL (\$234.25 @ 7.25%) \$16.98
 INTEREST ON EQUIPMENT INVESTMENT \$93.43

RETURN TO LAND AND RISK (\$408.68)

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

GROSS RETURN		\$1,032.26	
VARIABLE OPERATING EXPENSES	\$926.51		
RETURN OVER VARIABLE EXPENSES		\$105.76	(GROSS MARGIN)
FIXED EXPENSES	\$162.24		
NET FARM INCOME		(\$56.48)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$241.79		
NET OPERATING PROFIT		(\$298.27)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$110.41		
RETURN TO LAND AND RISK		(\$408.68)	

TABLE 12. Summary of per acre costs and returns for a 320 acre farm with above average management, Roswell-Hagerman area, Chaves County, Acutal 2023

	ALFALFA ESTABLISHMENT	ALFALFA HAY	WHEAT	OAT HAY	PICKER COTTON	STRIPPER COTTON
		TONS	CWT	TONS	LBS	LBS
PRIMARY YIELD		5.80	40.00	5.00	750.00	750.00
PRIMARY PRICE		\$301.00	\$9.30	\$245.00	\$0.93	\$0.93
GOVERNMENT PAYMENTS		\$0.00	\$0.00	\$0.00	\$233.96	\$233.96
SECOND INCOME		\$0.00	\$44.00	\$0.00	\$100.80	\$100.80
GROSS RETURN		\$1,745.80	\$416.00	\$1,225.00	\$1,032.26	\$1,032.26
CASH OPERATING EXPENSES						
SEED	\$135.00		\$245.00	\$44.80	\$142.00	\$177.50
FERTILIZER	\$8.77	\$86.00	\$224.50	\$70.55	\$106.56	\$106.56
CHEMICALS		\$65.13	\$18.62		\$70.13	\$60.81
CROP INSURANCE			\$1.96		\$1.47	\$1.47
OTHER PURCHASED INPUTS		\$0.18				
CANAL WATER						
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$42.76	\$46.27	\$34.54	\$37.98	\$120.11	\$141.03
FUEL-IRRIGATION	\$76.12	\$256.92	\$133.22	\$99.91	\$133.22	\$133.22
REPAIRS	\$12.05	\$8.43	\$9.99	\$7.68	\$23.75	\$22.79
CUSTOM CHARGES			\$22.18		\$143.60	\$179.08
LAND TAXES		\$1.68	\$1.68	\$1.68	\$1.68	\$1.68
OTHER EXPENSES	\$0.69	\$102.94	\$102.44	\$102.59	\$103.86	\$104.06
TOTAL CASH EXPENSES	\$275.39	\$567.53	\$794.14	\$365.20	\$846.38	\$928.19
RETURN OVER CASH EXPENSES	(\$275.39)	\$1,178.27	(\$378.14)	\$859.80	\$185.89	\$104.07
FIXED EXPENSES	\$45.52	\$198.19	\$42.47	\$57.12	\$252.63	\$160.55
TOTAL EXPENSES	\$320.91	\$765.72	\$836.61	\$422.32	\$1,099.01	\$1,088.74
NET FARM INCOME	(\$320.91)	\$980.08	(\$420.61)	\$802.68	(\$66.75)	(\$56.48)
LABOR AND MANAGEMENT COSTS	\$72.89	\$208.38	\$80.80	\$148.77	\$227.24	\$241.79
NET OPERATING PROFIT	(\$393.80)	\$771.70	(\$501.40)	\$653.91	(\$293.99)	(\$298.27)
CAPITAL COSTS						
INTEREST ON OPERATING CAPITAL		\$10.50	\$21.12	\$6.57	\$15.91	\$16.98
INTEREST ON EQUIPMENT INVESTMENT		\$61.61	\$27.43	\$32.35	\$32.35	\$93.43
TOTAL CAPITAL COSTS	\$0.00	\$72.11	\$48.55	\$38.92	\$48.27	\$110.41
RETURN TO LAND AND RISK	(\$393.80)	\$699.59	(\$549.95)	\$614.98	(\$342.25)	(\$408.68)
Flex Computation			-480.05	704.46	-57.27	-154.70

TABLE 13. Whole farm summary, Roswell-Hagerman Area, Chaves County,
Acutal 2023

GROSS RETURNS		
ALFALFA HAY	175.00 ACRES	
CROP		\$305,515
WHEAT	25.50 ACRES	
CROP		\$9,486
GRAZING		\$1,122
PROGRAM PAYMENT		\$0
PLC PAYMENT		\$0
OAT HAY	41.50 ACRES	
CROP		\$50,838
UPLAND COTTON (PICKER)	34.00 ACRES	
COTTON LINT		\$23,715
COTTON SEED		\$3,427
PROGRAM PAYMENT		\$0
PLC PAYMENT		\$7,955
UPLAND COTTON (STRIPPER)	34.00 ACRES	
COTTON LINT		\$23,715
COTTON SEED		\$3,427
PROGRAM PAYMENT		\$0
PLC PAYMENT		\$7,955
GROSS RETURN		<u>\$437,154</u>
CASH OPERATING EXPENSES		
SEED		\$23,695
FERTILIZER		\$31,256
CHEMICALS		\$16,324
CROP INSURANCE		\$150
OTHER PURCHASED INPUTS		\$31
CANAL WATER		\$0
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$20,929
FUEL-IRRIGATION		\$64,227
REPAIRS		\$4,053
CUSTOM CHARGES		\$11,537
LAND TAXES		\$522
OTHER EXPENSES		\$31,977
TOTAL CASH EXPENSES		<u>\$204,699</u>
RETURN OVER CASH EXPENSES		\$232,456
FIXED EXPENSES		\$39,995
TOTAL EXPENSES		<u>\$244,694</u>
NET FARM INCOME		\$192,461
LABOR AND MANAGEMENT COSTS		\$63,199
NET OPERATING PROFIT		\$129,262
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$3,767
INTEREST ON EQUIPMENT INVESTMENT		\$17,100
TOTAL CAPITAL COSTS		<u>\$20,867</u>
RETURN TO LAND AND RISK		<u><u>\$108,395</u></u>

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$1,000 /ACRE	\$94,795	22.07%
\$3,000 /ACRE	\$67,595	10.55%
\$5,000 /ACRE	\$40,395	6.93%
\$7,000 /ACRE	\$13,195	5.16%
\$9,000 /ACRE	(\$14,005)	4.11%

* 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)