		WATE	RUSE
ACREAGE SUMMARY:	LAND USE (ACRES)	AC.IN. PER AC.	TOTAL AC.IN.
ALFALFA ESTABLISHMENT	52.00 *	8	416
ALFALFA	260.00	50	
BARLEY	17.00	28	13,000 476
ARP		28	476
	0.00		
FLEX IN PICKER COTTON	3.00	30	90
OAT HAY	20.00	28	560
PICKER COTTON	68.00	30	2,040
ARP	0.00		
FLEX IN PICKER COTTON	12.00	30	360
STRIPPER COTTON	68.00	30	2,040
ARP	0.00		
FLEX IN PICKER COTTON	12.00	30	360
RED CHILE	40.00	48	1,920
TOTAL	500.00		21,262
ACRE FEET PER ACRI	E OF WATER RIGHTS		3.54

\*DOUBLE-CROPPED

TABLE 2. Basic cost information for the Artesia-Lake Arthur area, Actual 2014

	Actual 2014				
lt	em				
Labor Wage	Rate:				
Equipmen	t operators		\$/hour		\$7.20
General 8	Irrigators		\$/hour		\$7.50
Purchased In	nputs:				
Fertilizer:					
	Nitrogen (N)		\$/pound		\$0.50
	Phosphate (P <sub>2</sub> 0 <sub>5</sub> )		\$/pound		\$0.40
Seed:					
	Alfalfa		\$/pound		\$6.00
	Cotton				
	picker		\$/pound		\$7.55
	stripper		\$/pound		\$7.55
	Barley		\$/pound		\$0.47
	Oats		\$/pound		\$0.38
	Red Chile		\$/pound		\$22.00
Wire:			\$/lb.		\$0.03
Natural ga	is		\$/MCF		\$4.00
(service	charge)		\$/month		\$10.00
Diesel fue	I .		\$/gallon		\$3.83
Gasoline			\$/gallon		\$2.55
Electricity			cents/KwHr		\$8.32
LP Gas			\$/gallon		\$2.75
Employee Li	ability Insurance		\$/\$1000 wag	jes	\$0.72
Employee B	enefits		percent/wag	es	18.00%
Labor Down	time		percent		25.00%
Financial Ra	tes:				
Operating (	Capital Interest Rate		percent		7.50%
Land Intere	st Rate		percent		Amount
Equipment	Interest Rate		percent		7.50%
Real Intere	st Rate		percent		7.00%
Land Taxes		\$250.00	/acre (full va	lue)	\$2.12
Personal Pro	perty Tax Rat - NR		\$/\$1,000	(Assessed	\$25.40
i cisonai i i	- R		ψ/ψ1,000	Value)	\$22.37
Supervision	Factors				
	-Irrigation		\$/labor hour		\$0.06
	-Equipment & General		\$/labor hour		\$0.03
	Crop-Irrigation		\$/labor hour		\$0.00
	Crop-Equip. & General		\$/labor hour		\$0.00
Managemen	t Rate				
Field Crop			percent/GR		7.00%
Vegetable	Crops		percent/TOE		10.00%

TABLE 3. Overhead cost information for the Artesia-Lake Arthur area, Actual 2014

Item					
Electricity (Domestic & Shop)			\$290.40	per month	\$3,485
Telephone			\$211.75	per month	\$2,541
Accounting & Legal					\$3,200
Misc. Supplies & Hand Tools					\$4,090
Pickup and Auto					
miles	24,200	@	\$0.500	per mile	\$12,100
Insurance					
<ul> <li>general liability (non-employee)</li> </ul>					\$1,803
- fire/theft					\$2,716
Property Taxes					
<ul> <li>non-planted land</li> </ul>					\$0
<ul> <li>other than land &amp; machinery</li> </ul>					\$0
Building repairs and maintenance					\$0
Dues, fees, publications					\$1,367
Farmstead Equipment					\$411
				Total	\$31,714
		Total Per Pla	anted Acre		\$63.43

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0.120
0.160
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TABLE 6. Alfalfa establishment, flood-irrigated, budgeted per acre costs and returns for a 500 acre farm with above average management, Artesia-Lake Arthur area, Actual 2014

Planting dates: September 1 - September 30

ITEM	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
PURCHASED INPUTS								
SEED	\$6.00	20 LBS	\$120.00					\$120.00
HERBICIDE PUMP WATER	\$32.40	1 ACRE 8 AC. IN.	\$32.40					\$32.40
SUBTOTAL			\$152.40				_	\$152.40
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
5.00								
PLOW	145 HP	0.48 HR		\$3.46	\$15.17	\$3.90	\$5.03	\$27.55
DISC (2X)	145 HP	0.34 HR		\$2.45	\$10.74	\$2.30	\$3.23	\$18.72
PLANE (3X)	145 HP	0.57 HR		\$4.10	\$18.01	\$2.33	\$10.21	\$34.65
DISC FLOAT (2X)	145 HP 70 HP	0.17 HR 0.32 HR		\$1.22 \$2.30	\$5.37 \$7.46	\$1.15 \$0.31	\$1.61 \$1.48	\$9.36 \$11.56
DRILL (2X)	65 HP	0.42 HR		\$3.02	\$7.46 \$5.21	\$0.99	\$1.46 \$7.25	\$16.47
IRRIGATE (2X)	03 TIF	1.00 HR		\$7.50	\$7.02	\$1.45	\$2.35	\$18.32
SUBTOTAL		3.30 HR		\$24.06	\$68.98	\$12.42	\$31.17	\$136.62
OVERHEAD EXPENSES								
DOWNTIME		0.46 HR		\$3.28				\$3.28
EMPLOYEE BENEFITS				\$4.33				\$4.33
INSURANCE			\$0.02					\$0.02
SUPERVISION AND MANAGEMENT				\$20.34				\$20.34
SUBTOTAL		0.46 HR	\$0.02	\$27.95				\$27.97
TOTAL OPERATING EXPENSES		3.76 HR	\$152.41	\$52.01	\$68.98	\$12.42	\$31.17	\$316.99

Alfalfa hay, flood-irrigated, budgeted per acre costs and returns for a 500 acre farm with above average management, Artesia-Lake Arthur area, Actual 2014 TABLE 7.

Actual 2014 Harvesting dates: Ma	ay 5 - November 1									
ITEM	PRICE		YIELI	D						TOTAL
GROSS RETURNS										
ALFALFA HAY GRAZING	\$245.00 \$40.00		5.60	TONS (S	TACKED)					\$1,372.00 \$40.00
TOTAL										\$1,412.00
PURCHASED INPUTS	PRICE		QUANT	TTY	PURCHASED INPUTS				FIXED COST	TOTAL
	\$25.02			X/ACRE						\$50.05
INSECTICIDE (CUSTOM) HERBICIDE (CUSTOM)	\$36.36			ACRE	\$50.05 \$36.36					\$36.36
INSECT SCOUTING	\$5.25			ACRE	\$5.25					\$5.25
FERTILIZER (5-26-30)	\$0.21			LBS	\$42.00					\$42.00
WIRE DRYING AGENT (AGRI-DRY)	\$0.03 \$8.26			LBS /TON	\$1.50 \$46.23					\$1.50 \$46.23
ESTABLISHMENT: Principal	ψ0.20			YEARS	ψ+0.23				\$63.40	\$63.40
Interest									\$13.48	\$13.48
PUMP WATER*			50	AC. IN.						
SUBTOTAL					\$181.39				\$76.88	\$258.27
	POWER		ACCOMPLIS	SHMENT	PURCHASED		FUEL &		FIXED	
PREHARVEST OPERATIONS	UNIT		RATE		INPUTS	LABOR	LUBE	REPAIRS	COST	TOTAL
IRRIGATE (7X)			3.50	HR		\$26.25	\$43.87	\$9.05	\$14.72	\$93.89
SUBTOTAL			3.50	HR		\$26.25	\$43.87	\$9.05	\$14.72	\$93.89
HARVEST OPERATIONS										
SWATHER (5X)	16 FT SP		0.55	HR		\$3.96	\$7.89	\$0.80	\$12.20	\$24.85
RAKE (5X)	40 HP		0.25			\$1.80	\$2.38	\$0.51	\$2.92	\$7.61
BALER (5X) BALE WAGON (5X)	96 HP SP		1.25 1.00			\$9.00 \$7.20	\$29.15 \$19.77	\$1.37 \$16.75	\$3.58 \$7.60	\$43.10 \$51.32
	SF.									
SUBTOTAL			3.05	HR		\$21.96	\$59.19	\$19.43	\$26.30	\$126.89
OVERHEAD EXPENSES										
DOWNTIME			0.70	HR		\$5.04				\$5.04
EMPLOYEE BENEFITS					<b>#</b> 0.00	\$8.68				\$8.68
INSURANCE LAND TAXES					\$0.03				\$2.12	\$0.03 \$2.12
SUPERVISION AND MANAGEMENT						\$99.12			Ψ22	\$99.12
OTHER EXPENSES					\$63.43					\$63.43
SUBTOTAL			0.70	HR	\$63.46	\$112.84			\$2.12	\$178.42
TOTAL OPERATING EXPENSES			7.25	HR	\$244.86	\$161.05	\$103.06	\$28.48	\$120.01	\$657.47
NET OPERATING PROFIT										\$754.53
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT		(	\$110.48	@	7.50%	)				\$8.29 \$21.86
RETURN TO LAND AND RISK										\$724.38
* Pump water costs are shown under irrigation	on in the preharves		s section. SUMMARY							
GROSS RETURN			\$1,412.00							
VARIABLE OPERATING EXPENSES		\$376.40								
RETURN OVER VARIABLE EXPENSES		• • • • • • • • • • • • • • • • • • • •	\$1,035.60	(GROS	S MARGIN)					
FIXED EXPENSES NET FARM INCOME		\$120.01	\$915.58	(RETIII	RN TO CAPITAL,	LABOR LAN	ID & RISK)			
LABOR AND MANAGEMENT COST		\$161.05		·						
NET OPERATING PROFIT CAPITAL COSTS		\$30.15	\$754.53	(RETU	RN TO CAPITAL,	LAND & RIS	K)			
RETURN TO LAND AND RISK			\$724.38							

TABLE 8. Barley, flood-irrigated, budgeted per acre costs and returns for a 500 acre farm with above average management, Artesia-Lake Arthur area, Actual 2014
Planting dates: August 20 - September 30
Harvesting dates: June 15 - July 1

Harvesting dates: June 15	- July 1								
ITEM	PRICE	YIELD							TOTAL
GROSS RETURNS									
BARLEY	\$6.12	35.00							\$214.20
DIRECT PAYMENT	\$0.00	35.00	CWT						\$0.00
COUNTER CYCLICAL PAYMENT GRAZING	\$0.00								\$0.00
GRAZING	\$40.00								\$40.00
TOTAL								-	\$254.20
PURCHASED INPUTS	PRICE	QUANTI	TY	PURCHASED INPUTS					TOTAL
SEED	\$0.45		LBS	\$49.50					\$49.50
NITROGEN (N) INSECTICIDE (CUSTOM)	\$0.50 \$20.01		LBS ACRE	\$75.00 \$20.01					\$75.00 \$20.01
PUMP WATER*	Ψ20.01		AC. IN.	Ψ20.01					Ψ20.01
CROP INSURANCE	\$2.94			\$2.94					\$2.94
SUBTOTAL			-	\$147.45				_	\$147.45
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISH RATE	HMENT	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
	445 UD	0.48	LID		<b>#</b> 0.40	045.47	Ф0.00	<b>0</b> 5.00	407.55
PLOW DISC	145 HP 145 HP	0.48			\$3.46 \$1.22	\$15.17 \$5.37	\$3.90 \$1.15	\$5.03 \$1.61	\$27.55 \$9.36
FLOAT	70 HP	0.16			\$1.15	\$3.73	\$0.15	\$0.74	\$5.78
FERTILIZE	DEALER APPLIED								
DRILL	70 HP	0.21			\$1.51	\$4.90	\$0.42	\$3.95	\$10.78
IRRIGATE (4X)		2.00	HR		\$15.00	\$24.57	\$5.07	\$8.24	\$52.88
SUBTOTAL		3.02	HR		\$22.34	\$53.73	\$10.69	\$19.58	\$106.35
HARVEST OPERATIONS									
COMBINE (CUSTOM)				\$17.91					\$17.91
HAUL (CUSTOM)				\$7.00					\$7.00
SUBTOTAL				\$24.91					\$24.91
OVER IEAR EVERNOER									
OVERHEAD EXPENSES									
DOWNTIME		0.22	HR		\$1.55				\$1.55
EMPLOYEE BENEFITS					\$4.02				\$4.02
INSURANCE				\$0.02				00.40	\$0.02
LAND TAXES SUPERVISION AND MANAGEMENT					\$17.93			\$2.12	\$2.12 \$17.93
OTHER EXPENSES				\$63.43	ψ17.33				\$63.43
SUBTOTAL		0.22	ШΒ	\$63.44	\$23.50			\$2.12	\$89.06
TOTAL OPERATING EXPENSES		3.24	HR	\$235.80	\$45.84	\$53.73	\$10.69	\$21.69	\$367.77
NET OPERATING PROFIT									(\$113.57)
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTM	MENIT.	\$91.91	@	7.50%	)				\$6.89
	IEN I								\$8.36
RETURN TO LAND AND RISK									(\$128.81)
* Pump water costs are shown under ir		ation section. T SUMMARY							
GROSS RETURN		\$254.20							
VARIABLE OPERATING EXPENSES	\$300.23		(000	CC MADOW"					
RETURN OVER VARIABLE EXPENSES FIXED EXPENSES	\$21.69	(\$46.03)	(GRO	SS MARGIN)					
NET FARM INCOME	φ21.08	(\$67.72)	(RETU	JRN TO CAPITAL, L	ABOR, LAND	& RISK)			
LABOR AND MANAGEMENT COST	\$45.84		,	_, _		,			
NET OPERATING PROFIT	_	(\$113.57)	(RETU	JRN TO CAPITAL, L	AND & RISK)				
CAPITAL COSTS	\$15.25								
RETURN TO LAND AND RISK		(\$128.81)							

Oat hay, flood-irrigated, budgeted per acre costs and returns for a 500 acre farm with above average management, Artesia-Lake Arthur area, Actual 2014
Planting dates: February 1 - February 28
Harvesting dates: June 1 - June 30 TABLE 9.

Traivesting dates. June 1 - 3	arie 50									
ITEM	PRICE		YIEL	D						TOTAL
GROSS RETURNS										
OAT HAY	\$195.00		3.50	TONS (S	STACKED)					\$682.50
	<b>\$100.00</b>		0.00	. 0.10 (0	,,,,,,,,,				_	
TOTAL										\$682.50
DUDCHACED INDUTC	PRICE		OLIANI	FITY	PURCHASED INPUTS					TOTAL
PURCHASED INPUTS	FRICE		QUANT	III Y	INFOIS					TOTAL
SEED	\$0.38			LBS	\$38.00					\$38.00
FERTILIZER (16-20-0) PUMP WATER*	\$0.17			LBS AC. IN.	\$25.50					\$25.50
			20	7.0					_	
SUBTOTAL					\$63.50					\$63.50
DDELLA DVECT ODED ATIONS	POWER		ACCOMPLIS		PURCHASED	LABOR	FUEL &	DEDAIDS	FIXED	TOTAL
PREHARVEST OPERATIONS	UNIT		RAT	E	INPUTS	LABOR	LUBE	REPAIRS	COST	TOTAL
PLOW	145 HP		0.48			\$3.46	\$15.17	\$3.90	\$5.03	\$27.55
DISC FLOAT	145 HP 70 HP		0.34			\$2.45 \$1.15	\$10.74	\$2.30 \$0.15	\$3.23 \$0.74	\$18.72 \$5.78
FERTILIZE (CUSTOM)	70 HP		0.16	пк	\$0.00	\$1.15	\$3.73	φυ.15	<b>Φ</b> 0.74	\$0.00
DRILL	70 HP		0.21	HR	*****	\$1.51	\$4.90	\$0.42	\$3.95	\$10.78
IRRIGATE (4X)			2.00	HR		\$15.00	\$24.57	\$5.07	\$8.24	\$52.88
SUBTOTAL			3.19	HR		\$23.57	\$59.11	\$11.84	\$21.19	\$115.71
HARVEST OPERATIONS										
SWATHER	16 FT		0.11	HR		\$0.79	\$1.58	\$0.16	\$2.44	\$4.97
BALER	126 HP		0.25			\$1.80	\$7.90	\$1.03	\$2.03	\$12.76
BALE WAGON	S. P.		0.20	HR		\$1.44	\$3.95	\$3.35	\$1.52	\$10.26
SUBTOTAL			0.56	HR		\$4.03	\$13.43	\$4.54	\$5.99	\$28.00
OVERHEAD EXPENSES										
DOWNTIME			0.40	HR		\$2.86				\$2.86
EMPLOYEE BENEFITS						\$4.97				\$4.97
INSURANCE					\$0.02				<b>CO 40</b>	\$0.02
LAND TAXES SUPERVISION AND MANAGEMENT						\$47.94			\$2.12	\$2.12 \$47.94
OTHER EXPENSES					\$63.43	*				\$63.43
SUBTOTAL			0.40	HR	\$63.45	\$55.77			\$2.12	\$121.33
TOTAL OPERATING EXPENSES			4.15	HR	\$126.95	\$83.37	\$72.53	\$16.38	\$29.30	\$328.54
NET OPERATING PROFIT			0		Ų.20.00	φοσιστ	Ų. 2.00	Ų.0.00	\$20.00	\$353.96
INTEREST ON OPERATING CAPITAL		(	\$50.98	@	7.50%	)				\$3.82
INTEREST ON EQUIPMENT INVESTMEN	Т	,	φοσιοσ		7.0070	,				\$14.02
RETURN TO LAND AND RISK										\$336.12
* Pump water costs are shown under irriga	tion in the preha		ion section. SUMMARY							
GROSS RETURN			\$682.50							
VARIABLE OPERATING EXPENSES		\$215.87	Q002.00							
RETURN OVER VARIABLE EXPENSES			\$466.63	(GROS	SS MARGIN)					
FIXED EXPENSES		\$29.30	¢427.22	/DETII	DN TO CADITAL I	I A B O B I A A I	U & DIGN/			
NET FARM INCOME LABOR AND MANAGEMENT COST		\$83.37	\$437.33	(KEIU	RN TO CAPITAL, I	LADUK, LAN	D & KIOK)			
NET OPERATING PROFIT			\$353.96	(RETU	RN TO CAPITAL, I	LAND & RISH	()			
CAPITAL COSTS		\$17.84	000015							
RETURN TO LAND AND RISK			\$336.12							

TABLE 10. Upland cotton (picker), flood-irrigated, budgeted per acre costs and returns for a 500 acre farm with

TABLE 10. Upland cotton (picker), flood-ir above average management, Planting dates: April 15 - M Harvesting dates: October	Artesia-Lake A ay 15	rthur area, 20								
ITEM	PRICE	-	YIEI	LD						TOTA
GROSS RETURNS										
COTTON LINT	\$0.900		700	LBS						\$630.0
COTTON EINT COTTON SEED	\$0.900		1,120							\$84.00
DIRECT PAYMENT	\$0.000			LBS						\$0.00
COUNTER CYCLICAL PAYMENT	\$0.087		700	LBS						\$61.11
TOTAL										\$775.11
					DUDOUAGED					
PURCHASED INPUTS	PRICE		QUAN	TITY	PURCHASED INPUTS					TOTA
SEED	\$7.55		15	LBS	\$113.25					\$113.25
FOLIAR FERTILIZER	\$4.80			X/ACRE	\$4.80					\$4.80
INSECT SCOUTING	\$5.25		1	ACRE	\$5.25					\$5.25
HERBICIDE (CUSTOM)	\$80.91			X/ACRE	\$80.91					\$80.91
INSECTICIDE (CUSTOM)	\$31.56		3	X/ACRE	\$31.56					\$31.56
CROP INSURANCE				FCIC	\$0.53					\$0.53
PUMP WATER*			30	AC. IN.						
SUBTOTAL					\$236.30					\$236.30
	POWER		ACCOMPLI	ICUMENIT	PURCHASED		FUEL &		FIXED	
PREHARVEST OPERATIONS	UNIT		RA1		INPUTS	LABOR	LUBE	REPAIRS	COST	TOTA
DISC	145 HP		0.17	HR		\$1.22	\$5.37	\$1.15	\$1.61	\$9.36
PLOW	145 HP		0.48			\$3.46	\$15.17	\$3.90	\$5.03	\$27.55
DISC (2X)	145 HP		0.34	HR		\$2.45	\$10.74	\$2.30	\$3.23	\$18.72
FLOAT	145 HP		0.16			\$1.15	\$5.06	\$0.64	\$1.34	\$8.19
LISTER	145 HP		0.18	HR		\$1.30	\$5.69	\$1.07	\$2.39	\$10.45
PRE-IRRIGATE			0.75	HR		\$5.63	\$6.58	\$1.36	\$2.21	\$15.77
CULTIVATOR	65 HP		0.21			\$1.51	\$2.60	\$0.48	\$1.17	\$5.76
PLANTER	70 HP		0.26			\$1.87	\$6.06	\$0.67	\$4.35	\$12.96
SLED	70 HP		0.15			\$1.08	\$3.50	\$0.18	\$0.82	\$5.59
CULTIVATOR (3X)	65 HP		0.63	HR		\$4.54	\$7.81	\$1.44	\$3.50	\$17.29
HAND HOE (CUSTOM)			4.50	LID	\$20.00	£44.05	£40.74	£4.07	<b>#0.00</b>	\$20.00
IRRIGATE (3X)		=	1.50		<b>\$20.00</b>	\$11.25	\$19.74	\$4.07	\$6.62	\$41.69
SUBTOTAL			4.83	нк	\$20.00	\$35.45	\$88.32	\$17.27	\$32.29	\$193.33
HARVEST OPERATIONS	0.0011		0.74			<b>0</b> 5.00	0.17.11	040.00	0450.00	0405.04
COTTON PICKER (2X)	2-ROW		0.74			\$5.33	\$17.14	\$12.68	\$159.89	\$195.04
HAUL (2X)	65 HP		1.00	HR	£404.00	\$7.20	\$12.40	\$1.32	\$5.42	\$26.34
GIN COTTON (CUSTOM)					\$104.30					\$104.30
SUBTOTAL		=	1.74	HR	\$104.30	\$12.53	\$29.54	\$14.00	\$165.30	\$325.68
POSTHARVEST OPERATIONS										
SHREDDER	70 HP		0.14	HR		\$1.01	\$3.27	\$0.19	\$2.21	\$6.67
SUBTOTAL		_	0.14	HR		\$1.01	\$3.27	\$0.19	\$2.21	\$6.67
OVERHEAD EXPENSES										
DOWNTIME			0.95	HR		\$6.82				\$6.82
EMPLOYEE BENEFITS			0.50	1111		\$8.82				\$8.82
INSURANCE					\$0.04	Ψ0.02				\$0.04
LAND TAXES					*				\$2.12	\$2.12
SUPERVISION AND MANAGEMENT OTHER EXPENSES					\$63.43	\$54.50				\$54.50 \$63.43
SUBTOTAL		-	0.95	HR	\$63.46	\$70.13			\$2.12	\$135.71
TOTAL OPERATING EXPENSES		-	7.66		\$424.06	\$119.12	\$121.13	\$31.46	\$201.92	\$897.69
NET OPERATING PROFIT										(\$122.58
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTME	NT	(	\$149.04	@	7.50%	)				\$11.18 \$106.11
RETURN TO LAND AND RISK										(\$239.86
* Pump water costs are shown under irrig	ation in the pre			ı.						
· ·		BUDGET S								
GROSS RETURN			\$775.11							
VARIABLE OPERATING EXPENSES		\$576.65	0400 40	(0000	O MADOIN"					
RETURN OVER VARIABLE EXPENSES		£204.00	\$198.46	(GROS	S MARGIN)					
FIXED EXPENSES		\$201.92								

* Pump water costs are shown under irrigation in the p		ation section. SUMMARY	
GROSS RETURN		\$775.11	
VARIABLE OPERATING EXPENSES	\$576.65		
RETURN OVER VARIABLE EXPENSES		\$198.46	(GROSS MARGIN)
FIXED EXPENSES	\$201.92		
NET FARM INCOME		(\$3.46)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$119.12		
NET OPERATING PROFIT		(\$122.58)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$117.28		
RETURN TO LAND AND RISK		(\$239.86)	

TABLE 11. Upland cotton (stripper), flood-irrigated, budgeted per acre costs and returns for a 500 acre farm with above average management, Artesia-Lake Arthur area, Actual 2014

Planting dates: April 15 - May 15

Planting dates: April Harvesting dates: O	15 - May 15 ctober 15 - January 15									
ITEM	PRICE		YIEL	.D						TOTA
GROSS RETURNS										
COTTON LINT	\$0.850			LBS						\$595.0
COTTON SEED DIRECT PAYMENT	\$0.075 \$0.000		1,120	LBS LBS						\$84.0 \$0.0
COUNTER CYCLICAL PAYMENT				LBS						\$96.1
TOTAL									•	\$775.1
TOTAL										ψ113.1
PURCHASED INPUTS	PRICE		QUAN <sup>-</sup>	TITV	PURCHASED INPUTS					TOTA
SEED FOLIAR FERTILIZER	\$7.55 \$4.80			LBS X/ACRE	\$151.00 \$4.80					\$151.0 \$4.8
INSECT SCOUTING	\$5.25			ACRE	\$5.25					\$5.2
HERBICIDE (CUSTOM) INSECTICIDE (CUSTOM)	\$45.34 \$33.18			X/ACRE X/ACRE						\$45.3 \$33.1
CROP INSURANCE	ψ33.10		3	FCIC	\$0.74					\$0.7
PUMP WATER*			30	AC. IN.						•••
CROP INSURANCE	\$0.00				\$0.00					\$0.0
SUBTOTAL					\$240.30					\$240.3
	POWER				PURCHASED		FUEL &		FIXED	
PREHARVEST OPERATIONS	UNIT		RAT	E	INPUTS	LABOR	LUBE	REPAIRS	COST	TOTA
DISC	145 HP		0.17			\$1.22	\$5.37	\$1.15	\$1.61	\$9.3
PLOW DISC (2X)	145 HP 145 HP		0.48 0.34			\$3.46 \$2.45	\$15.17 \$10.74	\$3.90 \$2.30	\$5.03 \$3.23	\$27.55 \$18.72
FLOAT	145 HP		0.16	HR		\$1.15	\$5.06	\$0.64	\$1.34	\$8.1
LIST PRE-IRRIGATE	145 HP		0.18 0.75			\$1.30 \$5.63	\$5.69 \$6.58	\$1.07 \$1.36	\$2.39 \$2.21	\$10.45 \$15.77
CULTIVATOR	65 HP		0.21			\$1.51	\$2.60	\$0.48	\$1.17	\$5.76
PLANTER	70 HP		0.26			\$1.87	\$6.06	\$0.67	\$4.35	\$12.9
SLED CULTIVATOR (3X)	70 HP 65 HP		0.15 0.63			\$1.08 \$4.54	\$3.50 \$7.81	\$0.18 \$1.44	\$0.82 \$3.50	\$5.59 \$17.29
HAND HOE (CUSTOM) IRRIGATE (3X)			1.50		\$20.00	\$11.25	\$19.74	\$4.07	\$6.62	\$20.00 \$41.69
SUBTOTAL			4.83	HR	\$20.00	\$35.45	\$88.32	\$17.27	\$32.29	\$193.33
HARVEST OPERATIONS										
COTTON STRIPPER	70 HP		0.62	HR		\$4.46	\$14.46	\$3.49	\$63.05	\$85.46
HAUL	65 HP		0.75			\$5.40	\$9.30	\$0.99	\$4.06	\$19.75
GIN COTTON (CUSTOM)					\$134.89					\$134.89
SUBTOTAL		•	1.37	HR	\$134.89	\$9.86	\$23.76	\$4.48	\$67.11	\$240.10
POSTHARVEST OPERATIONS										
SHREDDER	70 HP		0.14	HR		\$0.56	\$3.27	\$0.19	\$2.21	\$6.22
SUBTOTAL		•	0.14	HR		\$0.56	\$3.27	\$0.19	\$2.21	\$6.22
OVERHEAD EXPENSES										
DOWNTIME			0.89	HR		\$6.43				\$6.4
EMPLOYEE BENEFITS					<b>#</b> 0.00	\$8.26				\$8.2
INSURANCE LAND TAXES					\$0.03				\$2.12	\$0.03 \$2.13
SUPERVISION AND MANAGEME OTHER EXPENSES	NT				\$63.43	\$54.44				\$54.4 \$63.4
SUBTOTAL			0.89	ЦΒ	\$63.46	\$69.13			\$2.12	\$134.7
TOTAL OPERATING EXPENSES		•	7.23		\$458.65	\$115.00	\$115.34	\$21.93	\$103.73	\$814.6
NET OPERATING PROFIT			7.20	1110	ψ+00.00	ψ110.00	ψ110.04	Ψ21.50	ψ100.70	(\$39.5
INTEREST ON OPERATING CAP	ITAI	1	\$149.76	@	7.50%	)				\$11.2
INTEREST ON OPERATING CAP		(	ψ143.70	<b></b>	7.50%	,				\$55.1
RETURN TO LAND AND RISK										(\$105.98
* Pump water costs are shown und	der irrigation in the preha		ion section. SUMMARY							
			\$775.11							
GROSS RETURN VARIABLE OPERATING EXPENSE		\$595.93		(CDC)	CS MADOINI					
GROSS RETURN VARIABLE OPERATING EXPENSE		\$595.93 \$103.73	\$775.11 \$179.18	(GROS	SS MARGIN)					
GROSS RETURN VARIABLE OPERATING EXPENSE RETURN OVER VARIABLE EXPEN: FIXED EXPENSES NET FARM INCOME	SES	\$103.73			SS MARGIN) RN TO CAPITAL, I	_ABOR, LANI	O & RISK)			
GROSS RETURN VARIABLE OPERATING EXPENSE RETURN OVER VARIABLE EXPEN: FIXED EXPENSES NET FARM INCOME LABOR AND MANAGEMENT COS	SES		\$179.18 \$75.45	(RETU	RN TO CAPITAL, I					
GROSS RETURN VARIABLE OPERATING EXPENSE RETURN OVER VARIABLE EXPEN: FIXED EXPENSES NET FARM INCOME	SES	\$103.73	\$179.18	(RETU						

TABLE 12. Red chile, flood-irrigated, budgeted per acre costs and returns for a 500 acre farm with above average management, Artesia-Lake Arthur area, Actual 2014
Planting dates: April 1 - April 15
Harvesting dates: September 1 - October 30

Harvesting dates: Septe									
ITEM	PRICE	,	YIELD						TOTA
GROSS RETURNS									
RED CHILE	\$1.00	3,200	LBS						\$3,200.00
TOTAL									\$3,200.00
				PURCHASED					
PURCHASED INPUTS	PRICE	QL	JANTITY	INPUTS					TOTA
SEED	\$22.00		LBS	\$176.00					\$176.00
NITROGEN (N) PHOSPHATE (P205)	\$0.50 \$0.40		LBS LBS	\$60.00 \$28.00					\$60.00 \$28.00
HERBICIDE (CUSTOM)	\$34.59		X/ACRE	\$34.59					\$34.59
INSECTICIDE (CUSTOM)	\$40.88		X/ACRE	\$40.88					\$40.88
CROP INSURANCE NOVA CHEMICAL APPLICATION	\$4.30		DOLLARS AI OZ PER ACRE	\$20.00 \$0.00					\$20.00 \$0.00
PUMP WATER*	ψσσ		AC. IN.	ψ0.00					ψ0.00
SUBTOTAL				\$359.47					\$359.47
DDFLIADVECT ODEDATIONS	POWER		MPLISHMENT	PURCHASED	LAROR	FUEL &	DEDAIDS	FIXED	TOTA
PREHARVEST OPERATIONS	UNIT		RATE	INPUTS	LABOR	LUBE	REPAIRS	COST	TOTA
PLOW DISC (2X)	145 HP 145 HP	0.48 0.34			\$3.46 \$2.45	\$15.17 \$10.74	\$3.90 \$2.30	\$5.03 \$3.23	\$27.55 \$18.72
PLANE	145 HP	0.16			\$1.15	\$5.06	\$0.65	\$2.87	\$9.73
FERTILIZE	DEALER APPLIED								
LIST PRE-IRRIGATE	145 HP	0.18 0.75			\$1.30 \$5.63	\$5.69 \$5.26	\$1.07 \$1.09	\$2.39 \$1.77	\$10.45 \$13.74
CULTIVATOR	65 HP	0.21			\$1.51	\$2.60	\$0.48	\$1.17	\$5.76
PLANTER CULTIVATOR (5X)	70 HP 65 HP	0.26 1.05			\$1.87 \$7.56	\$6.06 \$13.02	\$0.67 \$2.41	\$4.35 \$5.84	\$12.96 \$28.82
THIN (CUSTOM)	00 111	1.00	1110	\$45.00	ψ1.00	Ψ10.02	Ψ21	ψ0.04	\$45.00
IRRIGATE (7X) HAND HOE (CUSTOM)		3.50	HR	<b>#</b> 20.00	\$26.25	\$36.85	\$7.60	\$12.36	\$83.07
CHEMICAL APPLICATION (CUSTOM)				\$20.00 \$0.00					\$20.00 \$0.00
SUBTOTAL	•	6.93	HR	\$65.00	\$51.17	\$100.45	\$20.17	\$39.01	\$275.80
ARVEST OPERATIONS									
HAND PICK (CUSTOM)				\$640.00					\$640.00
FIELD HAUL	145 HP	0.90	HR	000.00	\$6.48	\$28.43	\$3.60	\$8.28	\$46.80
HAUL (CUSTOM)				\$96.00					\$96.00
SUBTOTAL		0.90	HR	\$736.00	\$6.48	\$28.43	\$3.60	\$8.28	\$782.80
POSTHARVEST OPERATIONS									
SHREDDER	70 HP	0.14	HR		\$1.01	\$3.27	\$0.19	\$2.21	\$6.67
SUBTOTAL		0.14	HR		\$1.01	\$3.27	\$0.19	\$2.21	\$6.67
VERHEAD EXPENSES									
DOWNTIME		0.93	HR		\$6.70				\$6.70
EMPLOYEE BENEFITS INSURANCE				\$0.04	\$10.56				\$10.56 \$0.04
LAND TAXES				ψ0.04				\$2.12	\$2.12
SUPERVISION AND MANAGEMENT OTHER EXPENSES				\$63.43	\$224.35				\$224.35 \$63.43
SUBTOTAL		0.93		\$63.47	\$241.60			\$2.12	\$307.19
OTAL OPERATING EXPENSES ET OPERATING PROFIT		8.90	HR	\$1,223.94	\$300.26	\$132.15	\$23.96	\$51.62	\$1,731.93 \$1,468.07
		\$212.42	@	7 500/	,				
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTM		\$213.42	<b>w</b>	7.50%	)				\$16.01 \$25.56
ETURN TO LAND AND RISK									\$1,426.50
* Pump water costs are shown under ir		ration section T SUMMARY							
GROSS RETURN		\$3,200.00							
VARIABLE OPERATING EXPENSES ETURN OVER VARIABLE EXPENSES	#######	\$1,819.95	(GROSS MARG	IN)					
FIXED EXPENSES IET FARM INCOME	\$51.62	\$1,768.33	(RETURN TO C	APITAL, LABOR, I	AND & DICE	()			
LI I AKIVI II VOOIVIE		ψ1,100.33	(IVE LOWN TO C	" HAL, LADUK, I	ייייס מ עוטו	<b>'</b> /			
LABOR AND MANAGEMENT COST	\$300.26								
LABOR AND MANAGEMENT COST IET OPERATING PROFIT CAPITAL COSTS	\$300.26 \$41.57	\$1,468.07	(RETURN TO C	APITAL, LAND & F	RISK)				

TABLE 13. Summary of per acre costs and returns for a 500 acre farm with above average management, Artesia-Lake Arthur area, Actual 2014

	ALFALFA ESTABLISHMENT	ALFALFA HAY	BARLEY	OAT HAY	PICKER COTTON	STRIPPER COTTON	RED CHILE
		TONS	CWT	TONS	LBS	LBS	LBS
PRIMARY YIELD		5.60	35.00	3.50	700.00	700.00	3200.00
PRIMARY PRICE		\$245.00	\$6.12	\$195.00	\$0.90	\$0.85	\$1.00
GOVERNMENT PAYMENTS		\$0.00	\$0.00	\$0.00	\$61.11	\$96.11	\$0.00
SECOND INCOME		\$40.00	\$40.00	\$0.00	\$84.00	\$84.00	\$0.00
GROSS RETURN		\$1,412.00	\$254.20	\$682.50	\$775.11	\$775.11	\$3,200.00
CASH OPERATING EXPENSES							
SEED	\$120.00		\$49.50	\$38.00	\$113.25	\$151.00	\$176.00
FERTILIZER		\$42.00	\$75.00	\$25.50	\$4.80	\$4.80	\$88.00
CHEMICALS	\$32.40	\$86.41	\$20.01		\$117.72	\$83.76	\$75.47
CROP INSURANCE OTHER PURCHASED INPUTS		\$52.98	\$2.94		\$0.53	\$0.74	\$20.00
CANAL WATER		φ52.96					
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$61.96	\$59.19	\$29.17	\$47.97	\$94.80	\$89.02	\$90.03
FUEL-IRRIGATION	\$7.02	\$43.87	\$24.57	\$24.57	\$26.32	\$26.32	\$42.12
REPAIRS	\$12.42	\$28.48	\$10.69	\$16.38	\$31.46	\$21.93	\$23.96
CUSTOM CHARGES	·	•	\$24.91	•	\$124.30	\$154.89	\$801.00
LAND TAXES		\$2.12	\$2.12	\$2.12	\$2.12	\$2.12	\$2.12
OTHER EXPENSES	\$0.02	\$63.46	\$63.44	\$63.45	\$63.46	\$63.46	\$63.47
TOTAL CASH EXPENSES	\$233.81	\$378.52	\$302.34	\$217.98	\$578.76	\$598.04	\$1,382.17
RETURN OVER CASH EXPENSES	(\$233.81)	\$1,033.48	(\$48.14)	\$464.52	\$196.35	\$177.07	\$1,817.83
FIXED EXPENSES	\$31.17	\$117.90	\$19.58	\$27.19	\$199.81	\$101.62	\$49.50
TOTAL EXPENSES	\$264.98	\$496.42	\$321.92	\$245.17	\$778.57	\$699.66	\$1,431.67
NET FARM INCOME	(\$264.98)	\$915.58	(\$67.72)	\$437.33	(\$3.46)	\$75.45	\$1,768.33
LABOR AND MANAGEMENT COSTS	\$52.01	\$161.05	\$45.84	\$83.37	\$119.12	\$115.00	\$300.26
NET OPERATING PROFIT	(\$316.99)	\$754.53	(\$113.57)	\$353.96	(\$122.58)	(\$39.55)	\$1,468.07
CAPITAL COSTS							
INTEREST ON OPERATING CAPITAL		\$8.29	\$6.89	\$3.82	\$11.18	\$11.23	\$16.01
INTEREST ON EQUIPMENT INVESTMENT		\$21.86	\$8.36	\$14.02	\$106.11	\$55.19	\$25.56
TOTAL CAPITAL COSTS	\$0.00	\$30.15	\$15.25	\$17.84	\$117.28	\$66.43	\$41.57
RETURN TO LAND AND RISK	(\$316.99)	\$724.38	(\$128.81)	\$336.12	(\$239.86)	(\$105.98)	\$1,426.50

TABLE 14. Whole farm summary, Artesia-Lake Arthur area, Actual 2014

Actual 2014					
GROSS RETURNS					
ALFALFA HAY	260	ACRES			
CROP	200	NONEO	\$367,120		
BARLEY	17	ACRES	*****		
CROP			\$4,321		
DIRECT PAYMENT			\$0		
COUNTER CYCLICAL PAYMEN	Т		\$0		
OAT HAY	20	ACRES			
CROP	0.5	4 ODEO	\$13,650		
PICKER COTTON COTTON LINT	95	ACRES	\$59,850		
COTTON SEED			\$7,980		
DIRECT PAYMENT			\$0		
COUNTER CYCLICAL PAYMEN	Т		\$5,805		
STRIPPER COTTON	68	ACRES			
COTTON LINT			\$40,460		
COTTON SEED			\$5,712		
DIRECT PAYMENT			\$0		
COUNTER CYCLICAL PAYMENT		ACDEC	\$6,535		
RED CHILE CROP	40	ACRES	£138.000		
CROP			\$128,000		
GROSS RETURN			-	\$639,434	
				<b>4</b>	
CASH OPERATING EXPENSES					
SEED			\$35,908		
FERTILIZER			\$17,007		
CHEMICALS			\$44,390		
CROP INSURANCE			\$950		
OTHER PURCHASED INPUTS CANAL WATER			\$13,775 \$0		
FUEL, OIL & LUBRICANTS-EQUI	PMENT		\$38,728		
FUEL-IRRIGATION	1 IVILI41		\$18,656		
REPAIRS			\$13,999		
CUSTOM CHARGES			\$54,804		
LAND TAXES			\$1,058		
OTHER EXPENSES			\$31,732		
			_		
TOTAL CASH EXPENS	ES			\$271,009	
RETURN OVER CASH EXPENSES					\$368,425
RETORN OVER CASH EXPENSES					φ300,423
FIXED EXPENSES			\$44,539		
			, ,		
TOTAL EXPENSES				\$315,548	
NET FARM INCOME					\$323,886
LABOR AND MANAGEMENT COOT	_		<b>\$70.470</b>		
LABOR AND MANAGEMENT COST	5		\$78,172		
NET OPERATING PROFIT					\$245,715
NET OF ERVINGENION					Ψ240,710
CAPITAL COSTS					
INTEREST ON OPERATING CAP	PITAL		\$4,814		
INTEREST ON EQUIPMENT INV	ESTMENT	-	\$20,962		
			-		
TOTAL CAPITAL COST	rs .			\$25,776	
RETURN TO LAND AND RISK					\$219,939
TELONIA TO ENAD MID MON				-	Ψ2 10,000
		RETURN	RETURN ON		
LAND VALUE		TO RISK*	INVESTMENT**		
\$1,000 /ACRE		\$184,939	35.55%		
\$2,500 /ACRE		\$132,439 \$70,030	17.05%		
\$4,000 /ACRE \$5,500 /ACRE		\$79,939 \$27,439	11.21% 8.35%		
ψο,οοο // τοιτΕ		Ψ21,700	0.55 /8		

 $<sup>^{\</sup>star}$  RETURN TO LAND AND RISK MINUS (INTEREST RATE TIMES LAND VALUE TIMES ACREAGE)  $^{\star\star}$  NET OPERATING PROFIT DIVIDED BY (MACHINERY AND EQUIPMENT VALUE PLUS LAND VALUE)