### TABLE 1. Acreage Summary, Eddy County, Artesia Lake Arthur Area, Projected 2016

FIUJECIEU ZUIO		
BUDGET AREA	ARTESIA-L/	AKE ARTHUR AREA
FARM SIZE	500.00 A	CRES
IRRIGATION TYPE	. FLOOD	
NUMBER OF CROPS	.6.	

		WATER	RUSE			
ACREAGE SUMMARY:	LAND USE (ACRES)	AC.IN. PER AC.	TOTAL AC.IN.			
ALFALFA ESTABLISHMENT	52.00 *	8	416			
ALFALFA	260.00	50	13,000			
BARLEY	17.00	28	476			
ARP	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 ACRE OF WATER RIGHTS 3.5						

\*DOUBLE-CROPPED

### Projected 2016 ltem Labor Wage Rate: Equipment operators \$/hour \$7.50 General & Irrigators \$/hour \$7.50 Purchased Inputs: Fertilizer: \$/pound \$0.48 Nitrogen (N) Phosphate (P<sub>2</sub>0<sub>5</sub>) \$/pound \$0.61 Seed: Alfalfa \$/pound \$6.00 Cotton picker \$7.55 \$/pound \$/pound \$7.55 stripper Barley \$/pound \$0.38 Oats \$/pound \$0.40 Red Chile \$/pound \$36.40 Wire: \$/lb. \$1.68 Natural gas \$/MCF \$3.00 (service charge) \$/month \$10.00 Diesel fuel \$2.55 \$/gallon Gasoline \$/gallon \$2.40 \$8.32 Electricity cents/KwHr \$2.75 LP Gas \$/gallon Employee Liability Insurance \$0.57 \$/\$1000 wages Employee Benefits percent/wages 18.00% Labor Downtime 25 0.0% percent

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

Labor Downtime	percent	25.00%
Financial Rates:		
Operating Capital Interest Rate	percent	5.50%
Land Interest Rate	percent	5.00%
Equipment Interest Rate	percent	5.50%
Real Interest Rate	percent	7.00%
Land Taxes	\$250.00 /acre (full value)	\$1.73
Personal Property Tax Rat - NR	\$/\$1,000 (Assessed	\$20.81
- R	Value)	\$18.94
Supervision Factors		
Field Crop-Irrigation	\$/labor hour	\$0.07
Field Crop-Equipment & General	\$/labor hour	\$0.03
Vegetable Crop-Irrigation	\$/labor hour	\$0.00
Vegetable Crop-Equip. & General	\$/labor hour	\$0.00
Management Rate		
Field Crops	percent/GR	7.00%
Vegetable Crops	percent/TOE	10.00%

### TABLE 3. Overhead cost information for the Artesia-Lake Arthur area, Projected 2016

### ltem

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 P	lanted Acre	\$63.43

# TABLE 6.Alfalfa establishment, flood-irrigated, budgeted per acre costs and returns for a 500 acre farm with<br/>above average management, Artesia-Lake Arthur area,<br/>Projected 2016

ITEM	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
PURCHASED INPUTS								
SEED	\$6.00	20 LBS	\$120.00					\$120.00
HERBICIDE PUMP WATER	\$35.69	1 ACRE 8 AC. IN.	\$35.69					\$35.69
SUBTOTAL			\$155.69				_	\$155.69
PREHARVEST	POWER	ACCOMPLISHMENT	PURCHASED		FUEL &			
OPERATIONS	UNIT	RATE	INPUTS	LABOR	LUBE	REPAIRS	FIXED COST	TOTAL
PLOW	145 HP	0.48 HR		\$3.60	\$10.10	\$3.90	\$4.95	\$22.55
DISC (2X)	145 HP	0.34 HR		\$2.55	\$7.15	\$2.30	\$3.18	\$15.18
PLANE (3X)	145 HP	0.57 HR		\$4.28	\$11.99	\$2.33	\$10.07	\$28.67
DISC	145 HP	0.17 HR		\$1.28	\$3.58	\$1.15	\$1.59	\$7.59
FLOAT (2X)	70 HP	0.32 HR		\$2.40	\$4.97	\$0.67	\$2.70	\$10.74
DRILL (2X)	65 HP	0.42 HR		\$3.15	\$4.90	\$0.99	\$7.18	\$16.22
IRRIGATE (2X)		1.00 HR		\$7.50	\$5.32	\$1.45	\$2.32	\$16.59
SUBTOTAL		3.30 HR		\$24.75	\$48.00	\$12.78	\$32.00	\$117.53
OVERHEAD EXPENSES								
DOWNTIME		0.46 HR		\$3.41				\$3.41
EMPLOYEE BENEFITS				\$4.46				\$4.46
INSURANCE			\$0.01					\$0.01
SUPERVISION AND MANAGEMEN	Т			\$19.25				\$19.25
SUBTOTAL		0.46 HR	\$0.01	\$27.12				\$27.13
TOTAL OPERATING EXPENSES		3.76 HR	\$155.70	\$51.87	\$48.00	\$12.78	\$32.00	\$300.35

Planting dates: September 1 - September 30

TABLE 7.Alfalfa hay, flood-irrigate above average manage Projected 2016 Harvesting dates: M	ement, Artesia-Lake Ar	costs and returns for a 500 acre thur area,	farm with					
ITEM	PRICE	YIELD						ΤΟΤΑΙ
GROSS RETURNS								
ALFALFA HAY GRAZING	\$195.00 \$40.00	6.50 TONS (\$	STACKED)					\$1,267.50 \$40.00
TOTAL							-	\$1,307.50
			PURCHASED				FIXED	
PURCHASED INPUTS	PRICE	QUANTITY	INPUTS				COST	TOTA
INSECTICIDE (CUSTOM) HERBICIDE (CUSTOM) INSECT SCOUTING FERTILIZER (5-26-30) WIRE DRYING AGENT (AGRI-DRY) ESTABLISHMENT: Principal Interest PUMP WATER*	\$27.57 \$40.06 \$7.00 \$0.41 \$1.68 \$12.00	2 X/ACRE 1 ACRE 1 ACRE 200 LBS 56 LBS 1 /TON 5 YEARS 50 AC. IN.	\$55.13 \$40.06 \$7.00 \$82.00 \$93.58 \$78.00				\$60.07 \$9.17	\$55.1 \$40.0 \$7.0 \$82.0 \$93.5 \$78.0 \$60.0 \$9.1
SUBTOTAL			\$355.77				\$69.24	\$425.0 <sup>-</sup>
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	ΤΟΤΑΙ
IRRIGATE (7X)		3.50 HR		\$26.25	\$33.24	\$9.05	\$14.50	\$83.04
SUBTOTAL		3.50 HR		\$26.25	\$33.24	\$9.05	\$14.50	\$83.04
HARVEST OPERATIONS								
SWATHER (5X) RAKE (5X) BALER (5X) BALE WAGON (5X)	16 FT SP 40 HP 96 HP SP	0.55 HR 0.25 HR 1.25 HR 1.00 HR		\$4.13 \$1.88 \$9.38 \$7.50	\$5.25 \$2.24 \$19.41 \$18.60	\$0.80 \$0.51 \$2.78 \$20.37	\$14.67 \$3.02 \$6.45 \$9.11	\$24.84 \$7.65 \$38.02 \$55.59
SUBTOTAL		3.05 HR		\$22.88	\$45.51	\$24.46	\$33.25	\$126.09
DVERHEAD EXPENSES DOWNTIME EMPLOYEE BENEFITS INSURANCE LAND TAXES SUPERVISION AND MANAGEMENT OTHER EXPENSES		0.70 HR	\$0.03 \$63.43	\$5.25 \$8.84 \$91.86			\$1.73	\$5.25 \$8.84 \$0.03 \$1.73 \$91.86 \$63.43
SUBTOTAL		0.70 HR	\$63.46	\$105.95			\$1.73	\$171.14
TOTAL OPERATING EXPENSES		7.25 HR	\$419.23	\$155.08	\$78.75	\$33.51	\$118.72	\$805.30
NET OPERATING PROFIT								\$502.20
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT	-	(\$194.29@	5.50%	)				\$10.69 \$20.44

RETURN TO LAND AND RISK

	<b>\$504.40</b>	\$1,307.50	
VARIABLE OPERATING EXPENSES RETURN OVER VARIABLE EXPENSES	\$531.49	\$776.01	(GROSS MARGIN)
FIXED EXPENSES	\$118.72	<i>Φ11</i> 0.01	
NET FARM INCOME	• -	\$657.28	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$155.08		
NET OPERATING PROFIT		\$502.20	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$31.12		
RETURN TO LAND AND RISK		\$471.08	

TABLE 8. Barley, flood-irrigated, budgete above average management, Projected 2016	Artesia-Lake Arthur area,	ns for a 500 acre farm wit	h					
Planting dates: August 20 - Harvesting dates: June 15	•							
ITEM	PRICE	YIELD						TOTAL
GROSS RETURNS								
BARLEY DIRECT PAYMENT COUNTER CYCLICAL PAYMENT GRAZING	\$6.12 \$0.00 \$0.00 \$40.00	35.00 CW 35.00 CW						\$214.20 \$0.00 \$0.00 \$40.00
TOTAL							-	\$254.20
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
SEED NITROGEN (N) INSECTICIDE (CUSTOM) PUMP WATER*	\$0.38 \$0.48 \$22.04	110 LBS 150 LBS 1 ACF 28 AC.	\$72.00 RE \$22.04 IN.					\$41.80 \$72.00 \$22.04
CROP INSURANCE SUBTOTAL	\$2.94		\$2.94 \$138.78				-	\$2.94 \$138.78
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMEN RATE	NT PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PLOW DISC FLOAT FERTILIZE DRILL	145 HP 145 HP 70 HP DEALER APPLIED 70 HP	0.48 HR 0.17 HR 0.16 HR 0.21 HR		\$3.60 \$1.28 \$1.20 \$1.58	\$10.10 \$3.58 \$2.48 \$3.26	\$3.90 \$1.15 \$0.33 \$0.66	\$4.95 \$1.59 \$1.35 \$4.73	\$22.55 \$7.59 \$5.37 \$10.22
IRRIGATE (4X)		2.00 HR		\$15.00	\$18.62	\$5.07	\$8.12	\$46.80
SUBTOTAL		3.02 HR		\$22.65	\$38.03	\$11.11	\$20.74	\$92.53
HARVEST OPERATIONS								
COMBINE (CUSTOM) HAUL (CUSTOM)			\$17.91 \$7.00					\$17.91 \$7.00
SUBTOTAL			\$24.91					\$24.91
OVERHEAD EXPENSES								
DOWNTIME EMPLOYEE BENEFITS INSURANCE LAND TAXES SUPERVISION AND MANAGEMENT OTHER EXPENSES		0.22 HR	\$0.01 \$63.43	\$1.61 \$4.08 \$17.96			\$1.73	\$1.61 \$4.08 \$0.01 \$1.73 \$17.96 \$63.43
SUBTOTAL		0.22 HR	\$63.44	\$23.65			\$1.73	\$88.82
TOTAL OPERATING EXPENSES		3.24 HR	\$227.13	\$46.30	\$38.03	\$11.11	\$22.47	\$345.05
NET OPERATING PROFIT								(\$90.85)
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTM		( \$83.75 @	5.50%	)				\$4.61 \$7.20

GROSS RETURN	<b>•</b>	\$254.20	
VARIABLE OPERATING EXPENSES RETURN OVER VARIABLE EXPENSES	\$276.28	(\$22.08)	(GROSS MARGIN)
FIXED EXPENSES	\$22.47	(ΨΖΖ.00)	
NET FARM INCOME		(\$44.55)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$46.30		
NET OPERATING PROFIT		(\$90.85)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$11.81		
RETURN TO LAND AND RISK		(\$102.66)	

TABLE 9. Oat hay, flood-irrigated, budg above average management Projected 2016	t, Artesia-Lake Arthur a		for a 500 acre farm w	vith					
Planting dates: February <sup>2</sup> Harvesting dates: June 1									
ITEM	PRICE		YIELD						TOTAL
GROSS RETURNS									
OAT HAY	\$165.00		3.50 TONS (S	TACKED)					\$577.50
TOTAL								-	\$577.50
				PURCHASED					
PURCHASED INPUTS	PRICE		QUANTITY	INPUTS					TOTAL
SEED FERTILIZER (16-20-0) PUMP WATER*	\$0.40 \$0.25		100 LBS 150 LBS 28 AC. IN.	\$40.00 \$37.50					\$40.00 \$37.50
SUBTOTAL				\$77.50				-	\$77.50
PREHARVEST OPERATIONS	POWER UNIT		ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PLOW DISC FLOAT FERTILIZE (CUSTOM) DRILL	145 HP 145 HP 70 HP 70 HP		0.48 HR 0.34 HR 0.16 HR 0.21 HR	\$0.00	\$3.60 \$2.55 \$1.20 \$1.58	\$10.10 \$7.15 \$2.48 \$3.26	\$3.90 \$2.30 \$0.33 \$0.66	\$4.95 \$3.18 \$1.35 \$4.73	\$22.55 \$15.18 \$5.37 \$0.00 \$10.22
IRRIGATE (4X) SUBTOTAL		_	2.00 HR 3.19 HR		\$15.00	\$18.62	\$5.07 \$12.26	\$8.12	\$46.80
HARVEST OPERATIONS			5.19 HK		φ20.90	ψ41.01	φ12.20	ΨΖΖ.33	φ100.1Z
SWATHER BALER BALE WAGON	16 FT 126 HP S. P.		0.11 HR 0.25 HR 0.20 HR		\$0.83 \$1.88 \$1.50	\$1.05 \$5.26 \$3.72	\$0.16 \$1.03 \$4.07	\$2.93 \$2.05 \$1.82	\$4.97 \$10.22 \$11.12
SUBTOTAL		_	0.56 HR		\$4.20	\$10.03	\$5.26	\$6.81	\$26.31
OVERHEAD EXPENSES									
DOWNTIME EMPLOYEE BENEFITS INSURANCE LAND TAXES SUPERVISION AND MANAGEMENT OTHER EXPENSES			0.40 HR	\$0.02 \$63.43	\$2.98 \$5.06 \$40.62			\$1.73	\$2.98 \$5.06 \$0.02 \$1.73 \$40.62 \$63.43
SUBTOTAL		_	0.40 HR	\$63.44	\$48.66			\$1.73	\$113.84
TOTAL OPERATING EXPENSES		_	4.15 HR	\$140.94	\$76.79	\$51.64	\$17.52	\$30.87	\$317.77
NET OPERATING PROFIT									\$259.73
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTM	ENT	(	\$53.49 @	5.50%	)				\$2.94 \$11.82
RETURN TO LAND AND RISK									\$244.97

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

GROSS RETURN	<b><b><b><b>bbb<b>bb<b>bb</b></b></b></b></b></b>	\$577.50	
VARIABLE OPERATING EXPENSES RETURN OVER VARIABLE EXPENSES	\$210.11	¢267.20	(GROSS MARGIN)
FIXED EXPENSES	\$30.87	\$367.39	(GROSS MARGIN)
NET FARM INCOME	<b>400.01</b>	\$336.52	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$76.79	·	
NET OPERATING PROFIT		\$259.73	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$14.76		
RETURN TO LAND AND RISK		\$244.97	

Harvesting dates: October 15 ITEM	PRICE		YIELD						TOTAL
GROSS RETURNS	FRICE		HELD						TOTAL
	<b>#0.700</b>		700 1 00						<b>#5</b> 04.00
COTTON LINT COTTON SEED	\$0.720 \$0.075		700 LBS 1,120 LBS						\$504.00 \$84.00
DIRECT PAYMENT	\$0.000		700 LBS						\$0.00
COUNTER CYCLICAL PAYMENT	\$0.087		700 LBS						\$61.11
TOTAL								-	\$649.11
PURCHASED INPUTS	PRICE		QUANTITY	PURCHASED INPUTS					TOTAL
SEED	\$7.55		15 LBS	\$113.25					\$113.25
FOLIAR FERTILIZER	\$12.00		1 X/ACRE	\$12.00					\$12.00
INSECT SCOUTING	\$7.00		1 ACRE	\$7.00					\$7.00
HERBICIDE (CUSTOM)	\$89.13		1 X/ACRE	\$89.13					\$89.13
INSECTICIDE (CUSTOM)	\$35.60		3 X/ACRE	\$35.60					\$35.60
CROP INSURANCE PUMP WATER*			FCIC 30 AC. IN.	\$0.53					\$0.53
SUBTOTAL				\$257.50				-	\$257.50
	POWER		ACCOMPLISHMENT	PURCHASED		FUEL &		FIXED	
PREHARVEST OPERATIONS	UNIT		RATE	INPUTS	LABOR	LUBE	REPAIRS	COST	TOTAL
DISC	145 HP		0.17 HR		\$1.28	\$3.58	\$1.15	\$1.59	\$7.59
PLOW	145 HP		0.48 HR		\$3.60	\$10.10	\$3.90	\$4.95	\$22.55
DISC (2X)	145 HP		0.34 HR		\$2.55	\$7.15	\$2.30	\$3.18	\$15.18
FLOAT LISTER	145 HP 145 HP		0.16 HR 0.18 HR		\$1.20 \$1.35	\$3.37 \$2.70	\$0.64 \$1.07	\$1.32 \$2.26	\$6.53 \$8.57
PRE-IRRIGATE	140 HP		0.75 HR		\$1.35 \$5.63	\$3.79 \$4.99	\$1.07 \$1.36	\$2.36 \$2.17	۶۵.57 \$14.14
CULTIVATOR	65 HP		0.21 HR		\$1.58	\$2.45	\$0.48	\$1.15	\$5.66
PLANTER	70 HP		0.26 HR		\$1.95	\$4.04	\$0.96	\$5.32	\$12.27
SLED	70 HP		0.15 HR		\$1.13	\$2.33	\$0.35	\$1.39	\$5.20
CULTIVATOR (3X)	65 HP		0.63 HR		\$4.73	\$7.35	\$1.44	\$3.45	\$16.97
HAND HOE (CUSTOM) IRRIGATE (3X)			1.50 HR	\$20.00	\$11.25	\$14.96	\$4.07	\$6.52	\$20.00 \$36.81
		_		<b>\$</b> 20.00					
SUBTOTAL HARVEST OPERATIONS			4.83 HR	\$20.00	\$36.23	\$64.09	\$17.73	\$33.41	\$171.46
HARVEST OPERATIONS									
COTTON PICKER (2X)	2-ROW		0.74 HR		\$5.55	\$11.41	\$12.68	\$158.16	\$187.81
HAUL (2X) GIN COTTON (CUSTOM)	65 HP		1.00 HR	\$104.30	\$7.50	\$11.67	\$1.32	\$5.32	\$25.81 \$104.30
SUBTOTAL		_	1.74 HR	\$104.30	\$13.05	\$23.08	\$14.00	\$163.48	\$317.92
				φ101.00	<b>\$10.00</b>	Ψ20.00	¢11.00	φ100.10	<i><b>QOTTO</b></i>
POSTHARVEST OPERATIONS					<b>•</b> 4 of	<b>AO AT</b>	<b>\$</b> 2.05	<b>\$</b> 0.70	<b>\$</b> 0.00
SHREDDER	70 HP		0.14 HR		\$1.05	\$2.17	\$0.35	\$2.73	\$6.30
SUBTOTAL			0.14 HR		\$1.05	\$2.17	\$0.35	\$2.73	\$6.30
OVERHEAD EXPENSES									
DOWNTIME			0.95 HR		\$7.11				\$7.11
EMPLOYEE BENEFITS					\$9.06				\$9.06
INSURANCE				\$0.03				<b>A</b> 4 <b>T</b> 0	\$0.03
LAND TAXES SUPERVISION AND MANAGEMENT					\$45.71			\$1.73	\$1.73 \$45.71
OTHER EXPENSES				\$63.43	\$45.7 I				\$45.71 \$63.43
SUBTOTAL		_	0.95 HR	\$63.46	\$61.87			\$1.73	\$127.06
TOTAL OPERATING EXPENSES		_	7.66 HR	\$445.26	\$112.20	\$89.35	\$32.08	\$201.36	\$880.24
NET OPERATING PROFIT									(\$231.13)
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT		(	\$152.93 @	5.50%	)				\$8.41 \$79.41

## TABLE 10. Upland cotton (picker), flood-irrigated, budgeted per acre costs and returns for a 500 acre farm with above average management, Artesia-Lake Arthur area, 2002.

GROSS RETURN	•	\$649.11	
	\$566.69	¢00.40	
RETURN OVER VARIABLE EXPENSES FIXED EXPENSES	\$201.36	\$82.42	(GROSS MARGIN)
NET FARM INCOME	φ201.30	(\$118.94)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$112.20	(\$110.54)	(REFORM TO OAT TIAE, EADOR, EADOR RINN)
NET OPERATING PROFIT	•••==•	(\$231.13)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$87.82		
RETURN TO LAND AND RISK		(\$318.95)	

TABLE 11. Upland cotton (stripper), flo above average managemen Projected 2016 Planting dates: April 15 Harvesting dates: Octob	nt, Artesia-Lake Arthur a - May 15	er acre costs and returns for a rea,	500 acre farm wi	ith				
ITEM	PRICE	YIELD						TOTAL
GROSS RETURNS								
COTTON LINT	\$0.670	700 LBS						\$469.00
COTTON SEED	\$0.075	1,120 LBS						\$84.00
	\$0.000	700 LBS						\$0.00
COUNTER CYCLICAL PAYMENT	\$0.137	700 LBS						\$96.11
TOTAL								\$649.11
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
SEED	\$7.55	20 LBS	\$151.00					\$151.00
FOLIAR FERTILIZER	\$12.00	1 X/ACRE	\$12.00					\$12.00
INSECT SCOUTING	\$7.00	1 ACRE	\$7.00					\$7.00
HERBICIDE (CUSTOM)	\$49.94	1 X/ACRE 3 X/ACRE	\$49.94 \$27.42					\$49.94 \$37.42
INSECTICIDE (CUSTOM) CROP INSURANCE	\$37.42	FCIC	\$37.42 \$0.74					\$37.42 \$0.74
PUMP WATER* CROP INSURANCE	\$0.00	30 AC. IN.	\$0.00					\$0.00
	φ0.00						-	
SUBTOTAL			\$258.10					\$258.10
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	145 HP	0.17 HR		\$1.28	\$3.58	\$1.15	\$1.59	\$7.59
PLOW	145 HP	0.48 HR		\$3.60	\$10.10	\$3.90	\$4.95	\$22.55
DISC (2X)	145 HP	0.34 HR		\$2.55	\$7.15	\$2.30	\$3.18	\$15.18
FLOAT	145 HP	0.16 HR		\$1.20	\$3.37	\$0.64	\$1.32	\$6.53
LIST PRE-IRRIGATE	145 HP	0.18 HR 0.75 HR		\$1.35 \$5.62	\$3.79 \$4.00	\$1.07 \$1.36	\$2.36	\$8.57 \$14.14
CULTIVATOR	65 HP	0.75 HR 0.21 HR		\$5.63 \$1.58	\$4.99 \$2.45	\$1.30 \$0.48	\$2.17 \$1.15	\$14.14 \$5.66
PLANTER	70 HP	0.26 HR		\$1.95	\$4.04	\$0.96	\$5.32	\$12.27
SLED	70 HP	0.15 HR		\$1.13	\$2.33	\$0.35	\$1.39	\$5.20
CULTIVATOR (3X)	65 HP	0.63 HR		\$4.73	\$7.35	\$1.44	\$3.45	\$16.97
HAND HOE (CUSTOM) IRRIGATE (3X)		1.50 HR	\$20.00	\$11.25	\$14.96	\$4.07	\$6.52	\$20.00 \$36.81
SUBTOTAL		4.83 HR	\$20.00	\$36.23	\$64.09	\$17.73	\$33.41	\$171.46
HARVEST OPERATIONS								
COTTON STRIPPER	70 HP	0.62 HR		\$4.65	\$9.63	\$4.19	\$64.76	\$83.23
HAUL	65 HP	0.02 HR 0.75 HR		\$4.65 \$5.63	\$9.63 \$8.75	\$4.19 \$0.99	ъо4.76 \$3.99	\$03.23 \$19.36
GIN COTTON (CUSTOM)			\$134.89	<i><b>Q</b></i>	<b>~</b> 011 <b>0</b>	<b>\$</b> 0.00	ŶŨĨŨŨ	\$134.89
SUBTOTAL		1.37 HR	\$134.89	\$10.28	\$18.38	\$5.18	\$68.75	\$237.47
POSTHARVEST OPERATIONS								
SHREDDER	70 HP	0.14 HR		\$0.56	\$2.17	\$0.35	\$2.73	\$5.81
SUBTOTAL		0.14 HR		\$0.56	\$2.17	\$0.35	\$2.73	\$5.81

### OVERHEAD EXPENSES

DOWNTIME EMPLOYEE BENEFITS INSURANCE LAND TAXES SUPERVISION AND MANAGEMENT		0.89 H	R	\$0.03	\$6.69 \$8.47 \$45.65			\$1.73	\$6.69 \$8.47 \$0.03 \$1.73 \$45.65
OTHER EXPENSES				\$63.43	¢c				\$63.43
SUBTOTAL	-	0.89 H	R	\$63.46	\$60.81			\$1.73	\$126.00
TOTAL OPERATING EXPENSES	-	7.23 H	R	\$476.44	\$107.87	\$84.64	\$23.26	\$106.63	\$798.84
NET OPERATING PROFIT									(\$149.73)
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT	(	\$152.10	@	5.50%	)				\$8.37 \$43.87
RETURN TO LAND AND RISK									(\$201.97)

RETURN OVER VARIABLE EXPENSES\$64.77(GROSS MARGIN)FIXED EXPENSES\$106.63	GROSS RETURN	\$649.11	
FIXED EXPENSES \$106.63			
	RETURN OVER VARIABLE EXPENSES	\$64.77	(GROSS MARGIN)
	FIXED EXPENSES \$1	06.63	
NET FARMI INCOME (\$41.00) (RETORN TO CAFITAL, LADOR, LAND & RISK)	NET FARM INCOME	(\$41.86)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST \$107.87	LABOR AND MANAGEMENT COST \$1	07.87	
NET OPERATING PROFIT (\$149.73) (RETURN TO CAPITAL, LAND & RISK)	NET OPERATING PROFIT	(\$149.73)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS \$52.24	CAPITAL COSTS \$	52.24	
RETURN TO LAND AND RISK (\$201.97)	RETURN TO LAND AND RISK	(\$201.97)	

Projected 2016 Planting dates: April 1	nt, Artesia-Lake Arthur area, - April 15							
Harvesting dates: Sept ITEM	PRICE	YIELD						ΤΟΤΑ
GROSS RETURNS								
RED CHILE	\$0.73	3,200 LBS						\$2,336.00
TOTAL								\$2,336.00
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS					ΤΟΤΑ
SEED	\$36.40	8 LBS	\$291.20					\$291.20
NITROGEN (N)	\$0.48	120 LBS	\$57.60					\$57.60
PHOSPHATE (P205)	\$0.61	70 LBS	\$42.70					\$42.7
HERBICIDE (CUSTÓM)	\$38.10	1 X/ACRE	\$38.10					\$38.10
INSECTICIDE (CUSTOM)	\$45.04	3 X/ACRE	\$45.04					\$45.0
CROP INSURANCE		400 DOLLARS	\$20.00					\$20.00
NOVA CHEMICAL APPLICATION PUMP WATER*	\$7.00	0 AI OZ PER ACRE 48 AC. IN.	\$0.00					\$0.00
SUBTOTAL			\$494.63					\$494.63
	POWER	ACCOMPLISHMENT	PURCHASED		FUEL &		FIXED	
PREHARVEST OPERATIONS	UNIT	RATE	INPUTS	LABOR	LUBE	REPAIRS	COST	ΤΟΤΑ
PLOW	145 HP	0.48 HR		\$3.60	\$10.10	\$3.90	\$4.95	\$22.5
DISC (2X)	145 HP	0.34 HR		\$2.55	\$7.15	\$2.30	\$3.18	\$15.18
PLANE	145 HP	0.16 HR		\$1.20	\$3.37	\$0.65	\$2.83	\$8.0
FERTILIZE	DEALER APPLIED			<b>•</b> · • • •	<b>A</b>	<b>•</b> · · • <b>-</b>		<b>^</b>
	145 HP	0.18 HR		\$1.35	\$3.79	\$1.07	\$2.36	\$8.5
		0.75 HR		\$5.63	\$3.99 \$3.45	\$1.09	\$1.74	\$12.4
CULTIVATOR PLANTER	65 HP 70 HP	0.21 HR 0.26 HR		\$1.58 \$1.95	\$2.45 \$4.04	\$0.48 \$0.96	\$1.15 \$5.32	\$5.6 \$12.2
CULTIVATOR (5X)	65 HP	1.05 HR		\$7.88	\$4.04 \$12.25	\$0.98 \$2.41	\$5.32 \$5.75	\$12.2
THIN (CUSTOM)	0311	1.03 110	\$45.00	Ψ1.00	ψ12.25	φ2.41	ψ0.70	\$45.00
IRRIGATE (7X)		3.50 HR	ψ+0.00	\$26.25	\$27.92	\$7.60	\$12.18	\$73.96
HAND HOE (CUSTOM)			\$20.00	Ψ20.20	Ψ21.02	φr.00	φ12.10	\$20.00
CHEMICAL APPLICATION (CUSTOM)	)		\$0.00					\$0.00
SUBTOTAL		6.93 HR	\$65.00	\$51.98	\$75.06	\$20.46	\$39.45	\$251.9
HARVEST OPERATIONS								
HAND PICK (CUSTOM)			\$640.00					\$640.00
FIELD HAUL	145 HP	0.90 HR		\$6.75	\$18.93	\$3.60	\$8.14	\$37.43
HAUL (CUSTOM)			\$96.00					\$96.00
SUBTOTAL		0.90 HR	\$736.00	\$6.75	\$18.93	\$3.60	\$8.14	\$773.43
POSTHARVEST OPERATIONS								
SHREDDER	70 HP	0.14 HR		\$1.05	\$2.17	\$0.35	\$2.73	\$6.30
SUBTOTAL		0.14 HR		\$1.05	\$2.17	\$0.35	\$2.73	\$6.30
OVERHEAD EXPENSES								
DOWNTIME		0.93 HR		\$6.98 \$10.76				\$6.98

EMPLOYEE BENEFITS INSURANCE LAND TAXES SUPERVISION AND MANAGEMENT OTHER EXPENSES		0.00		\$0.03 \$63.43	\$10.76 \$163.93			\$1.73	\$10.76 \$0.03 \$1.73 \$163.93 \$63.43
SUBTOTAL	-	0.93	HR	\$63.46	\$181.66			\$1.73	\$246.86
TOTAL OPERATING EXPENSES	-	8.90	HR	\$1,359.10	\$241.44	\$96.16	\$24.41	\$52.06	\$1,773.16
NET OPERATING PROFIT									\$562.84
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT	(	\$273.70	@	5.50%	)				\$15.05 \$19.91
RETURN TO LAND AND RISK									\$527.87

GROSS RETURN		\$2,336.00	
VARIABLE OPERATING EXPENSES	\$1,479.67		
RETURN OVER VARIABLE EXPENSES		\$856.33	(GROSS MARGIN)
FIXED EXPENSES	\$52.06		
NET FARM INCOME		\$804.27	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$241.44		
NET OPERATING PROFIT		\$562.84	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$34.96		
RETURN TO LAND AND RISK		\$527.87	
RETORN TO EAND AND RISK		ψ521.01	

## TABLE 13. Summary of per acre costs and returns for a 500 acre farm with above average management, Artesia-Lake Arthur area, Projected 2016

	ALFALFA ESTABLISHMENT	ALFALFA HAY	BARLEY	OAT HAY	PICKER COTTON	STRIPPER COTTON	RED CHILE
		TONS	CWT	TONS	LBS	LBS	LBS
PRIMARY YIELD		6.50	35.00	3.50	700.00	700.00	3200.00
PRIMARY PRICE		\$195.00	\$6.12	\$165.00	\$0.72	\$0.67	\$0.73
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		\$1,307.50	\$254.20	\$577.50	\$649.11	\$649.11	\$2,336.00
CASH OPERATING EXPENSES							
SEED	\$120.00	•	\$114.00	\$40.00	\$113.25	\$151.00	\$291.20
FERTILIZER	<b>•</b> • • • •	\$82.00	\$72.00	\$37.50	\$12.00	\$12.00	\$100.30
CHEMICALS	\$35.69	\$95.19	\$22.04		\$131.73	\$94.36	\$83.13
CROP INSURANCE OTHER PURCHASED INPUTS		\$178.58	\$2.94		\$0.53	\$0.74	\$20.00
CANAL WATER		φ170.50					
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$42.69	\$45.51	\$19.42	\$33.02	\$69.40	\$64.70	\$64.25
FUEL-IRRIGATION	\$5.32	\$33.24	\$18.62	\$18.62	\$19.95	\$19.95	\$31.91
REPAIRS	\$12.78	\$33.51	\$11.11	\$17.52	\$32.08	\$23.26	\$24.41
CUSTOM CHARGES			\$24.91		\$124.30	\$154.89	\$801.00
LAND TAXES		\$1.73	\$1.73	\$1.73	\$1.73	\$1.73	\$1.73
OTHER EXPENSES	\$0.01	\$63.46	\$63.44	\$63.44	\$63.46	\$63.46	\$63.46
TOTAL CASH EXPENSES	\$216.48	\$533.23	\$350.21	\$211.84	\$568.42	\$586.08	\$1,481.40
RETURN OVER CASH EXPENSES	(\$216.48)	\$774.27	(\$96.01)	\$365.66	\$80.69	\$63.03	\$854.60
FIXED EXPENSES	\$32.00	\$116.99	\$20.74	\$29.14	\$199.62	\$104.89	\$50.33
TOTAL EXPENSES	\$248.48	\$650.22	\$370.95	\$240.98	\$768.05	\$690.97	\$1,531.73
NET FARM INCOME	(\$248.48)	\$657.28	(\$116.75)	\$336.52	(\$118.94)	(\$41.86)	\$804.27
LABOR AND MANAGEMENT COSTS	\$51.87	\$155.08	\$46.30	\$76.79	\$112.20	\$107.87	\$241.44
NET OPERATING PROFIT	(\$300.35)	\$502.20	(\$163.05)	\$259.73	(\$231.13)	(\$149.73)	\$562.84
CAPITAL COSTS INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT		\$10.69 \$20.44	\$2.58 \$7.20	\$2.94 \$11.82	\$8.41 \$79.41	\$8.37 \$43.87	\$15.05 \$19.91
TOTAL CAPITAL COSTS	\$0.00	\$31.12	\$9.78	\$14.76	\$87.82	\$52.24	\$34.96
RETURN TO LAND AND RISK	(\$300.35)	\$471.08	(\$172.83)	\$244.97	(\$318.95)	(\$201.97)	\$527.87

GROSS RETURNS					
ALFALFA HAY	260	ACRES			
CROP			\$339,950		
BARLEY	17	ACRES	<b>*</b> 4 00 4		
			\$4,321		
			\$0 \$0		
COUNTER CYCLICAL PAYM			\$0		
OAT HAY	20	ACRES			
CROP	05		\$11,550		
PICKER COTTON	95	ACRES	<b>A</b> 1 <b>7</b> 000		
			\$47,880		
COTTON SEED			\$7,980		
DIRECT PAYMENT			\$0		
COUNTER CYCLICAL PAYM			\$5,805		
STRIPPER COTTON	68	ACRES			
COTTON LINT			\$31,892		
COTTON SEED			\$5,712		
DIRECT PAYMENT			\$0		
COUNTER CYCLICAL PAYME			\$6,535		
RED CHILE	40	ACRES			
CROP			\$93,440		
GROSS RETURN			-	\$555,066	
ASH OPERATING EXPENSES					
SEED			\$41,653		
FERTILIZER			\$29,262		
CHEMICALS			\$49,236		
CROP INSURANCE			\$950		
OTHER PURCHASED INPUT	S		\$46,432		
CANAL WATER			\$0		
FUEL, OIL & LUBRICANTS-EC			\$28,605		
FUEL-IRRIGATION			\$14,137		
REPAIRS			\$15,522		
CUSTOM CHARGES			\$54,804		
LAND TAXES			\$867		
OTHER EXPENSES			\$31,729		
			φ01,720		
TOTAL CASH EXPE	NSES		-	\$313,197	
				<i>\\\</i> 010,101	
ETURN OVER CASH EXPENSI	ES				\$241,870
	-				, , 51 0
IXED EXPENSES			\$45,508		
			+ -,		
TOTAL EXPENSES				\$358,704	
ET FARM INCOME					\$196,362
ABOR AND MANAGEMENT CO	STS		\$72,992		
ET OPERATING PROFIT					\$123,370
APITAL COSTS					
INTEREST ON OPERATING O	CAPITAL		\$4,851		
INTEREST ON EQUIPMENT I	NVESTMENT	Г	\$16,996		
TOTAL CAPITAL CO	OSTS		-	\$21,848	
ETURN TO LAND AND RISK					

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

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**	
\$1,000 /ACRE	\$66,523	17.47%	
\$2,500 /ACRE	\$14,023	8.47%	
\$4,000 /ACRE	(\$38,477)	5.59%	
\$5,500 /ACRE	(\$90,977)	4.17%	

\* 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)