

MICROCOMPUTER CROP COST AND RETURN GENERATOR

BUDGET AREA..... ARTESIA-LAKE ARTHUR AREAProjected 2013.
FARM SIZE..... 500 ACRES
IRRIGATION TYPE..... SPRINKLER
NUMBER OF CROPS..... 6

VERSION 1.0

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* YOU MAY ENTER DATA IN ANY INPUT TABLE WITH HIGHLIGHTED CELLS OR YOU MAY STRIKE [ENTER] AND RETURN TO THE MENU

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TABLE 10. Cucumbers, sprinkler-irrigated, budgeted per acre costs ar
above average management, Artesia-Lake Arthur, 2003.
Planting dates: April 1 - April 15
Harvesting dates: June 1 - July 31

ITEM	PRICE
GROSS RETURNS	
CUCUMBERS	5
TOTAL	
PURCHASED INPUTS	
SEED	40
FERTILIZER (18-27-12)	0.14
FERTILIZER (32-0-0)	0.11
HERBICIDE	7.872
INSECTICIDE (CUSTOM)	10.8928
PUMP WATER*	

SUBTOTAL	
<u>PREHARVEST OPERATIONS</u>	POWER UNIT
DISC	126 HP
PLOW	126 HP
DISC (2X)	126 HP
FLOAT	70 HP
FERTILIZE (CUSTOM)	DEALER APPLIED
PRE-IRRIGATE	
CULTIVATOR	65 HP
PLANTER	70 HP
CULTIVATOR (2X)	40 HP
THIN & HOE (2X)	
IRRIGATE (14X)	
SUBTOTAL	
<u>HARVEST OPERATIONS</u>	
HARVEST (CUSTOM)	
HAUL (TRAILER)	40 HP
SUBTOTAL	
<u>OVERHEAD EXPENSES</u>	
DOWNTIME	
EMPLOYEE BENEFITS	
INSURANCE	
LAND TAXES	
SUPERVISION AND MANAGEMENT	
OTHER EXPENSES	
SUBTOTAL	
TOTAL OPERATING EXPENSES	
NET OPERATING PROFIT	
INTEREST ON OPERATING CAPITAL	(
INTEREST ON EQUIPMENT INVESTMENT	
<u>RETURN TO LAND AND RISK</u>	
* Pump water costs are shown under irrigation in the preharvest operations section	
BUDGET SUMMARY	
GROSS RETURN	
VARIABLE OPERATING EXPENSES	#REF!
RETURN OVER VARIABLE EXPENSES	
FIXED EXPENSES	#REF!
NET FARM INCOME	
LABOR AND MANAGEMENT COST	#REF!
NET OPERATING PROFIT	
CAPITAL COSTS	#REF!
<u>RETURN TO LAND AND RISK</u>	

id returns for a 500 acre farm with

YIELD	TOTAL
180 CWT	900
	<hr/> 900.00

QUANTITY	PURCHASED INPUTS	TOTAL
5 LBS	200	200
150 LBS	21	21
150 LBS	16.5	16.5
1 X/ACRE	7.872	7.872
1 X/ACRE	10.8928	10.8928
24 AC. IN.		

	256.26					256.26
ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
0.17 HR		1.224	4.20705405	1.149387	2.0819634	8.662404454
0.48 HR		3.456	11.8787409	4.286928	4.59894719	24.22061605
0.34 HR		2.448	8.41410811	2.298774	4.1639268	17.32480891
0.16 HR		1.152	2.923008	0.153936	0.74938144	4.978325437
0.05 HR		0.375	1.40391761	0	1.3293053	3.108222911
0.21 HR		1.512	3.879876	1.573719	1.76575607	8.731351071
0.26 HR		1.872	4.749888	0.669786	5.8635779	13.1552519
0.42 HR		3.024	5.96904	3.05697	4.87477189	16.92478189
	40					40
3.5 HR		26.25	19.6548466	0	18.6102742	64.51512076
5.42 HR	40.00	41.31	63.08	13.19	44.04	201.62
	585					585
1 HR		3.12	14.212	#REF!	#REF!	#REF!
1.00 HR	585.00	3.12	14.21	#REF!	#REF!	#REF!
0 HR		0				0
		7.43634				7.43634
	0.02644032					0.02644032
					1.75416667	1.75416667
		#REF!				#REF!
	56.5012641					56.50126411
0.00 HR	56.53	#REF!			1.75	#REF!
6.42 HR	937.79	#REF!	77.29	#REF!	#REF!	#REF!
						#REF!
#REF! @	0.075)					#REF!
						30.30545385
						#REF!

ions section.
SUMMARY

900

#REF! (GROSS MARGIN)

#REF! (RETURN TO CAPITAL, LABOR, LAND & RISK)

#REF! (RETURN TO CAPITAL, LAND & RISK)

#REF!

TABLE 2. Pumping costs and data for irrigation wells, Artesia-Lake Arthur area, 2002.

INPUT DATA

DELIVERY PSI:		DEPTH CHARACTERISTICS:	
SPRINKLER HEAD..	40	STATIC.....	.....
		DRAW DOWN.....	.....
		TOTAL HEAD.....	.....
		CASING.....	.....
GALLONS PER MINUTE (GPM)...	500		
WORK HORSEPOWER.....	10.1010101		
EFFICIENCY FACTOR:			
ELECTRICITY.....	0.47		
NATURAL GAS.....	0.12		
LP GAS.....	0.12		
DIESEL.....	0.16		
FUEL COST PER UNIT:	:		
ELECTRICITY.....	5.6 CENTS/K	wHr	
NATURAL GAS.....	3.48 \$/MCF		
LP GAS.....	0.84 \$/GAL		
DIESEL.....	1.05 \$/GAL		

TOTAL FUEL COSTS:

ELECTRIC WELL:

COST PER HOUR.....	.....\$	0.92842191
COST PER ACRE INCH.....	.....\$	0.84034561

NATURAL GAS WELL:

COST PER HOUR.....	.....\$	0.84728978
COST PER ACRE INCH.....	.....\$	0.76691022

LP GAS WELL:

COST PER HOUR.....	.....\$	1.98743376
COST PER ACRE INCH.....	.....\$	1.79889254

DIESEL WELL:

COST PER HOUR.....	.....\$	1.21636501
COST PER ACRE INCH.....	.....\$	1.10097252

TABLE 3. Equipment summary for a 500 acre sprinkler-irrigated farm with above average management 2002.

ITEM & SIZE	ANNUAL HOURS OF USE	NUMBER	VARIABLE COSTS	
			TOTAL VALUE	FUEL AND LUBRICANT
TRACTOR 40 HP	74.1	1	675	221.7072
TRACTOR 65 HP	245.485	1	2050	1193.54807
TRACTOR 70 HP	169.48	1	5600	657.717984
TRACTOR 96 HP	356.25	1	6560	2014.551
TRACTOR 145 HP	309.925	1	56165	2647.13916
COTTON PICKER 4-ROW	60.68	1	104500	385.342272
COTTON STRIPPER MTD	36.89	1	3860	
SWATHER 16 FT	176.84	1	19990	695.193408
BALE WAGON S.P.	320.8	1	20600	2486.8416
BALER PTO	401	2	10500	
PLANTER 4-ROW	36.79	1	3400	
CULTIVATOR 4-ROW	118.86	1	1500	
DISC 12 FT	106.845	1	2250	
DRILL 12 FT	27.405	1	2200	
PLANE 14 FT	32.49	1	2750	
FLOAT 14 FT	50	1	600	
PLOW (MOLDBOARD) 4-16 IN	103.2	1	4000	
SHREDDER 4-ROW	19.81	1	2500	
COTTON TRAILER	126.625	5	6000	
RAKE 8 FT	74.1	1	3400	
SLED	21.225	1	375	
NATURAL GAS BOOSTER PUMP	18553.4231	3	7500	9524.06041
SIDE-ROLL SPRINKLER	18553.4231	13	32500	
NATURAL GAS WELL	18553.4231	11	121000	15720.1257
			420,475	35,546

60	DELIVERY PSI:			
20	BOOSTER PUMP..	45		
80				
250				
	GALLONS PER MINUTE (GPM)...		500	
	WORK HORSEPOWER.....	5.97348485		
	EFFICIENCY FACTOR:			
	ELECTRICITY.....		0.47	
	NATURAL GAS.....		0.12	
	LP GAS.....		0.12	
	DIESEL.....		0.16	
	FUEL COST PER HOUR:			
	ELECTRICITY.....		5.6 CENTS/K	wHr
	NATURAL GAS.....		3.48	\$/MCF
	LP GAS.....		0.84	\$/GAL
	DIESEL.....		1.05	\$/GAL
	<u>TOTAL FUEL COSTS (BOOSTER PUMP):</u>			
	ELECTRIC:			
	COST PER HOUR.....	.....\$	0.56141409	
	COST PER ACRE INCH	.....\$	0.50815461	
	NATURAL GAS:			
	COST PER HOUR.....	.....\$	0.51333171	
	COST PER ACRE INCH	.....\$	0.46463364	
	LP GAS:			
	COST PER HOUR.....	.....\$	1.18670211	
	COST PER ACRE INCH	.....\$	1.07412364	
	DIESEL:			
	COST PER HOUR.....	.....\$	0.7291367	
	COST PER ACRE INCH	.....\$	0.65996593	

it, Artesia-Lake Arthur area,

<u>..E COSTS</u>			<u>FIXED COSTS</u>		
REPAIR	FUEL,LUBE PER HR	REPAIR PER HR	DEPRE- CIATION	TAXES	TOTAL PER HOUR
15.1905	2.992	0.205	50	9.4	0.80161943
275.43417	4.862	1.122	137.5	20.68	0.64435709
137.2788	3.8808	0.81	250	28.2	1.64149162
748.5525	5.65488	2.1012	343.333333	38.728	1.07245287
649.447838	8.541225	2.0955	2794	262.636	9.86250222
2950.2616	6.3504	48.62	9350	703.12	165.674357
118.7858		3.22	766.666667	43.24	21.9546399
2577.443	3.9312	14.575	2750	206.8	16.720199
7159	7.752	22.3160848	2250	169.2	7.54114713
1168.915		2.915	1100	82.72	2.94942643
200.1376		5.44	680	25.568	19.178255
101.6253		0.855	200	11.28	1.77755342
137.028713		1.2825	300	16.92	2.96616594
75.96666		2.772	440	16.544	16.6591498
17.8695		0.55	366.666667	20.68	11.9220273
6.75		0.135	60	3.384	1.26768
235.296		2.28	533.333333	30.08	5.45943152
22.7815		1.15	333.333333	18.8	17.7755342
27.351		0.216	800	45.12	6.67419546
231.7848		3.128	340	25.568	4.9334413
6.2083125		0.2925	50	2.82	2.48857479
3469.49011	0.51333171	0.187	1000	56.4	0.05693828
872.010884		0.047	4333.33333	244.4	0.24673255
3710.68461	0.84728978	0.2	11000	909.92	0.71307165
<u>24,915</u>			<u>40,228</u>	<u>2,992</u>	

TABLE 2. Pumping costs and data for irrigation wells, Artesia-Lake Arthur area, 2002.

INPUT DATA

DELIVERY PSI:		DEPTH CHARACTERISTICS:		DELIVERY PSI:	
SPRINKLER HEAD..	40	STATIC.....	60	BOOSTER PUMP..	45
		DRAW DOWN.....	20		
		TOTAL HEAD.....	80		
		CASING.....	250		
GALLONS PER MINUTE (GPM)...	500			GALLONS PER MINUTE (GPM)...	500
WORK HORSEPOWER.....	10.1010101			WORK HORSEPOWER.....	5.97348485
EFFICIENCY FACTOR:		EFFICIENCY FACTOR:		EFFICIENCY FACTOR:	
ELECTRICITY.....	0.47	ELECTRICITY.....	0.47	ELECTRICITY.....	0.47
NATURAL GAS.....	0.12	NATURAL GAS.....	0.12	NATURAL GAS.....	0.12
LP GAS.....	0.12	LP GAS.....	0.12	LP GAS.....	0.12
DIESEL.....	0.16	DIESEL.....	0.16	DIESEL.....	0.16
FUEL COST PER UNIT:		FUEL COST PER HOUR:		FUEL COST PER HOUR:	
ELECTRICITY.....	6.84 CENTS/K wHr	ELECTRICITY.....	6.84	ELECTRICITY.....	6.84
NATURAL GAS.....	3.71 \$/MCF	NATURAL GAS.....	3.71	NATURAL GAS.....	3.71
LP GAS.....	0.98 \$/GAL	LP GAS.....	0.98	LP GAS.....	0.98
DIESEL.....	1.4 \$/GAL	DIESEL.....	1.4	DIESEL.....	1.4
TOTAL FUEL COSTS:			TOTAL FUEL COSTS (BOOSTER PUMP):		
ELECTRIC WELL:			ELECTRIC:		
COST PER HOUR.....	.....\$	1.12735818	COST PER HOUR.....\$	
COST PER ACRE INCH.....	.....\$	1.02040947	COST PER ACRE INCH.....\$	
NATURAL GAS WELL:			NATURAL GAS:		
COST PER HOUR.....	.....\$	0.90130606	COST PER HOUR.....\$	
COST PER ACRE INCH.....	.....\$	0.81580216	COST PER ACRE INCH.....\$	
LP GAS WELL:			LP GAS:		
COST PER HOUR.....	.....\$	2.31367272	COST PER HOUR.....\$	
COST PER ACRE INCH.....	.....\$	2.0941823	COST PER ACRE INCH.....\$	
DIESEL WELL:			DIESEL:		
COST PER HOUR.....	.....\$	1.61182002	COST PER HOUR.....\$	
COST PER ACRE INCH.....	.....\$	1.45891202	COST PER ACRE INCH.....\$	

TABLE 3. Equipment summary for a 500 acre sprinkler-irrigated farm with above average management, Artesia-Lake Arthur area, 2001.

EQUIPMENT		VARIABLE COSTS							FIXED COSTS	
ITEM &	SIZE	ANNUAL HOURS OF USE	NUMBER	TOTAL VALUE	FUEL AND LUBRICANT	REPAIR	FUEL, LUBE PER HR	REPAIR PER HR	DEPRECIATION	TAXES
TRACTOR 40 HP		74.1	1	750	288.21936	15.1905	3.8896	0.205	50	8.95
TRACTOR 65 HP		245.485	1	2000	1551.61249	275.43417	6.3206	1.122	137.5	19.69
TRACTOR 70 HP		169.48	1	5365	876.957312	155.0742	5.1744	0.915	250	26.85
TRACTOR 96 HP		356.25	1	6800	2686.068	748.5525	7.53984	2.1012	343.333333	36.874
TRACTOR 145 HP		309.925	1	26620	3918.50575	1024.94057	12.6434	3.30706	2688.66667	144.3814
COTTON PICKER 4-ROW		60.68	1	84770	513.789696	3177.2048	8.4672	52.36	9350	669.46
COTTON STRIPPER MTD		36.89	1	3800		118.7858		3.22	766.66667	41.17
SWATHER 16 FT		176.84	1	15215	926.924544	0	5.2416	0	2750	196.9
BALE WAGON S.P.		320.8	1	17200	3232.89408	7159	10.0776	22.3160848	2250	161.1
BALER PTO		401	2	9440		0		0	1100	78.76
PLANTER 4-ROW		36.79	1	3400		200.1376		5.44	680	24.344
CULTIVATOR 4-ROW		118.86	1	1500		99.8424		0.84	200	10.74
DISC 12 FT		106.845	1	2250		137.028713		1.2825	300	16.11
DRILL 12 FT		27.405	1	2200		85.61322		3.124	440	15.752
PLANE 14 FT		32.49	1	2750		17.8695		0.55	366.66667	19.69
FLOAT 14 FT		50	1	600		7.2		0.144	60	3.222
PLOW (MOLDBOARD) 4-16 IN		103.2	1	4000		235.296		2.28	533.333333	28.64
SHREDDER 4-ROW		19.81	1	2500		22.7815		1.15	333.333333	17.9
COTTON TRAILER		126.625	5	6000		30.39		0.24	800	42.96
RAKE 8 FT		74.1	1	3400		241.8624		3.264	340	24.344
SLED		21.225	1	375		6.2083125		0.2925	50	2.685
NATURAL GAS BOOSTER PUMP		18553.4231	3	7500	10116.7372	3469.49011	0.54527605	0.187	1000	53.7
SIDE-ROLL SPRINKLER		18553.4231	13	32500		872.010884		0.047	4333.33333	232.7
NATURAL GAS WELL		18553.4231	11	121000	16722.3126	3710.68461	0.90130606	0.2	11000	866.36
				361,935	40,834	21,811			40,123	2,743

CENTS/K wHr
\$/MCF
\$/GAL
\$/GAL

0.67908436
0.61466189

0.54527605
0.49354753

1.3794858
1.24861858

0.96218226
0.87090324

TOTAL
PER HOUR

0.79554656
0.64032426
1.63352608
1.06724865
9.14107628
165.119644
21.8985272
16.6642162
7.51589776
2.93955112
19.1449851
1.77301026
2.95858487
16.63025
11.8915564
1.26444
5.44547804
17.7301026
6.65713722
4.91692308
2.48221437
0.05679275
0.24610194
0.71072384

TABLE 1. Acreage Summary, Eddy County, Artesia Lake Arthur Area, Projected 2013.

BUDGET AREA..... ARTESIA-LAKE ARTHUR AREA			
FARM SIZE.....500 ACRES			
IRRIGATION TYPE.....SPRINKLER			
NUMBER OF CROPS.....6			
ACREAGE SUMMARY:	LAND USE (ACRES)	WATER USE	
		AC.IN. PER AC.	TOTAL AC.IN.
ALFALFA ESTABLISHMENT	57.00	42	2,394
ALFALFA	285.00	48	13,680
BARLEY	8.50	28	238
ARP	0.00		
FLEX IN PICKER COTTON	1.50	28	42
OAT HAY	8.00	28	224
PICKER COTTON	59.50	28	1,666
ARP	0.00		
FLEX IN PICKER COTTON	10.50	28	294
STRIPPER COTTON	59.50	28	1,666
ARP	0.00		
FLEX IN PICKER COTTON	10.50	28	294
TOTAL	500.00		20,498
ACRE FEE PER ACRE OF WATER RIGHTS			3.42

TABLE 2. Basic cost information for the Artesia-Lake Arthur area, Projected 2013.

Item		
Labor Wage Rate:		
Equipment operators	\$/hour	\$7.20
General & Irrigators	\$/hour	\$7.50
Purchased Inputs:		
Fertilizer:		
Nitrogen (N)	\$/pound	\$0.61
Phosphate (P ₂ O ₅)	\$/pound	\$0.60
Chemicals:		
Herbicide	\$/acre	\$0.00
Insecticide	\$/acre	\$0.00
Seed:		
Alfalfa	\$/pound	\$6.50
Cotton picker	\$/pound	\$8.00
stripper	\$/pound	\$8.00
Oats	\$/pound	\$0.38
Barley	\$/pound	\$0.49
Wire:	\$/pound	\$3.12
Natural gas (service charge)	\$/MCF	\$4.00
Diesel fuel	\$/month	\$10.00
Gasoline	\$/gallon	\$3.00
Electricity	\$/gallon	\$3.80
LP Gas	cents/KwHr	8.32
	\$/gallon	\$2.75
Employee Liability Insurance	\$/ \$1,000 wages	\$0.64
Employee Benefits	percent/wages	18.00%
Labor Downtime	percent	0.00%
Financial Rates:		
Operating Capital Interest Rate	percent	7.50%
Land Interest Rate	percent	7.00%
Equipment Interest Rate	percent	7.50%
Real Interest Rate	percent	4.00%
Land Taxes	\$250.00 /acre (full value)	\$1.75
Personal Property Tax Rate - NR	\$/ \$1,000 (Assessed Value)	\$21.05
- R		\$20.14
Supervision Factors		
Field Crop-Irrigation	\$/labor hour	\$0.05
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	0.00%

TABLE 3. Overhead cost information for the Artesia-Lake Arthur area, Projected 2013.

Item			
Electricity (Domestic & Shop)		\$237.16 per month	\$2,845.92
Telephone		\$118.58 per month	\$1,422.96
Accounting & Legal			\$1,645.60
Misc. Supplies & Hand Tools			\$1,539.12
Pickup and Auto			
miles	24,200	@ \$0.500 per mile	\$12,100.00
Insurance			
- general liability (non-employee)			\$1,837.99
- fire/theft			\$1,645.60
Property Taxes			
- non-planted land			\$0.00
- other than land & machinery			\$0.00
Building repairs and maintenance			\$1,389.08
Dues, fees, publications			\$423.50
Farmstead Equipment			\$180.29
Total			\$25,030.06
Total Per Planted Acre			\$56.50

TABLE 6. Alfalfa establishment, sprinkler-irrigated, budgeted per acre costs and returns for a 500 acre farm with above average management, Artesia-Lake Arthur area, Projected 2013.
Planting dates: March 15 - April 30

ITEM	PRICE	YIELD	TOTAL
GROSS RETURNS			
ALFALFA HAY	\$245.00	6.50 TONS (STACKED)	\$1,592.50
TOTAL			\$1,592.50

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$6.50	20 LBS	\$130.00		\$130.00
FERTILIZER (16-20-0)	\$0.41	200 LBS	\$82.00		\$82.00
HERBICIDE	\$0.00	1 ACRE	\$0.00		\$0.00
PUMP WATER*		42 AC. IN.			
SUBTOTAL			\$212.00		\$212.00

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	145 HP	0.17 HR		\$1.22	\$4.21	\$1.15	\$2.08	\$8.66
PLOW	145 HP	0.48 HR		\$3.46	\$11.88	\$4.29	\$7.07	\$26.69
FLOAT	70 HP	0.16 HR		\$1.15	\$2.92	\$0.15	\$0.75	\$4.98
PLANE (3X)	145 HP	0.57 HR		\$4.10	\$14.11	\$2.33	\$12.07	\$32.60
DISC (2X)	145 HP	0.34 HR		\$2.45	\$8.41	\$2.30	\$4.16	\$17.32
FLOAT (2X)	70 HP	0.32 HR		\$2.30	\$5.85	\$0.31	\$1.50	\$9.96
DRILL (2X)	70 HP	0.42 HR		\$3.02	\$7.67	\$0.84	\$8.42	\$19.95
IRRIGATE (6X)		1.50 HR		\$11.25	\$59.11	\$0.00	\$34.89	\$105.26
SUBTOTAL		3.96 HR		\$28.96	\$114.16	\$11.36	\$70.94	\$225.43

HARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
SWATHER (3X)	16 FT	0.33 HR		\$2.38	\$3.71	\$0.48	\$7.23	\$13.79
RAKE	40 HP	0.05 HR		\$0.36	\$0.71	\$0.08	\$0.40	\$1.54
BALER (3X)	145 HP	0.75 HR		\$5.40	\$18.56	\$3.14	\$8.07	\$35.17
BALEWAGON (3X)	SP	0.60 HR		\$4.32	\$17.67	\$13.39	\$4.50	\$39.89
SUBTOTAL		1.73 HR		\$12.46	\$40.65	\$17.09	\$20.20	\$90.39

OVERHEAD EXPENSES	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME	0.00 HR		\$0.00				\$0.00
EMPLOYEE BENEFITS			\$7.46				\$7.46
INSURANCE		\$0.03					\$0.03
SUPERVISION AND MANAGEMENT			\$111.68				\$111.68
SUBTOTAL	0.00 HR	\$0.03	\$119.13				\$119.16

TOTAL OPERATING EXPENSES	5.69 HR	\$212.03	\$160.55	\$154.81	\$28.45	\$91.14	\$646.98
NET OPERATING PROFIT							\$945.52
INTEREST ON EQUIPMENT INVESTMENT							\$41.95
RETURN TO LAND AND RISK							\$903.57

BUDGET SUMMARY			
GROSS RETURN	\$1,592.50		
VARIABLE OPERATING EXPENSES	\$395.29		
RETURN OVER VARIABLE EXPENSES	\$1,197.21	(GROSS MARGIN)	
FIXED EXPENSES	\$91.14		
NET FARM INCOME	\$1,106.07	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$160.55		
NET OPERATING PROFIT	\$945.52	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$41.95		
RETURN TO LAND AND RISK	\$903.57		

TABLE 7. Alfalfa hay, sprinkler-irrigated, budgeted per acre costs and returns for a 500 acre farm with above average management, Artesia-Lake Arthur area, Projected 2013.
Harvesting Dates: May 5 - November 1

ITEM	PRICE	YIELD						TOTAL
GROSS RETURNS								
ALFALFA HAY	\$245.00	6.50 TONS (STACKED)						\$1,592.50
GRAZING	\$40.00							\$40.00
TOTAL								\$1,632.50
PURCHASED INPUTS								
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
INSECTICIDE (CUSTOM)	\$0.00	2 X/ACRE	\$0.00					\$0.00
HERBICIDE (CUSTOM)	\$0.00	1 X/ACRE	\$0.00					\$0.00
INSECT SCOUTING	\$5.25	1 ACRE	\$5.25					\$5.25
FERTILIZER (5-26-30)	\$0.61	200 LBS	\$122.00					\$122.00
WIRE	\$3.12	56 LBS	\$173.80					\$173.80
DRYING AGENT (AGRI-DRY)	\$8.26	1 /TON	\$53.66					\$53.66
ESTABLISHMENT: Principal		5 YEARS					\$180.71	\$180.71
: Interest							\$38.32	\$38.32
PUMP WATER*		48 AC. IN.						
SUBTOTAL			\$354.71				\$219.03	\$573.75
PREHARVEST OPERATIONS								
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
IRRIGATE (6X)		1.50 HR		\$11.25	\$67.56	\$0.00	\$39.88	\$118.69
SUBTOTAL		1.50 HR		\$11.25	\$67.56	\$0.00	\$39.88	\$118.69
HARVEST OPERATIONS								
SWATHER (5X)	16 FT SP	0.55 HR		\$3.96	\$6.18	\$0.80	\$12.05	\$22.98
RAKE (5X)	40 HP	0.25 HR		\$1.80	\$3.55	\$0.38	\$1.99	\$7.72
BALER (5X)	96 HP	1.25 HR		\$9.00	\$22.84	\$1.46	\$3.87	\$37.16
BALE WAGON (5X)	SP	1.00 HR		\$7.20	\$29.46	\$22.32	\$7.51	\$66.48
SUBTOTAL		3.05 HR		\$21.96	\$62.02	\$24.95	\$25.41	\$134.34
OVERHEAD EXPENSES								
DOWNTIME		0.00 HR		\$0.00				\$0.00
EMPLOYEE BENEFITS				\$5.98				\$5.98
INSURANCE			\$0.02					\$0.02
LAND TAXES							\$1.75	\$1.75
SUPERVISION AND MANAGEMENT				\$114.44				\$114.44
OTHER EXPENSES			\$56.50					\$56.50
SUBTOTAL		0.00 HR		\$56.52	\$120.42		\$1.75	\$178.70
TOTAL OPERATING EXPENSES		4.55 HR		\$411.24	\$153.63	\$129.58	\$24.95	\$286.08
NET OPERATING PROFIT								\$627.03
INTEREST ON OPERATING CAPITAL		(\$201.49 @ 7.50%)						\$15.11
INTEREST ON EQUIPMENT INVESTMENT								\$22.14
RETURN TO LAND AND RISK								\$589.78

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

BUDGET SUMMARY

GROSS RETURN		\$1,632.50	
VARIABLE OPERATING EXPENSES	\$565.76		
RETURN OVER VARIABLE EXPENSES	\$1,066.74	(GROSS MARGIN)	
FIXED EXPENSES	\$286.08		
NET FARM INCOME	\$780.66	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$153.63		
NET OPERATING PROFIT	\$627.03	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$37.26		
RETURN TO LAND AND RISK	\$589.78		

TABLE 8. Barley, sprinkler-irrigated, budgeted per acre costs and returns for a 500 acre farm with above average management, Artesia-Lake Arthur area, Projected 2013.
 Planting dates: August 20 - September 30
 Harvesting dates: June 15 - July 1

ITEM	PRICE	YIELD	TOTAL
GROSS RETURNS			
BARLEY	\$6.12	35.00 CWT	\$214.20
DIRECT PAYMENT	\$0.00	35.00 CWT	\$0.00
COUNTER CYCLICAL PAYMENT	\$0.00	35.00 CWT	\$0.00
GRAZING	\$40.00		\$40.00
TOTAL			\$254.20

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$0.49	110 LBS	\$53.90		\$53.90
NITROGEN (N)	\$0.61	150 LBS	\$91.50		\$91.50
INSECTICIDE (CUSTOM)	\$0.00	1 X/ACRE	\$0.00		\$0.00
PUMP WATER*		28 AC. IN.			
CROP INSURANCE	\$5.88		\$5.88		\$5.88
SUBTOTAL			\$151.28		\$151.28

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PLOW	145 HP	0.48 HR		\$3.46	\$11.88	\$4.29	\$7.07	\$26.69
DISC (2X)	145 HP	0.34 HR		\$2.45	\$8.41	\$2.30	\$4.16	\$17.32
FERTILIZE	DEALER APPLIED							
DRILL	70 HP	0.21 HR		\$1.51	\$3.84	\$0.42	\$4.21	\$9.98
IRRIGATE (4X)		1.00 HR		\$7.50	\$39.41	\$0.00	\$23.26	\$70.17
SUBTOTAL		2.03 HR		\$14.92	\$63.54	\$7.01	\$38.71	\$124.17

HARVEST OPERATIONS								
COMBINE (CUSTOM)			\$17.91					\$17.91
HAUL (CUSTOM)			\$7.00					\$7.00
SUBTOTAL			\$24.91					\$24.91

OVERHEAD EXPENSES								
DOWNTIME		0.00 HR		\$0.00				\$0.00
EMPLOYEE BENEFITS				\$2.68				\$2.68
INSURANCE			\$0.01					\$0.01
LAND TAXES							\$1.75	\$1.75
SUPERVISION AND MANAGEMENT				\$17.87				\$17.87
OTHER EXPENSES			\$56.50					\$56.50
SUBTOTAL		0.00 HR	\$56.51	\$20.56			\$1.75	\$78.82

TOTAL OPERATING EXPENSES		2.03 HR	\$232.70	\$35.48	\$63.54	\$7.01	\$40.46	\$379.18
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NET OPERATING PROFIT								(\$124.98)
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INTEREST ON OPERATING CAPITAL	(\$95.35	@	7.50%)			\$7.15
INTEREST ON EQUIPMENT INVESTMENT								\$11.90

RETURN TO LAND AND RISK								(\$144.04)
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* Pump water costs are shown under irrigation in the preharvest operations section.

BUDGET SUMMARY

GROSS RETURN		\$254.20	
VARIABLE OPERATING EXPENSES	\$303.25		
RETURN OVER VARIABLE EXPENSES		(\$49.05)	(GROSS MARGIN)
FIXED EXPENSES	\$40.46		
NET FARM INCOME		(\$89.51)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$35.48		
NET OPERATING PROFIT		(\$124.98)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$19.05		
RETURN TO LAND AND RISK		(\$144.04)	

TABLE 9. Oat hay, sprinkler-irrigated, budgeted per acre costs and returns for a 500 acre farm with above average management, Artesia-Lake Arthur area, Projected 2013.
 Planting dates: February 1 - February 28
 Harvesting Dates: June 1 - June 30

ITEM	PRICE	YIELD						TOTAL	
GROSS RETURNS									
OAT HAY	\$195.00	3.50 TONS (STACKED)						\$682.50	
TOTAL								\$682.50	
PURCHASED INPUTS		PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
SEED	\$0.38	100 LBS	\$38.00					\$38.00	
FERTILIZER (16-20-0)	\$0.60	150 LBS	\$90.00					\$90.00	
PUMP WATER*		28 AC. IN.							
SUBTOTAL			\$128.00					\$128.00	
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
PLOW	145 HP	0.48 HR		\$3.46	\$11.88	\$4.29	\$7.07	\$26.69	
DISC (2X)	145 HP	0.34 HR		\$2.45	\$8.41	\$2.30	\$4.16	\$17.32	
DRILL	70 HP	0.21 HR		\$1.51	\$3.84	\$0.42	\$4.21	\$9.98	
IRRIGATE (4X)		1.00 HR		\$7.50	\$39.41	\$0.00	\$23.26	\$70.17	
SUBTOTAL		2.03 HR		\$14.92	\$63.54	\$7.01	\$38.71	\$124.17	
HARVEST OPERATIONS									
SWATHER	14 FT	0.16 HR		\$1.15	\$1.80	\$0.23	\$3.51	\$6.69	
BALER	145 HP	0.25 HR		\$1.80	\$6.19	\$1.05	\$2.69	\$11.72	
BALE WAGON	S. P.	0.20 HR		\$1.44	\$5.89	\$4.46	\$1.50	\$13.30	
SUBTOTAL		0.61 HR		\$4.39	\$13.88	\$5.74	\$7.70	\$31.71	
OVERHEAD EXPENSES									
DOWNTIME		0.00 HR		\$0.00				\$0.00	
EMPLOYEE BENEFITS				\$3.48				\$3.48	
INSURANCE			\$0.01					\$0.01	
LAND TAXES							\$1.75	\$1.75	
SUPERVISION AND MANAGEMENT				\$47.87				\$47.87	
OTHER EXPENSES			\$56.50					\$56.50	
SUBTOTAL		0.00 HR	\$56.51	\$51.35			\$1.75	\$109.62	
TOTAL OPERATING EXPENSES		2.64 HR	\$184.51	\$70.66	\$77.41	\$12.75	\$48.16	\$393.49	
NET OPERATING PROFIT								\$289.01	
INTEREST ON OPERATING CAPITAL		(\$83.27 @ 7.50%)						\$6.25	
INTEREST ON EQUIPMENT INVESTMENT								\$17.67	
RETURN TO LAND AND RISK								\$265.09	

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

BUDGET SUMMARY

GROSS RETURN		\$682.50	
VARIABLE OPERATING EXPENSES	\$274.68		
RETURN OVER VARIABLE EXPENSES		\$407.82	(GROSS MARGIN)
FIXED EXPENSES	\$48.16		
NET FARM INCOME		\$359.67	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$70.66		
NET OPERATING PROFIT		\$289.01	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$23.92		
RETURN TO LAND AND RISK		\$265.09	

TABLE 10. Upland cotton (picker), sprinkler-irrigated, budgeted per acre costs and returns for a 500 acre farm with above average management, Artesia-Lake Arthur area, Projected 2013.
 Planting dates: April 15 - May 15
 Harvesting dates: October 15 - January 15

ITEM	PRICE	YIELD	BASE	TOTAL
GROSS RETURNS				
COTTON LINT	\$0.72	700 LBS		\$504.00
COTTON SEED	\$0.07	1,120.00 LBS		\$78.40
DIRECT PAYMENT	\$0.0000	700 LBS	0.85	\$0.00
COUNTER CYCLICAL PAYMENT	\$0.1373	700 LBS	0.85	\$81.69
TOTAL				\$664.09

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$8.00	15 LBS	\$120.00		\$120.00
FOLIAR FERTILIZER	\$4.80	1 X/ACRE	\$4.80		\$4.80
INSECT SCOUTING	\$5.25	1 ACRE	\$5.25		\$5.25
HERBICIDE (CUSTOM)	\$0.00	1 X/ACRE	\$0.00		\$0.00
INSECTICIDE (CUSTOM)	\$0.00	3 X/ACRE	\$0.00		\$0.00
CROP INSURANCE			\$1.64		\$1.64
PUMP WATER*		28 AC. IN.			
SUBTOTAL			\$131.69		\$131.69

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	145 HP	0.17 HR		\$1.22	\$4.21	\$1.15	\$2.08	\$8.66
PLOW	145 HP	0.48 HR		\$3.46	\$11.88	\$4.29	\$7.07	\$26.69
DISC (2X)	145 HP	0.34 HR		\$2.45	\$8.41	\$2.30	\$4.16	\$17.32
FLOAT	145 HP	0.16 HR		\$1.15	\$3.96	\$0.64	\$1.69	\$7.44
PRE-IRRIGATE		0.25 HR		\$1.88	\$9.85	\$0.00	\$5.82	\$17.54
CULTIVATOR	65 HP	0.21 HR		\$1.51	\$3.88	\$1.57	\$1.77	\$8.73
PLANTER	70 HP	0.26 HR		\$1.87	\$4.75	\$0.67	\$5.86	\$13.16
SLED	70 HP	0.15 HR		\$1.08	\$2.74	\$0.18	\$0.89	\$4.89
CULTIVATIR (3X)	65 HP	0.63 HR		\$4.54	\$11.64	\$4.72	\$5.30	\$26.19
HAND HOE (CUSTOM)			\$20.00					\$20.00
IRRIGATE (3X)		0.75 HR		\$5.63	\$29.56	\$0.00	\$17.45	\$52.63
SUBTOTAL		3.40 HR	\$20.00	\$24.78	\$90.88	\$15.52	\$52.08	\$203.26

HARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
COTTON PICKER (2X)	2-ROW	0.74 HR		\$5.33	\$13.43	\$12.68	\$183.34	\$214.78
HAUL (2X)	65 HP	1.00 HR		\$7.20	\$18.48	\$1.32	\$6.65	\$33.64
GIN COTTON (CUSTOM)			\$104.30					\$104.30
SUBTOTAL		1.74 HR	\$104.30	\$12.53	\$31.90	\$14.00	\$189.99	\$352.72

POSTHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
SHREDDER	70 HP	0.14 HR		\$1.01	\$2.56	\$0.19	\$2.96	\$6.71
SUBTOTAL		0.14 HR		\$1.01	\$2.56	\$0.19	\$2.96	\$6.71

OVERHEAD EXPENSES	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME		0.00 HR		\$0.00				\$0.00
EMPLOYEE BENEFITS				\$6.90				\$6.90
INSURANCE			\$0.02					\$0.02
LAND TAXES							\$1.75	\$1.75
SUPERVISION AND MANAGEMENT				\$46.66				\$46.66
OTHER EXPENSES			\$56.50					\$56.50
SUBTOTAL		0.00 HR	\$56.53	\$53.56			\$1.75	\$111.84

TOTAL OPERATING EXPENSES		5.28 HR	\$312.52	\$91.87	\$125.34	\$29.71	\$246.78	\$806.22
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NET OPERATING PROFIT								(\$142.12)
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INTEREST ON OPERATING CAPITAL	(\$96.96 @ 7.50%)							\$7.27
INTEREST ON EQUIPMENT INVESTMENT								\$125.27

RETURN TO LAND AND RISK								(\$274.66)
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* Pump water costs are shown under irrigation in the preharvest operations section.

BUDGET SUMMARY

GROSS RETURN	\$664.09		
VARIABLE OPERATING EXPENSES	\$467.56		
RETURN OVER VARIABLE EXPENSES	\$196.53	(GROSS MARGIN)	
FIXED EXPENSES	\$246.78		
NET FARM INCOME	(\$50.25)	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
aes	\$91.87		
NET OPERATING PROFIT	(\$142.12)	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$132.54		
RETURN TO LAND AND RISK	(\$274.66)		

TABLE 11. Upland cotton (stripper), sprinkler-irrigated, budgeted per acre costs and returns for a 500 acre farm with above average management, Artesia-Lake Arthur area, Projected 2013.
 Planting dates: April 15 - May 15
 Harvesting dates: October 15 - January 15

ITEM	PRICE	YIELD	BASE	TOTAL
GROSS RETURNS				
COTTON LINT	\$0.68	700 LBS		\$476.00
COTTON SEED	\$0.07	1,120 LBS		\$78.40
DIRECT PAYMENT	\$0.0000	700 LBS	0.85	\$0.00
COUNTER CYCLICAL PAYMENT	\$0.1373	700 LBS	0.85	\$81.69
TOTAL				\$636.09

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$8.00	20 LBS	\$160.00		\$160.00
FOLIAR FERTILIZER	\$4.80	1 X/ACRE	\$4.80		\$4.80
INSECT SCOUTING	\$5.25	1 ACRE	\$5.25		\$5.25
HERBICIDE (CUSTOM)	\$0.00	1 X/ACRE	\$0.00		\$0.00
INSECTICIDE (CUSTOM)	\$0.00	3 X/ACRE	\$0.00		\$0.00
CROP INSURANCE			\$1.19		\$1.19
PUMP WATER*		28 AC. IN.			
SUBTOTAL			\$171.24		\$171.24

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	145 HP	0.17 HR		\$1.22	\$4.21	\$1.15	\$2.08	\$8.66
PLOW	145 HP	0.48 HR		\$3.46	\$11.88	\$4.29	\$7.07	\$26.69
DISC (2X)	145 HP	0.34 HR		\$2.45	\$8.41	\$2.30	\$4.16	\$17.32
FLOAT	145 HP	0.16 HR		\$1.15	\$3.96	\$0.64	\$1.69	\$7.44
PRE-IRRIGATE		0.25 HR		\$1.88	\$9.85	\$0.00	\$5.82	\$17.54
CULTIVATOR	65 HP	0.21 HR		\$1.51	\$3.88	\$1.57	\$1.77	\$8.73
PLANTER	70 HP	0.26 HR		\$1.87	\$4.75	\$0.67	\$5.86	\$13.16
SLED	70 HP	0.15 HR		\$1.08	\$2.74	\$0.18	\$0.89	\$4.89
CULTIVATOR (3X)	65 HP	0.63 HR		\$4.54	\$11.64	\$4.72	\$5.30	\$26.19
HAND HOE (CUSTOM)			\$20.00					\$20.00
IRRIGATE (3X)		0.75 HR		\$5.63	\$29.56	\$0.00	\$17.45	\$52.63
SUBTOTAL		3.40 HR	\$20.00	\$24.78	\$90.88	\$15.52	\$52.08	\$203.26

HARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
COTTON STRIPPER	70 HP	0.62 HR		\$4.46	\$11.33	\$1.16	\$15.68	\$32.63
HAUL	65 HP	0.75 HR		\$5.40	\$13.86	\$0.99	\$4.98	\$25.23
GIN COTTON (CUSTOM)			\$134.89					\$134.89
SUBTOTAL		1.37 HR	\$134.89	\$9.86	\$25.18	\$2.15	\$20.67	\$192.75

POSTHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
SHREDDER	70 HP	0.14 HR		\$0.56	\$2.56	\$0.19	\$2.96	\$6.26
SUBTOTAL		0.14 HR		\$0.56	\$2.56	\$0.19	\$2.96	\$6.26

OVERHEAD EXPENSES	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME		0.00 HR		\$0.00				\$0.00
EMPLOYEE BENEFITS				\$6.34				\$6.34
INSURANCE			\$0.02					\$0.02
LAND TAXES							\$1.75	\$1.75
SUPERVISION AND MANAGEMENT				\$44.68				\$44.68
OTHER EXPENSES			\$56.50					\$56.50
SUBTOTAL		0.00 HR	\$56.52	\$51.01			\$1.75	\$109.29

TOTAL OPERATING EXPENSES		4.91 HR	\$382.65	\$86.22	\$118.62	\$17.85	\$77.46	\$682.80
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NET OPERATING PROFIT (\$46.71)

INTEREST ON OPERATING CAPITAL (\$115.18 @ 7.50%) \$8.64
 INTEREST ON EQUIPMENT INVESTMENT \$35.77

RETURN TO LAND AND RISK (\$91.12)

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

BUDGET SUMMARY

GROSS RETURN	\$636.09	
VARIABLE OPERATING EXPENSES	\$519.13	
RETURN OVER VARIABLE EXPENSES	\$116.97	(GROSS MARGIN)
FIXED EXPENSES	\$77.46	
NET FARM INCOME	\$39.51	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$86.22	
NET OPERATING PROFIT	(\$46.71)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$44.41	
RETURN TO LAND AND RISK	(\$91.12)	

TABLE 12. Summary of per acre costs and returns for a 500 acre farm with above average, Artesia-Lake Authur area, Projected 2013.

	ALFALFA ESTABLISHMENT	ALFALFA HAY	BARLEY	OAT HAY	PICKER COTTON	STRIPPER COTTON
	TONS	TONS	CWT	TONS	LBS	LBS
PRIMARY YIELD	6.50	6.50	35.00	3.50	700.00	700.00
PRIMARY PRICE	\$245.00	\$245.00	\$6.12	\$195.00	\$0.72	\$0.68
GOVERNMENT PAYMENTS	\$0.00	\$0.00	\$0.00	\$0.00	\$81.69	\$81.69
SECOND INCOME	\$0.00	\$40.00	\$40.00	\$0.00	\$78.40	\$78.40
GROSS RETURN	\$1,592.50	\$1,632.50	\$254.20	\$682.50	\$664.09	\$636.09
CASH OPERATING EXPENSES						
SEED	\$130.00		\$53.90	\$38.00	\$120.00	\$160.00
FERTILIZER	\$82.00	\$122.00	\$91.50	\$90.00	\$4.80	\$4.80
CHEMICALS	\$0.00	\$5.25	\$0.00		\$5.25	\$5.25
CROP INSURANCE			\$5.88		\$1.64	\$1.19
OTHER PURCHASED INPUTS		\$227.46				
CANAL WATER						
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$95.70	\$62.02	\$24.13	\$38.00	\$85.93	\$79.21
FUEL-IRRIGATION	\$59.11	\$67.56	\$39.41	\$39.41	\$39.41	\$39.41
REPAIRS	\$28.45	\$24.95	\$7.01	\$12.75	\$29.71	\$17.85
CUSTOM CHARGES			\$24.91		\$124.30	\$154.89
LAND TAXES		\$1.75	\$1.75	\$1.75	\$1.75	\$1.75
OTHER EXPENSES	\$0.03	\$56.52	\$56.51	\$56.51	\$56.53	\$56.52
TOTAL CASH EXPENSES	\$395.29	\$567.52	\$305.00	\$276.43	\$469.32	\$520.88
RETURN OVER CASH EXPENSES	\$1,197.21	\$1,064.98	(\$50.80)	\$406.07	\$194.78	\$115.21
FIXED EXPENSES	\$91.14	\$284.32	\$38.71	\$46.40	\$245.03	\$75.71
TOTAL EXPENSES	\$486.43	\$851.84	\$343.71	\$322.83	\$714.35	\$596.59
NET FARM INCOME	\$1,106.07	\$780.66	(\$89.51)	\$359.67	(\$50.25)	\$39.51
LABOR AND MANAGEMENT COSTS	\$160.55	\$153.63	\$35.48	\$70.66	\$91.87	\$86.22
NET OPERATING PROFIT	\$945.52	\$627.03	(\$124.98)	\$289.01	(\$142.12)	(\$46.71)
CAPITAL COSTS						
INTEREST ON OPERATING CAPITAL		\$15.11	\$7.15	\$6.25	\$7.27	\$8.64
INTEREST ON EQUIPMENT INVESTMENT	\$41.95	\$22.14	\$11.90	\$17.67	\$125.27	\$35.77
TOTAL CAPITAL COSTS	\$41.95	\$37.26	\$19.05	\$23.92	\$132.54	\$44.41
RETURN TO LAND AND RISK	\$903.57	\$589.78	(\$144.04)	\$265.09	(\$274.66)	(\$91.12)

Flex Computation

-93.428275 329.16738 95.630086 20.357183

TABLE 13. Whole farm summary, Artesia-Lake Arthur area,
Projected 2013.

GROSS RETURNS		
ALFALFA HAY	342 ACRES	\$556,035
CROP		\$11,400
GRAZING		
BARLEY	8.5 ACRES	\$1,821
CROP		\$0
DIRECT PAYMENTS		\$0
COUNTER CYCLICAL PAYMENT		\$340
GRAZING		
OAT HAY	8 ACRES	\$5,460
CROP		
PICKER COTTON	82 ACRES	\$41,328
COTTON LINT		\$6,429
COTTON SEED		\$0
DIRECT PAYMENTS		\$6,699
COUNTER CYCLICAL PAYMENT		
STRIPPER COTTON	59.5 ACRES	\$28,322
COTTON LINT		\$4,665
COTTON SEED		\$0
DIRECT PAYMENTS		\$4,861
COUNTER CYCLICAL PAYMENT		
		\$667,359
GROSS RETURN		
CASH OPERATING EXPENSES		
SEED		\$27,532
FERTILIZER		\$41,621
CHEMICALS		\$2,239
CROP INSURANCE		\$150
OTHER PURCHASED INPUTS		\$64,827
CANAL WATER		\$0
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$35,400
FUEL-IRRIGATION		\$28,850
REPAIRS		\$12,391
CUSTOM CHARGES		\$19,620
LAND TAXES		\$777
OTHER EXPENSES		\$25,041
		\$258,449
TOTAL CASH EXPENSES		
		\$408,910
RETURN OVER CASH EXPENSES		
		\$60,020
FIXED EXPENSES		
		\$318,470
TOTAL EXPENSES		
		\$348,889
NET FARM INCOME		
		\$66,466
LABOR AND MANAGEMENT COSTS		
		\$282,423
NET OPERATING PROFIT		
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$5,528
INTEREST ON EQUIPMENT INVESTMENT		\$21,345
		\$26,873
TOTAL CAPITAL COSTS		
RETURN TO LAND AND RISK		
		\$255,551

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$1,000 /ACRE	\$235,551	34.42%
\$2,500 /ACRE	\$205,551	17.98%
\$4,000 /ACRE	\$175,551	12.17%
\$5,500 /ACRE	\$145,551	9.20%

* 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)