## MICROCOMPUTER CROP COST AND RETURN GENERATOR

BUDGET AREA..... SOUTHERN HIGH PLAINS, LEA COUN Projected 2018

FARM SIZE...... 480.00 ACRES

IRRIGATION TYPE..... SPRINKLER

NUMBER OF CROPS....... 3

## **VERSION 1.0**

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TABLE 1. Acreage Summary, Lea County,
Projected 2018

BUDGET AREA.........SOUTHERN HIGH PLAINS, LEA COUNTY
FARM SIZE........480 ACRES
IRRIGATION TYPE.....SPRINKLER
NUMBER OF CROPS...3

		WATER USE			
ACREAGE SUMMARY:	LAND USE (ACRES)	AC.IN. PER AC.	TOTAL AC.IN.		
ALFALFA ESTABLISHMENT ALFALFA WHEAT ARP FLEX IN COTTON	21.00 * 125.00 106.25 0.00 18.75	6 42 20 20	126 5,250 2,125 375		
COTTON ARP FLEX IN COTTON	106.25 0.00 18.75	20	2,125 375		
IDLE, FALLOW, ROADS  TOTAL	480.00		10,376		
ACRE FEET PER ACRE OF WATER RIGHTS					

<sup>\*</sup> DOUBLE-CROPPPED

TABLE 2. Basic cost information for Lea County,

Pro	jectea	20	18

Item				
Labor Wage Rate:				
Equipment operators		\$/hour		\$8.55
General & Irrigators		\$/hour		\$7.50
Purchased Inputs:				
Fertilizer:				
Nitrogen (N)		\$/pound		\$0.31
Phosphate (P205) Seed:		\$/pound		\$0.24
Alfalfa		\$/pound		\$4.00
Wheat		\$/pound		\$0.44
Cotton		\$/pound		\$7.55
Electricity (Lea Co Elec Coop)		cents/KwHr		7.21
Natural gas (Gas Co NM)		\$/MCF		\$4.00
Service Charge		\$/month		\$10.00
Diesel fuel		\$/gallon		\$2.70
Gasoline		\$/gallon		\$2.40
LP Gas		\$/gallon		\$2.85
Employee Liability Insurance		\$/\$1,000 wa	iges	\$20.00
Employee Benefits		percent/wag	jes	18.00%
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		3.00%
Land Taxes	\$90.00	/acre (full va	alue)	\$0.99
Personal Property Tax Rate	- NR	\$/\$1,000	(Assessed	\$33.16
	- R		Value)	\$26.78
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 Lea County, Projected 2018

Item

itom					
Electricity (Domestic &	Shop)		\$127.00	per month	\$1,524
Telephone			\$75.00	per month	\$900
Accounting & Legal					\$1,803
Misc. Supplies & Hand	Tools				\$2,642
Pickup and Auto					
miles	26,162	@	\$0.500 per mile		\$13,081
Insurance					
<ul> <li>general liability (non</li> </ul>	-employee)				\$1,949
- fire/theft					\$1,543
Property Taxes					
<ul> <li>non-planted land</li> </ul>					\$0
<ul> <li>other than land &amp; ma</li> </ul>	achinery				\$6,010
Building repairs and m	aintenance				\$1,480
Dues, fees, publication	ns				\$445
Farmstead Equipment					\$191
				Total	\$31,567
			Total per planted acre	-	\$84.18

TABLE 4 Pumping costs and data to Projected 2018 INPLIT DATA.	r inigation wells	Les County										
DELIVERYPSE SPRINGLER 40		06	PTHCHRAC ST DF TO CF	TERISTICS ATIC AW DOWN. TAL HEAD SING		70 30 100 150						
GALLONS PER MINUTE (SPM) WORK HORSEPOWER EFFCIENCY FACTOR: ELECTROTY		750 36 0.540										
EFFICIENCY FACTOR: ELECTRICITY NATURAL GAS LP GAS DESSEL		0.540 0.154 0.154 0.160										
PUEL COST PER UNT: ELECTRICEY NATURAL GAS LP GAS DESEL		7.21 C \$4.00 S \$2.85 S \$2.70 S	ENTSKWH MCF GAL GAL									
FUEL PLMPING COSTS												
ELECTRIC WELL:  COST PER HOUR COST PER ACRE INCH  NATURAL GAS WELL:  COST PER HOUR COST PER HORE INCH			\$3.66 \$2.21									
LP GAS WELL: COST PER ACRE INCH COST PER ACRE INCH			\$2.67 \$1.61 \$18.71 \$11.29									
COST PER ACRE INCH DIESEL WELL: COST PER HOUR COST PER ACRE INCH			\$11.08 \$16.08									
TABLE 6. Equipment summary for a Projected 2018	480 acre spirit	ier-inigened far	m with above	werage man	agement, Lea	County,						
EQUIPMENT ITEM A SIZE	н	NORTH N	UMBER	OTAL I	CLEL, OIL, LIERCANT	VARIABLE O	FUEL OL	REPAR PER HR		FB EPRECIATION	ED COSTS TAXES	TOTAL PER HR
TRACTOR 126 H					\$7.665 \$11,690		\$22.27 \$24.21					
TRACTOR 18 18 18 18 18 18 18 18 18 18 18 18 18	T VIRE T	344 483 89 152 79 16 24 4 4 5 20 18 20 18 20 20 18 20 20 20 21 21 22 22 23 24 4 4 24 25 26 26 26 26 26 26 26 26 26 26 26 26 26	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	\$20.947 \$40.985 \$2.950 \$2.150 \$3,000 \$2.150 \$4,000 \$4,000 \$4,000 \$4,000 \$4,000 \$3,000 \$3,000 \$2,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$4,000	\$605	\$1 367 \$2,601 \$62 \$100 \$24 \$262 \$26 \$262 \$27 \$50 \$0 \$200 \$200 \$64 \$13	\$1011	\$2.97 \$5.39 \$0.92 \$1.45 \$0.15 \$2.72 \$1.67 \$2.64 \$1.67 \$2.04 \$0.02 \$3.72 \$3.72 \$3.72 \$3.72 \$3.72		\$2 647 \$5,865 \$397 \$3 621 \$400 \$400 \$600 \$600 \$600 \$600 \$600 \$600	\$366 \$696 \$64 \$600 \$43 \$33 \$24 \$15 \$45 \$15 \$47 \$23 \$28 \$28 \$28 \$28	\$8.76 \$12.42 \$9.32 \$68.48 \$2.74 \$5.71 \$19.81 \$7.30 \$12.22 \$84.67 \$7.72 \$1.81 \$17.94 \$11.99
PLOW (MOLDBOARD) 4-14 8 CHSEL 9 F PLANTER 6 F FLOAT 12 F CHSTNATOR 6 F	V T WOW T	79 16 24 4	1	\$4,000 \$1,350 \$4,250 \$500		\$392 \$27 \$50 \$0		\$1.67 \$1.67 \$2.04 \$0.02 \$9.79		\$533 \$180 \$850 \$53 \$400	\$44 \$15 \$47 \$4	\$7.30 \$12.23 \$36.70 \$14.47
FRONT END LOADER SHREDDER 4 F ANNIDROUS APPLICATOR FERT SPREADER DEALER F	IOW URNISHED	156 20 18 20	1	\$2,500 \$2,500 \$1,500		\$694 \$8 \$13				\$255 \$333 \$250	\$28 \$28 \$17	\$1.91 \$17.94 \$11.99
CENTER PHOT SPRINGER NATURAL GAS WELL	_	6,261 6,261		\$8,000 \$15,000 \$74,375 222,856	\$16.721 \$36,772	\$663 \$0 \$1.252 \$7,567	\$247	\$7.44 \$0.00 \$0.20		\$1,067 \$2,000 \$6,960 \$26,066	\$88 \$166 \$822 \$2,718	\$12.96 \$0.35 \$1.18
		60	UPMENT LS	r								
(TEM		NEW	USED	YEARS LEE	EQUP CODE	MAX HOURS	FLEL	SALVAGE COSE	ACCUM YEARS	AGE	NTEREST EXPENSE	
TRACTOR 126 H TRACTOR 155 H COTTON STRIPPER (MTD) SWATHER 16 F	P P	66 195 99,775 11,500 72 410	33.917 40,965 2,960 21.350	25 15 15 20	1 1 5 2	800 900 900 800	7.50 8.15 0.00 3.12	0.10 0.10 0.00 0.20	6194.57 5311.76 1158.63 412.50	18 11 13 6	992 79 1,546.63 172.50 1 096 15	
COTTON STREPPER (MTD) 298XTHER 16 F 298XTHER 2 16 F 200C 2 16 F 200C 15 F 20	T T V	4,000 4,000 8,000 2,700	1,000 2,000 2,150 4,000 1,350	15 10 15 15	2 8 3 3	200 100 200 200 200			281230 1214 08 297 77 1265 28 255 00	16 15 13 16 16	90 00 64 50 120.00 40 50	
PLINTER 6 F FLOAT 12 F CULTINATOR 6 F FRONT END LOADER SHREDDER 4 F	T IOW IOW	66 185 98,775 11,500 72,410 7,700 4,000 4,000 8,000 2,700 8,500 8,000 6,000 5,000 5,000 3,000	23 917 40 365 2 950 21 250 1,000 2 150 4,000 1,050 4 250 500 3,000 2 550 2 550 1,500	25 15 20 20 15 10 15 15 15 15 15 15 15 15 15	1 5 2 2 3 8 3 3 8 4 3 3 8 8 8 8 8 8 8 8 8 8 8 8	800 800 800 800 800 900 100 900 900 900 900 900 900 900 9			6194 S7 5311.76 1158.63 412.50 2912.50 1214.08 297.77 1265.29 255.00 317.69 59.85 897.00 2943.75 201.98 270.94	13 15 16 15	982 78 1,346,63 172,53 1 096 15 155,53 80 00 64 50 120,00 40 50 127,50 90,00 70,50 45,00 46,00	
TEAL   TOTAL		1,000 1,000 16,000 30,000 29,750	1,500 1,500 8,000 15,000 14,875	15 15 15 15 25	8 5 0	150 250 100 8,742 1200		0.05	270.94 270.94 1604.25 93916.63 1262.22	18 11 12 6 18 13 15 16 13 15 16 15 15 16 15 15 15 16 15 15 15 16 15 16 16 16 16 16 16 16 16 16 16 16 16 16	75.00 45.00 240.00 450.00 446.25	
NATURAL GAS WELL		29 750	14 875	25	0	1200		005	1263-22	18	46.25	
ALFALFA ALFALFA EST HAY WHEAT		PER ACRE TOTALS										
65T HAY WHEAT hours per acre 023 1.30 0.23 0.95 1.25 0.60												
000 0.00 0.00 000 0.56 0.00 000 1.26 0.00 0.28 0.00 0.28	0.62 0.00 0.00 0.28	082 055 125 084										
- Thous part 2019 - 1023 - 1135 - 1036 - 1135 - 1036 - 1135 - 1036 - 103	1.06 1.69 0.62 0.00 0.28 0.00 0.48 0.00 0.17 0.00 0.14 0.00 0.14 0.00 0.05 0.05 0.05 0.05 0.05 0.05 0.0	2.82 6.49 0.62 0.55 0.84 0.36 0.15 0.17 0.19 0.39 1.25 0.14 0.17 0.20 0.62 0.53										
000 0.00 0.00 000 1.25 0.00 0.00 0.00 0.00 0.00 0.00 0.17 0.05 0.05	0.39 0.00 0.14 0.00 p.ns	0.39 1.25 0.14 0.17 0.10										
000 0.00 0.00 362 2534 12.07 362 2534 12.07	0.62 12.07 12.07	082 53.10 53.10										
INTEREST PRORATION												
ALFALFA HAY WHEAT COTTON												
325 046 306 349 147 471 030 050 120 849 050 050												
032 030 030 030 038 038 030 051 030 030 030 073												
000 000 052 000 042 000 000 000 147												
000 000 167 182 087 087 181 086 086 2109 5.71 15.46												
ALFALFA ESTABLISHMENT	ACRES	21	PUMP W	KTER:	4.00							
MICHNE PLOW DSC (20	POWER UNIT 155 HP 155 HP 156 HP 126 HP 126 HP	TIMES OVER 100 200	RATE	TOTAL	CUSTOM							
PLOW DISC (20) FLOAT FORT SPREADER DRLL RRIG ATE (20)	155 HP 126 HP 126 HP	100 200 100 100 100 300	0.48 0.14 0.19 0.05 0.18 0.60	0.48 0.28 0.19 0.05 0.18 3.62								
ALSALSA HAY	ACRES: POWER	125 TMES	ACCOMPLE RATE	KTER: HMENT	42.00							
MICHNE FERT SPREADER RRIGATE	POWER UNIT 126HP	100 1400	0.06 0.60	TOTAL 0.05 25.34	CUSTOM							
SWATH ER (SQ BALER & FRONT END LOADER (SQ	16 FT SP 155 HP 126 HP	500 500 500	0 11 0.25 0.25	0.55 1.25 1.25								
	ACRES				20.00							
MICHNE	POWER	TIMES OVER	ACCOMPLE RATE	KTER: HMENT TOTAL								
CHSEL DISC ANNIHOROUS APPL FERT SPREADER DISC DRIL BRIG ATE (120)	155 HP 155 HP 155 HP 126 HP 156 HP 126 HP	1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.15 0.14 0.17	0.15 0.14 0.17	CUSTOM							
DISC DREL RRIG ATE (120)	155 HP 126 HP	1.00 1.00 1.00 12.00	0.16 0.18 0.60	014 018 1207								
COMBINE (CLISTON) PER ACRE PER BUSHEL OVER 10 HALL (CLISTON) PER BUSHE					9:25 0:19 0:16							
HALL (CLETOM) PER BLEHE					016							
UPLAND COTTON	ACRES	149.75	PUMP W	KTER:	20.00							
MICHNE	POWER UNIT	TIMES OVER	RATE	TOTAL	CUSTOM							
DISC FERT SPREADER DISC PRE-BRIGATE	155 HP 126 HP 155 HP	1.00 1.00 1.00 1.00	0.48 0.14 0.05 0.14 0.09	TOTAL 0.48 0.14 0.05 0.14 1.51 0.17 0.39								
UPLAND COTTON  MICHAE  PLOW DISC. FURT SPREADER PRES-PREADER PRES-PREADER CLETANTON (DO) RESCUENTED (DO) RESCUENTED (DO)	155 HP 126 HP	100 300 700	0 17 0.13 0.53	0.17 0.39 10.56	20.00							
COTTON STRIPPER MODILE BUILDER GIN COTTON (CLISTOM) PER LINT	126 HP 155 HP	100	0.62	062 062	0.19							
		1.00	0.14	0.14								
SHREDDER	155 HP			TOFNEW								
	ANNUAL RE	PAR COSTS										
SHISCOER  House of the 1	ANNUAL RE						0.000000					
SHISCOER  House of the 1	ANNUAL RE				0.000040 0.000040 0.000100	0.000240 0.000240 0.000380	0.000000					
SHISCOER  House of the 1	ANNUAL RE				0.000080 0.000080 0.000100 0.000110 0.000180 0.000180 0.000180	0.000240 0.000240 0.000240 0.000240 0.000240 0.000240 0.000240	0.000200 0.000260 0.000400 0.000450 0.000620 0.000520					
SHISCOER  House of the 1	ANNUAL RE				0.000040 0.000100 0.000100 0.000100 0.000100 0.000100 0.000100 0.000100 0.000200 0.000200 0.000200 0.000200	0.000240 0.000240 0.000810 0.000810 0.000810 0.000800 0.000810 0.000800 0.000800 0.000800 0.000800 0.000800	0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000					
SHISCOER  House of the 1	ANNUAL RE				0.000060 0.000160 0.000160 0.000160 0.000160 0.000160 0.000160 0.000160 0.000200 0.000200 0.000200 0.000200 0.000200 0.000200 0.000200 0.000200 0.000200 0.000200 0.000200	0.000340 0.000340 0.000340 0.000510 0.000510 0.000800 0.000800 0.000800 0.000800 0.00100 0.00100 0.00120 0.00120 0.001260 0.001260 0.001260	0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000					
SHREDOSR Hours of the 1	ANNUAL RE			6 000140 000140 000010 000000 000000 000000 000000 000000	0.000040 0.000040 0.000110 0.000110 0.000140 0.000140 0.000170 0.000170 0.000200 0.000000 0.000200 0.000000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000	0.00246 0.00260 0.00060	0.000000 0.000000 0.000000 0.000000 0.000000					
Marie	ANNUAL RE				0.000040 0.000040 0.000110 0.000110 0.000110 0.000110 0.000110 0.000110 0.000210 0.000220 0.00020 0.00000 0.0000 0.00000 0.00000 0.00000 0.00000 0.000000	0.000060 0.000060 0.000060 0.000600 0.000600 0.000600 0.000600 0.000600 0.000600 0.000600 0.000600 0.000600 0.000600 0.000600 0.000600 0.000600 0.000600 0.000600 0.000600	0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000					
Marie	ANNUAL RE				0.000040 0.000040 0.000140 0.000140 0.000140 0.000140 0.000140 0.000140 0.000140 0.000140 0.000140 0.000140 0.000140 0.000140 0.000140 0.000140 0.000140 0.000140 0.000140 0.000140 0.000140	0.002060 0.002060 0.002060 0.000610 0.000610 0.0006000 0.0006000 0.000600 0.000600 0.000600 0.000600 0.000600 0.000600 0.0006000 0.000600 0.000600 0.000600 0.000600 0.000600 0.000600 0.0006000 0.000600 0.000600 0.000600 0.000600 0.000600 0.000600 0.0006000 0.000600 0.000600 0.000600 0.000600 0.000600 0.000600 0.000600 0.000600 0.000600 0.000600 0.000600 0.000600 0.000600 0.00060	0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000					
Selection   Sele	ANNLIAL SCI  2	4	6	6		0.0000e0 0.0000 0.0000e0 0.0000 0.0000e0 0.0000	0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000					
March	ANNUM SCI 2 3 3 6 000000000000000000000000000000000	4 d 0.000000 0.000000 0.000000 0.000000 0.000000	5	6 - 0.0014-0 - 0.0014-		0.0003e0 0.0003e0 0.0003e0 0.0005e0 0.0	0.000000 0.000000 0.000000 0.000400 0.000400 0.000600 0.000600 0.000600 0.000600 0.000600 0.000600 0.000600 0.000600					
March	ANNUM SCI 2 3 3 6 000000000000000000000000000000000	4 d 0.000000 0.000000 0.000000 0.000000 0.000000	5	6 - 0.0014-0 - 0.0014-		0.0000e0 0.0000e0 0.0000e0 0.000e0 0.000e0 0.000e0 0.000e0 0.000e0 0.000e0 0.000e0 0.000e0 0.00e0 0.00e0 0.0	0.000000 0.000000 0.000000 0.000000 0.000000					
March	ANNUM SCI 2 3 3 6 000000000000000000000000000000000	4 d 0.000000 0.000000 0.000000 0.000000 0.000000	5	6 - 0.0014-0 - 0.0014-	0.000060 0.000160 0.000110 0.000110 0.000110 0.000110 0.000110 0.000110 0.000110 0.000110 0.000110 0.000110 0.000110 0.000110 0.000110	0.0000e0 0.0000e0 0.0000e0 0.000e0 0.000e0 0.000e0 0.000e0 0.000e0 0.000e0 0.000e0 0.000e0 0.00e0 0.00e0 0.0	0.000000 0.000000 0.000000 0.000000 0.000000					
10-62-COAN  10-10-10-10-10-10-10-10-10-10-10-10-10-1	ANNUM SCI 2 3 3 6 000000000000000000000000000000000	4 d 0.000000 0.000000 0.000000 0.000000 0.000000	5	6 - 0.0014-0 - 0.0014-	0.000060 0.000160 0.000110 0.000110 0.000110 0.000110 0.000110 0.000110 0.000110 0.000110 0.000110 0.000110 0.000110 0.000110 0.000110	0.0000e0 0.0000e0 0.0000e0 0.000e0 0.000e0 0.000e0 0.000e0 0.000e0 0.000e0 0.000e0 0.000e0 0.00e0 0.00e0 0.0	0.000000 0.000000 0.000000 0.000000 0.000000					

TABLE 6. Alfalfa establishment, sprinkler-irrigated, budgeted per acre costs and returns for a 480 acre farm with above average management, Lea County, Projected 2018

Planting dates: August 15 - September 1

ITEM	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
PURCHASED INPUTS								
SEED NITROGEN (N) PHOSPHATE (P205) PUMP WATER	\$4.00 \$0.31 \$0.24	30 LBS 55 LBS 140 LBS 6 AC. IN.	\$120.00 \$17.05 \$33.60					\$120.00 \$17.05 \$33.60
SUBTOTAL			\$170.65				-	\$170.65
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PLOW DISC (2X) FLOAT FERT SPREADER DRILL IRRIGATE (3X)	155 HP 155 HP 155 HP 126 HP 126 HP	0.48 HR 0.28 HR 0.19 HR 0.05 HR 0.18 HR 0.30 HR		\$4.10 \$2.39 \$1.62 \$0.43 \$1.54 \$2.25	\$11.62 \$6.78 \$4.60 \$1.11 \$4.01 \$9.67	\$4.97 \$2.55 \$1.03 \$0.20 \$0.90 \$0.72	\$9.95 \$5.36 \$5.30 \$0.44 \$5.14	\$30.64 \$17.08 \$12.55 \$2.18 \$11.59 \$18.16
SUBTOTAL		1.48 HR		\$12.34	\$37.79	\$10.37	\$31.70	\$92.20
OVERHEAD EXPENSES								
DOWNTIME EMPLOYEE BENEFITS INSURANCE SUPERVISION AND MANAGEMENT		0.30 HR	\$0.25	\$2.52 \$2.22 \$19.29				\$2.52 \$2.22 \$0.25 \$19.29
SUBTOTAL		0.30 HR	\$0.25	\$24.03				\$24.28
TOTAL OPERATING EXPENSES		1.78 HR	\$170.90	\$36.37	\$37.79	\$10.37	\$31.70	\$287.13

TABLE 7. Alfalfa hay, sprinkler-irrigated, budgeted per acre costs and returns for a 480 acre farm with above average management, Lea County, Projected 2018

Harvest dates: May 20 - October 15 ITEM PRICE YIELD TOTAL GROSS RETURNS ALFALFA HAY \$185.00 6.00 TONS (STACKED) \$1,110.00 TOTAL \$1,110.00 PURCHASED FIXED PURCHASED INPUTS PRICE QUANTITY INPUTS COST TOTAL PHOSPHATE (P2O5) 90 LBS \$21.60 \$0.24 \$21.60 INSECTICIDE (CUSTOM) 1 ACRE \$14.08 \$14.08 \$14.08 HERBICIDE ACRE \$12.80 \$12.80 \$12.80 \$0.37 51 LBS \$19.10 \$19.10 ESTABLISHMENT: Principal YEARS \$47.85 \$47.85 \$8.56 : Interest \$8.56 PUMP WATER\* 42 AC. IN. SUBTOTAL \$67.58 \$56.41 \$124.00 POWER ACCOMPLISHMENT PURCHASED FUEL & FIXED PREHARVEST OPERATIONS UNIT LABOR LUBE REPAIRS TOTAL RATE **INPUTS** COST FERT SPREADER 126 HP 0.05 HR \$0.43 \$1.11 \$0.20 \$0.44 \$2.18 IRRIGATE 1.40 HR \$10.50 \$67.69 \$5.07 \$38.61 \$121.86 SUBTOTAL 1.45 HR \$10.93 \$68.80 \$5.27 \$39.05 \$124.04 HARVEST OPERATIONS 16 FT SP SWATHER (5X) 0.55 HR \$4.70 \$5.56 \$0.80 \$32.17 \$43.22 \$30.26 \$20.20 BALER & ACCUM (5X) 155 HP 1.25 HR \$10.69 \$6.93 \$68.07 FRONT END LOADER (5X) 126 HP 1.25 HR \$10.69 \$27.84 \$8.92 \$13.21 \$60.65 SUBTOTAL 3.05 HR \$26.08 \$63.66 \$16.64 \$65.57 \$171.95 **OVERHEAD EXPENSES** DOWNTIME 0.78 HR \$6.63 \$6.63 **EMPLOYEE BENEFITS** \$6.66 \$6.66 **INSURANCE** \$0.74 \$0.74 LAND TAXES \$0.99 \$0.99 SUPERVISION AND MANAGEMENT \$80.65 \$80.65 OTHER EXPENSES \$84.18 \$84.18 SUBTOTAL 0.78 HR \$84.92 \$93.94 \$0.99 \$179.85 TOTAL OPERATING EXPENSES 5.28 HR \$152.50 \$130.94 \$132.46 \$21.91 \$162.03 \$599.84 NET OPERATING PROFIT \$510.16 INTEREST ON OPERATING CAPITAL \$59.00 @ 5.50% \$3.24 INTEREST ON EQUIPMENT INVESTMENT \$21.09 RETURN TO LAND AND RISK \$485.83 \* Pump water costs are shown under irrigation in the preharvest operations section. BUDGET SUMMARY **GROSS RETURN** \$1,110.00 VARIABLE OPERATING EXPENSES \$306.87 RETURN OVER VARIABLE EXPENSES \$803.13 (GROSS MARGIN) FIXED EXPENSES \$162.03 NET FARM INCOME \$641.10 (RETURN TO CAPITAL, LABOR, LAND & RISK) LABOR AND MANAGEMENT COST \$130.94 (RETURN TO CAPITAL, LAND & RISK) NET OPERATING PROFIT \$510.16

\$24.33

\$485.83

CAPITAL COSTS

RETURN TO LAND AND RISK

TABLE 8. Wheat, sprinkler-irrigated, budgeted per acre costs and returns for a 480 acre farm with above average management, Lea County, Projected 2018
Planting dates: August 15 - October 30
Harvest dates: June 20 - July 5

Harvest dates: June 20 - July 5	)								
ITEM	PRICE		YIELD	BASE					TOTAL
GROSS RETURNS									
WHEAT	\$4.40		48.00 BUSHELS						\$211.20
DIRECT PAYMENT	\$0.00		48.00 BUSHELS	0.85					\$0.00
COUNTER CYCLICAL PAYMENT	\$0.00								\$0.00
GRAZING	\$50.00		1.00 ACRE						\$50.00
TOTAL								-	\$261.20
				PURCHASED				FIXED	
PURCHASED INPUTS	PRICE		QUANTITY	INPUTS				COST	TOTAL
0550	0.44		00 100	<b>#</b> 00.00					000.00
SEED	0.44		90 LBS	\$39.60					\$39.60
PHOSPHATE (P205)	0.24		70 LBS	\$16.80					\$16.80
ANHYDROUS AMMONIA (NH3)	0.15		200 LBS	\$30.00					\$30.00
PUMP WATER*	0.47		20 ACRE IN.	00.47					00.47
CROP INSURANCE	0.47			\$0.47				-	\$0.47
SUBTOTAL				\$86.87					\$86.87
	POWER		ACCOMPLISHMENT	PURCHASED		FUEL &		FIXED	
PREHARVEST OPERATIONS	UNIT		RATE	INPUTS	LABOR	LUBE	REPAIRS	COST	TOTAL
CHISEL	155 HP		0.15 HR		\$1.28	\$3.63	\$1.06	\$3.85	\$9.82
DISC	155 HP		0.14 HR		\$1.20	\$3.39	\$1.27	\$2.68	\$8.54
ANNHYDROUS APPL	155 HP		0.17 HR		\$1.45	\$4.12	\$1.04	\$4.32	\$10.93
FERT SPREADER	126 HP		0.05 HR		\$0.43	\$1.11	\$0.20	\$0.44	\$2.18
DISC	155 HP		0.14 HR		\$1.20	\$3.39	\$1.27	\$2.68	\$8.54
DRILL	126 HP		0.18 HR		\$1.54	\$4.01	\$0.90	\$5.14	\$11.59
IRRIGATE (12X)	120111		1.20 HR		\$9.00	\$32.23	\$2.41	\$18.38	\$62.03
SUBTOTAL			2.03 HR		\$16.10	\$51.88	\$8.16	\$37.49	\$113.62
			2.00 TIIX		ψ10.10	ψ01.00	ψ0.10	ψοτ.40	ψ110.0 <u>2</u>
HARVEST OPERATIONS									
COMBINE (CUSTOM)				\$12.67					\$12.67
HAUL (CUSTOM)				\$7.68					\$7.68
TIAGE (GGGTGW)				Ψ1.00					Ψ1.00
SUBTOTAL				\$20.35					\$20.35
OVERHEAD EXPENSES									
DOWNTIME			0.21 HR		\$1.77				\$1.77
EMPLOYEE BENEFITS					\$2.90				\$2.90
INSURANCE				\$0.32					\$0.32
LAND TAXES								\$0.99	\$0.99
SUPERVISION AND MANAGEMENT					\$19.90				\$19.90
OTHER EXPENSES				\$84.18					\$84.18
SUBTOTAL			0.21 HR	\$84.50	\$24.57			\$0.99	\$110.07
TOTAL OPERATING EXPENSES			2.24 HR	\$191.72	\$40.67	\$51.88	\$8.16	\$38.48	\$330.91
NET OPERATING PROFIT									(\$69.71)
INTEREST ON OPERATING CAPITAL		,	\$60.14 @	5.50%	)				\$3.31
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMEN	Т	(	ф00.14 · @	5.50%	,				\$5.71
RETURN TO LAND AND RISK									(\$78.73)
* Pump water costs are shown under irrigati	on in the pre		ations section.						
		BODGET							
GROSS RETURN		0054 ==	\$261.20						
VARIABLE OPERATING EXPENSES		\$251.76	\$0.44 (GPOSS	: MAPGINI)					

GROSS RETURN		\$261.20	
VARIABLE OPERATING EXPENSES	\$251.76		
RETURN OVER VARIABLE EXPENSES		\$9.44	(GROSS MARGIN)
FIXED EXPENSES	\$38.48		
NET FARM INCOME		(\$29.04)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$40.67	(, , ,	, , , , , , , , , , , , , , , , , , , ,
NET OPERATING PROFIT	• • •	(\$69.71)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$9.02	(+)	(
RETURN TO LAND AND RISK	****-	(\$78.73)	

TABLE 9. Upland cotton (stripper), sprinkler-irrigated, budgeted per acre costs and returns for a 480 acre farm with above average management, Lea County, Projected 2018
Planting dates: May 1 - May 25
Harvest dates: November 1 - December 15

Harvest dates: November 1 - De	ecember 15									
ITEM	PRICE		YIE	LD	BASE					TOT
GROSS RETURNS										
LINT	\$0.73		425.00							\$310.2
SEED	\$0.10		680.00							\$66.3
DIRECT PAYMENT	\$0.0000		425.00		0.85					\$0.0
COUNTER CYCLICAL PAYMENT	\$0.1373		675.00	LBS	0.85					\$78.7
TOTAL									-	\$455.3
					PURCHASED				FIXED	
PURCHASED INPUTS	PRICE		QUAN	ITITY	INPUTS				COST	TOT
SEED	\$7.55		20	LBS	\$151.00					\$151.0
NITROGEN (N)	\$0.31		32	LBS	\$9.92					\$9.
PHOSPHATE (P2O5)	\$0.24			LBS	\$9.60					\$9.
INSECTICIDE	\$11.20		1	X/ACRE	\$11.20					\$11.
HERBICIDE	\$8.00		1	X/ACRE	\$8.00					\$8.
INSECTICIDE (CUSTOM)	\$11.07		1	X/ACRE	\$11.07					\$11.
CROP INSURANCE					\$0.35					\$0.
PUMP WATER*			20	ACRE IN.						
SUBTOTAL					\$201.14				-	\$201.1
	DOWER		ACCOMPL	ICUMENT	DUDCHASED		EUEL ®		EIVED	
REHARVEST OPERATIONS	POWER UNIT		ACCOMPL RA		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	тот
PLOW	155 HP		0.48	HR		\$4.10	\$11.62	\$4.97	\$9.95	\$30.0
DISC	155 HP		0.14			\$1.20	\$3.39	\$1.27	\$2.68	\$8.
FERT SPREADER	126 HP		0.05			\$0.43	\$1.11	\$0.20	\$0.44	\$2.
DISC	155 HP		0.14			\$1.20	\$3.39	\$1.27	\$2.68	\$8.
PRE-IRRIGATE	155111		0.10			\$0.75	\$4.03	\$0.30	\$2.30	\$7.
PLANTER	155 HP		0.17			\$1.45	\$4.12	\$1.26	\$8.52	\$15.
CULTIVATOR (3X)	126 HP		0.39			\$3.33	\$8.69	\$3.00	\$6.43	\$21.
HOE (CUSTOM 2X)	120111		0.55	TIIX	\$20.00	ψ5.55	Ψ0.03	Ψ3.00	ψ0.+3	\$20.
IRRIGATE (7X)			0.70	HR	Ψ20.00	\$5.25	\$28.20	\$2.11	\$16.09	\$51.
SUBTOTAL			2.17	HR	\$20.00	\$17.71	\$64.55	\$14.39	\$49.08	\$165.
IARVEST OPERATIONS										
0.077011.07010050								••••		•••
COTTON STRIPPER	126 HP		0.62			\$5.30	\$13.81	\$3.03	\$11.20	\$33.3
MODULE BUILDER	155 HP		0.62	нк	¢70.00	\$5.30	\$15.01	\$7.95	\$16.36	\$44.0
GIN COTTON (CUSTOM)					\$79.99					\$79.
SUBTOTAL		•	1.24	HR	\$79.99	\$10.60	\$28.82	\$10.98	\$27.56	\$157.
OSTHARVEST OPERATIONS										
SHREDDER	155 HP		0.14	HR		\$1.20	\$3.39	\$0.81	\$4.39	\$9.7
OVERHEAD EXPENSES										
DOWNTIME FMDI OVEE DENIEUTO			0.68	пк		\$5.77				\$5.
EMPLOYEE BENEFITS					00.50	\$5.31				<b>\$</b> 5.
INSURANCE					\$0.59				\$0.99	\$0.
LAND TAXES						£24.02			\$0.99	\$0. \$34.
SUPERVISION AND MANAGEMENT OTHER EXPENSES					\$84.18	\$34.02				\$34. \$84.
SUBTOTAL			0.68	HR	\$84.77	\$45.11			\$0.99	\$130.
OTAL OPERATING EXPENSES			4.23	HR	\$385.89	\$74.62	\$96.75	\$26.19	\$82.02	\$665.
ET OPERATING PROFIT			20		ψοσο.σσ	Ų. 1.0 <u>2</u>	ψουο	Ψ20.10	Ψ02.02	(\$210.
INTEREST ON OPERATING CAPITAL		,	\$131.34	@	5.50%	)				\$7.
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT		(	ψισι.υ4	<b></b>	5.50%	,				\$15.
ETURN TO LAND AND RISK										(\$232.
* Pump water costs are shown under irrigation	on in the preh		ations section SUMMARY	ı.						
ROSS RETURN			\$455.33							
VARIABLE OPERATING EXPENSES ETURN OVER VARIABLE EXPENSES		\$508.83	(\$53.51)	(GROS	S MARGIN)					
FIXED EXPENSES		\$82.02	,,	,	,					

RETURN OVER VARIABLE EXPENSE FIXED EXPENSES NET FARM INCOME LABOR AND MANAGEMENT COST NET OPERATING PROFIT CAPITAL COSTS RETURN TO LAND AND RISK \$82.02 (\$135.53) (RETURN TO CAPITAL, LABOR, LAND & RISK) \$74.62 (\$210.15) (RETURN TO CAPITAL, LAND & RISK) \$22.69 (\$232.83)

TABLE 10. Summary of per acre costs and returns for a 480 acre farm with above average management, Lea County, Projected 2018

Projected 2018				
	ALFALFA ESTABLISHMENT	ALFALFA HAY	WHEAT	STRIPPER COTTON
		TONS	BU	LBS
PRIMARY YIELD		6.00	48.00	425.00
PRIMARY PRICE		\$185.00	\$4.40	\$0.73
GOVERNMENT PAYMENTS		\$0.00	\$0.00	\$78.78
SECOND INCOME		\$0.00	\$50.00	\$66.30
GROSS RETURN		\$1,110.00	\$261.20	\$455.33
CASH OPERATING EXPENSES				
SEED	\$120.00		\$39.60	\$151.00
FERTILIZER	\$50.65	\$21.60	\$46.80	\$19.52
CHEMICALS		\$26.88		\$30.27
CROP INSURANCE			\$0.47	\$0.35
OTHER PURCHASED INPUTS CANAL WATER		\$19.10		
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$28.12	\$64.78	\$19.65	\$64.52
FUEL-IRRIGATION	\$9.67	\$67.69	\$32.23	\$32.23
REPAIRS	\$10.37	\$21.91	\$8.16	\$26.19
CUSTOM CHARGES			\$20.35	\$99.99
LAND TAXES		\$0.99	\$0.99	\$0.99
OTHER EXPENSES	\$0.25	\$84.92	\$84.50	\$84.77
TOTAL CASH EXPENSES	\$219.05	\$307.86	\$252.76	\$509.83
RETURN OVER CASH EXPENSES	(\$219.05)	\$802.14	\$8.44	(\$54.50)
FIXED EXPENSES	\$31.70	\$161.03	\$37.49	\$81.03
TOTAL EXPENSES	\$250.75	\$468.90	\$290.24	\$590.86
RETURNS TO CAPITAL, LABOR, LAND & RISK	(\$250.75)	\$641.10	(\$29.04)	(\$135.53)
LABOR AND MANAGEMENT COSTS	\$36.37	\$130.94	\$40.67	\$74.62
RETURNS TO CAPITAL, LAND & RISK	(\$287.13)	\$510.16	(\$69.71)	(\$210.15)
CAPITAL COSTS INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT		\$3.24 \$21.09	\$3.31 \$5.71	\$7.22 \$15.46
TOTAL CAPITAL COSTS	\$0.00	\$24.33	\$9.02	\$22.69
RETURN TO LAND AND RISK	(\$287.13)	\$485.83	(\$78.73)	(\$232.83)
			·	

TABLE 11. Whole farm summary, Lea County, Projected 2018

Projected	2018			
GROSS RETURNS				
ALFALFA HAY	125.00 ACRES			
CROP		\$138,750		
WHEAT	106.25 ACRES			
CROP		\$22,440		
GRAZING		\$5,313		
DIRECT PAYMENT		\$0		
COUNTER CYCLICA		\$0		
COTTON	143.75 ACRES	044.500		
LINT		\$44,598		
SEED		\$9,531		
DIRECT PAYMENT	AL DAVIMENT	\$0 \$44.224		
COUNTER CYCLICA	AL PAYMENT	\$11,324		
GROSS RETURN			-	\$231,956
CASH OPERATING EX	(PENSES			
SEED SEED	u ENGEG	\$28,434		
FERTILIZER		\$11,542		
CHEMICALS		\$7,712		
CROP INSURANCE	:	\$100		
OTHER PURCHASI		\$2,388		
CANAL WATER	-B II (1 0 1 0	\$0		
	CANTS-EQUIPMENT	\$20,050		
FUEL-IRRIGATION	ON WENT	\$16,721		
REPAIRS		\$7,587		
CUSTOM CHARGE	S	\$16,535		
LAND TAXES		\$373		
OTHER EXPENSES	3	\$31,784		
TOTAL C	ASH EXPENSES	-	\$143,226	
RETURN OVER CASH	EXPENSES			\$88,729
FIXED EXPENSES		\$30,444		
TOTALE	VDENOCO		<b>#470.070</b>	
TOTALE	XPENSES		\$173,670	
NET FARM INCOME				\$58,286
LABOR AND MANAGE	MENT COSTS	\$32,179		
NET OPERATING PRO	)FIT			\$26,107
CAPITAL COSTS				
INTEREST ON OPE	RATING CAPITAL	\$1,795		
	JIPMENT INVESTMENT	\$5,465		
		-	\$7.0G4	
TOTAL	APITAL COSTS		\$7,261	
RETURN TO LAND AN	ID RISK		-	\$18,846

		RETURN	RETURN ON
LAND	VALUE	TO RISK*	INVESTMENT**
\$500	/ACRE	\$11,646	5.64%
\$700	/ACRE	\$8,766	4.67%
\$900	/ACRE	\$5,886	3.99%
\$1,100	/ACRE	\$3,006	3.48%
\$1,300	/ACRE	\$126	3.08%
\$1,500	/ACRE	(\$2,754)	2.77%

 $<sup>^{\</sup>star}$  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)