MICROCOMPUTER CROP COST AND RETURN GENERATOR

BUDGET AREA..... UNION COUNT\ Projected 2018

FARM SIZE...... 1,280.00 ACRES

IRRIGATION TYPE..... SPRINKLER

NUMBER OF CROPS...... 4

VERSION 1.0

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- ** BE SURE PRINTER IS ON AND PAPER IS ALIGNED BEFORE YOU PRINT

			WATER	USE
ACREAGE SUMMARY:		LAND USE (ACRES)	AC.IN. PER AC.	TOTAL AC.IN.
ALFALFA ESTABLISHME	ENT	55.00 * 375.00	3 40	165 15,000
WHEAT ARP		318.75 0.00	11	3,506
FLEX IN WHEAT CORN		56.25 127.50	11 34	619 4,335
ARP FLEX IN WHEAT		0.00 22.50	11	248
GRAIN SORGHUM		127.50	12	1,530
ARP FLEX IN WHEAT HAYGRAZER		0.00 22.50 190.00	11	248
ROADS, HOMESTEAD		40.00		
	TOTAL	1,280.00		25,650
	ACRE FEET	R RIGHTS	1.67	

^{*} DOUBLE-CROPPED

TABLE 2. Basic cost information for Union County.

Projected 2018				
Item				
Labor Wage Rate:		0.0		#0.55
Equipment operators		\$/hour		\$8.55
General & Irrigators		\$/hour		\$7.50
Purchased Inputs:				
Fertilizer:		Φ/1		00.04
Nitrogen (N)		\$/pound \$/pound		\$0.31 \$0.24
Phosphate (P205) Potash (K2O)		\$/pound		\$0.24
Seed:		ф/рошти		ψ0.23
Alfalfa		\$/pound		\$4.00
Wheat		\$/pound		\$0.44
Corn for Grain		\$/bag		\$240.00
Grain Sorghum		\$/pound		\$1.32
Haygrazer/Millet		\$/pound		\$0.86
Oats		\$/pound		\$0.44
Natural gas		\$/MCF		\$4.00
(service charge)		\$/month	\$10.00	
Diesel fuel		\$/gallon	\$2.70	
Gasoline		\$/gallon	\$2.40	
Electricity		cents/KwH	7.94	
LP Gas		\$/gallon	\$2.85	
Baling Twine		\$/pound		\$0.72
Employee Liability Insurance		\$/\$1,000 w	\$20.00	
Employee Benefits		percent/wa	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	\$27.00	/acre		\$0.20
Personal Property Tax Rate	- NR	\$/\$1,000	(Assessed	\$22.35
	- R		Value)	\$19.20
Supervision Factors				
Field Crop-Irrigation		\$/labor hou	ır	\$1.00
Field Crop-Equipment & General		\$/labor hou	ır	\$0.50
Management Rate		percent	7.00%	

TABLE 3. Overhead cost information for Union County, Projected 2018

Item					
Electricity (Domestic &	Shop)		\$508.00	per month	\$6,096
Telephone			\$247.65	per month	\$2,972
Accounting & Legal					\$4,616
Misc. Supplies & Hand	Tools				\$4,686
Pickup and Auto					
miles	39,370	@	\$0.500 per mile		\$19,685
Insurance					
- general liability (non-	-employee)				\$2,985
- fire/theft					\$2,394
Property Taxes					
 non-planted land 					\$0
 other than land & ma 	achinery				\$6,010
Building repairs and ma	aintenance				\$1,924
Dues, fees, publication	S				\$445
Farmstead Equipment					\$368
				Total	\$52,181
					Ţ-2,.O.
			Total per planted acre		\$47.96
			Total per dryland acre		\$9.59

TABLE 4 Purpose code and	lake for integration weeks. Union Cour	ay .			
DELIVERY PER DELIVERY PER DEVENOUR	30 DEFTH C	DANACTERISTICS STATIC DRIW DOWN TOTAL HEAD	180 80 230		
GALONE PER MINUTE (SPM) WORK HORSEPOISER EFFICIENCY FACTOR EMICTROTY INTERNAL GIS.	0 500 0 100 0 100 0 100 0 100	DAING			
UP GAS DESEL PUBL COST PER UNIT BUSCINICITY NATURAL GAS	0 140 0 180 7 84 CENTS 84 00 SMCF 82 88 SGAL 82 79 SGAL	Karo			
FIRE PAPPAG COR.					
COST PER HOLIK COST PER ACRE IN NATURAL GAS WELL COST PER HOLIK COST PER ACRE IN	DI 317 DI 327				
COST PER HOUR COST PER ACRE IN DESEL WILL COST PER HOUR COST PER ACRE IN	D1 291 393 D1 392				
TABLE I Equipment summary Projected 22'8 EQUIPMENT	Sir a 1 200 aure sprinter-organis	lare with above areas	gemangenesi Disor	County	PREDCOSTS TOTAL SPECIATION TAXABLE PRESCATION TAXABLE PRESCATION TAXABLE PRESCATION TO T
TRACTOR SE HI TRACTOR SE HI TRACTOR SE HI COMMENT SE HI ZUXXXXXX 14 F	HOURE OF NAMES	1 877 338 1 837 338 1 83 977 1 843 987	81726 8111 89.853 81708 86.726 81360 92.206 8272 82.723 8187	PUBLICAL MEPAN PERIOR PERIOR 0 204 50 00 N 50 27 53 67 50 78 50 68 50 50 50 50 50 50 50 50 50 50 50 50 50 5	
PRICTOR 85 M PRICTOR 105 M PRI	F 118 F 428 F 128	1 977 308 1 978 1	21 728 2011 20 Mail 21 720 20 723 21 723 20 723 21 723 20 723 21 723 20 723 21 723 20 723 21 723 20	DM 40 5004 DD 77 3847 DD 78 3446 DD 78 3446 30 24 4 30 24 4 31 10 0 31 10 0 31 10 0 30 77 3 N 18 21 10 0 30 77 3 N 18 30 00 00 00 00 00 00 00 00 00 00 00 00	500 Bill 100 C
DREL 21 PF CORNINERD 8 PG GRANTABLE 22 PF SPRAYER 30 PF GRANCART SIED PRACTOR/TRALER CALTPRACKER TALESPACE MIN-GATOR SPRANCER CENTER PROC SPRANCER MATERIAL CONTENTS OF SPRANCER	207 26 7 27 7 28 102 84 8	1 \$3.60 1 \$8.60 1 \$4.50 1 \$1.60 2 \$6.20 1 \$17.60 1 \$17.60	\$138 \$81 \$18 \$100 \$1 196 \$200 \$1 196 \$0	\$1 73 \$2 00 \$1 00 \$0 72 \$2 17 \$14 18 \$2.80 \$0 54	\$100 \$27 \$3.50 \$1.607 \$20 \$48.00 \$200 \$28 \$4.00 \$200 \$11 \$3.26 \$200 \$13 \$3.50 \$13 \$00 \$130 \$41.07 \$133 \$7 \$10.06
TANDRID ANCE TRUCK MIN-GATOR EPRINGLER CENTER PROF EPRINGLER NATURAL GAS HELL	18 6.779 16.683 16.683	1 \$10.000 1 \$2.800 1 \$15.000 1 \$16.000 5 \$263.000 \$	\$22 \$1 196 \$28 \$50 \$0 \$0 \$0 \$0 \$0 \$10 \$1 \$0 \$0 \$10 \$1 \$10 \$1 \$10 \$1 \$10 \$1 \$10 \$1 \$10 \$1 \$10 \$1 \$10 \$1 \$10 \$1 \$10 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$	\$0.04 \$1134 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$4.26 \$0.00	\$2 000 \$78 \$7.6.22 \$223 \$21 \$0.06 \$2 000 \$112 \$0.13 \$1.302 \$206 \$0.10 \$0.000 \$2.000
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SPECIES 30 PT GRAN CART SEM-TRACTON TRALER CALT-PRODUCE TRICEM AGE TRUCK MIN-GATOR SPECIALISE CRITERION CONTRACTOR	3000 00 1800 00 6200 00 2300 00 38000 00 17500 00 2000 00 1000 00 2000 00 1000 00 8600 00 2800 00	18 00 18 00 10 00 18 00 18 00 18 00	8 00 100 00 8 00 100 00 8 00 80 00 2 00 80 00 0 00 870 00	0 00 000 382 80 888 28 8 00 0 00 108 627 0 00 0 00 168 60 6 00 0 0 168 0 0 0 0 0 168 0	15 00 82 50 17 00 173 50 11 00 862 50 16 00 86 50 8 00 865 00 15 00 166 00 15 00 166 00
NATIONAL GAS WELL	USAGE LET	28 00 GRAZE PERACRE	500 FFG 00	0.00 0.00 24878000	15 00 829 50
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DRIC CULTYPACKER DRILL BRIGATE (EQ	DNE THE S UNIT OVER K TELEP 100 EDIP 100 EDIP 100 EDIP 100	878 9084 0 107 0 07 17 0 17 112 0 12 168 1 98	2.03.4536		
ALPALPA HAY	ACRES 275 P	AP NATES	40 00		
MACHNE (110)	POWER TREES ACCUMENT OVER K	165 25 M	2.03.42300		
SWEET (CO	13 PT3P 4 00 100 PP 4 00	110 266			
WHEAT	ACRES GO P	AP NATES	11 00		
MACHNE DRIC CHEEL DRIC DRILL BRIDATE CO.		878 9084 C	2.03 10 30		
BORDALE LOS DATT	760				
GRAN CART TRUCK	GRANTAN 1 00 10 10 10 10 10 10 10 10 10 10 10 1	0 14 0 16 0 16 0 16			
CORN FOR GRAIN MACHINE	ACRES 127.6 PO POWER TRIES OF UNIT OVER K	ANT MATER MATERIALITY KIE TOTAL C	36 00		
MACHINE DISC & SPRAY PLANER ROLLING CALT (DI) SISSINGUE ROLLING CALT (DI)	POWER TENES ACCI INT OVER K 188 HP 1 00 188 HP 1 00 108 HP 1	OMPLEHORNT ATR TOTAL C OF OF OF OR O OF OF OR O OF OF OR O OF OF OR O OF O OF OR O OF			
COMMING GRAIN CART TRUCK		120 020 120 020 120 020			
ONN TORONN		JULY WATER	200		
MACHINE	ACKES 127 S PF POWER TREES UNIT OVER K 188 HP 1 00 188 HP 1 00 108 HP 1 00		3.68*DM		
DISC ORBIL DISC & EPRAY FLANEIX ROLLING CULT EDECREES ANNOROUS BRIGATE (EQ	188.9P 1 00 108.9P 1 00 108.9P 1 00 188.9P 1 00	878 9058L C			
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HAYGRAZERBILLET	ACREE 190 P	AP NATER MPLEHEAT			
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TABLE 6. Alfalfa establishment, sprinkler-irrigated, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Projected 2018
Planting dates: August 1 - September 1

Planting dates: August 1 - S	eptember 1							
ITEM	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
PURCHASED INPUTS								
SEED OAT SEED PUMP WATER*	\$4.00 \$0.44	20 LBS 30 LBS 3 AC. IN.	\$80.00 \$13.20					\$80.00 \$13.20
SUBTOTAL			\$93.20				-	\$93.20
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC CULTI-PACKER DRILL IRRIGATE (4X)	185 HP 93 HP 93 HP	0.07 HR 0.17 HR 0.12 HR 0.40 HR		\$0.60 \$1.45 \$1.03 \$3.00	\$1.96 \$2.48 \$1.75 \$8.24	\$1.26 \$0.17 \$0.32 \$0.00	\$2.76 \$3.40 \$1.72 \$0.43	\$6.58 \$7.50 \$4.82 \$11.67
SUBTOTAL		0.76 HR		\$6.08	\$14.43	\$1.75	\$8.31	\$30.57
OVERHEAD EXPENSES								
DOWNTIME EMPLOYEE BENEFITS INSURANCE SUPERVISION AND MANAGEMENT		0.09 HR	\$0.12	\$0.77 \$1.09 \$9.24				\$0.77 \$1.09 \$0.12 \$9.24
SUBTOTAL		0.09	\$0.12	\$11.11				\$11.23
TOTAL OPERATING EXPENSES		0.85 HR	\$93.32	\$17.19	\$14.43	\$1.75	\$8.31	\$135.00

TABLE 7. Alfalfa hay, sprinkler-irrigated, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Projected 2018

Harvesting dates: June 1 - October 10 ITEM YIELD PRICE TOTAL GROSS RETURNS ALFALFA HAY \$185.00 6.50 TONS (STACKED) \$1,202.50 TOTAL \$1,202.50 PURCHASED INPUTS FIXED PRICE PURCHASED INPUTS QUANTITY COST TOTAL NITROGEN (N) \$0.31 30 LBS \$9.30 \$9.30 PHOSPHATE (P2O5) 100 LBS \$24.00 \$24.00 \$0.24 POTASH (K20) \$0.23 \$11.50 \$11.50 50 LBS TRACE ELEMENTS \$0.15 12 LBS \$1.80 \$1.80 ESTABLISHMENT:Principal 7 YEARS \$19.29 \$19.29 \$4 19 : Interest \$4.19 BALING TWINE \$0.72 1 ROLL \$0.41 \$0.41 PUMP WATER* 40 AC. IN. SUBTOTAL \$47.01 \$70.49 \$23.48 ACCOMPLISHMENT PURCHASED RATE INPUTS POWER FUEL & FIXED PREHARVEST OPERATIONS LABOR REPAIRS LUBE COST TOTAL UNIT RATE IRRIGATE (11X) 1.10 HR \$8.25 \$109.84 \$0.00 \$5.79 \$123.88 SUBTOTAL 1.10 HR \$8.25 \$109.84 \$0.00 \$5.79 \$123.88 HARVEST OPERATIONS SWATHER (4X) 13 FT SP 0.64 HR \$5.47 \$6.47 \$0.37 \$3.69 \$16.00 BALER (4X) 126 HP 0.68 HR \$15.15 \$2.85 \$5.81 \$5.98 \$29.79 SUBTOTAL 1.32 HR \$11.29 \$21.62 \$3.22 \$9.67 \$45.79 OVERHEAD EXPENSES DOWNTIME 0.33 HR \$2.82 \$2.82 EMPLOYEE BENEFITS \$3.52 \$3.52 **INSURANCE** \$0.39 \$0.39 LAND TAXES \$0.20 \$0.20 SUPERVISION AND MANAGEMENT \$85.94 \$85.94 OTHER EXPENSES \$47.96 \$47.96 SUBTOTAL 0.33 HR \$48.35 \$92.27 \$0.20 \$140.83 TOTAL OPERATING EXPENSES \$95.36 \$39.14 \$380.98 2.75 HR \$111.81 \$131.46 \$3.22 NET OPERATING PROFIT \$821.52 INTEREST ON OPERATING CAPITAL @ 5.50%

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

INTEREST ON EQUIPMENT INVESTMENT

RETURN TO LAND AND RISK

\$53.03

)

\$2.92

\$8.22

\$810.38

TABLE 8. Wheat, sprinkler-irrigated, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Projected 2018
Planting dates: August 15 - November 15
Harvesting dates: July 1 - July 15

Harvesting dates: July 1 - July	/ 15								
ITEM	PRICE	YIE	LD	BASE					TOTAL
GROSS RETURNS WHEAT DIRECT PAYMENT COUNTER CYCLICAL PAYMENT GRAZING	\$4.40 \$0.00 \$0.00 \$40.00	80.00	BUSHELS BUSHELS ACRE						\$352.00 \$0.00 \$0.00 \$40.00
TOTAL									\$392.00
PURCHASED INPUTS	PRICE	QUAN	ITITY	PURCHASED INPUTS				FIXED COST	TOTAL
SEED MANURE LIVESTOCK FAC & EQUIP PUMP WATER* CROP INSURANCE	\$0.44 \$2.70 \$0.12	8	LBS TON AC. IN.	\$44.00 \$21.60				\$5.00	\$44.00 \$21.60 \$5.00 \$0.00 \$0.12
SUBTOTAL				\$65.60				\$5.00	\$70.72
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPL RA		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC CHISEL DISC DRILL IRRIGATE (7X)	185 HP 185 HP 185 HP 126 HP	0.09 0.07 0.12	HR HR HR HR		\$0.60 \$0.77 \$0.60 \$1.03 \$5.25	\$1.96 \$2.52 \$1.96 \$2.67 \$30.21	\$1.26 \$0.69 \$1.26 \$0.68 \$0.00	\$2.76 \$2.75 \$2.76 \$1.93 \$2.00	\$6.58 \$6.73 \$6.58 \$6.31 \$37.46
SUBTOTAL		1.05	HR		\$8.24	\$39.31	\$3.90	\$12.20	\$63.66
HARVEST OPERATIONS									
COMBINE GRAIN CART TRUCK	GRAIN TABLE 93 HP SEMI	0.14	HR HR HR		\$1.20 \$1.20 \$1.20	\$3.16 \$2.05 \$1.98	\$0.52 \$0.44 \$0.39	\$13.79 \$1.89 \$6.03	\$18.67 \$5.57 \$9.60
SUBTOTAL		0.42	HR	\$0.00	\$3.59	\$7.19	\$1.35	\$21.71	\$33.84
OVERHEAD EXPENSES									
DOWNTIME EMPLOYEE BENEFITS INSURANCE LAND TAXES SUPERVISION AND MANAGEMENT		0.19	HR	\$0.24	\$1.65 \$2.13 \$28.53			\$0.20	\$1.65 \$2.13 \$0.24 \$0.20 \$28.53
OTHER EXPENSES				\$47.96					\$47.96
SUBTOTAL		0.19	HR	\$48.20	\$32.30			\$0.20	\$80.70
TOTAL OPERATING EXPENSES		1.66	HR	\$113.80	\$44.13	\$46.50	\$5.26	\$39.11	\$248.92
NET OPERATING PROFIT									\$143.08
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMEN	NT	(\$44.38	@	5.50%)				\$2.44 \$12.68
RETURN TO LAND AND RISK									\$127.95

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

GROSS RETURN		\$392.00	
VARIABLE OPERATING EXPENSES	\$165.55		(0000011100111
RETURN OVER VARIABLE EXPENSES		\$226.45	(GROSS MARGIN)
FIXED EXPENSES	\$39.11		(22212122222222222222222222222222222222
NET FARM INCOME	04440	\$187.33	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$44.13	£4.40.00	(DETUDN TO CARITAL LAND & RICK)
NET OPERATING PROFIT CAPITAL COSTS	£45.40	\$143.20	(RETURN TO CAPITAL, LAND & RISK)
	\$15.12	0400.07	
RETURN TO LAND AND RISK		\$128.07	

TABLE 9. Com for grain, sprinkler-irrigated, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Projected 2018

Planting dates: April 15 - May 15

Harvesting dates	: October 1 -	November 15
------------------	---------------	-------------

ITEM	PRICE	YIE	LD	BASE					TOT
GROSS RETURNS									
CORN FOR GRAIN	\$3.70	200.00	BUSHELS						\$740.
DIRECT PAYMENT				0.85					
	\$0.00		BUSHELS	0.85					\$0.
COUNTER CYCLICAL PAYMENT	\$0.00		BUSHELS						\$0.
GRAZING	\$20.00	1.00	ACRE						\$20.
TOTAL								-	\$760.0
101112									ψ, σσ.
PURCHASED INPUTS	PRICE	QUAN	ITITY	PURCHASED INPUTS				FIXED COST	тот
PURCHASED INPUTS	FRICE	QUAN	111111	INFOIS				0031	101
SEED	\$3.00	26.00		\$78.00					\$78.
NITROGEN (N)	\$0.31	220.00	LBS	\$68.20					\$68.
PHOSPHATE (P2O5)	\$0.24	70.00	LBS	\$16.80					\$16.
POTASSIUM (K-MAG)	\$0.21	300.00	LBS	\$63.00					\$63.
INSECTICIDE	\$15.07		ACRE	\$45.20					\$45.
HERBICIDE	\$22.60		ACRE	\$22.60					\$22.
LIVESTOCK FAC & EQUIP	Ψ22.00	1.00	ACITE	Ψ22.00				\$5.00	\$5.
		04.00	40 IN					φ5.00	
PUMP WATER*		34.00	AC. IN.						\$0.0
CROP INSURANCE	\$0.39		-						\$0.3
SUBTOTAL				\$293.80				\$5.00	\$299.
	POWER	10001101		PURCHASED		FUEL &		FIXED	
PREHARVEST OPERATIONS	UNIT	ACCOMPL RA		INPUTS	LABOR	LUBE	REPAIRS	COST	ТОТ
DISC	185 HP	0.07			\$0.60	\$1.96	\$1.26	\$2.76	\$6.
CHISEL	185 HP	0.09			\$0.77	\$2.52	\$0.69	\$2.75	\$6.
DISC & SPRAY	185 HP	0.10	HR		\$0.86	\$2.80	\$1.88	\$4.77	\$10.
PLANTER	126 HP	0.12	HR		\$1.03	\$2.67	\$0.79	\$5.28	\$9.
ROLLING CULT (2X)	126 HP	0.20	HR		\$1.71	\$4.45	\$1.79	\$4.29	\$12.
SIDEDRESS	185 HP	0.17	HR		\$1.45	\$4.75	\$0.96	\$4.69	\$11.
IRRIGATE (16X)		1.60			\$12.00	\$93.37	\$0.00	\$6.20	\$111.
SUBTOTAL		2.35	HR		\$18.41	\$112.52	\$7.38	\$30.74	\$169.
HARVEST OPERATIONS									
COMBINE	CORN HEAD	0.20	HR		\$1.71	\$4.51	\$0.93	\$32.13	\$39.
GRAIN CART	93 HP	0.20			\$1.71	\$2.92	\$0.62	\$2.70	\$7.
TRUCK	SEMI	0.20			\$1.71	\$2.84	\$0.56	\$8.61	\$13.
	SEIVII	0.20	ПК		φ1.71	φ2.04	φ0.50	φο.01	φ13.
SUBTOTAL		0.60	HR	\$0.00	\$5.13	\$10.27	\$2.11	\$43.44	\$60.
OVERHEAD EXPENSES									
DOWNTIME		0.30	HR		\$2.52				\$2.
EMPLOYEE BENEFITS					\$4.24				\$4.
INSURANCE				\$0.47	•				\$0.
LAND TAXES				Ψ011				\$0.20	\$0.
SUPERVISION AND MANAGEMENT	г				\$56.44			Ψ0.20	\$56.
OTHER EXPENSES	•			£47.00	φ50.44				\$47.
OTHER EXPENSES				\$47.96					\$47.
SUBTOTAL		0.30	HR	\$48.43	\$63.20			\$0.20	\$111.
TOTAL OPERATING EXPENSES		3.25	HR	\$342.23	\$86.74	\$122.79	\$9.49	\$79.38	\$641.
NET OPERATING PROFIT									\$118.
INTEREST ON OPERATING CAPIT. INTEREST ON EQUIPMENT INVES		(\$178.10	@	5.50%)				\$9. \$28.

^{*} Pump water costs are shown under irrigation in the preharvest operations section BUDGET SUMMARY

GROSS RETURN		\$760.00	
VARIABLE OPERATING EXPENSES	\$474.51		
RETURN OVER VARIABLE EXPENSES		\$285.49	(GROSS MARGIN)
FIXED EXPENSES	\$79.38		
NET FARM INCOME		\$206.11	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$86.74		
NET OPERATING PROFIT		\$119.37	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$38.06		
RETURN TO LAND AND RISK		\$81.31	

TABLE 10. Grain sorghum, sprinkler-irrigated, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Projected 2018
Planting dates: May 15 - June 15

RETURN TO LAND AND RISK

Planting dates: May 1 Harvesting dates: Oc	tober 15 - November 15								
ITEM	PRICE	YIELI)	BASE					TOTAL
GROSS RETURNS GRAIN SORGHUM DIRECT PAYMENT COUNTER CYCLICAL PAYMENT GRAZING	\$6.08 \$0.00 \$0.00 \$5.00	45.00 45.00 0.00 1.00	CWT	0.85					\$273.54 \$0.00 \$0.00 \$5.00
TOTAL								-	\$278.54
PURCHASED INPUTS	PRICE	QUANT	ITY	PURCHASED INPUTS				FIXED COST	TOTAL
SEED NITROGEN (N) PHOSPHATE (P205) HERBICIDE LIVESTOCK FAC & EQUIP PUMP WATER*	\$1.32 \$0.31 \$0.24 \$22.60	150 50 1	LBS LBS LBS ACRE	\$6.60 \$46.50 \$12.00 \$22.60				\$5.00	\$6.60 \$46.50 \$12.00 \$22.60 \$5.00
CROP INSURANCE SUBTOTAL	\$0.39			\$87.70				\$5.00	\$0.39 \$93.10
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLIS RATE		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC CHISEL DISC & SPRAY PLANTER ROLLING CULT. SIDEDRESS ANHYDROUS IRRIGATE (6X) SUBTOTAL	185 HP 185 HP 185 HP 126 HP 126 HP 185 HP	0.07 0.09 0.10 0.12 0.10 0.17 0.60	HR HR HR HR HR HR		\$0.60 \$0.77 \$0.86 \$1.03 \$0.86 \$1.45 \$4.50	\$1.96 \$2.52 \$2.80 \$2.67 \$2.23 \$4.75 \$32.95	\$1.26 \$0.69 \$1.88 \$0.79 \$0.89 \$0.96 \$0.00	\$2.76 \$2.75 \$4.77 \$5.28 \$2.15 \$4.69 \$2.19	\$6.58 \$6.73 \$10.30 \$9.78 \$6.12 \$11.86 \$39.64
HARVEST OPERATIONS		1.20	1111		ψ10.00	Ψ43.50	ψ0.40	ΨΣ-1.00	ψ31.00
COMBINE GRAIN CART TRUCK	GRAIN TABLE 93 HP 2 T 18 FT	0.14 0.14 0.14	HR		\$1.20 \$1.20 \$1.20	\$3.16 \$2.05 \$1.59	\$0.52 \$0.44 \$0.06	\$13.79 \$1.89 \$16.27	\$18.67 \$5.57 \$19.11
SUBTOTAL		0.42	HR	\$0.00	\$3.59	\$6.79	\$1.02	\$31.95	\$43.35
OVERHEAD EXPENSES DOWNTIME EMPLOYEE BENEFITS INSURANCE LAND TAXES SUPERVISION AND MANAGEMEN OTHER EXPENSES	п	0.23	HR	\$0.27 \$47.96	\$1.92 \$2.46 \$20.76			\$0.20	\$1.92 \$2.46 \$0.27 \$0.20 \$20.76 \$47.96
SUBTOTAL		0.23	HR	\$48.23	\$25.14			\$0.20	\$73.57
TOTAL OPERATING EXPENSES		1.90	HR	\$135.94	\$38.79	\$56.67	\$7.50	\$61.74	\$301.02
NET OPERATING PROFIT									(\$22.49)
INTEREST ON OPERATING CAPITION INTEREST ON EQUIPMENT INVESTIGATION		(\$58.79	@	5.50%)				\$3.23 \$19.99

* Pump water costs are shown under irrigation in	the preharvest ope		n
GROSS RETURN		\$278.54	
VARIABLE OPERATING EXPENSES	\$200.11		
RETURN OVER VARIABLE EXPENSES		\$78.43	(GROSS MARGIN)
FIXED EXPENSES	\$61.74		
NET FARM INCOME		\$16.69	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$38.79		
NET OPERATING PROFIT		(\$22.09)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$23.22		
RETURN TO LAND AND RISK		(\$45.32)	

(\$45.71)

TABLE 11. Haygrazer/millet, dryland, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Projected 2018

Planting dates: June 1 - June 15

Harvesting dates: September 1 - September 15

Harvesting dates: September	r 1 - Septembe	r 15								
ITEM	PRICE		YIEL	.D						TOTAL
GROSS RETURNS HAY	\$170.00		1.50	TONS						\$255.00
TOTAL									-	\$255.00
PURCHASED INPUTS	PRICE		QUAN	ΓΙΤΥ	PURCHASED INPUTS				FIXED COST	TOTA
SEED	\$0.86		6	LBS	\$5.16					\$5.16
HERBICIDE BALING TWINE	\$13.70 \$0.72			ACRE ROLL	\$13.70 \$0.10					\$13.70 \$0.10
SUBTOTAL	•				\$18.95				-	\$18.95
PREHARVEST OPERATIONS	POWER UNIT		ACCOMPLI RAT		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTA
CHISEL	185 HP		0.09	HR		\$0.77	\$2.52	\$0.69	\$2.75	\$6.73
DISC DRILL	185 HP 126 HP		0.07 0.12			\$0.60 \$1.03	\$1.96 \$2.67	\$1.26 \$0.68	\$2.76 \$1.93	\$6.58 \$6.31
SUBTOTAL		-	0.28			\$2.39	\$7.15	\$2.64	\$7.44	\$19.62
HARVEST OPERATIONS						V =	*****	* =	*****	******
SWATHER	14 FT SP		0.16	ШΒ		\$1.37	\$1.62	\$0.09	\$0.92	\$4.00
BALER	126 HP		0.16			\$1.45	\$3.79	\$0.09	\$1.50	\$4.00 \$7.45
SUBTOTAL		-	0.33	HR	\$0.00	\$2.82	\$5.40	\$0.81	\$2.42	\$11.45
OVERHEAD EXPENSES										
DOWNTIME			0.15	HR		\$1.30				\$1.30
EMPLOYEE BENEFITS INSURANCE					\$0.10	\$0.94				\$0.94 \$0.10
LAND TAXES SUPERVISION AND MANAGEMENT						\$18.16			\$0.20	\$0.20 \$18.16
OTHER EXPENSES					\$47.96					\$47.96
SUBTOTAL		-	0.15	HR	\$48.06	\$20.40			\$0.20	\$68.66
TOTAL OPERATING EXPENSES		-	0.43	HR	\$67.02	\$25.61	\$12.55	\$3.45	\$10.06	\$118.69
NET OPERATING PROFIT										\$136.31
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMEN	IT	(\$12.44	@	5.50%)				\$0.68 \$4.33
RETURN TO LAND AND RISK										\$131.30
		BUDGET	SUMMARY							
GROSS RETURN VARIABLE OPERATING EXPENSES		\$83.01	\$255.00							
RETURN OVER VARIABLE EXPENSES FIXED EXPENSES		\$10.06	\$171.99	(GROS	S MARGIN)					
			\$161.93	(RETUR	RN TO CAPITAL, I	ABOR, LANI	0 & RISK)			
NET OPERATING PROFIT			\$136.31 (RETURN TO CAPITAL, LAND & RISK)							
CAPITAL COSTS RETURN TO LAND AND RISK		\$5.01	\$131.30							

TABLE 12. Summary of per acre costs and returns for a 1,280 acre farm with above average management, Union County, Projected 2018

Projected 2018	ALFALFA	ALFALFA	WHEAT	CORN FOR	GRAIN	HAYGRAZER
	ESTABLISHMENT	HAY	WITEAT	GRAIN	SORGHUM	& MILLET
		TONS	BU	BU	CWT	TONS
PRIMARY YIELD		6.50	80.00	200.00	45.00	1.50
PRIMARY PRICE		\$185.00	\$4.40	\$3.70	\$6.08	\$170.00
GOVERNMENT PAYMENTS		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
SECOND INCOME		\$0.00	\$40.00	\$20.00	\$5.00	\$0.00
GROSS RETURN		\$1,202.50	\$392.00	\$760.00	\$278.54	\$255.00
CASH OPERATING EXPENSES						
SEED	\$93.20		\$44.00	\$78.00	\$6.60	\$5.16
FERTILIZER		\$46.60	\$21.60	\$148.00	\$58.50	
CHEMICALS				\$67.80	\$22.60	\$13.70
CROP INSURANCE			\$0.12	\$0.39	\$0.39	
OTHER PURCHASED INPUTS CANAL WATER		\$0.41				\$0.10
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$6.20	\$21.62	\$16.29	\$29.42	\$23.72	\$12.55
FUEL-IRRIGATION	\$8.24	\$109.84	\$30.21	\$93.37	\$32.95	
REPAIRS	\$1.75	\$3.22	\$5.26	\$9.49	\$7.50	\$3.45
CUSTOM CHARGES						\$0.00
LAND TAXES		\$0.20	\$0.20	\$0.20	\$0.20	\$0.20
OTHER EXPENSES	\$0.12	\$48.35	\$48.20	\$48.43	\$48.23	\$48.06
TOTAL CASH EXPENSES	\$109.51	\$230.24	\$165.87	\$475.10	\$200.70	\$83.22
RETURN OVER CASH EXPENSES	(\$109.51)	\$972.26	\$226.13	\$284.90	\$77.83	\$171.78
FIXED EXPENSES	\$8.31	\$38.94	\$38.91	\$79.17	\$61.53	\$9.86
TOTAL EXPENSES	\$117.81	\$269.17	\$204.79	\$554.28	\$262.24	\$93.07
NET FARM INCOME	(\$117.81)	\$933.33	\$187.21	\$205.72	\$16.30	\$161.93
LABOR AND MANAGEMENT COSTS	\$17.19	\$111.81	\$44.13	\$86.74	\$38.79	\$25.61
NET OPERATING PROFIT	(\$135.00)	\$821.52	\$143.08	\$118.98	(\$22.49)	\$136.31
CAPITAL COSTS INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT		\$2.92 \$8.22	\$2.44 \$12.68	\$9.80 \$28.27	\$3.23 \$19.99	\$0.68 \$4.33
TOTAL CAPITAL COSTS	\$0.00	\$11.14	\$15.12	\$38.06	\$23.22	\$5.01
RETURN TO LAND AND RISK	(\$135.00)	\$810.38	\$127.95	\$80.92	(\$45.71)	\$131.30

Flex Computation 179.55 188.36 35.81

TABLE 13. Whole farm summary, Union County, Projected 2018

Projected	2018				
GROSS RETURNS					
ALFALFA HAY	375 ACRI	FS			
CROP	0.0 7.0		\$450,938		
WHEAT	420.00 ACRI	ES	,,		
CROP			\$147,840		
GRAZING			\$16,800		
DIRECT PAYMENT			\$0		
COUNTER CYCLICA	L PAYMENT		\$0		
CORN FOR GRAIN	127.50 ACRI	ES			
CROP			\$94,350		
GRAZING			\$2,550		
DIRECT PAYMENT			\$0		
COUNTER CYCLICA			\$0		
GRAIN SORGHUM	127.5 ACRI	ES	004.070		
CROP			\$34,876		
GRAZING			\$638		
DIRECT PAYMENT	LDAVMENT		\$0 \$0		
COUNTER CYCLICA HAYGRAZER/MILLET		EC	\$0		
CROP	190 ACKI	E3	\$48,450		
CROP			Φ40,430		
GROSS RETURN				-	\$796,441
CASH OPERATING EX	PENSES				
SEED			\$35,373		
FERTILIZER			\$52,876		
CHEMICALS			\$14,129		
CROP INSURANCE			\$150		
OTHER PURCHASE	:D INPUTS		\$171		
CANAL WATER			\$0		
	CANTS-EQUIPMENT		\$24,449		
FUEL-IRRIGATION			\$70,437		
REPAIRS			\$6,334		
CUSTOM CHARGES	3		\$0		
LAND TAXES			\$249		
OTHER EXPENSES			\$59,838		
TOTAL CA	ASH EXPENSES		-	\$264,006	
TOTAL OF	KOITEXI ENOLO			Ψ204,000	
RETURN OVER CASH	EXPENSES				\$532,435
FIXED EXPENSES			\$43,982		
TOTAL EX	(PENSES			\$307,988	
NET FARM INCOME					¢400 450
NET FARIVI INCOIVIE					\$488,452
LABOR AND MANAGEI	MENT COSTS		\$82,281		
			*- , -		
NET OPERATING PRO	FIT				\$406,171
CAPITAL COSTS					
INTEREST ON OPE	RATING CAPITAL		\$3,910		
	IPMENT INVESTMEN	Т	\$15,386		
	- 1-11		,		
TOTAL CA	APITAL COSTS		-	\$19,296	
RETURN TO LAND AN	D RISK				\$386,875
				=	

	RETURN	RETURN ON
LAND VALUE	TO RISK*	INVESTMENT**
\$500 /ACRE	\$367,675	44.98%
\$750 /ACRE	\$358,075	33.21%
\$1,000 /ACRE	\$348,475	26.32%
\$1,250 /ACRE	\$338,875	21.80%
\$1,500 /ACRE	\$329,275	18.61%

^{*} 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)