TABLE 1. Acreage Summary, Union County,
Actual 2014

BUDGET AREA......UNION COUNTY
FARM SIZE........1,280 ACRES
IRRIGATION TYPE.....SPRINKLER
NUMBER OF CROPS....4....

		_	WATER	USE			
	LAND USE		AC.IN.	TOTAL			
ACREAGE SUMMARY:	(ACRES)		PER AC.	AC.IN.			
WHEAT	446.25		11	4,909			
ARP	0.00						
FLEX IN WHEAT	78.75		11	866			
CORN	178.50		34	6,069			
ARP	0.00						
FLEX IN WHEAT	31.50		11	347			
GRAIN SORGHUM	267.75		12	3,213			
ARP	0.00						
FLEX IN WHEAT	47.25		11	520			
HAYGRAZER	190.00						
ROADS, HOMESTEAD	40.00						
TOTAL	1,280.00			15,923			
ACRE FEET PER ACRE OF WATER RIGHTS 1.04							

TABLE 2. Basic cost information for Union County, Actual 2014

Actual 2014				
Item				
Labor Wage Rate:				
Equipment operators		\$/hour		\$8.55
General & Irrigators		\$/hour		\$7.50
Purchased Inputs:				
Fertilizer:				
Nitrogen (N)		\$/pound		\$0.50
Phosphate (P205)		\$/pound		\$0.40
Seed:				
Wheat		\$/pound		\$0.45
Corn for Grain		\$/bag		\$261.00
Grain Sorghum		\$/pound		\$1.31
Haygrazer/Millet		\$/pound		\$0.86
Natural gas		\$/MCF		\$4.00
(service charge)		\$/month	\$10.00	
Diesel fuel		\$/gallon		\$3.83
Gasoline		\$/gallon		\$2.55
Electricity		cents/KwHr		7.94
LP Gas		\$/gallon		\$2.80
Baling Twine		\$/roll		\$0.72
Employee Liability Insurance		\$/\$1,000 wa	ages	\$20.00
Employee Benefits		percent/wag	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		\$0.21
Personal Property Tax Rate	- NR	\$/\$1,000	(Assessed	\$23.18
	- R		Value)	\$20.51
Supervision Factors				
Field Crop-Irrigation		\$/labor hou	r	\$1.00
Field Crop-Equipment & General		\$/labor hou	r	\$0.50
Management Rate		percent		7.00%

TABLE 3. Overhead cost information for Union County, Actual 2014

Electricity (Domestic &	Shop)		\$484.00	per month	\$5,808
Telephone			\$235.95	per month	\$2,831
Accounting & Legal					\$3,576
Misc. Supplies & Hand	d Tools				\$4,338
Pickup and Auto					
miles	37,510	@	\$0.500 per mile		\$18,755
Insurance					
 general liability (no 	n-employee)				\$4,459
- fire/theft					\$2,263
Property Taxes					
 non-planted land 					\$0
- other than land & m	•				\$6,010
Building repairs and m					\$1,888
Dues, fees, publication					\$436
Farmstead Equipment					\$284
				Total	\$50,647
			Total per planted acre		\$39.63
			Total per dryland acre		\$7.93

TABLE 4. Pumping costs and data for Assaul 2014	irrigation wells, Union Co	sany,					,					
DELIVERYPSE SPRINGER	20	DEPTH OH	GACTERISTICS STATIC DRAW DOWN TOTAL HEAD CASING		180 50 230 400							
GALLONG PER MINUTE (GPM) WORK HORSEPOWER EFFICIENCY FACTOR: ELECTRICITY NATURAL GAG LP GAG DESSEL	7000 523 0.54 0.54 0.10	10	_nafti		400							
PORTOR OF PER UNIT: ELECTROTY NATURAL ONG LP GAG DESEL	0.54 0.51 7.5 \$4.0 \$2.8 \$3.8		4									
ELECTRIC WELL:	\$2.8 \$3.8	SGAL SGAL										
ELECTRIC WELL: COST PER HOUR COST PER ACPE NOH NATURAL GAS WELL: COST PER HOUR COST PER ACPE NOH		\$5.84 \$3.77 \$4.25 \$2.75										
LP GAS WELL: COST PER HOUR COST PER ACRE NOH		\$2.75 \$29.35 \$18.97										
DESSE WELL COST PER HOUR COST PER ACRE NON TABLE 5. Equipment summary for a 1, Acres 2014	280 acre sprinkler-irriga	\$20.26 \$13.10	ove average man	agement Uni	on County.							
FOR A SEE	ANUAL HOURS O	F NAMER	TOTAL I	PUEL, OL. USRICANT	VARMOLE REPAIR	COSTS FUEL, OIL PER HR	REPAR PER HR		SEPRECIATIO	FHED C	COSTS ANES	TOTAL PER HR
TRACTOR 66 / 1 TRACTOR 76 / 1 TRACTO	60 19 60 26 60 19 77 3	1 1	\$17,036 \$20,917 \$40,057 \$51,677 \$3,900	\$2,449 \$7,696 \$14,328 \$5,045 \$436	\$149 \$967 \$2,043 \$419 \$18	\$15.53 \$31.59 \$39.67 \$31.99 \$14.34	\$0.94 \$3.97 \$5.66 \$2.66 \$0.58		\$52 \$2,64 \$6,26 \$6,86 \$1,45		\$61 \$256 \$364 \$514 \$112	\$3.71 \$11.92 \$18.41 \$59.46 \$51.38
TRACTOR 96 / TRACTOR 04 / TRACT	## 15 ## 25	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$17,025 \$10,917 \$10,007 \$1,670 \$1,670 \$1,600 \$1,600 \$1,600 \$1,000		\$149 \$967 \$100 \$118 \$7 \$141 \$228 \$210 \$165 \$165 \$165 \$17 \$12 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2		\$0.94 \$1.97 \$5.66 \$0.58 \$0.52 \$1.24 \$1.72 \$1.72 \$1.72 \$0.72 \$0.00 \$1.28 \$0.00 \$1.28 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00		\$22,54 \$2,54 \$4,55 \$4,56 \$1,00 \$22 \$22 \$1,00 \$1,00 \$22 \$2,00 \$41,50 \$1,0		\$61 \$256 \$364 \$254 \$112 \$62 \$13 \$31 \$27 \$28 \$27 \$28 \$29 \$12 \$31 \$315 \$29 \$12 \$315 \$315 \$115 \$41 \$116 \$411	\$3.71 \$11.92 \$18.46 \$61.96 \$61.96 \$11.36 \$2.09 \$80.2 \$7.85 \$61.39 \$4.74 \$2.75 \$4.74 \$2.75 \$60.29 \$60.24 \$60
CORNHEAD 8 GRANTABLE 22 SPRINER 30 GRANCART L: SEMITRACTORITRALER TANDEN ANLETRUCK	ROW 3 FT 12 FT 4 19 12	1	\$9,820 \$4,150 \$1,500 \$3,100 \$17,500 \$10,000	\$2,417 \$603 \$0 \$0 \$0 \$43,726	\$71 \$156 \$32 \$0 \$237 \$15	\$20.11 \$16.09	\$2:00 \$1:28 \$0:72 \$0:00 \$2:80 \$0:40		\$1,66 \$50 \$20 \$41 \$3,50 \$2,00		\$97 \$29 \$12 \$34 \$135 \$77	\$436 \$436 \$474 \$277 \$3024 \$65.42
MATURAL GAS WELL	10,28 10,28		\$261,704	\$0 \$43,726 \$76,700	90 90 90 97,212	\$20.11 \$16.09 \$0.00 \$0.00 \$4.25	\$0.00 \$0.00		\$2,00 \$1,36 \$36,60	. 1	\$116 \$131 \$2,203	\$0.21 \$0.16
ты	NEV VALIS	EQUIPMENT USED VALUE	YEARS LEE	EQUIP CODE	MX HOURS	RUEL UNTER	LUBE	ACCUM HOURS	Kil	NTE EXP	EREST PENSE	
TRACTOR 86 + TRACTOR 100 + TRA	P 15726.0 P 61185.0 P 90265.0 P 122965.0 T 29000.0 11000.0	0 17234.50 0 23916.50 0 43056.50 0 51676.50 0 3600.00	25:00 15:00 15:00 15:00 20:00 20:00	1.00 1.00 1.00 2.00 2.00 2.00	800.00 800.00 300.00 800.00 500.00	5.54 7.50 9.42 6.96 3.12 0.00 0.00 0.00 0.00 0.00	0.10 0.10 0.20 0.20 0.20	9627.33 4384.35 3972.65 2050.23 425.60 323.00	23.0 18.0 11.0 13.0 14.0 10.0	1 2	402.71 820.09 592.29 856.26 797.50 302.50	
	T 200.0 CW 800.0 T 2000.0 T 7200.0 CW 2500.0 T 7520.0	0 1650.00 0 4000.00 0 10000.00 0 3600.00 0 9620.00 0 4150.00	15:00 15:00 15:00 10:00 15:00 15:00	3.00 3.00 3.00 8.00 5.00 2.00	200.00 200.00 200.00 100.00 200.00 300.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	1674.00 996.60 2779.00 1238.25 321.30 1952.16	15.0 16.0 12.0 12.0 9.0		90.75 220.00 550.00 196.00 687.50 206.80	
DRIL 21 F CORNIFAD 8 F GRANTARE 22 F SPRAYER 30 F GRANCART SIMI-TRACTOR/TRALER TANDEM-ANLE TRUCK IMM-GATOR SPENNLER CENTER PROT SPENNLER NATURAL GAG WELL	P 15726.0 P 66185.0 P 66285.0 P 120850.0 P 120850.0 T 20000.0 T 10000.0 T 10000.0 T 20000.0 T 20000.0 T 7 7200.0 T 7 7200	0 1723450 0 3391650 0 5187650 0 5187650 0 250030 0 550030 0 550030 0 550030 0 500030 0 1500030 0 150030 0 150030 0 150030 0 150030 0 150030 0 150030	30.00 25.00 15.00 20.00 20.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00	1.00 1.00 1.00 2.00 2.00 2.00 2.00 2.00	800.00 800.00 800.00 800.00 800.00 800.00 200.00 200.00 200.00 200.00 100.00 200.00 150.00 800.00 800.00 800.00 800.00	0.00 6.00 6.00 0.00 0.00	0.10 0.10 0.20 0.20 0.20 0.20 0.20 0.20	2627.32 4384.25 2872.65 2872.65 2255.22 455.60 223.00 686.15 3274.00 996.60 2778.00 1238.25 221.30 1862.16 686.38 2661.07 122.48 2661.07 154621.40 156421.40	22.0 18.0 11.0 11.0 12.0 12.0 12.0 12.0 12.0 12		402.71 820.09 802.29 806.26 797.50 302.50 302.50 302.50 303.55 220.00 188.00 188.00 188.00 170.50 925.00 170.50 925.00 154.00 925.00 92	
NATURAL GAG WELL USAGE LET CORNEOR GRAIN WHEAT GRAIN SORGHAM	2000.0 HAVGRAZE PERACR &MILET TOTAL		25.00	0.00	8742.00	0.00	0.00	154621.40	15.0		929.50	
0.14 0.20 0.54 0.12 0.32 0.22 0.22 0.43 0.43 0.14 0.20 0.54												
014 0.00 0.14 0.20 0.15 0.12 0.22 0.22 0.22 0.22 0.23 0.43 0.43 0.43 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45	0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	n 77 74 16 16 16 16 16 16 16 16 16 16 16 16 16										
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	000 01 000 01 000 01 000 01 000 01	10 18 10 18 14										
INTEREST PROPATION	000 363 000 363 000 363	5										
CORNFOR WHEAT GRAN S	GRAN HAYGRAZEI IORGHUM & MILLE 0.38 0.0 1.66 2.1											
1.65 2.09 3.25 4.64 0.00 0.00 0.00 0.00 0.00 0.68	0.28 0.0 1.64 2.1 2.30 1.1 2.30 1.1 2.30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	5 0 0 0 0										
0.00 0.70 0.44 0.54 0.25 0.00 0.00 3.65 0.24 0.00	0.36 0.0 0.54 0.2 0.00 0.2 0.00 0.0 0.24 0.0	5										
	0.28 0.0 1.64 2.1 1.20 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.00 0.0 0.00 0.00 0.0 0.00 0.00 0.0 0.00 0.00 0.0 0.00 0.00 0.0 0.00 0.00 0.0 0.00 0.00 0.00 0.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00											
9.77 22.59 WHEAT	14.07 9.0	6 603.75 PL	AP WATER:	11.	00							
IRCHNE	POWER	OVER F	DAPLISHMENT	u custo	M 							
DSC CHSSL DSC DRLL BRIGATE (70)	185 HP 185 HP 185 HP 196 HP	1.00 1.00 1.00 1.00 1.00 7.00	0.07 0: 0.09 0: 0.07 0: 0.12 0: 0.65 7:	09 07 12 11								
COMBINE GRAN CART HRUL	GRAN TABLE 93 HP SEMI	1.00 1.00 1.00	0.14 0. 0.14 0. 0.14 0.	54 54 54								
CORNFOR GRAN	ACRES	ACCC	AP WATER:	34.	00							
DSC CHEEL DSC A SPRAY PLANTER ROLLING CLE TON SOCIETY CON SOCI	POWER UNT 185 IP 185 IP 186 IP 196 IP 196 IP	OVER F	RATE TOT	NL CUSTO 17 19	M 							
PLANTER ROLLING CULT (20) SDEDRESS IRRIGATE (160)	136 HP 136 HP 185 HP	1.00 1.00 1.00 1.00 1.00 2.00 1.00	0.07 0. 0.09 0. 0.10 0. 0.12 0. 0.10 0. 0.17 0. 0.46 21:	12 20 17 88								
COMBINE GRAN CART HRUL	CORN HEAD 93 HP SEMI	1.00 1.00 1.00	0.20 0: 0.20 0: 0.20 0:	00 00 00								
GRANSORGHAM	ACRES:	267.75 PU	AP WATER:	12:	00							
DSC CHSEL	UNIT	OVER F	2.07 0.09 A	NL CUSTO	IM 							
DISC CHEST DISC & SPRAY PLANTER ROLLING CULT. SIDEDRISES SRIGATE (IDI)	155 HP 155 HP 155 HP 156 HP 156 HP	1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.07 0.009 0.019 0.012 0.010 0.010 0.010 0.010 0.017 0.017 0.0165 7.0165	90 12 90 17								
COMBINE GRAN CART HRUL	GRAN TABLE SI HP 2 TON		0.14 0. 0.14 0. 0.14 0.	54 54 54								
HANGRAZERMELET	10000				00							
INCHIS	powep	TIMES	OMPLISHMENT	L CUSTO	ıu 							
CHSEL DISC DRILL	UNT 185 HP 185 HP 196 HP	1.00 1.00 1.00	0.09 0: 0.07 0: 0.12 0:	09								
SWATHER BALER	136 HP	1.00	0.16 0. 0.17 0.	16 17								
Harm	ANNUAL REPAR						_					
	2 2 	4 000020 0.00 000020 0.00 000020 0.00	5 			8 000 0.000 000 0.000	9					
200 0.000000 0.000 200 0.000000 0.000 400 0.000000 0.000 500 0.000000 0.000 600 0.000000 0.000	030 0.000430 0. 050 0.000390 0. 060 0.000370 0. 070 0.000360 0.	000040 0.00 000060 0.00 000080 0.00 000100 0.00	0780 0.0002 0220 0.0003 0280 0.0003 0280 0.0003	60 0.0001 10 0.0001 60 0.0001 70 0.0001 80 0.0001	90 0.000 90 0.000 50 0.000 70 0.000 90 0.000	0.000 0.000 0.000 0.000 0.000 0.000	060 400 450 630					
0 0.000000 0.000000 0.000000 0.000000 0.000000		000020 0.00 000020 0.00 000020 0.00 000020 0.00 000000 0.00 000000 0.00 000000 0.00 000000 0.00 000000 0.00 000000 0.00 0000000 0.00 000000 0.00 000000 0.00 000000 0.00 000000 0.00 0000000 0.00 0000000 0.00 0000000 0.00 0000000 0.00 0000000 0.00 00000000	0000 0.0001 0000 0.0001 0140 0.0002 0150 0.0002 0100 0.0003 0200		0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.00000		690 600 630 710 066					
1800 0.000150 0.000 1800 0.000075 0.000 2000 0.000170 0.000 2500 0.000056 2000 0.000070 2600 0.000070	190 0.000285 0. 170 0.000285 0. 265 0.000280 0.	000255 0.00 000285 0.00 000305 0.00	0465 0.0005 0485 0.0005 0606 0.0005	25 0.0001 50 0.0002 65 0.0003	35 0.001; 85 10	225 0.000	805					
0												
7000 0.000756 7500 0.000188 8000 0.000204							_					
- Stated o	n unpublished data of D. Engineering, Unive n "Agricultural Machinery Engineers Yearboo	R. Hunt, Depart mity of Binois. Date' in Agricul is, 1983.	tment of Agricultu	rai								
Codes 1 tractors 2 baiers, c	Engineers Veserbool continues, forage harves e, dales, molidocard plo- vespore, fores, cros bu- vespore, fores, cros bu- vespore, fores, cros bu- vespore, continues, fores, cros bu- vespore, continues, fores, cros pore, continues, fores, continues, c	ters, windrowers	, pickupa cultinerer			-						
3 rossy for now cutil 4 harrous bed shap 5 balwang con her	wagons, floats, roto bu- yer one, cotton pickers, cotto de, forage equipment, no pone, fame truche	ok, drag, roller, w on strippers, con trany mowers, st	ener funos, n picken nik choppen,									
teed say 6 mans, c 7 baler of 8 plomes, 9 fedilizer	destar mover engine, manure spreads dills, seeding equipme distributing equipment	r nt, mounted spra	ajen.									

TABLE 6. Wheat, sprinkler-irrigated, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Actual 2014
Planting dates: August 15 - November 15
Harvesting dates: July 1 - July 15

ITEM PRICE YIELD BASE TOTAL GROSS RETURNS WHEAT
DIRECT PAYMENT
COUNTER CYCLICAL PAYMENT
GRAZING 80.00 BUSHELS 80.00 BUSHELS \$7.00 \$560.00 \$0.00 \$0.00 \$0.00 \$0.00 \$37.50 0.85 \$37.50 1.00 ACRE TOTAL \$597.50

PURCHASED INPUTS	PRICE	QUANTIT	PURCHASED Y INPUTS				FIXED COST	TOTAL
SEED MANURE LIVESTOCK FAC & EQUIP PUMP WATER*	\$0.45 \$2.70	100 LE 8 TC 11 AC	ON \$21.60				\$5.00	\$45.00 \$21.60 \$5.00
CROP INSURANCE SUBTOTAL	\$0.08		\$66.60			•	\$5.00	\$0.08 \$71.68
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHI RATE	MENT PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC CHISEL DISC DRILL IRRIGATE (7X) SUBTOTAL	185 HP 185 HP 185 HP 126 HP	0.07 HF 0.09 HF 0.07 HF 0.12 HF 0.70 HF	२ २ २ २	\$0.60 \$0.77 \$0.60 \$1.03 \$5.25	\$2.78 \$3.57 \$2.78 \$3.79 \$30.21	\$1.26 \$0.69 \$1.26 \$0.68 \$0.00	\$1.86 \$1.84 \$1.86 \$2.37 \$3.11 \$11.05	\$6.50 \$6.88 \$6.50 \$7.87 \$38.57
COMBINE GRAIN CART HAUL SUBTOTAL	GRAIN TABLE 93 HP SEMI	0.14 HF 0.14 HF 0.14 HF	₹ ₹	\$1.20 \$1.20 \$1.20	\$4.48 \$2.17 \$2.82 \$9.47	\$0.55 \$0.13 \$0.39	\$8.93 \$0.91 \$4.23	\$15.16 \$4.41 \$8.64 \$28.21
OVERHEAD EXPENSES DOWNTIME EMPLOYEE BENEFITS INSURANCE LAND TAXES SUPERVISION AND MANAGE OTHER EXPENSES	MENT	0.19 HF	\$0.24 \$39.63	\$1.65 \$2.13 \$42.91			\$0.21	\$1.65 \$2.13 \$0.24 \$0.21 \$42.91 \$39.63
SUBTOTAL		0.19 HF	R \$39.87	\$46.69			\$0.21	\$86.76
TOTAL OPERATING EXPENSES	3	1.66 HF	R \$106.47	\$58.52	\$52.59	\$4.98	\$30.33	\$252.97
NET OPERATING PROFIT								\$344.53
INTEREST ON OPERATING C		(\$45.98	@ 5.50%)				\$2.53 \$9.77
RETURN TO LAND AND RISK								\$332.23

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

GROSS RETURN VARIABLE OPERATING EXPENSES	\$164.04	\$597.50	
RETURN OVER VARIABLE EXPENSES	\$104.04	\$433.46	(GROSS MARGIN)
FIXED EXPENSES	\$30.33		
NET FARM INCOME		\$403.13	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$58.52		
NET OPERATING PROFIT		\$344.62	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$12.30		
RETURN TO LAND AND RISK		\$332.32	

TABLE 7. Corn for grain, sprinkler-irrigated, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Actual 2014
Planting dates: April 15 - May 15
Harvesting dates: October 1 - November 15

Harvesting dates: October	1 - November 15									
ITEM	PRICE		YIEI	LD	BASE					TOTAL
GROSS RETURNS CORN FOR GRAIN	\$4.30			BUSHELS						\$860.00
DIRECT PAYMENT COUNTER CYCLICAL PAYMENT	\$0.00 \$0.00		0.00	BUSHELS	0.85					\$0.00 \$0.00
GRAZING	\$20.00		1.00	ACRE					-	\$20.00
TOTAL										\$880.00
PURCHASED INPUTS	PRICE		QUAN	TITY	PURCHASED INPUTS				FIXED COST	TOTAL
SEED NITROGEN (N)	\$3.26 \$0.50			000 LBS	\$84.83 \$110.00					\$84.83 \$110.00
PHOSPHATE (P2O5)	\$0.40			LBS	\$28.00					\$28.00
POTASSIUM (K-MAG)	\$0.12			LBS	\$34.50					\$34.50
INSECTICIDE	\$20.48			ACRE	\$61.44					\$61.44
HERBICIDE	\$28.16			ACRE	\$28.16					\$28.16
LIVESTOCK FAC & EQUIP									\$5.00	\$5.00
PUMP WATER*			34	AC. IN.						
CROP INSURANCE	\$0.28									\$0.28
SUBTOTAL					\$346.93				\$5.00	\$352.21
	POWER		ACCOMPL	ICUMENT	PURCHASED		FUEL &		FIXED	
PREHARVEST OPERATIONS	UNIT		RAT		INPUTS	LABOR	LUBE	REPAIRS	COST	TOTAL
DISC	185 HP		0.07	ΗР		\$0.60	\$2.78	\$1.26	\$1.86	\$6.50
CHISEL	185 HP		0.07			\$0.77	\$3.57	\$0.69	\$1.84	\$6.88
DISC & SPRAY	185 HP		0.09			\$0.86	\$3.97	\$1.88	\$3.13	\$9.83
PLANTER	126 HP		0.12			\$1.03	\$3.79	\$0.79	\$3.99	\$9.60
ROLLING CULT (2X)	126 HP		0.20			\$1.71	\$6.32	\$1.79	\$4.19	\$14.01
SIDEDRESS	185 HP		0.17	HR		\$1.45	\$6.74	\$0.96	\$3.13	\$12.29
IRRIGATE (16X)			1.60	HR		\$12.00	\$93.37	\$0.00	\$9.63	\$114.99
SUBTOTAL		-	2.35	HR		\$18.41	\$120.54	\$7.38	\$27.77	\$174.09
HARVEST OPERATIONS										
COMBINE	CORN HEAD		0.20	HR		\$1.71	\$6.40	\$0.93	\$21.77	\$30.81
GRAIN CART	93 HP		0.20			\$1.71	\$3.11	\$0.19	\$1.30	\$6.30
HAUL	SEMI		0.20			\$1.71	\$4.02	\$0.56	\$6.05	\$12.34
SUBTOTAL		_	0.60	HR	\$0.00	\$5.13	\$13.52	\$1.68	\$29.11	\$49.45
			0.00	1110	ψ0.00	ψ0.10	ψ10.0 <u>2</u>	ψ1.00	Ψ23.11	ψ+3.43
OVERHEAD EXPENSES										
DOWNTIME			0.30	HR		\$2.52				\$2.52
EMPLOYEE BENEFITS						\$4.24				\$4.24
INSURANCE					\$0.47					\$0.47
LAND TAXES									\$0.21	\$0.21
SUPERVISION AND MANAGEMENT					***	\$64.84				\$64.84
OTHER EXPENSES		_			\$39.63					\$39.63
SUBTOTAL		_	0.30	HR	\$40.10	\$71.60			\$0.21	\$111.91
TOTAL OPERATING EXPENSES		_	3.25	HR	\$387.03	\$95.14	\$134.06	\$9.06	\$62.09	\$687.65
NET OPERATING PROFIT										\$192.35
INTEREST ON OPERATING CAPITA INTEREST ON EQUIPMENT INVEST		(\$216.49	@	5.50%)				\$11.91 \$22.59
RETURN TO LAND AND RISK										\$157.85
* Pump water costs are shown under										
			UMMARY							
GROSS RETURN			\$880.00							

	BUDGETS	JMMARY	
GROSS RETURN		\$880.00	
VARIABLE OPERATING EXPENSES	\$530.14		
RETURN OVER VARIABLE EXPENSES		\$349.86	(GROSS MARGIN)
FIXED EXPENSES	\$62.09		
NET FARM INCOME		\$287.77	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$95.14		
NET OPERATING PROFIT		\$192.63	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$34.49		
RETURN TO LAND AND RISK		\$158.13	

TABLE 8. Grain sorghum, sprinkler-irrigated, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Actual 2014
Planting dates: May 15 - June 15
Harvesting dates: October 15 - November 15

Harvesting dates. Octor	Del 15 - November 15								
ITEM	PRICE	YIEL	D	BASE					TOTAL
GROSS RETURNS									
GRAIN SORGHUM	\$7.06	45.00	CWT						\$317.89
DIRECT PAYMENT	\$0.00	45.00		0.85					\$0.00
COUNTER CYCLICAL PAYMENT	\$0.00		CWT	0.00					\$0.00
GRAZING	\$5.00		ACRE						\$5.00
GRAZING	\$5.00	1.00	ACRE						φ5.00
TOTAL								-	\$322.89
				PURCHASED				FIXED	
PURCHASED INPUTS	PRICE	QUANT	TTY	INPUTS				COST	TOTAL
SEED	\$1.31	5	LBS	\$6.55					\$6.55
NITROGEN (N)	\$0.50		LBS	\$75.00					\$75.00
PHOSPHATE (P205)	\$0.40		LBS	\$20.00					\$20.00
HERBICIDE	\$28.16	1	ACRE	\$28.16					\$28.16
LIVESTOCK FAC & EQUIP								\$5.00	\$5.00
PUMP WATER*		12	AC. IN.						
CROP INSURANCE	\$0.19								\$0.19
SUBTOTAL				\$129.71			•	\$5.00	\$134.90
	POWER	ACCOMPLIS	SHMENT	PURCHASED		FUEL &		FIXED	
PREHARVEST OPERATIONS	UNIT	RATI		INPUTS	LABOR	LUBE	REPAIRS	COST	TOTAL
DISC	185 HP	0.07	шр		\$0.60	\$2.78	\$1.26	\$1.86	\$6.50
CHISEL	185 HP	0.09			\$0.77	\$3.57	\$0.69	\$1.84	\$6.88
DISC & SPRAY	185 HP	0.10			\$0.86	\$3.97	\$1.88	\$3.13	\$9.83
PLANTER	126 HP	0.12			\$1.03	\$3.79	\$0.79	\$3.99	\$9.60
ROLLING CULT.	126 HP	0.10			\$0.86	\$3.16	\$0.89	\$2.10	\$7.00
SIDEDRESS	185 HP	0.17	HR		\$1.45	\$6.74	\$0.96	\$3.13	\$12.29
IRRIGATE (6X)		0.60	HR		\$4.50	\$32.95	\$0.00	\$3.40	\$40.85
SUBTOTAL		1.25	HR		\$10.06	\$56.96	\$6.48	\$19.44	\$92.94
HARVEST OPERATIONS									
COMBINE	GRAIN TABLE	0.14	нр		\$1.20	\$4.48	\$0.55	\$8.93	\$15.16
GRAIN TABLE	93 HP	0.14			\$1.20	\$2.17	\$0.13	\$0.91	\$4.41
HAUL	2 TON	0.14	нк		\$1.20	\$2.25	\$0.06	\$7.76	\$11.26
SUBTOTAL		0.42	HR	\$0.00	\$3.59	\$8.90	\$0.74	\$17.60	\$30.83
OVERHEAD EXPENSES									
DOWNTIME		0.22	UD		64.00				£1.00
DOWNTIME		0.23	пк		\$1.92				\$1.92
EMPLOYEE BENEFITS					\$2.46				\$2.46
INSURANCE				\$0.27					\$0.27
LAND TAXES								\$0.21	\$0.21
SUPERVISION AND MANAGEMEN	NT.				\$23.86				\$23.86
OTHER EXPENSES				\$39.63					\$39.63
SUBTOTAL		0.23	HR	\$39.90	\$28.24			\$0.21	\$68.35
TOTAL OPERATING EXPENSES		1.90	HR	\$169.61	\$41.89	\$65.87	\$7.22	\$42.25	\$327.03
NET OPERATING PROFIT									(\$4.14)
INTEREST ON OREDATING CARD	TAI	/ 001.64	@	E E00/	\				\$4.40
INTEREST ON OPERATING CAPI INTEREST ON EQUIPMENT INVES		(\$81.61	@	5.50%)				\$4.49 \$14.07

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

RETURN TO LAND AND RISK

(\$22.69)

GROSS RETURN		\$322.89	
VARIABLE OPERATING EXPENSES	\$242.70		
RETURN OVER VARIABLE EXPENSES		\$80.19	(GROSS MARGIN)
FIXED EXPENSES	\$42.25		
NET FARM INCOME		\$37.94	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$41.89		
NET OPERATING PROFIT		(\$3.95)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$18.56		
RETURN TO LAND AND RISK		(\$22.51)	
RETORITO E TINE THE RIGH		(ΨΖΣ.Ο1)	

TABLE 9. Haygrazer/millet, dryland, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Actual 2014
Planting dates: June 1 - June 15
Harvesting dates: September 1 - September 15

Harvesting dates: September 1	- September 15								
ITEM	PRICE	YIEL	D						TOTAL
GROSS RETURNS HAY	\$210.00	1.50	TONS (S	TACKED)					\$315.00
TOTAL								-	\$315.00
PURCHASED INPUTS	PRICE	QUANT	TTY	PURCHASED INPUTS				FIXED COST	TOTAL
SEED	\$0.86	6.00	LBS	\$5.16					\$5.16
HERBICIDE	\$14.79		ACRE	\$14.79					\$14.79
BALING TWINE	\$0.72	0.13	ROLL	\$0.10					\$0.10
SUBTOTAL				\$20.05				-	\$20.05
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLIS RAT		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
	105 UD				00.77	00.57	# 0.00	04.04	
CHISEL DISC	185 HP 185 HP	0.09 0.07			\$0.77 \$0.60	\$3.57 \$2.78	\$0.69 \$1.26	\$1.84 \$1.86	\$6.88 \$6.50
DRILL	126 HP	0.12			\$1.03	\$3.79	\$0.68	\$2.37	\$7.87
SUBTOTAL		0.28	HR		\$2.39	\$10.14	\$2.64	\$6.07	\$21.25
HARVEST OPERATIONS									
SWATHER		0.16	HR		\$1.37	\$2.29	\$0.09	\$8.22	\$11.98
BALER	126 HP	0.17	HR		\$1.45	\$5.37	\$0.71	\$5.14	\$12.68
SUBTOTAL		0.33	HR	\$0.00	\$2.82	\$7.67	\$0.81	\$13.37	\$24.66
OVERHEAD EXPENSES									
DOWNTIME		0.15	HR		\$1.30				\$1.30
EMPLOYEE BENEFITS					\$0.94				\$0.94
INSURANCE				\$0.10					\$0.10
LAND TAXES					600.00			\$0.21	\$0.21
SUPERVISION AND MANAGEMENT OTHER EXPENSES				\$7.93	\$22.36				\$22.36 \$7.93
SUBTOTAL		0.15	HR	\$8.03	\$24.60			\$0.21	\$32.84
TOTAL OPERATING EXPENSES		0.43	HR	\$28.08	\$29.81	\$17.80	\$3.45	\$19.65	\$98.79
NET OPERATING PROFIT									\$216.21
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMEN	Т	(\$13.92	@	5.50%)				\$0.77 \$9.65
RETURN TO LAND AND RISK									\$205.79

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

GROSS RETURN		\$315.00	
VARIABLE OPERATING EXPENSES	\$49.33		
RETURN OVER VARIABLE EXPENSES		\$265.67	(GROSS MARGIN)
FIXED EXPENSES	\$19.65		
NET FARM INCOME		\$246.02	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$29.81		
NET OPERATING PROFIT		\$216.21	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$10.42		
RETURN TO LAND AND RISK		\$205.79	

TABLE 10. Summary of per acre costs and returns for a 1,280 acre farm with above average management, Union County, Actual 2014

	WHEAT	CORN FOR GRAIN	GRAIN SORGHUM	HAYGRAZER & MILLET
				(Dryland)
	BU	BU	CWT	TONS
PRIMAR YIELD	80.00	200.00	45.00	1.50
PRIMARY PRICE	\$7.00	\$4.30	\$7.06	\$210.00
GOVERNMENT PAYMENTS	\$0.00	\$0.00	\$0.00	\$0.00
SECOND INCOME	\$37.50	\$20.00	\$5.00	\$0.00
GROSS RETURN	\$597.50	\$880.00	\$322.89	\$315.00
CASH OPERATING EXPENSES				
SEED	\$45.00	\$84.83	\$6.55	\$5.16
FERTILIZER	\$21.60	\$172.50	\$95.00	
CHEMICALS		\$89.60	\$28.16	\$14.79
CROP INSURANCE	\$0.08	\$0.28	\$0.19	
OTHER PURCHASED INPUTS CANAL WATER				\$0.10
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$22.38	\$40.69	\$32.91	\$17.80
FUEL-IRRIGATION	\$30.21	\$93.37	\$32.95	ψ17.00
REPAIRS	\$4.98	\$9.06	\$7.22	\$3.45
CUSTOM CHARGES	,	•	•	\$0.00
LAND TAXES	\$0.21	\$0.21	\$0.21	\$0.21
OTHER EXPENSES	\$39.87	\$40.10	\$39.90	\$8.03
TOTAL CASH EXPENSES	\$164.33	\$530.63	\$243.10	\$49.54
RETURN OVER CASH EXPENSES	\$433.17	\$349.37	\$79.80	\$265.46
FIXED EXPENSES	\$30.12	\$61.88	\$42.04	\$19.44
TOTAL EXPENSES	\$194.45	\$592.51	\$285.14	\$68.98
NET FARM INCOME	\$403.05	\$287.49	\$37.75	\$246.02
LABOR AND MANAGEMENT COSTS	\$58.52	\$95.14	\$41.89	\$29.81
NET OPERATING PROFIT	\$344.53	\$192.35	(\$4.14)	\$216.21
CAPITAL COSTS				
INTEREST ON OPERATING CAPITAL	\$2.53	\$11.91	\$4.49	\$0.77
INTEREST ON EQUIPMENT INVESTMENT	\$9.77	\$22.59	\$14.07	\$9.65
TOTAL CAPITAL COSTS	\$12.30	\$34.49	\$18.56	\$10.42
	\$332.23	\$157.85		\$205.79

Flex Computation 372.12 242.32 33.41

TABLE 11. Whole farm summary, Union County, Actual 2014

Actual 2014	<u> </u>			
GROSS RETURNS				
WHEAT	604 ACRES			
CROP		\$338,100		
GRAZING		\$22,641		
DIRECT PAYMENT		\$0		
COUNTER CYCLICAL		\$0		
CORN FOR GRAIN	179 ACRES	0450 540		
CROP GRAZING		\$153,510 \$3,570		
DIRECT PAYMENT		\$3,370 \$0		
COUNTER CYCLICAL	I PAYMENT	\$0 \$0		
GRAIN SORGHUM	268 ACRES	**		
CROP		\$85,116		
GRAZING		\$1,339		
DIRECT PAYMENT		\$0		
COUNTER CYCLICAL		\$0		
HAYGRAZER/MILLET	190 ACRES			
CROP		\$59,850		
GROSS RETURN			-	\$664,125
CASH OPERATING EX	PENSES			
SEED		\$45,044		
FERTILIZER		\$69,269		
CHEMICALS		\$26,344		
CROP INSURANCE		\$150		
OTHER PURCHASE	D INPUTS	\$18		
CANAL WATER		\$0		
FUEL, OIL & LUBRIC	ANTS-EQUIPMENT	\$32,974		
FUEL-IRRIGATION		\$43,726		
REPAIRS CUSTOM CHARGES		\$7,212 \$0		
LAND TAXES	,	\$259		
OTHER EXPENSES		\$43,437		
		ψ10, 101 -		
TOTAL CAS	SH EXPENSES		\$268,433	
RETURN OVER CASH	EXPENSES			\$395,693
FIXED EXPENSES		\$44,180		
TOTAL EXF	PENSES		\$312,613	
NET FARM INCOME				\$351,513
LABOR AND MANAGEM	MENT COSTS	\$69,195		
NET OPERATING PRO	FIT			\$282,318
CAPITAL COSTS INTEREST ON OPER INTEREST ON EQUI	RATING CAPITAL IPMENT INVESTMENT	\$5,000 \$15,531		
TOTAL CAR	PITAL COSTS	-	\$20,530	
RETURN TO LAND AND) RISK		-	\$261,787

	RETURN	RETURN ON
LAND VALUE	TO RISK*	INVESTMENT**
\$500 /ACRE	\$242,587	31.31%
\$750 /ACRE	\$232,987	23.11%
\$1,000 /ACRE	\$223,387	18.31%
\$1,250 /ACRE	\$213,787	15.16%
\$1,500 /ACRE	\$204,187	12.94%

 $^{^{\}star}$ 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)