TABLE 6. Alfalfa establishment, sprinkler-irrigated, budgeted per acre costs and returns for a 480 acre farm with above average management, Lea County, Actual 2018
Planting dates: August 15 - September 1

ITEM	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
PURCHASED INPUTS								
SEED NITROGEN (N) PHOSPHATE (P205) PUMP WATER	\$2.95 \$0.42 \$0.49	30 LBS 55 LBS 140 LBS 6 AC.IN.	\$88.50 \$23.10 \$68.60					\$88.50 \$23.10 \$68.60
SUBTOTAL			\$180.20				-	\$180.20
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	\$13.13 \$7.66 \$5.20 \$1.26 \$4.53 \$9.67	\$4.95 \$2.54 \$1.02 \$0.20 \$0.90 \$0.72	\$9.91 \$5.33 \$5.29 \$0.44 \$5.14 \$5.52	\$32.09 \$17.92 \$13.13 \$2.32 \$12.11 \$18.16
SUBTOTAL		1.48 HR		\$12.34	\$41.44	\$10.33	\$31.63	\$95.73
OVERHEAD EXPENSES								
DOWNTIME EMPLOYEE BENEFITS INSURANCE SUPERVISION AND MANAGEMENT		0.30 HR	\$0.25	\$2.52 \$2.22 \$20.21				\$2.52 \$2.22 \$0.25 \$20.21
SUBTOTAL		0.30 HR	\$0.25	\$24.95				\$25.20
TOTAL OPERATING EXPENSES		1.78 HR	\$180.45	\$37.29	\$41.44	\$10.33	\$31.63	\$301.13

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

Harvest dates: May 20 - October 15

ITEM PRICE YIELD TOTAL GROSS RETURNS ALFALFA HAY \$230.00 6.00 TONS (STACKED) \$1,380.00 TOTAL \$1,380.00 **PURCHASED** FIXED PRICE TOTAL PURCHASED INPUTS QUANTITY **INPUTS** COST PHOSPHATE (P2O5) INSECTICIDE (CUSTOM) \$0.49 90 LBS \$44.10 \$14.08 \$44.10 1 ACRE \$14.08 \$14.08 \$12.80 \$12.80 HERBICIDE ACRE \$12.80 \$0.37 51 LBS \$19.10 \$19.10 ESTABLISHMENT: Principal 6 YEARS \$50.19 \$50.19 : Interest \$9.46 \$9.46 PUMP WATER* 42 AC. IN. **SUBTOTAL** \$90.08 \$59.65 \$149.73 **POWER** ACCOMPLISHMENT **PURCHASED** FUEL & **FIXED** PREHARVEST OPERATIONS UNIT **INPUTS** LABOR LUBE **REPAIRS** COST TOTAL RATE FERT SPREADER 126 HP 0.05 HR \$0.43 \$1.26 \$0.20 \$0.44 \$2.32 **IRRIGATE** 1.40 HR \$10.50 \$67.69 \$5.07 \$38.65 \$121.90 SUBTOTAL 1.45 HR \$10.93 \$68.94 \$5.27 \$39.09 \$124.23 HARVEST OPERATIONS SWATHER (5X) 16 FT SP 0.55 HR \$4.70 \$6.28 \$0.76 \$30.59 \$42.33 BALER & ACCUM (5X) FRONT END LOADER (5X) 155 HP 1.25 HR \$10.69 \$34.18 \$6.88 \$20.09 \$71.84 126 HP 1.25 HR \$31.45 \$10.69 \$8.90 \$13.19 \$64.23 SUBTOTAL 3.05 HR \$26.08 \$71.92 \$16.53 \$63.88 \$178.41 **OVERHEAD EXPENSES** DOWNTIME 0.78 HR \$6.63 \$6.63 EMPLOYEE BENEFITS \$6.66 \$6.66 INSURANCE \$0.74 \$0.74 LAND TAXES \$1.01 \$1.01 SUPERVISION AND MANAGEMENT \$99.55 \$99.55 OTHER EXPENSES \$84.70 \$84.70 \$85.44 \$112.84 \$199.28 **SUBTOTAL** 0.78 HR \$1.01 5.28 HR \$175.52 \$149.84 \$651.64 TOTAL OPERATING EXPENSES \$140.86 \$21.80 \$163.62 NET OPERATING PROFIT \$728.36 INTEREST ON OPERATING CAPITAL \$70.96 @ 5.75% \$4.08 INTEREST ON EQUIPMENT INVESTMENT \$20.62 RETURN TO LAND AND RISK \$703.66 * Pump water costs are shown under irrigation in the preharvest operations section.

BUDGET SUMMARY GROSS RETURN \$1,380.00 VARIABLE OPERATING EXPENSES \$338.18 RETURN OVER VARIABLE EXPENSES FIXED EXPENSES \$1,041.82 (GROSS MARGIN) \$163.62 NET FARM INCOME \$878.20 (RETURN TO CAPITAL, LABOR, LAND & RISK) LABOR AND MANAGEMENT COST \$149.84 NET OPERATING PROFIT \$728.36 (RETURN TO CAPITAL, LAND & RISK) CAPITAL COSTS \$24.70

\$703.66

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, Actual 2018
Planting dates: August 15 - October 30
Harvest dates: June 20 - July 5

ITEM	PRICE		YIEL	_D	BASE					TOTAL
GROSS RETURNS WHEAT DIRECT PAYMENT COUNTER CYCLICAL PAYMENT GRAZING	\$4.75 \$0.00 \$0.00 \$50.00		63.00	BUSHELS BUSHELS ACRE	0.85					\$299.25 \$0.00 \$0.00 \$50.00
TOTAL									-	\$349.25
PURCHASED INPUTS	PRICE		QUAN	TITY	PURCHASED INPUTS				FIXED COST	TOTAL
SEED PHOSPHATE (P205) ANHYDROUS AMMONIA (NH3)	0.37 0.49 0.15		70 200	LBS LBS	\$33.30 \$34.30 \$30.00					\$33.30 \$34.30 \$30.00
PUMP WATER* CROP INSURANCE SUBTOTAL	0.47		20	ACRE IN.	\$0.47 \$98.07				-	\$0.47 \$98.07
PREHARVEST OPERATIONS	POWER UNIT		ACCOMPLI RAT		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
0.110=1							<u> </u>	<u> </u>		
CHISEL DISC	155 HP 155 HP		0.15 0.14			\$1.28 \$1.20	\$4.10 \$3.83	\$1.05 \$1.27	\$3.84 \$2.67	\$10.27 \$8.96
ANNHYDROUS APPL	155 HP		0.14			\$1.20 \$1.45	\$4.65	\$1.27 \$1.03	\$4.31	\$11.44
FERT SPREADER	126 HP		0.05			\$0.43	\$1.26	\$0.20	\$0.44	\$2.32
DISC	155 HP		0.14	HR		\$1.20	\$3.83	\$1.27	\$2.67	\$8.96
DRILL	126 HP		0.18			\$1.54	\$4.53	\$0.90	\$5.14	\$12.11
IRRIGATE (12X)			1.20	HR		\$9.00	\$32.23	\$2.41	\$18.41	\$62.05
SUBTOTAL		-	2.03	HR		\$16.10	\$54.43	\$8.13	\$37.46	\$116.12
HARVEST OPERATIONS										
COMBINE (CUSTOM) HAUL (CUSTOM)					\$15.52 \$10.08					\$15.52 \$10.08
SUBTOTAL		-			\$25.60					\$25.60
OVERHEAD EXPENSES										
DOWNTIME EMPLOYEE BENEFITS INSURANCE LAND TAXES SUPERVISION AND MANAGEMENT			0.21	HR	\$0.32	\$1.77 \$2.90 \$26.06			\$1.01	\$1.77 \$2.90 \$0.32 \$1.01 \$26.06
OTHER EXPENSES		_			\$84.70					\$84.70
SUBTOTAL		_	0.21	HR	\$85.02	\$30.73			\$1.01	\$116.76
TOTAL OPERATING EXPENSES			2.24	HR	\$208.69	\$46.83	\$54.43	\$8.13	\$38.47	\$356.55
NET OPERATING PROFIT										(\$7.30)
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTME	NT	(\$66.81	@	5.75%)				\$3.84 \$5.69
RETURN TO LAND AND RISK										(\$16.83)
* Pump water costs are shown under irriga			tions section. SUMMARY							
GROSS RETURN			\$349.25							
VARIABLE OPERATING EXPENSES	\$27	1.25	Ψ0 10. <u>Σ</u> 0							
RETURN OVER VARIABLE EXPENSES			\$78.00	(GROSS	MARGIN)					
FIXED EXPENSES	\$3	88.47		/n==-···	. = 0 0 . = := : :					
NET FARM INCOME LABOR AND MANAGEMENT COST	.\$4	6.83	\$39.53	(RETURI	N TO CAPITAL, LA	BOR, LAND	& RISK)			
NET OPERATING PROFIT CAPITAL COSTS		9.54	(\$7.30)	(RETURN	N TO CAPITAL, LA	ND & RISK)				
RETURN TO LAND AND RISK	Ψ		(\$16.83)							

TABLE 9. Upland cotton (stripper), sprinkler-irrigated, budgeted per acre costs and returns for a 480 acre farm with above average management, Lea County, Actual 2018

Planting dates: May 1 - May 25

Harvest dates:	November	1 -	December 15

Harvest dates: November 1 - De	ecember 15								
ITEM	PRICE	YIELI	D	BASE					TOTAL
GROSS RETURNS LINT SEED DIRECT PAYMENT COUNTER CYCLICAL PAYMENT	\$0.67 \$0.08 \$0.0000 \$0.1373	773.00 1,236.80 773.00 675.00	LBS LBS	0.85 0.85					\$517.91 \$103.89 \$0.00 \$78.78
TOTAL								-	\$700.58
DUDOUA CED INDUTO	PRICE	OLIANIT	TTV	PURCHASED INPUTS				FIXED COST	TOTAL
PURCHASED INPUTS	PRICE	QUANT	11 1	INFUIS				0031	TOTAL
SEED NITROGEN (N) PHOSPHATE (P205) INSECTICIDE HERBICIDE INSECTICIDE (CUSTOM) CROP INSURANCE PUMP WATER*	\$8.45 \$0.42 \$0.49 \$11.20 \$8.00 \$11.07	32 40 1 1	LBS LBS LBS X/ACRE X/ACRE X/ACRE ACRE IN.	\$169.00 \$13.44 \$19.60 \$11.20 \$8.00 \$11.07 \$0.35					\$169.00 \$13.44 \$19.60 \$11.20 \$8.00 \$11.07 \$0.35
SUBTOTAL				\$232.66				-	\$232.66
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLIS RATI		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PLOW DISC FERT SPREADER DISC PRE-IRRIGATE PLANTER CULTIVATOR (3X) HOE (CUSTOM 2X) IRRIGATE (7X)	155 HP 155 HP 126 HP 155 HP 155 HP 126 HP	0.48 0.14 0.05 0.14 0.10 0.17 0.39	HR HR HR HR HR HR	\$20.00	\$4.10 \$1.20 \$0.43 \$1.20 \$0.75 \$1.45 \$3.33	\$13.13 \$3.83 \$1.26 \$3.83 \$4.03 \$4.65 \$9.81	\$4.95 \$1.27 \$0.20 \$1.27 \$0.30 \$1.26 \$2.99	\$9.91 \$2.67 \$0.44 \$2.67 \$2.30 \$8.51 \$6.42 \$16.10	\$32.09 \$8.96 \$2.32 \$8.96 \$7.38 \$15.87 \$22.57 \$20.00 \$51.67
SUBTOTAL		2.17		\$20.00	\$17.71	\$68.73	\$14.35	\$49.02	\$169.82
SOBTOTAL		2.17	TIIX	\$20.00	φ17.71	φυσ.73	\$14.33	ψ 4 9.02	\$109.02
HARVEST OPERATIONS COTTON STRIPPER MODULE BUILDER GIN COTTON (CUSTOM)	126 HP 155 HP	0.62 0.62		\$145.48	\$5.30 \$5.30	\$15.60 \$16.96	\$3.03 \$7.93	\$11.20 \$16.31	\$35.12 \$46.50 \$145.48
SUBTOTAL		1.24	HR	\$145.48	\$10.60	\$32.55	\$10.95	\$27.51	\$227.10
POSTHARVEST OPERATIONS									
SHREDDER	155 HP	0.14	HR		\$1.20	\$3.83	\$0.80	\$4.38	\$10.21
OVERHEAD EXPENSES									
DOWNTIME EMPLOYEE BENEFITS INSURANCE LAND TAXES SUPERVISION AND MANAGEMENT OTHER EXPENSES		0.68	HR	\$0.59 \$84.70	\$5.77 \$5.31 \$51.19			\$1.01	\$5.77 \$5.31 \$0.59 \$1.01 \$51.19 \$84.70
SUBTOTAL		0.68	HR	\$85.29	\$62.27			\$1.01	\$148.57
TOTAL OPERATING EXPENSES		4.23		\$483.43	\$91.79	\$105.12	\$26.11	\$81.92	\$788.35
NET OPERATING PROFIT									(\$87.78)
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT	Г	(\$154.01	@	5.75%)				\$8.86 \$15.42
RETURN TO LAND AND RISK									(\$112.05)
* Pump water costs are shown under irrigation		est operations section. UDGET SUMMARY							
CDOCC DETUDN		\$700.59							

GROSS RETURN VARIABLE OPERATING EXPENSES	\$614.65	\$700.58	
RETURN OVER VARIABLE EXPENSES	• • • • • • • • • • • • • • • • • • • •	\$85.93	(GROSS MARGIN)
FIXED EXPENSES NET FARM INCOME	\$81.92	\$4.01	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$91.79	(007.70)	, , , , , , , , , , , , , , , , , , , ,
NET OPERATING PROFIT CAPITAL COSTS	\$24.28	(\$87.78)	(RETURN TO CAPITAL, LAND & RISK)
RETURN TO LAND AND RISK		(\$112.05)	

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

Actual 2018				
	ALFALFA ESTABLISHMENT	ALFALFA HAY	WHEAT	STRIPPER COTTON
		TONS	BU	LBS
PRIMARY YIELD		6.00	63.00	773.00
PRIMARY PRICE		\$230.00	\$4.75	\$0.67
GOVERNMENT PAYMENTS		\$0.00	\$0.00	\$78.78
SECOND INCOME		\$0.00	\$50.00	\$103.89
GROSS RETURN		\$1,380.00	\$349.25	\$700.58
CASH OPERATING EXPENSES				
SEED	\$88.50		\$33.30	\$169.00
FERTILIZER	\$91.70	\$44.10	\$64.30	\$33.04
CHEMICALS		\$26.88		\$30.27
CROP INSURANCE			\$0.47	\$0.35
OTHER PURCHASED INPUTS		\$19.10		
CANAL WATER				
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$31.77	\$73.17	\$22.20	\$72.89
FUEL-IRRIGATION	\$9.67	\$67.69	\$32.23	\$32.23
REPAIRS	\$10.33	\$21.80	\$8.13	\$26.11
CUSTOM CHARGES		# 4.04	\$25.60	\$165.48
LAND TAXES	#0.05	\$1.01	\$1.01	\$1.01
OTHER EXPENSES	\$0.25	\$85.44	\$85.02	\$85.29
TOTAL CASH EXPENSES	\$232.21	\$339.18	\$272.25	\$615.66
RETURN OVER CASH EXPENSES	(\$232.21)	\$1,040.82	\$77.00	\$84.92
FIXED EXPENSES	\$31.63	\$162.61	\$37.46	\$80.91
TOTAL EXPENSES	\$263.84	\$501.80	\$309.72	\$696.57
RETURNS TO CAPITAL, LABOR, LAND & RISK	(\$263.84)	\$878.20	\$39.53	\$4.01
LABOR AND MANAGEMENT COSTS	\$37.29	\$149.84	\$46.83	\$91.79
RETURNS TO CAPITAL, LAND & RISK	(\$301.13)	\$728.36	(\$7.30)	(\$87.78)
CAPITAL COSTS				
INTEREST ON OPERATING CAPITAL		\$4.08	\$3.84	\$8.86
INTEREST ON EQUIPMENT INVESTMENT		\$20.62	\$5.69	\$15.42
TOTAL CAPITAL COSTS	\$0.00	\$24.70	\$9.54	\$24.28
RETURN TO LAND AND RISK	(\$301.13)	\$703.66	(\$16.83)	(\$112.05)

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

Actual 20	18			
GROSS RETURNS				
ALFALFA HAY	125.00 ACRES	¢470.500		
CROP WHEAT	106.25 ACRES	\$172,500		
CROP	100.23 AGREG	\$31,795		
GRAZING		\$5,313		
DIRECT PAYMENT		\$0		
COUNTER CYCLICA		\$0		
COTTON LINT	143.75 ACRES	\$74.450		
SEED		\$74,450 \$14,934		
DIRECT PAYMENT		\$0		
COUNTER CYCLICA	AL PAYMENT	\$11,324		
GROSS RETURN				\$310,316
				ψυ.υ,υ.υ
CASH OPERATING EX	(PENSES			
SEED		\$29,690		
FERTILIZER CHEMICALS		\$19,020 \$7,712		
CROP INSURANCE	:	\$100		
OTHER PURCHASE		\$2,388		
CANAL WATER		\$0		
FUEL, OIL & LUBRI	CANTS-EQUIPMENT	\$22,650		
FUEL-IRRIGATION		\$16,721		
REPAIRS		\$7,559		
CUSTOM CHARGE	S	\$26,508		
LAND TAXES OTHER EXPENSES		\$377 \$31,978		
		ψ51,970	¢4.04.700	
	ASH EXPENSES		\$164,702	
RETURN OVER CASH	EXPENSES			\$145,614
FIXED EXPENSES		\$30,328		
TOTAL E	XPENSES		\$195,031	
NET FARM INCOME				\$115,285
LABOR AND MANAGE	MENT COSTS	\$37,683		
NET OPERATING PRO	DFIT			\$77,602
CAPITAL COSTS				
INTEREST ON OPE	RATING CAPITAL	\$2,191		
INTEREST ON EQU	JIPMENT INVESTMENT	\$5,399		
TOTAL C	APITAL COSTS	-	\$7,590	
RETURN TO LAND AN	ID RISK			\$70,012
			· ·	·

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$500 /ACRE	\$62,812	16.77%
\$700 /ACRE	\$59,932	13.89%
\$900 /ACRE	\$57,052	11.85%
\$1,100 /ACRE	\$54,172	10.34%
\$1,300 /ACRE	\$51,292	9.16%
\$1,500 /ACRE	\$48,412	8.23%

^{*} 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)