TABLE 5. Alfalfa establishment, dryland, budgeted per acre costs and returns for an 800 acre farm with above average management, San Jon-Nara Visa area, Quay County, Actual 2018

ITEM	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
PURCHASED INPUTS								
ALFALFA SEED WHEAT SEED	\$2.95 \$0.37	10 LBS 30 LBS	\$29.50 \$11.10					\$29.50 \$11.10
SUBTOTAL			\$40.60				_	\$40.60
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
SWEEP RODWEEDER DRILL WHEAT FLY ON ALFALFA SEED	145 HP 96 HP 96 HP	0.10 HR 0.08 HR 0.09 HR	\$4.50	\$0.86 \$0.68 \$0.77	\$2.73 \$1.49 \$1.67	\$0.84 \$0.13 \$0.17	\$3.79 \$0.25 \$1.50	\$8.23 \$2.55 \$4.12 \$4.50
SUBTOTAL		0.27 HR	\$4.50	\$2.31	\$5.89	\$1.15	\$5.54	\$19.40
OVERHEAD EXPENSES  DOWNTIME EMPLOYEE BENEFITS INSURANCE SUPERVISION AND MANAGEMENT		0.07 HR	\$0.05	\$0.58 \$0.42 \$4.54				\$0.58 \$0.42 \$0.05 \$4.54
SUBTOTAL		0.07 HR	\$0.05	\$5.53				\$5.58
TOTAL OPERATING EXPENSES		0.34 HR	\$45.15	\$7.84	\$5.89	\$1.15	\$5.54	\$65.57

TABLE 6. Alfalfa hay, dryland, budgeted per acre costs and returns for an 800 acre farm with above average management, San Jon-Nara Visa area, Quay County, Actual 2018

Actual 2018 Harvesting dates: June 19	5 - October 1									
ITEM	PRICE		YIEL	D						TOTAL
GROSS RETURNS ALFALF/ FA HAY GRAZING	\$220.00 \$12.00			TONS (	IN FIELD)					\$330.00 \$12.00
TOTAL									-	\$342.00
PURCHASED INPUTS	PRICE		QUANT	TTY	PURCHASED INPUTS				FIXED COST	TOTAL
WIRE ESTABLISHMENT: Principal : Interest	\$2.60			LBS YEARS	\$33.42				\$10.93 \$2.11	\$33.42 \$10.93 \$2.11
SUBTOTAL					\$33.42				\$13.04	\$46.46
HARVEST OPERATIONS	POWER UNIT		ACCOMPLIS RATI		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
SWATHER (3X) BALER (3X)	14 FT SP 96 HP		0.48 0.63			\$4.10 \$5.39	\$5.48 \$11.70	\$0.26 \$0.64	\$25.47 \$4.10	\$35.32 \$21.83
SUBTOTAL			1.11	HR		\$9.49	\$17.18	\$0.91	\$29.57	\$57.15
OVERHEAD EXPENSES										
DOWNTIME EMPLOYEE BENEFITS INSURANCE LAND TAXES SUPERVISION AND MANAGEMENT OTHER EXPENSES			0.28	HR	\$0.19 \$40.07	\$2.37 \$1.71 \$25.05			\$0.42	\$2.37 \$1.71 \$0.19 \$0.42 \$25.05 \$40.07
SUBTOTAL			0.28	HR	\$40.26	\$29.13			\$0.42	\$69.82
TOTAL OPERATING EXPENSES			1.39	HR	\$73.69	\$38.62	\$17.18	\$0.91	\$43.03	\$173.43
NET OPERATING PROFIT										\$168.57
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTI		(	\$18.22	@	5.75%	)				\$1.05 \$17.76
RETURN TO LAND AND RISK										\$149.77
		BUDGET	SUMMARY							
GROSS RETURN VARIABLE OPERATING EXPENSES RETURN OVER VARIABLE EXPENSES		\$91.77	\$342.00 \$250.23	(GRO	SS MARGIN)					
FIXED EXPENSES NET FARM INCOME LABOR AND MANAGEMENT COST		\$43.03 \$38.62	\$207.19	(RETU	URN TO CAPITAL	., LABOR, LA	ND & RISK)			
NET OPERATING PROFIT CAPITAL COSTS		\$18.80	\$168.57	(RETU	URN TO CAPITAL	., LAND & RIS	SK)			
RETURN TO LAND AND RISK			\$149.77							

TABLE 7. Grain sorghum, dryland, budgeted per acre costs and returns for an 800 acre farm with above average management, San Jon-Nara Visa area, Quay County, Actual 2018
Planting dates: June 1 - July 4

ITEM	vember 15		VIELD	`	DAGE					TOT:
	PRICE		YIELD	,	BASE					TOTA
GROSS RETURNS GRAIN SORGHUM	\$6.65		16.00	CWT						\$106.40
DIRECT PAYMENT	\$0.00		16.00		0.85					\$0.00
COUNTER CYCLICAL PAYMENT	\$0.00		0.00	CWT						\$0.00
GRAZING	\$5.00		1.00	ACRE						\$5.00
TOTAL									-	\$111.40
DUDOUAGED INDUTO	PDIOE		0	<b>-</b>	PURCHASED				FIXED	TOT4
PURCHASED INPUTS	PRICE		QUANTI	TY	INPUTS				COST	TOTA
SEED	\$2.25			LBS	\$5.63					\$5.63
HERBICIDE (CUSTOM)	\$15.07		1 .	ACRE	\$15.07					\$15.07
CROP INSURANCE	\$0.13				\$0.13				_	\$0.13
SUBTOTAL					\$20.82					\$20.82
PREHARVEST OPERATIONS	POWER UNIT		ACCOMPLISI RATE		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTA
SWEEP	145 HP		0.10			\$0.86	\$2.73	\$0.84	\$3.79	\$8.23
ROD WEED LISTER/PLANTER	96 HP 96 HP		0.08 0.18			\$0.68 \$1.54	\$1.49 \$3.34	\$0.13 \$0.46	\$0.25 \$2.17	\$2.55 \$7.51
CULTIVATOR (2X)	96 HP		0.18			\$1.54 \$2.22	\$3.34 \$4.83	\$0.46	\$1.27	\$7.5 \$9.20
COLITIVATOR (2X)	90 HF					· ·		****		
SUBTOTAL			0.62	HR		\$5.30	\$12.39	\$2.31	\$7.48	\$27.49
HARVEST OPERATIONS										
COMBINE	22 FT		0.14	HR		\$1.20	\$3.57	\$0.36	\$11.78	\$16.90
HAUL	2 TON		0.14			\$1.20	\$2.71	\$0.90	\$6.56	\$11.37
SUBTOTAL		•	0.28	HR		\$2.39	\$6.28	\$1.26	\$18.34	\$28.28
OVERHEAD EXPENSES										
DOWNTIME			0.23	HR		\$1.92				\$1.92
EMPLOYEE BENEFITS			0.20			\$1.73				\$1.73
INSURANCE					\$0.15	*				\$0.15
LAND TAXES					**				\$0.42	\$0.42
SUPERVISION AND MANAGEMENT						\$8.70				\$8.70
OTHER EXPENSES					\$40.07					\$40.07
SUBTOTAL		•	0.23	HR	\$40.23	\$12.35			\$0.42	\$53.00
TOTAL OPERATING EXPENSES		•	1.35	HR	\$45.85	\$20.05	\$18.67	\$3.57	\$26.25	\$114.39
NET OPERATING PROFIT										(\$2.99
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT		(	\$14.71	@	5.75%	)				\$0.85 \$9.88
RETURN TO LAND AND RISK										(\$13.72
		BUDGET	SUMMARY							
GROSS RETURN			\$111.40							
VARIABLE OPERATING EXPENSES		\$68.10	¥							
RETURN OVER VARIABLE EXPENSES			\$43.30	(GROS	S MARGIN)					
FIXED EXPENSES		\$26.25								
NET FARM INCOME		#00.0F	\$17.05	(RETU	RN TO CAPITAL, L	ABOR, LAND	& RISK)			
LABOR AND MANAGEMENT COST NET OPERATING PROFIT		\$20.05	(\$2.99)	(DETI	RN TO CAPITAL, L	VVID 8 DIGIN				
CAPITAL COSTS		\$10.73	(\$e.39)	(KEIU	NIN TO CAPITAL, L	רואט מ הוטה)				
RETURN TO LAND AND RISK		ψ10.70	(\$13.72)							

TABLE 8. Wheat, dryland, budgeted per acre costs and returns for an 800 acre farm with above average management, San Jon-Nara Visa area, Quay County, Actual 2018
Planting dates: September 1 - September 15

ITEM	PRICE		YIEL	.D	BASE					TOTAL
GROSS RETURNS WHEAT DIRECT PAYMENT COUNTER CYCLICAL PAYMENT GRAZING	\$4.75 \$0.00 \$0.00 \$2.00		29.00	BUSHELS BUSHELS ACRE						\$137.75 \$0.00 \$0.00 \$2.00
TOTAL									-	\$139.75
PURCHASED INPUTS	PRICE		QUAN	ΓΙΤΥ	PURCHASED INPUTS				FIXED COST	TOTAL
SEED CROP INSURANCE SUBTOTAL	\$0.37 \$0.15		25	LBS	\$9.25 \$0.15 \$9.40				-	\$9.25 \$0.15 \$9.40
PREHARVEST OPERATIONS	POWER UNIT		ACCOMPLI:		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
SWEEP (2X) RODWEED DRILL	145 HP 145 HP 96 HP		0.26 0.16 0.09	HR		\$2.22 \$1.37 \$0.77	\$7.11 \$4.38 \$1.67	\$2.20 \$0.98 \$0.17	\$9.86 \$5.78 \$1.50	\$21.39 \$12.51 \$4.12
SUBTOTAL		-	0.51	HR		\$4.36	\$13.16	\$3.35	\$17.14	\$38.01
HARVEST OPERATIONS										
COMBINE HAUL	22 FT 2 TON		0.14 0.14			\$1.20 \$1.20	\$3.57 \$2.71	\$0.36 \$0.90	\$12.49 \$6.56	\$17.61 \$11.37
SUBTOTAL		-	0.28	HR		\$2.39	\$6.28	\$1.26	\$19.06	\$28.99
OVERHEAD EXPENSES										
DOWNTIME EMPLOYEE BENEFITS INSURANCE LAND TAXES SUPERVISION AND MANAGEMENT OTHER EXPENSES			0.20	HR	\$0.14 \$40.07	\$0.74 \$1.01 \$6.99			\$0.42	\$0.74 \$1.01 \$0.14 \$0.42 \$6.99 \$40.07
SUBTOTAL		-	0.20	HR	\$40.21	\$8.74			\$0.42	\$49.37
TOTAL OPERATING EXPENSES		-	0.99	HR	\$49.46	\$15.49	\$19.44	\$4.61	\$36.62	\$125.62
NET OPERATING PROFIT										\$14.13
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT		(	\$9.45	@	5.75%	)				\$0.54 \$13.48
RETURN TO LAND AND RISK										\$0.11
		BUDGET S	SUMMARY							
GROSS RETURN VARIABLE OPERATING EXPENSES RETURN OVER VARIABLE EXPENSES FIXED EXPENSES NET EARM INCOME		\$73.50 \$36.62	\$139.75 \$66.25	•	S MARGIN)	ADOD I ANI	O & BICK)			
NET FARM INCOME LABOR AND MANAGEMENT COST NET OPERATING PROFIT CAPITAL COSTS RETURN TO LAND AND RISK		\$15.49 \$14.02	\$29.63 \$14.13 \$0.11		RN TO CAPITAL, L					

TABLE 9. Summary of per acre costs and returns for an 800 acre farm, San Jon-Nara Visa area, Quay County, Actual 2018

Actual 2018				
	ALFALFA	ALFALFA	GRAIN	WHEAT
	ESTABLISHMENT	HAY	SORGHUM	WHEAT
		TONS	CWT	BU
PRIMARY YIELD		1.50	16.00	29.00
PRIMARY PRICE		\$220.00	\$6.65	\$4.75
GOVERNMENT PAYMENTS		\$0.00	\$0.00	\$0.00
SECOND INCOME		\$12.00	\$5.00	\$2.00
CEGGIAE II AGGIAE		Ψ12.00	φο.σσ	Ψ2.00
GROSS RETURN		\$342.00	\$111.40	\$139.75
CASH OPERATING EXPENSES				
SEED	\$29.50		\$5.63	\$9.25
FERTILIZER	\$11.10			
CHEMICALS				
CROP INSURANCE			\$0.13	\$0.15
OTHER PURCHASED INPUTS	\$0.05	\$33.61	\$0.15	\$0.14
CANAL WATER				
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$5.89	\$17.18	\$18.67	\$19.44
FUEL-IRRIGATION	·			·
REPAIRS	\$1.15	\$0.91	\$3.57	\$4.61
CUSTOM CHARGES	\$4.50	\$0.00	*	•
LAND TAXES	•	\$0.42	\$0.42	\$0.42
OTHER EXPENSES		\$40.07	\$40.07	\$40.07
TOTAL CASH EXPENSES	\$52.19	\$92.20	\$68.64	\$74.07
RETURN OVER CASH EXPENSES	(\$52.19)	\$249.80	\$42.76	\$65.68
FIXED EXPENSES	\$5.54	\$42.61	\$25.83	\$36.20
TOTAL EXPENSES	\$57.73	\$134.81	\$94.47	\$110.27
NET FARM INCOME	(\$57.73)	\$207.19	\$16.93	\$29.48
LABOR AND MANAGEMENT COSTS	\$7.84	\$38.62	\$20.05	\$15.49
NET OPERATING PROFIT	(\$65.57)	\$168.57	(\$3.12)	\$13.99
CAPITAL COSTS INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT		\$1.05 \$17.76	\$0.85 \$9.88	\$0.54 \$13.48
TOTAL CAPITAL COSTS	\$0.00	\$18.80	\$10.73	\$14.02
RETURN TO LAND AND RISK	(\$65.57)	\$149.77	(\$13.85)	(\$0.04)

TABLE 10. Whole farm summary, San Jon-Nara Visa area, Quay County, Actual 2018

Actual 2018			
GROSS RETURNS	60.00 ACRES		
ALFALFA HAY CROP	60.00 ACRES	\$19,800	
GRAZING		\$720	
<b>GRAIN SORGHUM</b>	400.00 ACRES	• •	
CROP		\$42,560	
GRAZING		\$2,000	
DIRECT PAYMENT	0.40.00 4.0050	\$0	
WHEAT CROP	340.00 ACRES	¢46.925	
GRAZING		\$46,835 \$680	
DIRECT PAYMENT		\$0	
COUNTER CYCLICAL I	PAYMENT	\$0	
GROSS RETURN			\$112,595
CASH OPERATING EXP	ENSES	<b>\$5.570</b>	
SEED FERTILIZER		\$5,572 \$67	
CHEMICALS		\$07 \$0	
CROP INSURANCE		\$100	
OTHER PURCHASED	INPUTS	\$2,125	
CANAL WATER		\$0	
FUEL, OIL & LUBRICA	ANTS-EQUIPMENT	\$15,143	
FUEL-IRRIGATION		\$0	
REPAIRS		\$3,058	
CUSTOM CHARGES LAND TAXES		\$27	
OTHER EXPENSES		\$339 \$32,058	
		· · ·	
TOTAL CAS	SH EXPENSES	\$5	58,488
RETURN OVER CASH EX	XPENSES		\$54,107
FIXED EXPENSES		\$24,571	
TOTAL EXP	PENSES	\$8	33,059
NET FARM INCOME			\$29,536
NET FARM INCOME			φ29,330
LABOR AND MANAGEMI	ENT COSTS	\$15,651	
NET OPERATING PROFI	Т		\$13,884
CAPITAL COSTS			
INTEREST ON OPERA	ATING CAPITAL	\$586	
INTEREST ON EQUIP	MENT INVESTMENT	\$9,602	
TOTAL CAP	PITAL COSTS	\$1	10,188
RETURN TO LAND AND	RISK		\$3,696

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$150 /ACRE	\$96	5.44%
\$300 /ACRE	(\$3,504)	3.70%
\$450 /ACRE	(\$7,104)	2.80%
\$600 /ACRE	(\$10,704)	2.26%
\$750 /ACRE	(\$14,304)	1.89%
\$900 /ACRE	(\$17,904)	1.62%

<sup>\*</sup> 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)