TABLE 5. Alfalfa establishment,flood-irrigated,budgeted per acre costs and returns for a 100 acre farm with above average management, Valencia and Southern Bernalillo Counties, Projected 2016

Planting dates: August 15 - 5	September 15							
ITEM	PRICE	QUANTITY	PURCHASED INPUTS					ΤΟΤΑ
PURCHASED INPUTS								
SEED	\$6.00	20 LBS	\$120,00					\$120.00
PHOSPHATE (P2O5)	\$0.61	90 LBS	\$54,90					\$54,90
NITROGEN (N)	\$0.48	35 LBS	\$16.80					\$16.80
CANAL WATER		12 AC. IN,						
SUBTOTAL			\$191.70				-	\$191.70
	POWER	ACCOMPLICATION	PURCHASED		FUEL &		FIXED	
PREHARVEST OPERATIONS	UNIT	ACCOMPLISHMENT RATE	INPUTS	LABOR	LUBE	REPAIRS	COST	TOTA
DISC	96 HP	0.17 HR		\$1,28	\$2.48	\$0.63	\$6,88	\$11.27
PLOW	96 HP	0.67 HR		\$5.03	\$9.79	\$3.42	\$24.93	\$43.16
DISC	96 HP	0.17 HR		\$1.28	\$2.48	\$0.63	\$6.88	\$11.27
LASER PLANE (CUSTOM)			\$70.71					\$70.71
BORDER DISC	50 HP	0.05 HR		\$0.38	\$0.45	\$0.10	\$5.54	\$6.46
DRILL	50 HP	0.25 HR		\$1.88	\$2.24	\$0.49	\$14,99	\$19.60
IRRIGATE (2X)		1.00 HR		\$7.50				\$7.50
SUBTOTAL		2.31 HR	\$70.71	\$17.33	\$17.45	\$5.27	\$59.22	\$169.98
OVERHEAD EXPENSES								
DOWNTIME		0.33 HR		\$2.46				\$2.46
EMPLOYEE BENEFITS				\$3.12				\$3.12
INSURANCE			\$0.35					\$0.35
SUPERVISION AND MANAGEMENT				\$26,97				\$26.97

0.33 HR

2.64 HR

SUBTOTAL

TOTAL OPERATING EXPENSES

\$0.35

\$32,55

\$262.76 \$49.87 \$17.45 \$5.27 \$59.22 \$394.58

\$32.89

TABLE 6. Alfalfa establishment, flood-irrigated, budgeted per acre costs and returns for a 100 acre farm with above average management, Valencia and Southern Bernalillo Counties, Projected 2016 Harvesting dates: June 1 - October 15

Harvesting dates: June 1 - Octobe	ər 15			_						_
ITEM	PRICE		YIEL	c						ΤΟΤΑ
GROSS RETURNS										
ALFALFA HAY	\$195.00		5.00	TONS (	STACKED)					\$975.00
GRAZING	\$10.00		1.00	ACRE						\$10.00
TOTAL										800F 00
TOTAL										\$985.00
					BUBBUBBEB					
	BRICE		0	The second se	PURCHASED				FIXED	TOTA
PURCHASED INPUTS	PRICE		QUANT	IIY	INPUTS	_	_		COST	ΤΟΤΑ
PHOSPHATE (P2O5)	\$0.61		90	LBS	\$54.90					\$54.90
INSECTICIDE (CUSTOM)	\$21,71		1	XACRE	\$21,71					\$21.71
WIRE	\$0.36		43	LBS	\$15.39					\$15,39
ESTABLISHMENT: Principal			6	YEARS					\$65.76	\$65.76
: Interest									\$11.24	\$11.24
CANAL WATER			44	AC. IN.	\$28.00					\$28.00
SUBTOTAL					\$120,00				\$77.00	\$197.00
	POWER				PURCHASED		FUEL &		FIXED	
PREHARVEST OPERATIONS	UNIT		RATE	E	INPUTS	LABOR	LUBE	REPAIRS	COST	ΤΟΤΑ
IRRIGATE (8X)			4.00	HR		\$30.00				\$30.00
						,				
HARVEST OPERATIONS										
SWATHER (4X)	14 FT.		0.64	НР		\$4.80	\$6.11	\$0.37	\$20.45	\$31.73
BALER, PTO (4X)	50 HP		0.84			\$6.30	\$7.54	\$1.04	\$15.98	\$30.86
BALE WAGON (CUSTOM) (2X)			0.04	1.0.2	\$23,40		01.04		410.00	\$23.40
SUBTOTAL			1,48	HR	\$23,40	\$11,10	\$13.65	\$1,41	\$36,43	\$85,99
OVERHEAD EXPENSES										
DOWNTIME			0.37	HR		\$2.78				\$2.78
EMPLOYEE BENEFITS						\$7.40				\$7.40
INSURANCE					\$0.82					\$0.82
LAND TAXES									\$5.18	\$5.18
SUPERVISION AND MANAGEMENT						\$73,69				\$73.69
OTHER EXPENSES					\$217,62					\$217.62
SUBTOTAL			0.37	HR	\$218.45	\$83.86			\$5.18	\$307.49
TOTAL OPERATING EXPENSES			5.85	HR	\$361.85	\$124.96	\$13.65	\$1.41	\$118.61	\$620.48
NET OPERATING PROFIT										\$364.52
INTEREST ON OPERATING CAPITAL			\$63.21	0	5.50%	)				\$3.48
INTEREST ON EQUIPMENT INVESTMENT										\$18,10
RETURN TO LAND AND RISK										\$342.94
		BUDGET	SUMMARY							
GROSS RETURN			\$985.00							
		\$376.90	E600 40	(000						
RETURN OVER VARIABLE EXPENSES FIXED EXPENSES		\$118.01	\$608,10	(GRO	SS MARGIN)					
		8404 55	\$489.48	(RET	JRN TO CAPITAL	LABOR, LA	ND & RISK)			
LABOR AND MANAGEMENT COST NET OPERATING PROFIT		\$124.96	\$364,52	(RET	JRN TO CAPITAL	LAND & RIS	SK)			
CAPITAL COSTS		\$21.57				2				
RETURN TO LAND AND RISK			\$342.94						2	

TABLE 7. Alfalfa establishment, flood-irrigated, budgeted per acre costs and returns for a 100 acre farm with above average management, Valencia and Southern Bernalillo Counties, Projected 2016 Planting dates: March 1 - May 1

ITEM	PRICE		YIE	LD						TOTA
GROSS RETURNS SMALL GRAIN HAY	\$165.00		2.50	TONS (S	TACKED)					\$412.50
TOTAL										\$412.50
PURCHASED INPUTS	PRICE		QUAN	TITY	PURCHASED INPUTS				FIXED COST	ΤΟΤΑ
SEED	\$0.40		80	LBS	\$32.00					\$32.00
WIRE	\$0.36			LBS	\$9.31					\$9.31
CANAL WATER			24	AC. IN,	\$28.00					\$28.00
SUBTOTAL					\$69.31				1	\$69,31
	POWER		ACCOMPL	SHMENT	PURCHASED		FUEL &		FIXED	
PREHARVEST OPERATIONS	UNIT		RAT	TE	INPUTS	LABOR	LUBE	REPAIRS	COST	TOTA
PLOW	96 HP		0.67	HR		\$5.03	\$9.79	\$3.42	\$24.93	\$43,16
DISC (2X)	96 HP		0.34			\$2.55	\$4_97	\$1.27	\$13.76	\$22.55
PLANE	96 HP		0.24			\$1.80	\$3.51	\$0.25	\$21.54	\$27.09
BORDER DISC DRILL	50 HP 50 HP		0.05			\$0.38 \$1.88	\$0.45 \$2.24	\$0.10 \$0.49	\$5.54 \$14.99	\$6.46 \$19.60
IRRIGATE (4X)	50 HF		2.00			\$15.00	42.24	\$U.40	\$14±90	\$15.00
SUBTOTAL		6	3.55	HR		\$26.63	\$20.96	\$5,52	\$80 76	\$133.87
HARVEST OPERATIONS										
SWATHER	14 FT.		0.16	HR		\$1.20	\$1.53	\$0.09	\$5.11	\$7.93
BALER, PTO	50 HP		0.21	HR		\$1.58	\$1.88	\$0.28	\$3,99	\$7.71
BALEWAGON					\$27.30					\$27.30
SUBTOTAL		1	0.37	HR		\$2,78	\$3,41	\$0,35	\$9.11	\$42.95
OVERHEAD EXPENSES										
DOWNTIME			0.48	HR		\$3.60				\$3.60
EMPLOYEE BENEFITS						\$5,29				\$5,29
INSURANCE					\$0.59					\$0,59
LAND TAXES						\$31.84			\$2.59	\$2.59
SUPERVISION AND MANAGEMENT OTHER EXPENSES					\$108.81	QO 1.04				\$31.84 \$108.81
SUBTOTAL			0.46	HR	\$109.40	\$40,73			\$2.59	\$152.72
TOTAL OPERATING EXPENSES			4.40	HR	\$178.71	\$70.13	\$24.37	\$5.87	\$92.46	\$398.84
NET OPERATING PROFIT					••••••					\$13.66
INTEREST ON OPERATING CAPITAL		(	\$41,59	0	5,50%	)				\$2,29
INTEREST ON EQUIPMENT INVESTME	NT									\$17.15
RETURN TO LAND AND RISK										(\$5.78
		BUDGET	SUMMARY							
BROSS RETURN			\$412.50							
VARIABLE OPERATING EXPENSES		\$208,96	8000 54	0000	C MADOIND					
RETURN OVER VARIABLE EXPENSES FIXED EXPENSES		\$92.46	\$203.54	(GROS	S MARGIN)					
IET FARM INCOME		402.40	\$111.09	(RETU	RN TO CAPITAL,	LABOR. LAN	D & RISK			
LABOR AND MANAGEMENT COST		\$70,13		, . <u>.</u>						
NET OPERATING PROFIT			\$40.96	(RETU	RN TO CAPITAL,	LAND & RIS	К)			
CAPITAL COSTS		\$19,44								
RETURN TO LAND AND RISK			\$21.52							

TABLE 8. Alfalfa establishment,flood-irrigated,budgeled per acre costs and returns for a 100 acre farm with above average management, Valencia and Southern Bernalillo Counties, Projected 2016 Planting dates: July 1 - July 31

ITEM	PRICE		YIEL	D						TOTA
GROSS RETURNS SORGHUM HAY GRAZING	\$170.00 \$5,00			TONS (S ACRE	TACKED)					\$340.00 \$5.00
TOTAL									0	\$345.00
PURCHASED INPUTS	PRICE		QUANT	TTY	PURCHASED INPUTS				FIXED COST	TOTA
SEED	\$1.70		25	LBS	\$59,50					\$59.50
WIRE	\$0.36			LBS	\$6.09					\$6.09
CANAL WATER			24	AC, IN,	\$28.00					\$28.00
SUBTOTAL					\$93,59				2	\$93,59
PREHARVEST OPERATIONS	POWER		ACCOMPLIS RATI		PURCHASED INPUTS	LABOR	FUEL &	REPAIRS	FIXED	TOTA
	Const. Transfer			7.2.1.5				a. c. mai		
DISC DRILL	96 HP 50 HP		0.17			\$1.28 \$1.88	\$2.48 \$2.24	\$0.63 \$0.49	\$6,88 \$14,99	\$11.27 \$19.60
IRRIGATE (4X)	5011		2.00			\$15.00	Ψ <b>2</b> .24	ψ <b>0</b> ,43	ψ14,00	\$15.00
SUBTOTAL		1	2.42	HR		\$18.15	\$4.73	\$1,12	\$21.87	\$45.87
HARVEST OPERATIONS										
SWATHER (2X) BALER, PTO (2X)	14 FT. 50 HP		0.32			\$2,40 \$3,15	\$3.06 \$3.77	\$0.19 \$0.52	\$10.23 \$7.99	\$15.87 \$15.43
BALEWAGON	50 TIP		0,42		\$23.40	40,10	45.77	φ0,5z	ψ1.0a	\$23.40
SUBTOTAL		-	0.74	HR		\$5.55	\$6,83	\$0,70	\$18,22	\$54.69
OVERHEAD EXPENSES										
DOWNTIME			0.29	HR		\$2.18				\$2.18
EMPLOYEE BENEFITS						\$4.27				\$4.27
INSURANCE					\$0.47					\$0.47
LAND TAXES SUPERVISION AND MANAGEMEN	т					\$26.73			\$2.59	\$2.59 \$26.73
OTHER EXPENSES					\$108.81	\$20.75				\$108.81
SUBTOTAL		-	0.29	HR	\$109.29	\$33,17			\$2.59	\$145.05
TOTAL OPERATING EXPENSES		-	3.45	HR	\$202.87	\$56.87	\$11,55	\$1_82	\$42,68	\$339,20
NET OPERATING PROFIT										\$5,80
INTEREST ON OPERATING CAPIT		(	\$48.88	0	5.50%	)				\$2.69 \$17.15
RETURN TO LAND AND RISK										(\$14.04
		BUDGET S	UMMARY							
GROSS RETURN			\$345.00							
VARIABLE OPERATING EXPENSES		\$216.25	6400 75	(00000						
RETURN OVER VARIABLE EXPENSE FIXED EXPENSES		\$42.68	\$128,75	GRUS	S MARGIN)					
NET FARM INCOME			\$86.07	(RETU	RN TO CAPITAL, I	ABOR, LAN	D & RISK)			
LABOR AND MANAGEMENT COST		\$56.87	600.00							
NET OPERATING PROFIT CAPITAL COSTS		\$19,84	\$29.20	(RETU	RN TO CAPITAL, I	LAND & RISK	9			

TABLE 9. Alfalfa establishment,flood-irrigated,budgeted per acre costs and returns for a 100 acre farm with above average management, Valencia and Southern Bernalillo Counties, Projected 2016 Planting dates: May 1 - June 15

ITEM	PRICE		YIE	_D						TOTA
GROSS RETURNS										
CORN SILAGE	\$40,00		20.00	TONS (ST	ANDING)					\$800.00
TOTAL									8	\$800.00
					PURCHASED				FIXED	
PURCHASED INPUTS	PRICE		QUAN	TITY	INPUTS				COST	TOTA
SEED	\$3.75		30	000	\$112,50					\$112.50
ANHYDROUS AMMONIA (NH3)	\$0.34			LBS	\$42.38					\$42.36
HERBICIDE (GRANULAR)	\$6.85			ACRE	\$6.85					\$6.85
INSECTICIDE (GRANULAR)	\$34.24			ACRE	\$34.24					\$34.24
CANAL WATER			42	AC. IN.	\$28.00					\$28.00
SUBTOTAL					\$223,96				28	\$223.96
									-	
PREHARVEST OPERATIONS	POWER UNIT		ACCOMPL RAT		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	ΤΟΤΑ
PREHARVEST OF ERAHONS	UNIT			<u> </u>	NU DIO	DADOIN	LODE	ILLI MILLO	0001	101/1
PLOW	96 HP		0.67			\$5.03	\$9,79	\$3.42	\$24,93	\$43.16
DISC (2X)	96 HP		0.34			\$2.55	\$4,97	\$1.27	\$13.76	\$22.55
LAND PLANE	96 HP		0,24			\$1.80	\$3,51	\$0.25	\$21.54	\$27.09
LISTER/PLANTER	96 HP		0.26			\$1.95	\$3.80		\$109,19	\$115.80
CULTIVATOR (2X)	50 HP		0.42			\$3,15	\$3.77	\$1.23	\$26,88	\$35.04
IRRIGATE (8X)			4.00	HR		\$30.00				\$30.00
SUBTOTAL		,	5.93	HR		\$44.48	\$25,84	\$7_04	\$196,29	\$273.65
OVERHEAD EXPENSES										
DOWNTIME			0.48	HR		\$3.62				\$3.62
EMPLOYEE BENEFITS						\$8.01				\$8.01
INSURANCE					\$0.89					\$0 89
LAND TAXES									\$5.18	\$5.18
SUPERVISION AND MANAGEMENT						\$60.97				\$60.97
OTHER EXPENSES					\$217.62					\$217.62
SUBTOTAL			0.48	HR	\$218.51	\$72,59			\$5,18	\$296.28
TOTAL OPERATING EXPENSES			6.41	HR	\$442.48	\$117.06	\$25,84	\$7.04	\$201.47	\$793.89
NET OPERATING PROFIT										\$6,11
INTEREST ON OPERATING CAPITAL		(	\$120.20	@	5 50%	)				\$6.61
INTEREST ON EQUIPMENT INVESTMENT		1	\$120,20	<u>w</u>	5.50%	)				\$70.12
RETURN TO LAND AND RISK										(\$70.63
		BUDGET	SUMMARY							
GROSS RETURN			\$800.00							
VARIABLE OPERATING EXPENSES		\$475.35								
RETURN OVER VARIABLE EXPENSES FIXED EXPENSES		\$201.47	\$324,65	(GROSS	MARGIN)					
NET FARM INCOME		4201.41	\$123,17	(RETUR	N TO CAPITAL, LA	BOR, LAND &	RISK)			
LABOR AND MANAGEMENT COST		\$117.06								
NET OPERATING PROFIT			\$6,11	(RETUR	N TO CAPITAL, LA	ND & RISK)				
CAPITAL COSTS		\$76.73								

	ALFALFA	ALFALFA	SMALL	SORGHUM	CORN FOR
	ESTABLISHMENT	HAY	GRAIN HAY	HAY	SILAGE
		TONS	TONS	TONS	TONS
PRIMARY YIELD		5.00	2.50	2.00	20.00
PRIMARY PRICE		\$195.00	\$165.00	\$170.00	\$40.00
GOVERNMENT PAYMENTS		\$0.00	\$0.00	\$0.00	\$0.00
SECOND INCOME		\$10.00	\$0.00	\$5.00	\$0.00
GROSS RETURN		\$985.00	\$412.50	\$345.00	\$800.00
CASH OPERATING EXPENSES					
SEED	\$120.00		\$32.00	\$59.50	\$112.50
FERTILIZER	\$71.70	\$54.90	JOL OU	100,00	\$42.38
CHEMICALS	¢1110	\$21.71			\$41.09
CROP INSURANCE					• • • • • •
OTHER PURCHASED INPUTS		\$15.39	\$9.31	\$6.09	
CANAL WATER		\$28.00	\$28.00	\$28.00	\$28.00
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$17.45	\$13.65	\$24.37	\$11.55	\$25.84
FUEL-IRRIGATION	\$17.45	410.00	ψ <b>2</b> 4.01	411-00	420.04
REPAIRS	\$5.27	\$1.41	\$5.87	\$1.82	\$7.04
CUSTOM CHARGES	\$70.71	\$23.40			
LAND TAXES		\$5.18	\$2.59	\$2.59	\$5.18
OTHER EXPENSES	\$0,35	\$218,45	\$109.40	\$109.29	\$218,51
TOTAL CASH EXPENSES	\$285,48	\$382.09	\$211,55	\$218.84	\$480,54
RETURN OVER CASH EXPENSES	(\$285.48)	\$602.91	\$200.95	\$126.16	\$319.46
FIXED EXPENSES	\$59.22	\$113,43	\$89,87	\$40,09	\$196.29
TOTAL EXPENSES	\$344_70	\$495.52	\$301.41	\$258.93	\$676.83
NET FARM INCOME	(\$344_70)	\$489.48	\$111.09	\$86.07	\$123.17
LABOR AND MANAGEMENT COSTS	\$49,87	\$124,96	\$70.13	\$56.87	\$117.06
NET OPERATING PROFIT	(\$394.58)	\$364.52	\$40,96	\$29.20	\$6.11
CAPITAL COSTS					
INTEREST ON OPERATING CAPITAL		\$3.48	\$2,29	\$2.69	\$6.61
INTEREST ON EQUIPMENT INVESTMENT		\$18,10	\$17,15	\$17,15	\$70.12
TOTAL CAPITAL COSTS	\$0.00	\$21.57	\$19.44	\$19.84	\$76.73
RETURN TO LAND AND RISK	(\$394.58)	\$342.94	\$21.52	\$9,36	(\$70.63

TABLE 10. Alfalfa establishment,flood-irrigated,budgeted per acre costs and returns for a 100 acre farm with above average management, Valencia and Southern Bernalillo Counties,

GROSS RETURNS ALFALFA HAY	71.00 ACRES			
CROP	A BORES	\$69,225		
GRAZING		\$710		
SMALL GRAIN HAY	10.00 ACRES	¢110		
CROP	1000 Monteo	\$4,125		
SORGHUM HAY	10.00 ACRES	• .,.=•		
CROP		\$3,400		
GRAZING		\$50		
CORN FOR SILAGE	10.00 ACRES			
CROP		\$8,000		
GROSS RETURN			17	\$85,510
CASH OPERATING EXPE	NSES			
SEED		\$3,460		
FERTILIZER		\$5,182		
CHEMICALS		\$1,952		
CROP INSURANCE		\$0		
OTHER PURCHASED I	NPUTS	\$1,247		
CANAL WATER		\$2,828		
FUEL, OIL & LUBRICAN	NTS-FOUIPMENT	\$1,796		
FUEL-IRRIGATION		50		
REPAIRS		\$310		
CUSTOM CHARGES		\$2,510		
LAND TAXES		\$471		
OTHER EXPENSES		\$19,886		
TOTAL CASH	EXPENSES		\$39,663	
RETURN OVER CASH EX	PENSES			\$45,847
FIXED EXPENSES		\$7,358		
TOTAL EXPE	NSES		\$47,021	
NET FARM INCOME				\$38,489
LABOR AND MANAGEMEN	NT COSTS	\$11,911		
NET OPERATING PROFIT				\$26,578
CAPITAL COSTS				
INTEREST ON OPERAT		\$363		
INTEREST ON EQUIPM	IENT INVESTMENT	\$2,329		
TOTAL CAPIT	AL COSTS	-	\$2,692	
RETURN TO LAND AND R	ISK		-	\$23,886
LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**		

LAND	VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$5,000	/ACRE	\$8,886	4,84%
\$6,500	/ACRE	\$4,386	3.80%
\$8,000	/ACRE	(\$114)	3.13%
\$9,500	/ACRE	(\$4,614)	2.66%
\$11,000	/ACRE	(\$9,114)	2.31%
\$12,500	/ACRE	(\$13,614)	2.05%

\* 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)

TABLE 11. Alfalfa establishment,flood-Irrigated,budgeted per acre costs and returns for a 100 acre farm with above average management, Valencia and Southern Bernalillo Counties, Projected 2016