TABLE 1. Acreage Summary, Otero County,
Projected 2019
BUDGET AREA......TULAROSA BASIN, OTERO COUNTY

WATER USE LAND USE (ACRES) AC.IN. PER AC ACREAGE SUMMARY: AC.IN. ALFALFA ESTABLISHMENT ALFALFA HAY OAT HAY SORGHUWSUDAN ROADS, DITCHES, HOMESTEAD 32 1,800 90 80 4.00 * 40.00 5.00 5.00 * 8 45 18 16 5.00 50.00 TOTAL 2,002 ACRE FEET PER ACRE OF WATER RIGHTS 3.34

TABLE 2. Basic cost information for Tularosa Basin, Otero County, Projected 2019

I	tem				
Labor Wag	e Rate:				
	ent operators		\$/hour		\$9.45
	& Irrigators		\$/hour		\$7.50
Comorai	a migatoro		φπισαι		ψσσ
Purchased	Innuts:				
Fertilizer					
. Ortingo	Nitrogen (N)		\$/pound		\$0.42
Seed:	· og o. · (· · ·)		фіродіїа		ψ0.12
occu.	Alfalfa		\$/pound		\$3.05
	Oats for Hay		\$/pound		\$0.34
	Outs for flay		ф/рошна		ψ0.0-1
Natural (Gas (Gas NM)		\$/MCF		\$4.01
	e charge)		\$/month		\$10.00
Diesel fu			\$/gallon		\$2.65
Gasoline			\$/gallon		\$2.35
	y (Otero Coop)		cents/KwHr		7.34
Liectricit	y (Otero Coop)		Certis/TWI II		7.54
Employee	Liability Insurance		\$/\$1,000 w	ages	\$12.00
Employee	Benefits		percent/wag	ges	12.00%
Labor Dow	ntime		percent		25.00%
Financial R					
	Capital Interest Rate		percent		5.50%
Land Inte			percent		5.00%
	nt Interest Rate		percent		5.50%
Expected	Inflation Rate		percent		3.00%
Land Taxe	S	\$300.00	/acre (full va	alue)	\$3.22
Personal P	roperty Tax Rate	- NR	\$/\$1,000	(Assessed	\$32.21
		- R		Value)	\$24.53
Supervision					
	pp-Irrigation		\$/acre		\$1.00
Field Cro	p-Equipment & General		\$/acre		\$0.50
Manageme	ent Rate		percent		4.00%

TABLE 3. Overhead cost information for Tularosa Basin, Otero County, Projected 2019

Item					
Electricity (Domestic & Shop)		\$83.20	per month	\$998
Telephone			\$89.60	per month	\$1,075
Accounting & Legal					\$192
Misc. Supplies & Hand Tools	3				\$666
Pickup and Auto					
miles	6,592	@	\$0.500 per mile		\$3,296
Insurance					
 general liability (non-empl 	oyee)				\$307
- fire/theft					\$205
Property Taxes					
- non-planted land					\$0
 other than land & machine 					\$6,010
Building repairs and mainten	ance				\$307
Dues, fees, publications					\$166
Farmstead Equipment					\$205
				Total	\$13,428
			Total per planted acre		\$298.39

^{*} DOUBLE-CROPPED

TABLE 6. Alfalfa establishment, sprinkler-irrigated, budgeted per acre costs and returns for a 50 acre part-time farm, Tularosa Basin, Otero County, Projected 2019

Planting dates: September 1 - November 1

ITEM	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
PURCHASED INPUTS								
ALFALFA SEED PUMP WATER*	\$3.05	30 LBS 8 AC. IN.	\$91.50					\$91.50
SUBTOTAL			\$91.50				_	\$91.50
DDFLIADVECT ODED ATIONS	POWER UNIT	ACCOMPLISHMENT	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PREHARVEST OPERATIONS	OINII	RATE	INFUIS	LABOR	LUBE	KEFAIKS	0031	TOTAL
DISC	50 HP	0.39 HR		\$3.69	\$3.43	\$0.39	\$3.03	\$10.54
PLOW	50 HP	1.05 HR		\$9.92	\$9.23	\$1.39	\$17.05	\$37.59
DISC (2X)	50 HP	0.78 HR		\$7.37	\$6.86	\$1.47	\$12.28	\$27.97
FLOAT (2X)	50 HP	0.64 HR		\$6.05	\$5.62	\$0.66	\$7.99	\$20.32
DRILL IRRIGATE (4X)	50 HP	0.21 HR 2.00 HR		\$1.98 \$15.00	\$1.85 \$18.81	\$0.43 \$0.00	\$34.72 \$6.64	\$38.99 \$40.46
IKKIGATE (4A)		2.00 TIK		\$15.00	φ10.01	φ0.00	φ0.04	φ40.40
SUBTOTAL		5.07 HR		\$44.01	\$45.80	\$4.34	\$81.72	\$175.87
OVERHEAD EXPENSES								
DOWNTIME		0.77 HR		\$7.25				\$7.25
EMPLOYEE BENEFITS		0.77		\$5.28				\$5.28
FARM INSURANCE			\$0.53	•				\$0.53
SUPERVISION AND MANAGEMENT				\$14.23				\$14.23
SUBTOTAL		0.77 HR	\$0.53	\$26.76				\$27.29
TOTAL OPERATING EXPENSES		5.84 HR	\$92.03	\$70.78	\$45.80	\$4.34	\$81.72	\$294.66

Alfalfa hay, sprinkler-irrigated, budgeted per acre costs and returns for a 50 acre part-time farm, Tularosa Basin, Otero County,

Projected 2019 Harvesting da ITEM PRICE YIELD TOTAL \$185.00 6.00 TONS (STACKED) \$1,110,00 ALFALFA HAY \$1,110.00 TOTA PURCHASED FIXED PURCHASED INPUTS PRICE INPUTS TOTAL 250 LBS 1 ACRE \$40.00 \$23.97 FERT. (ALFALFA MIX) \$40.00 INSECTICIDE \$23.97 \$23.97 56 LBS 10 YEARS WIRE \$0.36 \$20.16 \$20.16 ESTABLISHMENT: Principal \$29.47 \$29.47 \$6.96 \$6.96 PUMP WATER* 45 AC. IN. SUBTOTAL \$84.13 \$36.42 \$120.56 POWER UNIT ACCOMPLISHMENT PURCHASED FUEL & FIXED LABOR REPAIRS TOTAL PREHARVEST OPERATIONS **INPUTS** LUBE COST RATE IRRIGATE (11X) 5.50 HR \$41.25 \$105.83 \$0.00 \$37.36 \$184.44 SUBTOTAL \$0.00 \$37.36 \$184.44 5.50 HR \$41.25 \$105.83 HARVEST OPERATIONS 0.80 HR 1.05 HR 1.00 HR 14 FT 50 HP 50 HP \$0.20 \$1.23 \$2.29 SWATHER (5X) \$7.56 \$0.00 \$16.10 \$17.96 \$23.86 BALER, PTO (5X)
BALEWAGON, PTO (5X) \$9.23 \$8.79 \$38.34 \$48.80 \$9.45 \$28.26 SUBOTOTAL 2.85 HR \$26.93 \$18.02 \$3.72 \$62.32 \$110.99 OVERHEAD EXPENSES \$6.73 \$8.18 \$0.82 DOWNTIME 0.71 HR \$6.73 EMPLOYEE BENEFITS FARM INSURANCE \$0.82 LAND TAXES SUPERVISION AND MANAGEMENT OTHER EXPENSES \$3.22 \$3.22 \$51.33 \$51.33 \$298.39 \$298.39 \$368.67 SUBTOTAL 0.71 HR \$299.21 \$3.22 \$66.24 TOTAL OPERATING EXPENSES 9.06 HR \$383.34 \$134.42 \$123.85 \$3.72 \$139.32 \$784.65 NET OPERATING PROFIT \$325.35 INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT \$70.34 @ 5.50% \$3.87 \$50.14 RETURN TO LAND AND RISK \$271.33 * Pump water costs are shown under irrigation in the preharvest operations section

* Pump water costs are snown under irrigation in t		ions section. SUMMARY	
GROSS RETURN		\$1,110.00	
VARIABLE OPERATING EXPENSES	\$514.78		
RETURN OVER VARIABLE EXPENSES		\$595.22	(GROSS MARGINS)
FIXED EXPENSES	\$139.32		
NET FARM INCOME		\$455.90	(RETURNS TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$134.42		
NET OPERATING PROFIT		\$321.48	(RETURNS TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$50.14		
RETURN TO LAND AND RISK		\$271.33	

TABLE 8. Oats for hay, sprinkler-irrigated, budgeted per acre costs and returns for a 50 acre part-time farm, Tularosa Basin, Otero County, Projected 2019
Planting dates: September 1 - November 1

Planting dates: Sep Harvesting dates: A	otember 1 - November 1 April 15 - May 15									
ITEM	PRICE		YIE	LD						TOTAL
GROSS RETURNS OATS FOR HAY	\$150.00		3.00	TONS (S	TACKED)					\$450.00
TOTAL									-	\$450.00
PURCHASED INPUTS	PRICE		QUAN	TITY	PURCHASED INPUTS				FIXED COST	TOTAL
OAT SEED NITROGEN (N) PUMP WATER*	\$0.34 \$0.42		100	LBS LBS AC. IN.	\$34.00 \$42.00					\$34.00 \$42.00
SUBTOTAL					\$76.00				-	\$76.00
PREHARVEST OPERATIONS	POWER UNIT		ACCOMPL RA		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC PLOW DISC (2X) FLOAT (2X) DRILL IRRIGATE (4X)	50 HP 50 HP 50 HP 50 HP 50 HP		0.39 1.05 0.78 0.64 0.21 2.00	HR HR HR HR		\$3.69 \$9.92 \$7.37 \$6.05 \$1.98 \$15.00	\$3.43 \$9.23 \$6.86 \$5.62 \$1.85 \$42.33	\$0.73 \$1.39 \$1.47 \$0.66 \$0.43 \$0.00	\$6.14 \$17.05 \$12.28 \$7.99 \$34.72 \$14.94	\$13.99 \$37.59 \$27.97 \$20.32 \$38.99 \$72.28
SUBTOTAL		-	5.07	HR		\$44.01	\$69.32	\$4.68	\$93.13	\$211.13
SWATHER BALER, PTO BALE WAGON	14 FT 50 HP 50 HP		0.16 0.21 0.20	HR		\$1.51 \$1.98 \$1.89	\$0.00 \$1.85 \$1.76	\$0.04 \$0.25 \$0.46	\$3.22 \$3.59 \$5.65	\$4.77 \$7.67 \$9.76
SUBTOTAL		-	0.57	HR		\$5.39	\$3.60	\$0.74	\$12.46	\$22.20
OVERHEAD EXPENSES										
DOWNTIME EMPLOYEE BENEFITS FARM INSURANCE LAND TAXES SUPERVISION AND MANAGEM OTHER EXPENSES	IENT		0.91	HR	\$0.59 \$149.20	\$8.60 \$5.93 \$21.82			\$1.61	\$8.60 \$5.93 \$0.59 \$1.61 \$21.82 \$149.20
SUBTOTAL		-	0.91	HR	\$149.79	\$36.35			\$1.61	\$187.75
TOTAL OPERATING EXPENSES NET OPERATING PROFIT		-	6.55	HR	\$225.79	\$85.75	\$72.92	\$5.42	\$107.20	\$497.08 (\$47.08)
INTEREST ON OPERATING CA		(\$56.86	@	5.50%)				\$3.13 \$38.98
RETURN TO LAND AND RISK										(\$89.19)
* Pump water costs are shown u	inder irrigation in the preha		ions section. SUMMARY							
GROSS RETURN VARIABLE OPERATING EXPENS RETURN OVER VARIABLE EXPENSES FIXED EXPENSES NET FARM INCOME		\$307.26 \$107.20	\$450.00 \$142.74 \$35.54		S MARGINS) RNS TO CAPITAL.	, LABOR, LAI	ND & RISK)			
LABOR AND MANAGEMENT CO NET OPERATING PROFIT CAPITAL COSTS RETURN TO LAND AND RISK	ST	\$85.75 \$38.98	(\$50.20) (\$89.19)		RNS TO CAPITAL					

TABLE 9. Sorghum-sudan hay, sprinkler-irrigated, budgeted per acre costs and returns for a 50 acre part-time farm, Tularosa Basin, Otero County, Projected 2019
Planting dates: May 1 - June 1
Harvesting dates: June 1 - August 1

ITEM	PRICE		YIEL	.D						TOTA
GROSS RETURNS SORGHUM/SUDAN HAY	\$160.00		5.00	TONS (S	TACKED)					\$800.0
TOTAL									-	\$800.0
PURCHASED INPUTS	PRICE		QUAN	TITY	PURCHASED INPUTS				FIXED COST	TOT
SEED NITROGEN (N) PUMP WATER*	\$1.04 \$0.42		100	LBS LBS AC. IN.	\$52.00 \$42.00					\$52.0 \$42.0
SUBTOTAL					\$94.00				-	\$94.0
PREHARVEST OPERATIONS	POWER UNIT	,	ACCOMPLI RAT		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTA
DISC FLOAT (2X) DRILL IRRIGATE (4X)	50 HP 50 HP 50 HP		0.39 0.64 0.21 2.00	HR HR		\$3.69 \$6.05 \$1.98 \$15.00	\$3.43 \$5.62 \$1.85 \$37.63	\$0.73 \$0.66 \$0.43 \$0.00	\$6.14 \$7.99 \$34.72 \$13.28	\$13.9 \$20.3 \$38.9 \$65.9
SUBTOTAL		_	3.24	HR		\$26.72	\$48.53	\$1.82	\$62.14	\$139.2
HARVEST OPERATIONS										
SWATHER (2X) BALER, PTO (2X) BALE WAGON (2X)	14 FT 50 HP 50 HP		0.32 0.42 0.40	HR		\$3.02 \$3.97 \$3.78	\$0.00 \$3.69 \$3.52	\$0.08 \$0.49 \$0.92	\$6.44 \$7.18 \$11.31	\$9.5 \$15.3 \$19.5
SUBTOTAL		_	1.14	HR		\$10.77	\$7.21	\$1.49	\$24.93	\$44.4
OVERHEAD EXPENSES										
DOWNTIME EMPLOYEE BENEFITS FARM INSURANCE LAND TAXES SUPERVISION AND MANAGEMENT			0.60	HR	\$0.45	\$5.62 \$4.50 \$35.19			\$1.61	\$5.6 \$4.5 \$0.4 \$1.6 \$35.1
OTHER EXPENSES					\$149.20					\$149.2
SUBTOTAL			0.60	HR	\$149.65	\$45.31			\$1.61	\$196.5
OTAL OPERATING EXPENSES			4.98	HR	\$243.65	\$82.80	\$55.73	\$3.31	\$88.68	\$474.
IET OPERATING PROFIT										\$325.8
INTEREST ON OPERATING CAPITA INTEREST ON EQUIPMENT INVEST		(\$60.31	@	5.50%)				\$3.3 \$34.9
RETURN TO LAND AND RISK										\$287.5

GROSS RETURN VARIABLE OPERATING EXPENSES	\$306.01	\$800.00	
RETURN OVER VARIABLE EXPENSES	*****	\$493.99	(GROSS MARGINS)
FIXED EXPENSES NET FARM INCOME	\$88.68	\$405.32	(RETURNS TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$82.80		, , , , , , , , , , , , , , , , , , , ,
NET OPERATING PROFIT CAPITAL COSTS	\$34.95	\$322.51	(RETURNS TO CAPITAL, LAND & RISK)
RETURN TO LAND AND RISK	-	\$287.56	

TABLE 10. Summary of per acre costs and returns, 50-acre part-time farm, Tularosa Basin, Otero County,

Projected 2019				
	ALFALFA	ALFALFA	OATS FOR	SORGHUM
_	ESTABLISHMENT	HAY	HAY	SUDAY HAY
		TONS	TONS	TONS
		10110	10110	10110
PRIMARY YIELD		6.00	3.00	5.00
PRIMARY PRICE		\$185.00	\$150.00	\$160.00
GOVERNMENT PAYMENTS		\$0.00	\$0.00	\$0.00
SECOND INCOME		\$0.00	\$0.00	\$0.00
GROSS RETURN		\$1,110.00	\$450.00	\$800.00
CROSS REPORT		ψ1,110.00	ψ-100.00	ψοσο.σσ
OAGU OBERATING EVERNOEG				
CASH OPERATING EXPENSES SEED	\$91.50		\$34.00	\$52.00
FERTILIZER	φ91.50	\$40.00	\$42.00	\$42.00
CHEMICALS		\$23.97	φ42.00	φ42.00
CROP INSURANCE		Ψ20.57		
OTHER PURCHASED INPUTS		\$20.16		
CANAL WATER		•		
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$26.98	\$18.02	\$30.59	\$18.11
FUEL-IRRIGATION	\$18.81	\$105.83	\$42.33	\$37.63
REPAIRS	\$4.34	\$3.72	\$5.42	\$3.31
CUSTOM CHARGES				
LAND TAXES		\$3.22	\$1.61	\$1.61
OTHER EXPENSES	\$0.53	\$299.21	\$149.79	\$149.65
TOTAL CASH EXPENSES	\$142.17	\$514.13	\$305.74	\$304.30
RETURN OVER CASH EXPENSES	(\$142.17)	\$595.87	\$144.26	\$495.70
	(ψ142.17)	ψυσυ.υτ	Ψ144.20	ψ+95.70
FIXED EXPENSES	\$81.72	\$136.10	\$105.59	\$87.07
TOTAL EXPENSES	\$223.89	\$650.23	\$411.33	\$391.37
NET FARM INCOME	(\$223.89)	\$459.77	\$38.67	\$408.63
LABOR AND MANAGEMENT COSTS	\$70.78	\$134.42	\$85.75	\$82.80
	Ψ10.10	Ψ104.42	ψ03.73	ψ02.00
NET OPERATING PROFIT	(\$294.66)	\$325.35	(\$47.08)	\$325.83
CAPITAL COSTS				
INTEREST ON OPERATING CAPITAL		\$3.87	\$3.13	\$3.32
INTEREST ON EQUIPMENT INVESTMENT		\$50.14	\$38.98	\$34.95
TOTAL CAPITAL COSTS	\$0.00	\$54.01	\$42.11	\$38.27
TOTAL GALITAL GOOTS	ψ0.00	Ψ0-+.01	ψ τ ∠.ΙΙ	ψ30.27
RETURN TO LAND AND RISK	(\$294.66)	\$271.33	(\$89.19)	\$287.56

TABLE 11. Whole farm summary, Tularosa Basin, Otero County, Projected 2019

Projected 20	719				
GROSS RETURNS					
ALFALFA HAY	40.00 A	CRES			
CROP			\$44,400		
OATS FOR HAY CROP	5.00 A	CRES	\$2,250		
SORGHUM/SUDAN	5.00 A	CRES	φ2,230		
CROP			\$4,000		
GROSS RETURN				_	\$50,650
CITOGO ILLI ORIV					ψου,σου
CACH ODEDATING EVE	DENICEO				
CASH OPERATING EXF	ENSES		\$796		
FERTILIZER			\$2,020		
CHEMICALS			\$959		
CROP INSURANCE			\$0		
OTHER PURCHASE	O INPUTS		\$806		
CANAL WATER			\$0		
FUEL, OIL & LUBRIC	ANTS-EQUIPME	NT	\$1,072		
FUEL-IRRIGATION			\$4,708		
REPAIRS			\$210		
CUSTOM CHARGES			\$0		
LAND TAXES OTHER EXPENSES			\$145 \$13,468		
OTHER EXPENSES			φ13,400		
TOTAL CAS	SH EXPENSES			\$24,184	
RETURN OVER CASH E	EXPENSES				\$26,466
FIXED EXPENSES				\$5,120	
TOTAL EXF	PENSES			\$29,304	
NET FARM INCOME					\$21,346
LABOR AND MANAGEM	IENT COSTS		\$6,503		
NET OPERATING PROF	ŦΙΤ				\$14,843
CADITAL COCTO					
CAPITAL COSTS INTEREST ON OPER	PATING CAPITAL		\$187		
INTEREST ON OPER			\$2,375		
			Ψ2,010		
TOTAL CAP	PITAL COSTS			\$2,562	
RETURN TO LAND AND	RISK			_	\$12,281

	RETURNS	RETURN ON
LAND VALUE	TO RISK*	INVESTMENT**
\$700 /ACRE	\$11,231	22.40%
\$900 /ACRE	\$10,931	19.46%
\$1,100 /ACRE	\$10,631	17.20%
\$1,300 /ACRE	\$10,331	15.42%
\$1,500 /ACRE	\$10,031	13.97%
\$1,700 /ACRE	\$9,731	12.77%
\$1,900 /ACRE	\$9,431	11.75%
\$2,100 /ACRE	\$9,131	10.89%

^{*} 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)