TABLE 1. Acreage Summary, San Juan County,
Projected 2019
BUDGET AREA........SAN JUAN COUNTY, 2002.
FARM SIZE........80 ACRES
IRRIGATION TYPE.....SPRINKLER
NUMBER OF CROPS.....1...

			WATER	USE
ACREAGE SUMMARY:		LAND USE (ACRES)	AC.IN. PER AC.	TOTAL AC.IN.
ALFALFA ESTABLISHME ALFALFA	NT	11.00 69.00	39 46	429 3,174
	TOTAL	80.00		3,603
ACRE FEET PER ACRE OF WATER RIGHTS				

TABLE 2. Basic cost information for San Juan County, Projected 2019

Item				
Labor Wage Rate: Equipment operators General & Irrigators		\$/hour \$/hour		\$7.80 \$7.50
Purchased Inputs: Fertilizer:				
Phosphate (P205)		\$/pound		\$0.49
Seed:				
Alfalfa		\$/pound		\$3.05
Oats		\$/pound		\$0.34
Wire		\$/pound		\$1.32
Canal Water		\$/acre foot		\$45.00
Energy:				
Diesel fuel		\$/gallon		\$2.65
Gasoline		\$/gallon		\$2.35
Electricity		cents/KwHr		12.31
LP Gas		\$/gallon		\$2.45
Natural Gas		\$/MCF		\$4.00
(service charge)		\$/month		\$10.00
Employee Liability Insurance		\$/\$1,000 wa	ages	\$20.00
Employee Benefits		percent/wag	jes	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	\$253.00	/acre (full va	alue)	\$2.44
Personal Property Tax Rate	- NR - R	\$/\$1,000	(Assessed Value)	\$28.92 \$24.67
Supervision Factors				
Field Crop-Irrigation		\$/labor hour		\$1.00
Field Crop-Equipment & General		\$/labor hour	•	\$0.50
Management Rate		percent		7.00%

TABLE 3. Overhead cost information for San Juan County, Projected 2019

Electricity (Domestic & \$	Shop)		\$134.40	per month	\$1,613
Telephone			\$96.00	per month	\$1,152
Accounting & Legal					\$570
Misc. Supplies & Hand	Tools				\$960
Pickup and Auto					
miles	13,184	@	\$0.500 per mile		\$6,592
Insurance					
- general liability (non-	employee)				\$1,190
- fire/theft					\$774
Property Taxes					_
- non-farm land					\$0
- other than land & ma					\$6,010
Building repairs and ma					\$59
Dues, fees, publications	3				\$294
Farmstead Equipment					\$192
				Total	\$19,943
			Total per planted acre	-	\$289.03

TABLE 6. Alfalfa establishment, sprinkler-irrigated, budgeted per acre costs and returns for an 80 acre farm, San Juan County, Projected 2019
Planting dates: April 15 - June 1

ITEM	PRICE		YIELI)						TOTAL
GROSS RETURNS OAT HAY GRAZING	\$160.00 \$10.00			TONS (S	STACKED)					\$360.00 \$10.00
TOTAL									-	\$370.00
PURCHASED INPUTS	PRICE		QUANT	ITY	PURCHASED INPUTS				FIXED COST	TOTAL
ALFALFA SEED OAT SEED PHOSPHATE (P2O5) WIRE CANAL WATER CANAL WATER (MAINTENANCE)	\$3.05 \$0.34 \$0.49 \$1.32		45 45 19 39	LBS LBS LBS LBS AC. IN. ACRE	\$61.00 \$15.30 \$22.05 \$25.45				\$146.25 \$8.00	\$61.00 \$15.30 \$22.05 \$25.45 \$146.25 \$8.00
SUBTOTAL					\$123.80				\$154.25	\$278.05
PREHARVEST OPERATIONS	POWER UNIT	A	CCOMPLIS RATE		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PLOW DISC (2X) HARROW FERTILIZE DRILL DITCHER (2X) IRRIGATE (9X)	96 HP 96 HP 96 HP 96 HP 96 HP 40 HP		0.67 0.34 0.19 0.05 0.21 0.10 2.25	HR HR HR HR HR		\$5.23 \$2.65 \$1.48 \$0.39 \$1.64 \$0.78 \$16.88	\$10.81 \$5.49 \$3.07 \$0.81 \$3.39 \$0.88 \$52.89	\$3.39 \$1.25 \$0.17 \$0.04 \$0.41 \$0.11 \$0.00	\$49.40 \$32.21 \$5.56 \$0.44 \$43.76 \$3.05 \$9.04	\$68.82 \$41.61 \$10.28 \$1.68 \$49.20 \$4.81 \$78.80
SUBTOTAL			3.81	HR		\$29.04	\$77.33	\$5.37	\$143.45	\$255.20
HARVEST OPERATIONS SWATHER BALER BALE WAGON	14 FT 96 HP 96 HP		0.16 0.21 0.20	HR HR		\$1.25 \$1.64 \$1.56	\$1.59 \$3.39 \$3.23	\$0.09 \$0.22 \$0.44	\$6.92 \$3.77 \$5.77	\$9.84 \$9.02 \$10.99
SUBTOTAL			0.57	HR		\$4.45	\$8.20	\$0.74	\$16.46	\$29.85
DOWNTIME EMPLOYEE BENEFITS INSURANCE LAND TAXES SUPERVISION AND MANAGEMENT			1.74	HR	\$0.67	\$13.53 \$6.03 \$40.64			\$2.44	\$13.53 \$6.03 \$0.67 \$2.44 \$40.64
SUBTOTAL			1.74	HR	\$0.67	\$60.20			\$2.44	\$63.31
TOTAL OPERATING EXPENSES			6.12	HR	\$124.47	\$93.69	\$85.53	\$6.12	\$316.60	\$626.42
NET OPERATING PROFIT										(\$256.42)
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT		(\$83.32	@	5.50%)				\$4.58 \$63.47
RETURN TO LAND AND RISK										(\$324.47

TABLE 7. Alfalfa hay, sprinkler-irrigated, budgeted per acre costs and returns for an 80 acre farm, San Juan County, Projected 2019

Harvesting d ITEM YIELD TOTAL PRICE 5.00 TONS (STACKED) 2.00 AUM \$925.00 ALFAL FA HAY \$185.00 GRAZING \$20.00 TOTAL \$945.00 PURCHASED INPUTS FIXED PURCHASED INPUTS PRICE QUANTITY TOTAL COST PHOSPHATE (P2O5) 40.00 LBS \$0.49 \$19.60 \$19.60 INSECTICIDE (AERIAL) WIRE \$19.20 \$1.32 1.00 ACRE 43.00 LBS \$19.20 \$56.76 \$19.20 \$56.76 LIVESTOCK FAC & EQUIP ESTABLISHMENT: Principal \$5.00 \$54.08 \$5.00 \$54.08 \$21.48 6.00 YEARS : Interest \$21.48 CANAL WATER
CANAL WATER (MAINTENANCE) 46.00 AC. IN. 1 ACRE \$8.00 \$8.00 SUBTOTAL \$95.56 \$261.06 \$356.62 FUEL & POWER ACCOMPLISHMENT PURCHASED FIXED PREHARVEST OPERATIONS UNIT **INPUTS** LABOR LUBE REPAIRS COST TOTAL 0.05 HR 0.10 HR 3.25 HR \$0.39 \$0.78 \$0.81 \$0.88 \$0.44 \$3.05 FERTILIZE \$1.68 DITCHER (2X) IRRIGATE (13X) 40 HP \$0.11 \$4.81 \$24.38 \$62.38 \$0.00 \$10.66 \$97.42 SUBTOTAL 3.40 HR \$25.55 \$64.07 \$0.15 \$14.14 \$103.91 HARVEST OPERATIONS SWATHER (3X) \$4.76 \$5.54 14 FT 0.48 HR \$3.74 \$0.26 \$20.75 \$29.52 BALER (3X) BALE WAGON (3X) 40 HP 0.63 \$10.94 \$4.91 \$1.31 \$17.31 96 HP 0.60 HR \$4.68 \$9.68 \$32.98 SUBTOTAL 1.71 HR \$13.34 \$19.98 \$2.31 \$49.00 \$84.62 OVERHEAD EXPENSES \$3.43 \$7.00 \$0.78 DOWNTIME 0.44 HR \$3.43 EMPLOYEE BENEFITS \$7.00 INSURANCE \$0.78 LAND TAXES
SUPERVISION AND MANAGEMENT \$2.44 \$70.28 \$2.44 \$70.28 OTHER EXPENSES \$289.03 \$289.03 SUBTOTAL \$289.80 \$372.95 0.44 HR \$80.71 \$2.44 TOTAL OPERATING EXPENSES \$385.36 \$84.05 \$2.46 \$326.64 5.55 HR \$119.59 \$918.11 NET OPERATING PROFIT \$26.89 INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT \$65.69 @ 5.50%) \$3.61 \$34.42 RETURN TO LAND AND RISK (\$11.14) BUDGET SUMMARY GROSS RETURN VARIABLE OPERATING EXPENSES \$945.00 \$471.87 RETURN OVER VARIABLE EXPENSES \$473.13 (GROSS MARGIN) FIXED EXPENSES NET FARM INCOME \$326.64 \$146.49 (RETURN TO CAPITAL, LABOR, LAND & RISK) LABOR AND MANAGEMENT COST NET OPERATING PROFIT \$119.59 (RETURN TO CAPITAL, LAND & RISK) \$26.89 CAPITAL COSTS \$38.04 RETURN TO LAND AND RISK (\$11.14)

TABLE 8. Summary of per acre costs and returns for an 80 acre farm, San Juan County, Projected 2019

Projected 2019	ALFALFA ESTABLISHMENT	ALFALFA HAY
	TONS	TONS
PRIMARY YIELD	2.25	5.00
PRIMARY PRICE	\$160.00	\$185.00
GOVERNMENT PAYMENTS	\$0.00	\$0.00
SECOND INCOME	\$10.00	\$20.00
GROSS RETURN	\$370.00	\$945.00
CASH OPERATING EXPENSES		
SEED	\$76.30	
FERTILIZER	\$22.05	\$19.60
CHEMICALS		\$19.20
CROP INSURANCE	00- 1-	^ =0 =0
OTHER PURCHASED INPUTS	\$25.45	\$56.76
CANAL WATER FUEL, OIL & LUBRICANTS-EQUIPMENT	\$32.64	\$21.67
FUEL-IRRIGATION	\$52.89	\$62.38
REPAIRS	\$6.12	\$2.46
CUSTOM CHARGES	Ψ0.12	Ψ2.10
LAND TAXES	\$2.44	\$2.44
OTHER EXPENSES	\$0.67	\$289.80
TOTAL CASH EXPENSES	\$218.56	\$474.31
RETURN OVER CASH EXPENSES	\$151.44	\$470.69
FIXED EXPENSES	\$314.16	\$324.20
TOTAL EXPENSES	\$532.73	\$798.51
NET FARM INCOME	(\$162.73)	\$146.49
LABOR AND MANAGEMENT COSTS	\$93.69	\$119.59
NET OPERATING PROFIT	(\$256.42)	\$26.89
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL	\$4.58	\$3.61
INTEREST ON EQUIPMENT INVESTMENT	\$63.47	\$34.42
TOTAL CAPITAL COSTS	\$68.05	\$38.04
RETURN TO LAND AND RISK	(\$324.47)	(\$11.14)
RETURN TO LAND AND RISK	(\$324.47)	(\$1

TABLE 9. Whole farm summary, San Juan County, Projected 2019

Projected 20	719			
GROSS RETURNS				
OAT HAY	11.00 ACRES			
CROP	00.00 AODEO	\$4,070		
ALFALFA HAY CROP	69.00 ACRES	\$63,825		
GRAZING		\$1,380		
GROSS RETURN			_	\$69,275
CASH OPERATING EXP	PENSES			
SEED		\$839		
FERTILIZER		\$1,595		
CHEMICALS CROP INSURANCE		\$1,325 \$0		
OTHER PURCHASE	D INPLITS	\$4,196		
CANAL WATER	5 II II 5 I 5	\$0		
FUEL, OIL & LUBRIC	ANTS-EQUIPMENT	\$1,854		
FUEL-IRRIGATION		\$4,886		
REPAIRS		\$237		
CUSTOM CHARGES		\$0 \$4.05		
LAND TAXES OTHER EXPENSES		\$195 \$20,004		
OTTIER EXPENSES		\$20,004		
TOTAL CAS	SH EXPENSES	_	\$35,132	
RETURN OVER CASH E	EXPENSES			\$34,143
FIXED EXPENSES		\$22,094		
TOTAL EXP	ENSES		\$57,226	
NET FARM INCOME				\$12,049
LABOR AND MANAGEM	MENT COSTS	\$9,283		
NET OPERATING PROF	FIT .			\$2,766
CAPITAL COSTS				
INTEREST ON OPER	RATING CAPITAL	\$300		
	PMENT INVESTMENT	\$3,073		
TOTAL CAP	PITAL COSTS	-	\$3,373	
RETURN TO LAND AND	RISK		_	(\$607)

	RETURN	RETURN ON
LAND VALUE	TO RISK*	INVESTMENT**
\$1,000 /ACRE	(\$3,007)	2.20%
\$2,500 /ACRE	(\$6,607)	1.13%
\$4,000 /ACRE	(\$10,207)	0.76%
\$5,500 /ACRE	(\$13,807)	0.57%
\$7,000 /ACRE	(\$17,407)	0.46%
\$8,500 /ACRE	(\$21,007)	0.38%

 $^{^{\}star}$ 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)