TABLE 1. Acreage Summary, San Juan County,

Projected 2016

BUDGET AREA..... SAN JUAN COUNTY, 2002.

NUMBER OF CROPS... 1

			_	WATER USE		
ACREAGE SUMMARY:		LAND USE (ACRES)		AC.IN. PER AC.	TOTAL AC.IN.	
ALFALFA ESTABLISHMENTALFALFA	Т	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 2016

Item				
Labor Wage Rate: Equipment operators		\$/hour		\$7.80
General & Irrigators		\$/hour		\$7.50
Purchased Inputs: Fertilizer:				
Phosphate (P205)		\$/pound		\$0.61
Seed:				
Alfalfa		\$/pound		\$6.00
Oats		\$/pound		\$0.40
Wire		\$/pound		\$1.68
Canal Water		\$/acre foot		\$30.50
Energy:				
Diesel fuel		\$/gallon		\$2.55
Gasoline		\$/gallon		\$2.40
Electricity		cents/KwHr		12.31
LP Gas		\$/gallon		\$2.45
Natural Gas		\$/MCF		\$3.00
(service charge)		\$/month		\$10.00
Employee Liability Insurance		\$/\$1,000 wa	ages	\$20.00
Employee Benefits		percent/wag	ges	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)	\$2.45
Personal Property Tax Rate	- NR	\$/\$1,000	(Assessed	\$29.00
	- R		Value)	\$24.30
Supervision Factors				
Field Crop-Irrigation		\$/labor hou	r	\$1.00
Field Crop-Equipment & General		\$/labor hou	r	\$0.50
Management Rate		percent		7.00%

TABLE 3. Overhead cost information for San Juan County, Projected 2016

Item					
Electricity (Domestic &	Shop)		\$131.25	per month	\$1,575
Telephone			\$93.75	per month	\$1,125
Accounting & Legal					\$556
Misc. Supplies & Hand	Tools				\$938
Pickup and Auto					
miles	12,875	@	\$0.500 per mile		\$6,438
Insurance					
- general liability (non-	employee)				\$1,163
- fire/theft					\$756
Property Taxes					
- non-farm land					\$0
- other than land & ma	chinery				\$6,010
Building repairs and ma	intenance				\$58°
Dues, fees, publications	3				\$288
Farmstead Equipment					\$188
				Total	\$19,616
			Total per planted acre		\$284.29

TABLE 6. Alfalfa establishment, sprinkler-irrigated, budgeted per acre costs and returns for an 80 acre farm, San Juan County, Projected 2016

Planting dates: April 15 - June 1
Harvesting dates: June 15 - July 1

Harvesting dates: June 15 - Ju	ly 1									
ITEM	PRICE		YIEL	D						TOTAL
GROSS RETURNS OAT HAY GRAZING	\$165.00 \$10.00			TONS (S	STACKED)					\$371.25 \$10.00
TOTAL										\$381.25
PURCHASED INPUTS	PRICE		QUANT	TITY	PURCHASED INPUTS				FIXED COST	TOTAL
ALFALFA SEED OAT SEED PHOSPHATE (P2O5) WIRE CANAL WATER CANAL WATER (MAINTENANCE)	\$6.00 \$0.40 \$0.61 \$1.68		45 45 19 39	LBS LBS LBS LBS AC. IN. ACRE	\$120.00 \$18.00 \$27.45 \$32.39				\$99.13 \$8.00	\$120.00 \$18.00 \$27.45 \$32.39 \$99.13 \$8.00
SUBTOTAL					\$197.84				\$107.13	\$304.97
PREHARVEST OPERATIONS	POWER UNIT	Α	.CCOMPLIS RAT		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
-					1141 010					
PLOW PLOC (OV)	96 HP		0.67			\$5.23	\$10.40	\$3.42	\$49.70	\$68.75
DISC (2X) HARROW	96 HP 96 HP		0.34 0.19			\$2.65 \$1.48	\$5.28 \$2.95	\$1.27 \$0.18	\$32.37 \$5.64	\$41.57 \$10.26
FERTILIZE	96 HP		0.19			\$0.39	\$0.78	\$0.16	\$0.46	\$10.20
DRILL	96 HP		0.21			\$1.64	\$3.26	\$0.42	\$43.86	\$49.18
DITCHER (2X)	40 HP		0.10	HR		\$0.78	\$0.90	\$0.11	\$3.10	\$4.89
IRRIGATE (9X)			2.25	HR		\$16.88	\$39.83	\$0.00	\$9.04	\$65.75
SUBTOTAL		_	3.81	HR		\$29.04	\$63.40	\$5.45	\$144.18	\$242.07
HARVEST OPERATIONS										
SWATHER	14 FT		0.16	ЦΒ		¢4.05	¢4 50	<b>ድ</b> ስ ስስ	<b>ኖ</b> ፖ 20	¢10.16
BALER	96 HP		0.16			\$1.25 \$1.64	\$1.53 \$3.26	\$0.09 \$0.23	\$7.29 \$3.86	\$10.16 \$8.99
BALE WAGON	96 HP		0.20			\$1.56	\$3.11	\$0.44	\$5.86	\$10.97
SUBTOTAL		_	0.57	LID		\$4.45	\$7.89	\$0.77	\$17.02	\$30.13
SUBTUTAL			0.57	TIK		φ4.43	φ1.09	φ0.77	φ17.02	φ30.13
OVERHEAD EXPENSES										
DOWNTIME			1.74	HR		\$13.53				\$13.53
EMPLOYEE BENEFITS						\$6.03				\$6.03
INSURANCE					\$0.67	•				\$0.67
LAND TAXES									\$2.45	\$2.45
SUPERVISION AND MANAGEMENT						\$41.61				\$41.61
SUBTOTAL		_	1.74	HR	\$0.67	\$61.17			\$2.45	\$64.28
TOTAL OPERATING EXPENSES		_	6.12	HR	\$198.51	\$94.66	\$71.30	\$6.22	\$270.77	\$641.45
NET OPERATING PROFIT										(\$260.20)
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT	Т	(	\$116.86	@	5.50%	)				\$6.43 \$64.31
RETURN TO LAND AND RISK										(\$330.94)

TABLE 7. Alfalfa hay, sprinkler-irrigated, budgeted per acre costs and returns for an 80 acre farm, San Juan County, Projected 2016
Harvesting dates: June 1 - October 15

ITEM	PRICE		YIEL	D						TOTAL
GROSS RETURNS ALFAL FA HAY	\$195.00		5.00	TONS (S	STACKED)					\$975.00
GRAZING	\$10.00			AUM	THORLD)					\$20.00
TOTAL									-	\$995.00
PURCHASED INPUTS	PRICE		QUANT	TITY	PURCHASED INPUTS				FIXED COST	TOTAL
PHOSPHATE (P2O5) INSECTICIDE (AERIAL) WIRE LIVESTOCK FAC & EQUIP ESTABLISHMENT: Principal : Interest	\$0.61 \$19.20 \$1.68		43.00 6.00	ACRE LBS YEARS	\$24.40 \$19.20 \$72.24				\$5.00 \$55.16 \$20.16	\$24.40 \$19.20 \$72.24 \$5.00 \$55.16 \$20.16
CANAL WATER CANAL WATER (MAINTENANCE)				AC. IN. ACRE					\$116.92 \$8.00	\$116.92 \$8.00
SUBTOTAL					\$115.84				\$205.24	\$321.08
PREHARVEST OPERATIONS	POWER UNIT		ACCOMPLIS RAT		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
FERTILIZE DITCHER (2X) IRRIGATE (13X)	96 HP 40 HP		0.05 0.10 3.25	HR		\$0.39 \$0.78 \$24.38	\$0.78 \$0.90 \$46.98	\$0.05 \$0.11 \$0.00	\$0.46 \$3.10 \$10.66	\$1.67 \$4.89 \$82.02
SUBTOTAL		•	3.40	HR		\$25.55	\$48.66	\$0.16	\$14.22	\$88.58
HARVEST OPERATIONS										
SWATHER (3X) BALER (3X) BALE WAGON (3X)	14 FT 40 HP 96 HP		0.48 0.63 0.60	HR		\$3.74 \$4.91 \$4.68	\$4.58 \$5.65 \$9.32	\$0.28 \$0.78 \$1.33	\$21.88 \$11.27 \$17.58	\$30.49 \$22.62 \$32.91
SUBTOTAL			1.71	HR		\$13.34	\$19.55	\$2.39	\$50.74	\$86.02
OVERHEAD EXPENSES										
DOWNTIME EMPLOYEE BENEFITS INSURANCE LAND TAXES SUPERVISION AND MANAGEMENT OTHER EXPENSES			0.44	HR	\$0.78 \$284.29	\$3.43 \$7.00 \$73.78			\$2.45	\$3.43 \$7.00 \$0.78 \$2.45 \$73.78 \$284.29
SUBTOTAL		-	0.44	HR	\$285.07	\$84.21			\$2.45	\$371.73
TOTAL OPERATING EXPENSES			5.55	HR	\$400.91	\$123.09	\$68.21	\$2.55	\$272.64	\$867.41
NET OPERATING PROFIT										\$127.59
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTI		(	\$71.95	@	5.50%	)				\$3.96 \$35.62
RETURN TO LAND AND RISK										\$88.01
		BUDGET	SUMMARY							
GROSS RETURN VARIABLE OPERATING EXPENSES RETURN OVER VARIABLE EXPENSES FIXED EXPENSES NET FARM INCOME LABOR AND MANAGEMENT COST NET OPERATING PROFIT CAPITAL COSTS RETURN TO LAND AND RISK		\$471.67 \$272.64 \$123.09 \$39.58	\$995.00 \$523.33 \$250.68 \$127.59 \$88.01	(RETU	SS MARGIN) RN TO CAPITAL, RN TO CAPITAL,					

TABLE 8. Summary of per acre costs and returns for an 80 acre farm, San Juan County, Projected 2016

	ALFALFA ESTABLISHMENT	ALFALFA HAY
	TONS	TONS
PRIMARY YIELD	2.25	5.00
PRIMARY PRICE	\$165.00	\$195.00
GOVERNMENT PAYMENTS	\$0.00	\$0.00
SECOND INCOME	\$10.00	\$20.00
GROSS RETURN	\$381.25	\$995.00
CASH OPERATING EXPENSES		
SEED	\$138.00	
FERTILIZER	\$27.45	\$24.40
CHEMICALS		\$19.20
CROP INSURANCE	<b>^</b>	<b>^</b>
OTHER PURCHASED INPUTS	\$32.39	\$72.24
CANAL WATER	<b>\$24.46</b>	<b>01.00</b>
FUEL, OIL & LUBRICANTS-EQUIPMENT FUEL-IRRIGATION	\$31.46 \$39.83	\$21.23 \$46.98
REPAIRS	ъзэ.63 \$6.22	\$40.96 \$2.55
CUSTOM CHARGES	φ0.22	φ2.55
LAND TAXES	\$2.45	\$2.45
OTHER EXPENSES	\$0.67	\$285.07
TOTAL CASH EXPENSES	\$278.47	\$474.12
RETURN OVER CASH EXPENSES	\$102.78	\$520.88
FIXED EXPENSES	\$268.32	\$270.20
TOTAL EXPENSES	\$546.79	\$744.32
NET FARM INCOME	(\$165.54)	\$250.68
LABOR AND MANAGEMENT COSTS	\$94.66	\$123.09
NET OPERATING PROFIT	(\$260.20)	\$127.59
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL	\$6.43	\$3.96
INTEREST ON EQUIPMENT INVESTMENT	\$64.31	\$35.62
TOTAL CAPITAL COSTS	\$70.74	\$39.58
RETURN TO LAND AND RISK	(\$330.94)	\$88.01

TABLE 9. Whole farm summary, San Juan County, Projected 2016

Projected 20	710			
CDOSS DETUDNS				
GROSS RETURNS OAT HAY	11.00 ACRES			
CROP	11.00 ACKES	\$4,194		
ALFALFA HAY	69.00 ACRES	ψ+, 13+		
CROP	09.00 ACKES	\$67,275		
GRAZING		\$1,380		
GRAZING		φ1,300		
			_	
GROSS RETURN				\$72,849
CASH OPERATING EX	PENSES	<b>A</b>		
SEED		\$1,518		
FERTILIZER		\$1,986		
CHEMICALS		\$1,325		
CROP INSURANCE		\$0		
OTHER PURCHASE	D INPUTS	\$5,341		
CANAL WATER		\$0		
FUEL, OIL & LUBRIC	CANTS-EQUIPMENT	\$1,811		
FUEL-IRRIGATION		\$3,680		
REPAIRS	_	\$244		
CUSTOM CHARGES	5	\$0		
LAND TAXES		\$196		
OTHER EXPENSES		\$19,677		
TOTAL CAS	SH EXPENSES		\$35,777	
RETURN OVER CASH	EXPENSES			\$37,071
FIXED EXPENSES		\$17,789		
			<b>^</b> -	
TOTAL EXF	PENSES		\$53,567	
NET FARM INCOME				\$19,282
LABOR AND MANAGEM	MENT COSTS	\$9,535		
NET OPERATING PRO	FIT			\$9,747
CAPITAL COSTS				
INTEREST ON OPE		\$344		
INTEREST ON EQU	IPMENT INVESTMENT	\$3,166		
TOTAL CAP	PITAL COSTS	_	\$3,509	
RETURN TO LAND ANI	D RISK			\$6,238
			_	

	RETURN	RETURN ON
LAND VALUE	TO RISK*	INVESTMENT**
\$1,000 /ACRE	\$3,838	7.62%
\$2,500 /ACRE	\$238	3.93%
\$4,000 /ACRE	(\$3,362)	2.65%
\$5,500 /ACRE	(\$6,962)	2.00%
\$7,000 /ACRE	(\$10,562)	1.60%
\$8,500 /ACRE	(\$14,162)	1.34%
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<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)