TABLE 1. Acreage Summary, San Juan County,
Projected 2016

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

NUMBER OF CROPS... 1

			WATER	R USE	
ACREAGE SUMMARY:		LAND USE (ACRES)	AC.IN. PER AC.	TOTAL AC.IN.	
ALFALFA ESTABLISHME ALFALFA	ENT	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:		<b></b>		
Equipment operators		\$/hour		\$7.80 \$7.50
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 wag	ges	\$20.00
Employee Benefits		percent/wage	es	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 val	ue)	\$2.45
Personal Property Tax Rate	- NR	\$/\$1,000	(Assessed	\$29.00
• •	- R		Value)	\$24.30
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 2016

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					
<ul> <li>general liability (non-</li> </ul>	employee)				\$1,163
- fire/theft					\$756
Property Taxes					
- non-farm land					\$0
- other than land & ma	•				\$6,010
Building repairs and ma					\$581
Dues, fees, publication	S				\$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		
ITEM	PRICE	YIELD	TOTAL
GROSS RETURNS			
OAT HAY	\$165.00	2.25 TONS (STACKED)	\$371.25
GRAZING	\$10.00	1.00 AUM	\$10.00
TOTAL			\$381.25

PURCHASED INPUTS	PRICE	QUANTITY	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	20 LBS 45 LBS 45 LBS 19 LBS 39 AC.IN. 1 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	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHME RATE	NT PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PLOW DISC (2X)	96 HP 96 HP	0.67 HR 0.34 HR		\$5.23 \$2.65	\$10.40 \$5.28	\$3.42 \$1.27	\$49.70 \$32.37	\$68.75 \$41.57
HARROW	96 HP	0.19 HR		\$2.03 \$1.48	\$2.26 \$2.95	\$0.18	\$5.64	\$41.37 \$10.26
FERTILIZE	96 HP	0.05 HR		\$0.39	\$0.78	\$0.05	\$0.46	\$1.67
DRILL	96 HP	0.21 HR		\$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 HR		\$1.25	\$1.53	\$0.09	\$7.29	\$10.16
BALER	96 HP	0.21 HR		\$1.64	\$3.26	\$0.23	\$3.86	\$8.99
BALE WAGON	96 HP	0.20 HR		\$1.56	\$3.11	\$0.44	\$5.86	\$10.97
SUBTOTAL		0.57 HR		\$4.45	\$7.89	\$0.77	\$17.02	\$30.13
OVERHEAD EXPENSES								
DOWNTIME		1.74 HR		\$13.53				\$13.53
EMPLOYEE BENEFITS				\$6.03				\$6.03
INSURANCE			\$0.67					\$0.67
LAND TAXES SUPERVISION AND MANAGEMENT				\$41.61			\$2.45	\$2.45 \$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	-	( \$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	DDICE		VIEL	<u> </u>						TOTAL
GROSS RETURNS	PRICE		YIEL	D						TOTAL
ALFAL FA HAY	\$195.00		5.00	TONS (S	STACKED)					\$975.00
GRAZING	\$10.00			AUM						\$20.00
TOTAL									-	\$995.00
PURCHASED INPUTS	PRICE		QUAN	ΓΙΤΥ	PURCHASED INPUTS				FIXED COST	TOTAL
PHOSPHATE (P2O5)	\$0.61		40.00	LBS	\$24.40					\$24.40
INSECTICIDE (AERIAL)	\$19.20			ACRE	\$19.20					\$19.20
WIRE LIVESTOCK FAC & EQUIP	\$1.68		43.00	LB2	\$72.24				\$5.00	\$72.24 \$5.00
ESTABLISHMENT: Principal			6.00	YEARS					\$55.16	\$55.16
: Interest CANAL WATER			46.00	AC. IN.					\$20.16 \$116.92	\$20.16 \$116.92
CANAL WATER (MAINTENANCE)				ACRE					\$8.00	\$8.00
SUBTOTAL					\$115.84				\$205.24	\$321.08
	POWER		ACCOMPLIS	SHMENIT	PURCHASED		FUEL &		FIXED	
PREHARVEST OPERATIONS	UNIT		RAT		INPUTS	LABOR	LUBE	REPAIRS	COST	TOTAL
FERTILIZE	96 HP		0.05	HR		\$0.39	\$0.78	\$0.05	\$0.46	\$1.67
DITCHER (2X)	40 HP		0.10			\$0.78	\$0.90	\$0.11	\$3.10	\$4.89
IRRIGATE (13X)			3.25	HR		\$24.38	\$46.98	\$0.00	\$10.66	\$82.02
SUBTOTAL			3.40	HR		\$25.55	\$48.66	\$0.16	\$14.22	\$88.58
HARVEST OPERATIONS										
SWATHER (3X)	14 FT		0.48	HR		\$3.74	\$4.58	\$0.28	\$21.88	\$30.49
BALER (3X)	40 HP		0.63			\$4.91	\$5.65	\$0.78	\$11.27	\$22.62
BALE WAGON (3X)	96 HP		0.60			\$4.68	\$9.32	\$1.33	\$17.58	\$32.91
SUBTOTAL			1.71	HR		\$13.34	\$19.55	\$2.39	\$50.74	\$86.02
OVERHEAD EXPENSES										
DOWNTIME			0.44	HR		\$3.43				\$3.43
EMPLOYEE BENEFITS					<b>00.70</b>	\$7.00				\$7.00
INSURANCE LAND TAXES					\$0.78				\$2.45	\$0.78 \$2.45
SUPERVISION AND MANAGEMENT						\$73.78			Ψ2.10	\$73.78
OTHER EXPENSES					\$284.29					\$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 INVESTM	ENT	(	\$71.95	@	5.50%	)				\$3.96 \$35.62
RETURN TO LAND AND RISK										\$88.01
		BUDGET	SUMMARY							
GROSS RETURN			<b>\$005.00</b>							
VARIABLE OPERATING EXPENSES		\$471.67	\$995.00							
RETURN OVER VARIABLE EXPENSES			\$523.33	(GROS	SS MARGIN)					
FIXED EXPENSES NET FARM INCOME		\$272.64	\$250.68	(RETU	RN TO CAPITAL,	LABOR. LAI	ND & RISK)			
LABOR AND MANAGEMENT COST		\$123.09		`	•	,	,			
NET OPERATING PROFIT CAPITAL COSTS		\$39.58	\$127.59	(RETU	RN TO CAPITAL,	LAND & RIS	SK)			
RETURN TO LAND AND RISK		+ 2	\$88.01							

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

FTOJECIEU 2010	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	<b>.</b>
FERTILIZER	\$27.45	\$24.40
CHEMICALS CROP INSURANCE		\$19.20
OTHER PURCHASED INPUTS CANAL WATER	\$32.39	\$72.24
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$31.46	\$21.23
FUEL-IRRIGATION	\$39.83	\$46.98
REPAIRS	\$6.22	\$2.55
CUSTOM CHARGES	<b>**</b> 15	<b>^</b> - 1-
LAND TAXES OTHER EXPENSES	\$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	016			
GROSS RETURNS OAT HAY CROP ALFALFA HAY CROP GRAZING	11.00 ACRES 69.00 ACRES	\$4,194 \$67,275 \$1,380		
GROSS RETURN			_	\$72,849
CASH OPERATING EX SEED FERTILIZER CHEMICALS CROP INSURANCE OTHER PURCHASE CANAL WATER FUEL, OIL & LUBRIG FUEL-IRRIGATION REPAIRS CUSTOM CHARGES LAND TAXES OTHER EXPENSES	ED INPUTS CANTS-EQUIPMENT S	\$1,518 \$1,986 \$1,325 \$0 \$5,341 \$0 \$1,811 \$3,680 \$244 \$0 \$196 \$19,677		
TOTAL CA	SH EXPENSES	_	\$35,777	
RETURN OVER CASH	EXPENSES			\$37,071
FIXED EXPENSES		\$17,789		
TOTAL EXI	PENSES		\$53,567	
NET FARM INCOME				\$19,282
LABOR AND MANAGE	MENT COSTS	\$9,535		
NET OPERATING PRO	PFIT			\$9,747
CAPITAL COSTS INTEREST ON OPE INTEREST ON EQU	RATING CAPITAL IIPMENT INVESTMENT	\$344 \$3,166		
TOTAL CA	PITAL COSTS	-	\$3,509	
RETURN TO LAND AN	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)