TABLE 1. Acreage Sumn Actual 2023	nary, San Juar	n County,		
BUDGET AREA	SAN JUAN (	COUNTY, 2023.		
FARM SIZE				
IRRIGATION TYPE				
NUMBER OF CROPS	1			
			 WATER	RUSE
		LAND USE	AC.IN.	TOTAL
ACREAGE SUMMARY:		(ACRES)	PER AC.	AC.IN.
ALFALFA ESTABLISHME	NT	11.00	39	429
ALFALFA		69.00	46	3,174
	TOTAL	80.00		3,603
	3.75			

TABLE 2. Basic cost information for San Juan County, Actual 2023

Actual 2023			
Item			
Labor Wage Rate:			
Equipment operators		\$/hour	\$17.6
General & Irrigators		\$/hour	\$16.6
Purchased Inputs:			
Fertilizer:			
Phosphate (P205)		\$/pound	\$2.0
Seed:			
Alfalfa		\$/pound	\$4.5
Oats		\$/pound	\$0.5
Wire		\$/pound	\$1.3
Canal Water		\$/acre foot	\$45.0
Energy:			
Diesel fuel		\$/gallon	\$4.3
Gasoline		\$/gallon	\$2.6
Electricity		cents/KwHr	12.3
LP Gas		\$/gallon	\$2.4
Natural Gas		\$/MCF	\$2.7
(service charge)		\$/month	\$10.0
Employee Liability Insurance		\$/\$1,000 wages	\$20.0
Employee Benefits		percent/wages	18.00
Labor Downtime		percent	25.00
Financial Rates:			
Operating Capital Interest Rate		percent	9.75
Land Interest Rate		percent	9.15
Equipment Interest Rate		percent	8.75
Real Interest Rate		percent	3.00
Land Taxes	\$392.00	/acre (full value)	\$3.7
Personal Property Tax Rate	- NR	\$/\$1,000 (Assessed	\$28.9
	- R	Value)	\$24.6
Supervision Factors		¢//	<b>64</b> 0
Field Crop-Irrigation		\$/labor hour	\$1.0
Field Crop-Equipment & General		\$/labor hour	\$0.5
Management Rate		percent	7.00

TABLE 3. Overhead cost information for San Juan County, Actual 2023

Item					
Electricity (Domestic & S	Shop)		\$134.40	per month	\$1,613
Telephone			\$96.00	per month	\$1,152
Accounting & Legal					\$570
Misc. Supplies & Hand 1	Tools				\$960
Pickup and Auto					
miles	13,184	@	\$0.665 per mile		\$8,76
Insurance					
- general liability (non-e	employee)				\$1,19
- fire/theft					\$774
Property Taxes					
<ul> <li>non-farm land</li> </ul>					\$1
- other than land & mad	chinery				\$6,01
Building repairs and mai	ntenance				\$59
Dues, fees, publications					\$294
Farmstead Equipment					\$193
				Total	\$22,11
			Total per planted acre		\$320.5

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

Actual	202	3		

Planting	dates: April 15 - June 1	
Harvesti	ng dates: June 15 - July 1	

Harvesting dates: June 15 - July	/ 1									
ITEM	PRICE		YIELI	C						TOTAL
GROSS RETURNS OAT HAY GRAZING	\$245.00 \$10.00			TONS (S AUM	STACKED)					\$551.25 \$10.00
TOTAL									-	\$561.25
					PURCHASED				FIXED	
PURCHASED INPUTS	PRICE		QUANT	ITY	INPUTS				COST	TOTAL
ALFALFA SEED	\$4.50			LBS	\$90.00					\$90.00
OAT SEED	\$0.56 \$2.00			LBS LBS	\$25.20 \$90.00					\$25.20 \$90.00
PHOSPHATE (P2O5) WIRE	\$2.00 \$1.32			LBS	\$90.00 \$25.45					\$90.00 \$25.45
CANAL WATER	ψ1.52			AC. IN.	φ20.40				\$146.25	\$146.25
CANAL WATER (MAINTENANCE)				ACRE					\$8.00	\$8.00
SUBTOTAL					\$230.65				\$154.25	\$384.90
	POWER	AC	COMPLIS	HMENT	PURCHASED		FUEL &		FIXED	
PREHARVEST OPERATIONS	UNIT		RATE		INPUTS	LABOR	LUBE	REPAIRS	COST	TOTAL
PLOW	96 HP		0.67	HR		\$11.81	\$17.67	\$3.39	\$49.40	\$82.26
DISC (2X)	96 HP		0.34			\$5.99	\$8.97	\$1.25	\$32.21	\$48.43
HARROW	96 HP		0.19			\$3.35	\$5.01	\$0.17	\$5.56	\$14.09
FERTILIZE DRILL	96 HP		0.05 0.21			\$0.88	\$1.32 \$5.54	\$0.04	\$0.44	\$2.68
DITCHER (2X)	96 HP 40 HP		0.21			\$3.70 \$1.76	\$5.54 \$0.97	\$0.41 \$0.11	\$43.76 \$3.05	\$53.41 \$5.89
IRRIGATE (9X)	40111		2.25			\$37.35	\$36.05	\$0.00	\$9.04	\$82.43
SUBTOTAL			3.81	HR		\$64.85	\$75.52	\$5.37	\$143.45	\$289.20
HARVEST OPERATIONS										
SWATHER	14 FT		0.16	HR		\$2.82	\$2.59	\$0.09	\$6.92	\$12.42
BALER	96 HP		0.21			\$3.70	\$5.54	\$0.22	\$3.77	\$13.23
BALE WAGON	96 HP		0.20	HR		\$3.53	\$5.27	\$0.44	\$5.77	\$15.01
SUBTOTAL			0.57	HR		\$10.05	\$13.40	\$0.74	\$16.46	\$40.66
OVERHEAD EXPENSES										
DOWNTIME			1.74	HR		\$30.59				\$30.59
EMPLOYEE BENEFITS						\$13.48				\$13.48
INSURANCE					\$1.50					\$1.50
LAND TAXES									\$3.78	\$3.78
SUPERVISION AND MANAGEMENT						\$50.50				\$50.50
SUBTOTAL			1.74	HR	\$1.50	\$94.57			\$3.78	\$99.85
TOTAL OPERATING EXPENSES			6.12	HR	\$232.15	\$169.47	\$88.92	\$6.12	\$317.94	\$814.61
NET OPERATING PROFIT										(\$253.36)
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT		(	\$136.73	@	9.75%	)				\$13.33 \$100.98

TABLE 7. Alfalfa hay, sprinkler-irrigated, budgeted per acre costs and returns for an 80 acre farm, San Juan County, Actual 2023

ITEM	PRICE		YIEL	D						TOTA
GROSS RETURNS ALFAL FA HAY	\$311.00		5.00	TONS (S	TACKED)					\$1,555.00
GRAZING	\$10.00			AUM	,					\$20.00
TOTAL										\$1,575.00
					PURCHASED				FIXED	
PURCHASED INPUTS	PRICE		QUAN	TITY	INPUTS				COST	TOTA
PHOSPHATE (P2O5)	\$2.00		40.00		\$80.00					\$80.00
INSECTICIDE (AERIAL) WIRE	\$19.20 \$1.32		1.00 43.00	ACRE LBS	\$19.20 \$56.76					\$19.20 \$56.76
LIVESTOCK FAC & EQUIP									\$5.00	\$5.00
ESTABLISHMENT: Principal : Interest			6.00	YEARS					\$61.28 \$42.00	\$61.28 \$42.00
CANAL WATER				AC. IN.					\$172.50	\$172.50
CANAL WATER (MAINTENANCE)			1	ACRE					\$8.00	\$8.00
SUBTOTAL					\$155.96				\$288.78	\$444.74
	POWER		ACCOMPLI		PURCHASED		FUEL &		FIXED	
PREHARVEST OPERATIONS	UNIT		RAT	E	INPUTS	LABOR	LUBE	REPAIRS	COST	TOTA
FERTILIZE	96 HP		0.05			\$0.88	\$1.32	\$0.04	\$0.44	\$2.68
DITCHER (2X) IRRIGATE (13X)	40 HP		0.10 3.25			\$1.76 \$53.95	\$0.97 \$42.52	\$0.11 \$0.00	\$3.05 \$10.66	\$5.89 \$107.13
SUBTOTAL			3.40	HR		\$56.59	\$44.81	\$0.15	\$14.14	\$115.70
HARVEST OPERATIONS										
	44 FT		0.40			<b>60</b> 40	¢7 70	<b>*</b> 0.00	¢00.75	¢07.05
SWATHER (3X) BALER (3X)	14 FT 40 HP		0.48 0.63			\$8.46 \$11.11	\$7.78 \$6.13	\$0.26 \$0.74	\$20.75 \$10.94	\$37.25 \$28.91
BALE WAGON (3X)	96 HP		0.60			\$10.58	\$15.82	\$1.31	\$17.31	\$45.02
SUBTOTAL			1.71	HR		\$30.15	\$29.73	\$2.31	\$49.00	\$111.18
OVERHEAD EXPENSES										
DOWNTIME			0.44	HR		\$7.76				\$7.76
EMPLOYEE BENEFITS					<b>6</b> 4 <b>7</b> 0	\$15.61				\$15.61
INSURANCE LAND TAXES					\$1.73				\$3.78	\$1.73 \$3.78
SUPERVISION AND MANAGEMENT					0000 55	\$114.38				\$114.38
OTHER EXPENSES					\$320.55					\$320.55
SUBTOTAL			0.44		\$322.29	\$137.75			\$3.78	\$463.82
TOTAL OPERATING EXPENSES			5.55	HR	\$478.25	\$224.49	\$74.54	\$2.46	\$355.70	\$1,135.43
NET OPERATING PROFIT										\$439.57
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTME	ENT	(	\$91.89	@	9.75%	)				\$8.96 \$54.76
RETURN TO LAND AND RISK										\$375.85
		BUDGET	SUMMARY							
GROSS RETURN			\$1,575.00							
VARIABLE OPERATING EXPENSES		\$555.24								
RETURN OVER VARIABLE EXPENSES FIXED EXPENSES		\$355.70	\$1,019.76	(GROS	S MARGIN)					
NET FARM INCOME			\$664.06	(RETU	RN TO CAPITAL,	LABOR, LAN	ND & RISK)			
LABOR AND MANAGEMENT COST NET OPERATING PROFIT		\$224.49	\$439.57	(RETU	RN TO CAPITAL,		K)			
CAPITAL COSTS		\$63.72		(1)-10	INTIO OALITAL,					
RETURN TO LAND AND RISK			\$375.85							

	ALFALFA ESTABLISHMENT	ALFALFA HAY
	TONS	TONS
PRIMARY YIELD	2.25	5.00
PRIMARY PRICE	\$245.00	\$311.00
GOVERNMENT PAYMENTS	\$0.00	\$0.00
SECOND INCOME	\$10.00	\$20.00
GROSS RETURN	\$561.25	\$1,575.00
CASH OPERATING EXPENSES		
SEED	\$115.20	
FERTILIZER	\$90.00	\$80.00
CHEMICALS		\$19.20
CROP INSURANCE		
OTHER PURCHASED INPUTS	\$25.45	\$56.76
CANAL WATER		
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$52.87	\$32.02
FUEL-IRRIGATION	\$36.05	\$42.52
REPAIRS	\$6.12	\$2.46
CUSTOM CHARGES		
LAND TAXES	\$3.78	\$3.78
OTHER EXPENSES	\$1.50	\$322.29
TOTAL CASH EXPENSES	\$330.97	\$559.02
RETURN OVER CASH EXPENSES	\$230.28	\$1,015.98
FIXED EXPENSES	\$314.16	\$351.92
TOTAL EXPENSES	\$645.13	\$910.94
NET FARM INCOME	(\$83.88)	\$664.06
LABOR AND MANAGEMENT COSTS	\$169.47	\$224.49
NET OPERATING PROFIT	(\$253.36)	\$439.57
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL	\$13.33	\$8.96
INTEREST ON EQUIPMENT INVESTMENT	\$100.98	\$54.76
TOTAL CAPITAL COSTS	\$114.31	\$63.72
RETURN TO LAND AND RISK	(\$367.66)	\$375.85

TABLE 8.Summary of per acre costs and returns for an 80 acre farm, San Juan County,<br/>Actual 2023

Actual 2023	3			
GROSS RETURNS				
OAT HAY	11.00 ACRES			
CROP		\$6,174		
ALFALFA HAY	69.00 ACRES	\$407.00F		
CROP GRAZING		\$107,295 \$1,380		
GNALING		φ1,500		
GROSS RETURN			-	\$114,849
CASH OPERATING EX	PENSES			
SEED		\$1,267		
FERTILIZER		\$6,510		
CHEMICALS		\$1,325		
CROP INSURANCE		\$0		
OTHER PURCHASE	ED INPUTS	\$4,196		
	CANTS-EQUIPMENT	\$0 \$2,791		
FUEL-IRRIGATION		\$3,330		
REPAIRS		\$237		
CUSTOM CHARGE	S	\$0		
LAND TAXES		\$302		
OTHER EXPENSES		\$22,254		
TOTAL CA	SH EXPENSES	-	\$42,213	
RETURN OVER CASH	EXPENSES			\$72,636
FIXED EXPENSES		\$23,510		
		, ,, , ,		
TOTAL EXI	PENSES		\$65,723	
NET FARM INCOME				¢40,406
				\$49,126
LABOR AND MANAGE	MENT COSTS	\$17,354		
NET OPERATING PRC	FIT			\$31,772
CAPITAL COSTS				
INTEREST ON OPE	RATING CAPITAL	\$765		
	IPMENT INVESTMENT	\$4,890		
		_	<u> </u>	
TOTAL CA	PITAL COSTS		\$5,654	
RETURN TO LAND AN	DRISK			\$26,117
			-	Ψ20,111

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$1,000 /ACRE	\$23,717	25.28%
\$2,500 /ACRE	\$20,117	12.93%
\$4,000 /ACRE	\$16,517	8.69%
\$5,500 /ACRE	\$12,917	6.54%
\$7,000 /ACRE	\$9,317	5.25%
\$8,500 /ACRE	\$5,717	4.38%

\* 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)