TABLE 1. Acreage Summary, San Juan County, Projected 2018
BUDGET AREA. SAN JUAN COUNTY FARM SIZE. 80 ACRES
IRRIGATION TYPE. FLOOD
NUMBER OF CROPS...3

WATER USE LAND USE (ACRES) AC.IN. TOTAL ACREAGE SUMMARY: PER AC. AC.IN. ALFALFA ESTABLISHMENT ALFALFA PASTURE ESTABLISHMENT PASTURE CORN SILAGE 6.00 34.00 1.00 * 288 2,040 21 48 60 21 62 48 1,240 20.00 20.00 960 TOTAL 80 4,549 ACRE FEET PER ACRE OF WATER RIGHTS 4.74

	asic cost information for rojected 2018	San Juan Co	unty,		
Iter	n				
Labor Wage	Rate:				
	operators		\$/hour		\$7.80
General &	Irrigators		\$/hour		\$7.50
Purchased In Fertilizer:	puts:				
	itrogen (N)		\$/pound		\$0.31
P	hosphate (P205)		\$/pound		\$0.24
А	nhydrous Ammonia (NH	13)	\$/ton		\$420.00
Seed:					
Α	lfalfa		\$/pound		\$4.00
	ats		\$/pound		\$0.44
	asture		\$/pound		\$3.25
C	orn		\$/bag		\$240.00
Wire			\$/pound		\$1.32
Canal Wat	er		\$/acre foot		\$30.50
Energy:					
Diesel fuel			\$/gallon		\$2.70
Gasoline			\$/gallon		\$2.40
Natural Ga	IS		\$/MCF		\$4.00
LP Gas			\$/gallon		\$2.85
Electricity			cents/KwHr		12.31
Employee Lia	ability Insurance		\$/\$1,000 wa	ages	\$20.00
Employee Be	enefits		percent/wag	ges	18.00%
Labor Downt	ime		percent		25.00%
Financial Rat	es:				
	apital Interest Rate		percent		5.50%
Land Interes			percent		5.00%
	nterest Rate		percent		5.50%
Real Interes	t Rate		percent		3.00%
Land Taxes		\$253.00	/acre (full va	alue)	\$2.43
Personal Pro	perty Tax Rate	- NR - R	\$/\$1,000	(Assessed Value)	\$28.79 \$24.53
Supervision I	actors	••		. 2.20,	Ψ250
Field Crop			\$/labor hou	r	\$1.00
	-Equipment & General		\$/labor hou	r	\$0.50
Management	Rate		percent		7.00%
			,		

TABLE 3. Overhead cost information for San Juan County, Projected 2018

Item					
Electricity (Domestic &	Shop)		\$133.35	per month	\$1,600
Telephone			\$88.90	per month	\$1,067
Accounting & Legal					\$565
Misc. Supplies & Hand	l Tools				\$953
Pickup and Auto					
miles	13,081	@	\$0.500 per mile		\$6,541
Insurance					
 general liability (non 	-employee)				\$1,181
 fire/theft 					\$711
Property Taxes					
 non-planted land 					\$0
 other than land & m 	achinery				\$6,010
Building repairs and m	aintenance				\$591
Dues, fees, publication	ns				\$292
Farmstead Equipment					\$191
				Total	\$19,701
			Total per planted acre		\$266.22

^{*} DOUBLE-CROPPED

TABLE 4. Equipment summary for an Projected 2015 EQUIPMENT	n 80 acre flood-	irrigated farm,	San Juan Co.	inty,		VARIABLE C	OSTS				Frui	ED COSTS	
ITEM & SIZE		NUAL RS OF NUR		_	EL, OL, BRICANT	REPAR	FUEL, OIL PER HR	REPAIR PER HR	•	DEPRE	CIATION	TAXES	TOTAL PER HR
TRACTOR		39 102 17 23 22 9 18 14 14 6 5 1 1 5		7,000 7,335 3,900 11,500 2,250 3,350 3,350 3,350 3,350 5,350 5,350 5,350 5,360 5,360 5,360 5,360 5,360 5,360	\$346 \$1,485 \$155	\$42 \$95 \$10 \$3 \$25 \$25 \$75 \$5 \$9 \$9 \$9 \$9 \$9 \$9 \$9 \$9	\$8.95 \$14.62 \$8.99	\$1.08 \$0.94 \$0.58 \$0.15 \$1.28 \$2.79 \$4.15 \$0.62 \$0.62 \$0.05 \$1.06 \$1.63 \$2.46			\$360 \$325 \$1,450 \$385 \$800 \$300 \$447 \$220 \$385 \$167 \$40 \$440 \$680 \$267	\$88 \$75 \$139 \$77 \$22 \$32 \$32 \$37 \$12 \$3 \$37 \$12 \$3 \$31 \$33 \$31	\$11.56 \$5.91 \$01.96 \$18.00 \$40.59 \$35.00 \$26.47 \$71.01 \$22.29 \$313.06 \$113.04 \$15.05
PERISPREADER DEALER FOR	Noneu	-	*	5,285	\$1,986	\$349					\$7,164	\$681	
		EQUE	MENT LIST										
TEMATOR	177 155 299 7.7 169 4.6 6.7	VALUE V 275.00 70 735.00 173 300.00 38 700.00 16 500.00 22 700.00 33 900.00 15 500.00 33 900.00 33 900.00 33 900.00 33	ALUE 00.00 34.50 00.00 00.00 00.00	EARS LFE 50.00 30.00 20.00 20.00 20.00 20.00 15.00 15.00 20.00 15.00 15.00 15.00 15.00 15.00 15.00	EQUIP CODE 1.00 1.00 2.00 2.00 5.00 3.00 3.00 2.00 4.00 8.00 8.00 8.00 8.00	MAX HOURS 800.00 800.00 500.00 500.00 300.00 300.00 300.00 300.00 300.00 100.00 100.00 100.00 100.00	FUEL UNIT/HR 3.40 5.54 3.12	COEF COEF 0.10 0.10 0.20	ACCLIM HOURS 578.55 238.80 241.52 408.24 129.60 146.68 289.44 198.80 213.00 91.50 82.08 19.11 67.50 292.32		AGE 15.00 23.00 14.00 15	494.31 424.71 797.50 2211.75 440.00 211.75 144.25 505.00 211.75 65.75 15.20 121.00 187.00	
USAGE L ANNUA ALFALFA ALFALFA PASTUR EST. HAY EST		CORN FOR SLAGE	PER ACRE TOTALS										
	1 0.31 6 0.05 0 0.00 0 0.00 0 0.00 4 0.00 7 0.00 0 0.00	1.34 2.22 0.00 0.00 0.00 0.34 0.67 0.71	2.37 6.85 0.64 0.80 1.02 2.01 0.71 0.71 0.42 0.57 0.42 0.25										
INTEREST PRORATION OAT ALFALFA HAY HAY PA		CORN FOR SLAGE											
	3.97 0.21 0.00 0.00 0.00 0.00 0.00 0.00 0.00	17.17 9.45 0.00 0.00 0.00 0.00 4.55 6.82 25.30 10.59 0.00 9.35 0.00 9.35 0.00											
ALFALFA ESTABLISHMENT	ACRES:	6.00	PUMP W										
MACHINE PLOW	POWER UNIT 95 HP	TIMES OVER	RATE	0.67 0.34 0.19	CUSTOM								
PLOW DISC (20) HARROW FERTILEE CORRUGATE DRELL DITCHER (20) BRRIGATE (60)	95 HP 95 HP 95 HP 95 HP 40 HP 95 HP 40 HP	1.00 1.00 1.00 1.00 1.00 2.00 6.00	0.67 0.17 0.19 0.05 0.21 0.21 0.05 0.50	0.19 0.05 0.21 0.21 0.10 3.00									
SWATHER BALER BALE WAGON	14 FT 96 HP 96 HP	1.00 1.00 1.00	0.16 0.21 0.20	0.16 0.21 0.20									
ALFALFA HAY	ACRES:	34	PUMP W										
MACHNE FERTILIZE DITCHER (2X) BRRIGATE (10X)	POWER UNIT 96 HP 40 HP	1.00 2.00 10.00	0.05 0.05 0.50	TOTAL 0.05 0.10 5.00	CUSTOM								
SWATHER (3X) BALER (3X) BALE WAGON (3X)	14 FT 95 HP 95 HP	3.00 3.00 3.00	0.16 0.21 0.20	0.48 0.63 0.60									
PERMANENT PASTURE EST.	ACRES:	1.00	PUMP W	ATER:									
MACHINE	POWER UNIT	TMES OVER	ACCOMPLIS RATE	TOTAL	CUSTOM								
PLOW DISC (ZX) HARROW FERTILE CORRUGATE DRALL DTCHER (ZX) BRRIGATE (DX)	95 HP 95 HP 95 HP 95 HP 40 HP 40 HP	1.00 2.00 1.00 1.00 1.00 1.00 2.00 3.00	0.67 0.17 0.19 0.05 0.21 0.21 0.05 0.50	0.67 0.34 0.19 0.05 0.21 0.21 0.10 1.50									
PERMANENT PASTURE	ACRES:	20	PUMP W	ATER:									
MACHNE FERTLIZE CORRUGATE	POWER UNIT 95 HP	TIMES OVER	RATE 0.05 0.21	TOTAL 0.05 0.21	CUSTOM								
CORRUGATE DITCHER (2X) IRRIGATE (11X)	95 HP 40 HP 40 HP	1.00 2.00 11.00	0.21 0.05 0.50	0.21 0.10 5.50									
CORN FOR SLAGE	ACRES:	20	PUMP W	ATER:									
MACHINE PLOW	POWER UNIT 95 HP	TMES OVER 1.00 2.00		TOTAL 0.67	CUSTOM								
PLOW DISC (ZX) HARROW FERTILEE CORRUGATE PRE-PREGATE PLANTER CULTINATOR (ZX) BRRIGATE (SX)	95 HP 95 HP 95 HP 95 HP 40 HP 95 HP 40 HP	2.00 1.00 1.00 1.00 1.00 1.00 2.00 9.00	0.67 0.19 0.05 0.21 0.75 0.26 0.21	0.67 0.34 0.19 0.05 0.21 0.75 0.26 0.42 4.50									
SLAGE CHOPPER, PTO LOVO & HAUL	95 HP 40 HP	1.00	0.71 0.71	0.71 0.71									
	ANNUAL REI	PAIR COSTS A	S A PERCEN	T OF NEW V	PALUE			_					
Hours of Use 1 2			5										
9 0.00000 0.000000000000000000000000000	0.000520 0.000520 0.000500 0.000500 0.000370 0.000370 0.000360 0.000340 0.000320 0.000320 0.000320	0.0000000 0.0000000 0.0000000 0.0000000 0.000000	0.000080 0.000080 0.000180 0.000180 0.000280 0.000280 0.000280 0.000280 0.000280 0.000280 0.000280 0.000280 0.000280 0.000280 0.000280 0.000280 0.000280 0.000280			0.000240	0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000	000000000000000000000000000000000000000					
* Based on u	rpublished data Engineering, igricultural Mac	of D. R. Hunt, University of III hinery Data" in	Department of Inois.	of Agricultural				-					
Codes 1 Inschus 2 Index, com 3 Interplace, in 4 Inschus, use but shape 5 Indexplace (for discharge) 6 of note, codes 7 Inter support 9 Institute of the state of	bines, forage ha	ervesters, wind d plows, chisel	rowers, pickuj s, field cultive	ps lors									
7 baler wi eng 5 planters, dri 9 fertilizer disi	,-e, manure sp lis, seeding equipm ributing equipm	wader ipment, mount ent	ed sprayers										

TABLE 5. Alfalfa establishment, flood-irrigated, budgeted per acre costs and returns for an 80 acre farm, San Juan County, Projected 2018
Planting dates: April 15 - June 1

ITEM	PRICE		YIELD							TOTAL
GROSS RETURNS OAT HAY GRAZING	###### \$10.00		2.25 T 1.00 A		TACKED)					\$360.00 \$10.00
TOTAL									-	\$370.00
PURCHASED INPUTS	PRICE		QUANTIT	·Y	PURCHASED INPUTS				FIXED COST	TOTAL
ALFALFA SEED OAT SEED PHOSPHATE (P2O5) WIRE CANAL WATER CANAL WATER (MAINTENANCE)	\$4.00 \$0.44 \$0.24 \$1.32			.BS .BS	\$80.00 \$19.80 \$10.80 \$25.45				\$122.00 \$8.00	\$80.00 \$19.80 \$10.80 \$25.45 \$122.00 \$8.00
SUBTOTAL				•	\$136.05				\$130.00	\$266.05
PREHARVEST OPERATIONS	POWER UNIT	А	ACCOMPLISH RATE	IMENT	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PLOW DISC (2X) HARROW FERTILIZE CORRUGATE DRILL DITCHER (2X) IRRIGATE (6X)	96 HP 96 HP 96 HP 96 HP 40 HP 96 HP 40 HP		0.67 F 0.34 F 0.19 F 0.05 F 0.21 F 0.21 F 0.10 F 3.00 F	HR HR HR HR HR HR		\$5.23 \$2.65 \$1.48 \$0.39 \$1.64 \$1.64 \$0.78 \$22.50	\$9.79 \$4.97 \$2.78 \$0.73 \$1.88 \$3.07 \$0.90	\$3.42 \$1.27 \$0.18 \$0.05 \$0.75 \$0.42 \$0.11	\$21.69 \$13.92 \$2.71 \$0.30 \$5.71 \$67.11 \$4.08	\$40.12 \$22.81 \$7.15 \$1.46 \$9.98 \$72.24 \$5.88 \$22.50
SUBTOTAL		_	4.77 H	łR		\$36.31	\$24.12	\$6.19	\$115.53	\$182.15
SWATHER BALER BALE WAGON SUBTOTAL	14 FT 96 HP 96 HP	_	0.16 H 0.21 H 0.20 H	IR IR		\$1.25 \$1.64 \$1.56	\$1.44 \$3.07 \$2.92	\$0.09 \$0.23 \$0.44	\$14.71 \$5.15 \$9.30	\$17.49 \$10.08 \$14.23
OVERHEAD EXPENSES DOWNTIME EMPLOYEE BENEFITS INSURANCE LAND TAXES SUPERVISION AND MANAGEMENT			2.16 F	HR	\$0.82	\$16.87 \$7.34 \$35.54			\$2.43	\$16.87 \$7.34 \$0.82 \$2.43 \$35.54
SUBTOTAL		_	2.16 H	łR	\$0.82	\$59.75			\$2.43	\$62.99
TOTAL OPERATING EXPENSES		_	7.50 H	łR	\$136.87	\$100.50	\$31.55	\$6.96	\$277.11	\$552.99
NET OPERATING PROFIT										(\$182.99)
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT		(\$76.29	@	5.50%)				\$4.20 \$57.05
RETURN TO LAND AND RISK										(\$244.24)

TABLE 6. Alfalfa hay, flood-irrigated, budgeted per acre costs and returns for an 80 acre farm, San Juan County, Projected 2018

ITEM	PRICE		YIEL	D						T
GROSS RETURNS										
ALFALFA HAY	\$185.00				STACKED)					\$92
GRAZING	\$10.00		2.00	AUM						\$20
TOTAL									-	\$94
					PURCHASED				FIXED	
PURCHASED INPUTS	PRICE		QUANT	ITY	INPUTS				COST	TC
PHOSPHATE (P2O5)	\$0.24		45	LBS	\$10.80					\$1
INSECTICIDE (AERIAL)	\$17.25			ACRE	\$17.25					\$1
WIRE	\$1.32			LBS	\$56.56					\$5
ESTABLISHMENT: Principal			6	YEARS					\$40.71	\$4
: Interest LIVESTOCK FAC & EQUIP									\$17.47 \$5.00	\$1 \$
CANAL WATER			60	AC. IN.					\$5.00 \$152.50	ֆ \$15
CANAL WATER (MAINTENANCE)				ACRE					\$8.00	\$15
SUBTOTAL					\$84.62				\$223.68	\$30
	POWER		ACCOMPLIS	SHMENT	PURCHASED		FUEL &		FIXED	
PREHARVEST OPERATIONS	UNIT		RAT		INPUTS	LABOR	LUBE	REPAIRS	COST	TO
FERTILIZE	96 HP		0.05	HD		\$0.39	\$0.73	\$0.05	\$0.30	\$
DITCHER (2X)	40 HP		0.03			\$0.78	\$0.73	\$0.03	\$4.08	\$
IRRIGATE (10X)			5.00			\$37.50	ψ0.00	Ψ0	ψσ	\$3
SUBTOTAL		-	5.15	ШΒ		\$38.67	\$1.63	\$0.16	\$4.38	\$4
			5.15	TIIX		ψ30.07	ψ1.03	ψ0.10	ψ4.50	Ψ
HARVEST OPERATIONS										
SWATHER (3X)	14 FT		0.48			\$3.74	\$4.31	\$0.28	\$44.14	\$5
BALER (3X)	96 HP 96 HP		0.63 0.60			\$4.91	\$9.21 \$9.77	\$0.69	\$15.44	\$3
BALE WAGON (3X)	90 HP		0.60	лк		\$4.68	\$8.77	\$1.33	\$27.90	\$42
SUBTOTAL		-	1.71	HR		\$13.34	\$22.29	\$2.30	\$87.48	\$12
OVERHEAD EXPENSES										
DOWNTIME			0.44	HR		\$3.43				\$
EMPLOYEE BENEFITS						\$9.36				\$
INSURANCE					\$1.04					\$
LAND TAXES						670.00			\$2.43	\$
SUPERVISION AND MANAGEMENT OTHER EXPENSES					\$266.22	\$72.03				\$7: \$26
SUBTOTAL		•	0.44	HR	\$267.26	\$84.82			\$2.43	\$354
TOTAL OPERATING EXPENSES		•	7.30	HR	\$351.88	\$136.83	\$23.92	\$2.46	\$317.97	\$83
NET OPERATING PROFIT										\$11
INTEREST ON OPERATING CAPITAL		(\$44.80	@	5.50%)				\$
INTEREST ON EQUIPMENT INVESTMENT	I									\$4
RETURN TO LAND AND RISK										\$6
		BUDGET	SUMMARY							
GROSS RETURN			\$945.00							
VARIABLE OPERATING EXPENSES		\$378.26								
RETURN OVER VARIABLE EXPENSES			\$566.74	(GROS	SS MARGIN)					
FIXED EXPENSES NET FARM INCOME		\$317.97	\$248.77	(DETII	RN TO CAPITAL, L	AROR LAND) & DISK)			
LABOR AND MANAGEMENT COST		\$136.83	φ240.//	(NETU	INITIO CAFITAL, L	ADON, LAINI	a RION)			
NET OPERATING PROFIT		,	\$111.94	(RETU	RN TO CAPITAL, L	AND & RISK)			
CAPITAL COSTS		\$50.58			•					
RETURN TO LAND AND RISK			\$61.35							

TABLE 7. Permanent pasture establishment, flood-irrigated, budgeted per acre costs and returns for an 80 acre farm, San Juan County, Projected 2018
Planting dates: August 15 - September 15

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
SEED NITROGEN (N) PHOSPHATE (P205) CANAL WATER CANAL WATER (MAINTENANCE)	\$3.25 \$0.31 \$0.24	14 LBS 20 LBS 50 LBS 21 AC. IN.	\$45.50 \$6.20 \$12.00				\$53.38 \$8.00	\$45.50 \$6.20 \$12.00 \$53.38 \$8.00
SUBTOTAL			\$63.70				\$53.38	\$117.08
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PLOW DISC (2X) HARROW FERTILIZE CORRUGATE DRILL DITCHER (2X) IRRIGATE (3X)	96 HP 96 HP 96 HP 96 HP 40 HP 96 HP 40 HP	0.67 HR 0.34 HR 0.19 HR 0.05 HR 0.21 HR 0.21 HR 0.10 HR 1.50 HR		\$5.23 \$2.65 \$1.48 \$0.39 \$1.64 \$1.64 \$0.78 \$11.25	\$9.79 \$4.97 \$2.78 \$0.73 \$1.88 \$3.07 \$0.90	\$3.42 \$1.27 \$0.18 \$0.05 \$0.75 \$0.42 \$0.11	\$21.69 \$13.92 \$2.71 \$0.30 \$5.71 \$67.11 \$4.08	\$40.12 \$22.81 \$7.15 \$1.46 \$9.98 \$72.24 \$5.88 \$11.25
SUBTOTAL		3.27 HR		\$25.06	\$24.12	\$6.19	\$115.53	\$170.90
OVERHEAD EXPENSES DOWNTIME EMPLOYEE BENEFITS INSURANCE SUPERVISION AND MANAGEMENT		0.44 HR	\$0.50	\$3.45 \$4.51 \$22.54				\$3.45 \$4.51 \$0.50 \$22.54
SUBTOTAL		0.44 HR	\$0.50	\$30.50				\$31.01
TOTAL OPERATING EXPENSES		3.71 HR	\$64.20	\$55.56	\$24.12	\$6.19	\$168.90	\$318.98

TABLE 8. Permanent pasture, flood-irrigated, budgeted per acre costs and returns for an 80 acre farm, San Juan County,
Projected 2018

Projected 2018 Harvesting dates: Year Round										
ITEM	PRICE		YIELI)						TOTAL
GROSS RETURNS PASTURE	\$12.00		12.00	AUMS						\$144.00
TOTAL									-	\$144.00
PURCHASED INPUTS	PRICE		QUANT	ITY	PURCHASED INPUTS				FIXED COST	TOTAL
NITROGEN (N) LIVESTOCK FAC & EQUIP ESTABLISHMENT: Principal : Interest CANAL WATER	\$0.31		100 15		\$31.00				\$5.00 \$21.27 \$4.95 \$157.58	\$31.00 \$5.00 \$21.27 \$4.95 \$157.58
CANAL WATER (MAINTENANCE)				ACRE					\$8.00	\$8.00
SUBTOTAL					\$31.00				\$196.79	\$227.79
PREHARVEST OPERATIONS	POWER UNIT		ACCOMPLIS RATE		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
FERTILIZE CORRUGATE DITCHER (2X) IRRIGATE (11X)	96 HP 40 HP 40 HP		0.05 0.21 0.10 5.50	HR HR		\$0.39 \$1.64 \$0.78 \$41.25	\$0.73 \$1.88 \$0.90	\$0.05 \$0.75 \$0.11	\$0.30 \$5.71 \$4.08	\$1.46 \$9.98 \$5.88 \$41.25
SUBTOTAL		-	5.86	HR		\$44.06	\$3.51	\$0.91	\$10.09	\$58.57
OVERHEAD EXPENSES										
DOWNTIME EMPLOYEE BENEFITS INSURANCE LAND TAXES SUPERVISION AND MANAGEMENT OTHER EXPENSES			0.09	HR	\$0.88 \$266.22	\$0.70 \$7.93 \$15.76			\$2.43	\$0.70 \$7.93 \$0.88 \$2.43 \$15.76 \$266.22
SUBTOTAL		-	0.09	HR	\$267.11	\$24.39			\$2.43	\$293.93
TOTAL OPERATING EXPENSES		-	5.95	HR	\$298.11	\$68.45	\$3.51	\$0.91	\$209.32	\$580.29
NET OPERATING PROFIT										(\$436.29)
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT		(\$16.61	@	5.50%)				\$0.91 \$6.58
RETURN TO LAND AND RISK										(\$443.78)
		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		\$302.53 \$209.32 \$68.45 \$7.49	\$144.00 (\$158.53) (\$367.84) (\$436.29) (\$443.78)	(RETUR	S MARGIN) RN TO CAPITAL, L RN TO CAPITAL, L		•			

TABLE 9. Corn for silage, flood-irrigated, budgeted per acre costs and returns for an 80 acre farm, San Juan County, Projected 2018
Planting dates: May 1 - May 20
Harvesting dates: September 1 - September 30

Harvesting dates: September	r 1 - Septembe	r 30								
ITEM	PRICE		YIEL	.D						TOTAL
GROSS RETURNS CORN SILAGE	\$32.00		21.00	TONS (H	IAULED)					\$672.00
TOTAL									-	\$672.00
PURCHASED INPUTS	PRICE		QUANT	ΓΙΤΥ	PURCHASED INPUTS				FIXED COST	TOTAL
SEED ANHYDROUS AMMONIA (NH3) HERBICIDE CANAL WATER CANAL WATER (MAINTENANCE)	\$3.00 \$0.21 \$16.00		225 1 48	000 LBS ACRE AC. IN. ACRE	\$90.00 \$47.25 \$16.00				\$122.00 \$8.00	\$90.00 \$47.25 \$16.00 \$122.00 \$8.00
SUBTOTAL					\$153.25				\$130.00	\$283.25
PREHARVEST OPERATIONS	POWER UNIT		ACCOMPLIS RAT		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
	00.110		0.07	ш		6 5.00	£0.70	f0.40	CO4 CO	£40.40
PLOW DISC (2X) HARROW FERTILIZE CORRUGATE PRE-IRRIGATE	96 HP 96 HP 96 HP 96 HP 40 HP		0.67 0.34 0.19 0.05 0.21 0.75	HR HR HR HR		\$5.23 \$2.65 \$1.48 \$0.39 \$1.64 \$5.63	\$9.79 \$4.97 \$2.78 \$0.73 \$1.88	\$3.42 \$1.27 \$0.18 \$0.05 \$0.75	\$21.69 \$13.92 \$2.71 \$0.30 \$5.71	\$40.12 \$22.81 \$7.15 \$1.46 \$9.98 \$5.63
PLANTER	96 HP		0.75			\$2.03	\$3.80	\$0.67	\$37.17	\$43.66
CULTIVATOR (2X) IRRIGATE (9X)	40 HP		0.42 4.50			\$3.28 \$33.75	\$3.77	\$1.49	\$11.43	\$19.97 \$33.75
SUBTOTAL			7.39	HR		\$56.07	\$27.72	\$7.83	\$92.92	\$184.54
HARVEST OPERATIONS										
SILAGE CHOPPER, PTO LOAD & HAUL	96 HP 40 HP		0.71 0.71			\$5.54 \$5.54	\$10.38 \$6.37	\$0.93 \$1.20	\$54.61 \$29.30	\$71.45 \$42.42
SUBTOTAL			1.42	HR		\$11.08	\$16.75	\$2.13	\$83.91	\$113.87
OVERHEAD EXPENSES										
DOWNTIME EMPLOYEE BENEFITS INSURANCE LAND TAXES SUPERVISION AND MANAGEMENT			0.89	HR	\$1.34	\$6.94 \$12.09 \$53.32			\$2.43	\$6.94 \$12.09 \$1.34 \$2.43 \$53.32
OTHER EXPENSES					\$266.22	,				\$266.22
SUBTOTAL			0.89	HR	\$267.57	\$72.35			\$2.43	\$342.34
TOTAL OPERATING EXPENSES			9.70	HR	\$420.82	\$139.49	\$44.47	\$9.96	\$309.26	\$924.00
NET OPERATING PROFIT										(\$252.00)
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTM	ENT	(\$87.09	@	5.50%)				\$4.79 \$87.68
RETURN TO LAND AND RISK										(\$344.47)
		BUDGET	SUMMARY							
GROSS RETURN VARIABLE OPERATING EXPENSES RETURN OVER VARIABLE EXPENSES FIXED EXPENSES		\$475.25 \$309.26	\$672.00 \$196.75	(GROS	S MARGIN)					
NET FARM INCOME LABOR AND MANAGEMENT COST		\$139.49	(\$112.51)	(RETU	RN TO CAPITAL, L	ABOR, LANI	O & RISK)			
NET OPERATING PROFIT CAPITAL COSTS		\$92.47	(\$252.00)	(RETU	RN TO CAPITAL, L	AND & RISK)			
RETURN TO LAND AND RISK			(\$344.47)						_	

TABLE 10. Summary of per acre costs and returns for an 80 acre farm, San Juan County, Projected 2018

	ALFALFA ESTABLISHMENT	ALFALFA HAY	ANNUAL PASTURE ESTABLISHMENT	ANNUAL PASTURE	CORN FOR SILAGE
	TONS	TONS		AUMS	TONS
PRIMARY YIELD	2.25	5.00		12.00	21.00
PRIMARY PRICE	\$160.00	\$185.00		\$12.00	\$32.00
GOVERNMENT PAYMENTS	\$0.00	\$0.00		\$0.00	\$0.00
SECOND INCOME	\$10.00	\$20.00		\$0.00	\$0.00
GROSS RETURN	\$370.00	\$945.00		\$144.00	\$672.00
CASH OPERATING EXPENSES					
SEED	\$99.80		\$45.50		\$90.00
FERTILIZER	\$10.80	\$10.80	\$18.20	\$31.00	\$47.25
CHEMICALS		\$17.25			\$16.00
CROP INSURANCE	005.45	# 50.50	# 0.00	# 0.00	# 0.00
OTHER PURCHASED INPUTS CANAL WATER	\$25.45	\$56.56	\$0.00	\$0.00	\$0.00
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$31.55	\$23.92	\$24.12	\$3.51	\$44.47
FUEL-IRRIGATION	ψ51.55	Ψ23.92	Ψ24.12	ψ3.51	ψ44.47
REPAIRS	\$6.96	\$2.46	\$6.19	\$0.91	\$9.96
CUSTOM CHARGES	φοισσ	Q2	ψοο	Ψ0.0.	ψ0.00
LAND TAXES	\$2.43	\$2.43		\$2.43	\$2.43
OTHER EXPENSES	\$0.82	\$267.26	\$0.50	\$267.11	\$267.57
TOTAL CASH EXPENSES	\$177.81	\$380.69	\$94.52	\$304.95	\$477.68
RETURN OVER CASH EXPENSES	\$192.19	\$564.31	(\$94.52)	(\$160.95)	\$194.32
FIXED EXPENSES	\$274.69	\$315.54	\$168.90	\$206.89	\$306.83
TOTAL EXPENSES	\$452.50	\$696.23	\$263.42	\$511.84	\$784.51
NET FARM INCOME	(\$82.50)	\$248.77	(\$263.42)	(\$367.84)	(\$112.51)
LABOR AND MANAGEMENT COSTS	\$100.50	\$136.83	\$55.56	\$68.45	\$139.49
NET OPERATING PROFIT	(\$182.99)	\$111.94	(\$318.98)	(\$436.29)	(\$252.00)
CAPITAL COSTS					
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT	\$4.20 \$57.05	\$2.46 \$48.12		\$0.91 \$6.58	\$4.79 \$87.68
TOTAL CAPITAL COSTS	\$61.25	\$50.58	\$0.00	\$7.49	\$92.47
RETURN TO LAND AND RISK	(\$244.24)	\$61.35	(\$318.98)	(\$443.78)	(\$344.47)

TABLE 11. Whole farm summary, San Juan County, Projected 2018

Projected 2018	3			
GROSS RETURNS				
OAT HAY	6.00 ACRES			
CROP		\$2,160		
GRAZING	04.00 4.0050	\$60		
ALFALFA HAY CROP	34.00 ACRES	\$31,450		
GRAZING		\$680		
PASTURE	20.00 ACRES	φοσο		
GRAZING		\$2,880		
CORN FOR SILAGE	20.00 ACRES			
CROP		\$13,440		
GROSS RETURN			-	\$50,670
CASH OPERATING EXPE SEED	NSES	\$2,444		
FERTILIZER		\$2,444 \$2,015		
CHEMICALS		\$907		
CROP INSURANCE		\$0		
OTHER PURCHASED I	NPUTS	\$2,076		
CANAL WATER		\$0		
FUEL, OIL & LUBRICAI	NTS-EQUIPMENT	\$1,986		
FUEL-IRRIGATION REPAIRS		\$0 \$349		
CUSTOM CHARGES		\$0 \$0		
LAND TAXES		\$194		
OTHER EXPENSES		\$19,786		
TOTAL CASH	EXPENSES	-	\$29,758	
RETURN OVER CASH EX	PENSES			\$20,912
FIXED EXPENSES		\$21,010		
TOTAL EXPE	NSES		\$50,768	
NET FARM INCOME				(\$98)
LABOR AND MANAGEME	NT COSTS	\$9,470		
NET OPERATING PROFIT		+3,		(\$ 0.569\
NET OF LIVATING FROFT				(\$9,568)
CAPITAL COSTS INTEREST ON OPERA INTEREST ON EQUIPM		\$223 \$3,863		
TOTAL CAPIT	AL COSTS	-	\$4,086	
RETURN TO LAND AND R	risk		-	(\$13,654)

	RETURN	RETURN ON
LAND VALUE	TO RISK*	INVESTMENT**
\$1,000 /ACRE	(\$16,054)	-7.07%
\$2,500 /ACRE	(\$19,654)	-3.75%
\$4,000 /ACRE	(\$23,254)	-2.55%
\$5,500 /ACRE	(\$26,854)	-1.93%
\$7,000 /ACRE	(\$30,454)	-1.55%
\$8,500 /ACRE	(\$34,054)	-1.30%

 $^{^{\}star}$ 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)