

MICROCOMPUTER CROP COST AND RETURN GENERATOR

BUDGET AREA..... SAN JUAN COUNTY, Projected 2010.
FARM SIZE..... 80.00 ACRES
IRRIGATION TYPE..... FLOOD
NUMBER OF CROPS..... 3

VERSION 1.0

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TABLE 1. Acreage Summary, San Juan County, Projected 2010.

BUDGET AREA..... SAN JUAN COUNTY			
FARM SIZE..... 80 ACRES			
IRRIGATION TYPE..... FLOOD			
NUMBER OF CROPS... 3			
WATER USE			
ACREAGE SUMMARY:	LAND USE (ACRES)	AC.IN. PER AC.	TOTAL AC.IN.
ALFALFA ESTABLISHMENT	6.00	48	288
ALFALFA	34.00	60	2,040
PASTURE ESTABLISHMENT	1.00 *	21	21
PASTURE	20.00	62	1,240
CORN SILAGE	20.00	48	960
TOTAL	80		4,549
ACRE FEET PER ACRE OF WATER RIGHTS			4.74

* DOUBLE-CROPPED

TABLE 2. Basic cost information for San Juan County, Projected 2010.

Item			
Labor Wage Rate:			
Equipment operators		\$/hour	\$7.55
General & Irrigators		\$/hour	\$7.25
Purchased Inputs:			
Fertilizer:			
Nitrogen (N)		\$/pound	\$0.58
Phosphate (P2O5)		\$/pound	\$0.51
Anhydrous Ammonia (NH3)		\$/ton	\$525.00
Seed:			
Alfalfa		\$/pound	\$3.75
Oats		\$/pound	\$0.32
Pasture		\$/pound	\$5.00
Corn		\$/bag	\$225.00
Wire		\$/pound	\$0.61
Canal Water		\$/acre foot	\$30.50
Energy:			
Diesel fuel		\$/gallon	\$2.80
Gasoline		\$/gallon	\$2.50
Natural Gas		\$/MCF	\$5.89
LP Gas		\$/gallon	\$2.40
Electricity		cents/KwHr	10.42
Employee Liability Insurance		\$/ \$1,000 wages	\$20.00
Employee Benefits		percent/wages	18.00%
Labor Downtime		percent	25.00%
Financial Rates:			
Operating Capital Interest Rate		percent	7.50%
Land Interest Rate		percent	7.00%
Equipment Interest Rate		percent	7.50%
Real Interest Rate		percent	3.00%
Land Taxes	\$253.00	/acre (full value)	\$2.22
Personal Property Tax Rate	- NR	\$/ \$1,000 (Assessed Value)	\$26.34
	- R		\$26.81
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 2010.

Item			
Electricity (Domestic & Shop)		\$123.90 per month	\$1,487
Telephone		\$82.60 per month	\$991
Accounting & Legal			\$525
Misc. Supplies & Hand Tools			\$885
Pickup and Auto			
miles	12,154	@ \$0.415 per mile	\$5,044
Insurance			
- general liability (non-employee)			\$1,097
- fire/theft			\$661
Property Taxes			
- non-planted land			\$0
- other than land & machinery			\$6,010
Building repairs and maintenance			\$549
Dues, fees, publications			\$271
Farmstead Equipment			\$177
Total			\$17,697
Total per planted acre			\$239.15

TABLE 4. Equipment summary for an 80 acre food-irrigated farm, San Juan County, Provoport 2015

EQUIPMENT ITEM & SIZE	ANNUAL HOURS OF USE	NUMBER	TOTAL VALUE	VARIABLE COSTS				FIXED COSTS		
				FUEL OIL LUBRICANT	REPAIR PER HR	FUEL OIL PER HR	REPAIR PER HR	DEPRECIATION	TAXES	TOTAL PER HR
TRACTOR 40 HP	39	1	\$6,544	\$361	\$42	\$9.35	\$1.08	\$360	\$79	\$11.37
TRACTOR 95 HP	102	1	\$15,980	\$1,547	\$211	\$15.22	\$2.07	\$1,192	\$163	\$12.20
SWATHER 14 FT	17	1	\$3,000	\$182	\$10	\$9.38	\$0.58	\$1,400	\$127	\$91.28
BALE WAGON 2 WIRE	23	1	\$1,000	\$53	\$5	\$9.15		\$395	\$34	\$18.47
DISC 12 FT	22	1	\$1,500	\$28	\$28	\$1.28		\$800	\$70	\$40.29
PLOW 3-14 IN	14	1	\$3,350	\$205	\$75	\$4.15		\$447	\$29	\$30.32
SILAGE CHOPPER PTO	14	1	\$8,200	\$5	\$2.27			\$920	\$81	\$70.48
UNLOADING WAGON 14 FT	1	1	\$1,000	\$0	\$0			\$588	\$14	\$29.40
DITCHER 6	1	1	\$2,500	\$5	\$0.01			\$107	\$11	\$5.31
HARROW 12 FT	5	1	\$700	\$0	\$0			\$40	\$3	\$8.31
DRILL 12 FT	1	1	\$2,200	\$2	\$1.08			\$440	\$19	\$312.46
PLANTER 4 ROW	5	1	\$4,400	\$8	\$1.63			\$660	\$30	\$136.51
CULTIVATOR 4 ROW	18	1	\$2,000	\$45	\$2.48			\$287	\$18	\$115.56
FERT SPREADER DEALER FURNISHED	4	1								
			\$63,424	\$2,629	\$424			\$7,791	\$108	

EQUIPMENT LIST

ITEM	NEW VALUE	USED LIFE	YEARS	EQUIP CODE	MAX LINTHR	FUEL COEF	LUBE COEF	ACCM HOURS	INTEREST AGE	INTEREST EXPENSE
TRACTOR 40 HP	17975.00	6544.00	50.00	1.00	800.00	3.40	0.10	578.55	15.00	874.96
TRACTOR 95 HP	34950.00	10980.00	30.00	1.00	800.00	5.54	0.10	2388.80	21.00	1726.83
SWATHER 14 FT	29000.00	3900.00	20.00	2.00	800.00	3.12	0.20	241.92	14.00	1087.50
BALE WAGON 2 WIRE	7700.00	1000.00	20.00	2.00	800.00			488.24	18.00	288.75
DISC 12 FT	4500.00	2250.00	15.00	3.00	300.00			137.05	6.00	600.00
PLOW 3-14 IN	7700.00	3350.00	15.00	3.00	300.00			289.44	16.00	168.75
SILAGE CHOPPER PTO	18400.00	5300.00	20.00	2.00	100.00			198.80	14.00	690.00
UNLOADING WAGON 14 FT	7700.00	3850.00	20.00	3.00	300.00			213.00	15.00	288.90
DITCHER 6	2500.00	1250.00	15.00	4.00	300.00			91.50	15.00	93.75
HARROW 12 FT	690.00	300.00	15.00	4.00	300.00			42.08	16.00	72.00
DRILL 12 FT	4400.00	2200.00	10.00	8.00	100.00			19.11	13.00	165.00
PLANTER 4 ROW	8800.00	3400.00	10.00	8.00	100.00			67.60	13.00	225.00
CULTIVATOR 4 ROW	4000.00	2000.00	15.00	3.00	300.00			292.32	16.00	150.00
FERT SPREADER DEALER FURNISHED					100.00			17.00		

USAGE LIST

ALFALFA EST.	ALFALFA HAY	PASTURE EST.	ANNUAL PASTURE	CORN PER ACRE	FOR PER ACRE TOTALS
0.31	0.10	0.31	0.31	1.34	2.37
1.87	1.28	1.46	0.92	2.22	6.88
0.16	0.48	0.00	0.00	0.00	0.64
0.21	0.20	0.00	0.00	0.00	0.41
0.20	0.00	0.00	0.00	0.00	0.20
0.34	0.00	0.34	0.00	0.34	1.02
0.47	0.00	0.47	0.00	0.47	1.41
0.00	0.00	0.00	0.00	0.71	0.71
0.00	0.00	0.00	0.00	0.71	0.71
0.10	0.10	0.10	0.10	0.10	0.40
0.10	0.00	0.10	0.10	0.10	0.47
0.21	0.00	0.21	0.00	0.20	0.42
0.00	0.00	0.00	0.00	0.00	0.28
0.21	0.00	0.21	0.21	0.63	1.26
0.06	0.00	0.06	0.06	0.06	0.25

INTEREST FORATION

QAT ALFALFA EST.	ANNUAL PASTURE	CORN FOR
8.42	1.76	0.42
23.85	16.32	0.64
10.59	16.21	0.00
2.67	8.22	0.00
5.56	16.67	0.00
6.25	0.00	0.00
9.31	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
1.54	1.54	0.00
0.83	0.83	0.00
23.50	0.00	0.00
0.00	0.00	0.00
1.72	0.00	0.00
0.00	0.00	0.00
90.18	74.50	6.32

ALFALFA ESTABLISHMENT

MACHINE	POWER UNIT	TIMES OVER	RATE	TOTAL	CUSTOM
PLOW	95 HP	1.00	0.67	0.67	
DISC (X)	95 HP	2.00	0.17	0.34	
HARROW	95 HP	1.00	0.19	0.19	
FERTILIZE	95 HP	1.00	0.26	0.26	
CORRIGATE	40 HP	1.00	0.21	0.21	
DRILL	95 HP	1.00	0.21	0.21	
DITCHER (X)	40 HP	2.00	0.05	0.10	
IRRIGATE (X)		6.00	0.50	3.00	
SWATHER	14 FT	1.00	0.16	0.16	
BALE WAGON	95 HP	1.00	0.20	0.20	
BALE WAGON	95 HP	1.00	0.20	0.20	

ALFALFA HAY

MACHINE	POWER UNIT	TIMES OVER	RATE	TOTAL	CUSTOM
FERTILIZE	95 HP	1.00	0.05	0.05	
DITCHER (X)	40 HP	2.00	0.05	0.10	
IRRIGATE (X)		10.00	0.50	5.00	
SWATHER (X)	14 FT	3.00	0.16	0.48	
BALE WAGON (X)	95 HP	3.00	0.21	0.63	
BALE WAGON (X)	95 HP	3.00	0.20	0.60	

PERMANENT PASTURE EST.

MACHINE	POWER UNIT	TIMES OVER	RATE	TOTAL	CUSTOM
PLOW	95 HP	1.00	0.67	0.67	
DISC (X)	95 HP	2.00	0.17	0.34	
HARROW	95 HP	1.00	0.19	0.19	
FERTILIZE	95 HP	1.00	0.26	0.26	
CORRIGATE	40 HP	1.00	0.21	0.21	
DRILL	95 HP	1.00	0.21	0.21	
DITCHER (X)	40 HP	2.00	0.05	0.10	
IRRIGATE (X)		3.00	0.50	1.50	

PERMANENT PASTURE

MACHINE	POWER UNIT	TIMES OVER	RATE	TOTAL	CUSTOM
FERTILIZE	95 HP	1.00	0.05	0.05	
CORRIGATE	40 HP	1.00	0.21	0.21	
DITCHER (X)	40 HP	2.00	0.05	0.10	
IRRIGATE (X)		10.00	0.50	5.00	

CORN FOR SILAGE

MACHINE	POWER UNIT	TIMES OVER	RATE	TOTAL	CUSTOM
PLOW	95 HP	1.00	0.67	0.67	
DISC (X)	95 HP	2.00	0.17	0.34	
HARROW	95 HP	1.00	0.19	0.19	
FERTILIZE	95 HP	1.00	0.26	0.26	
CORRIGATE	40 HP	1.00	0.21	0.21	
PRE IRRIGATE	1.00	0.73	0.73	0.73	
PLANTER	95 HP	1.00	0.26	0.26	
CULTIVATOR (X)	40 HP	2.00	0.21	0.42	
IRRIGATE (X)		9.00	0.50	4.50	
SILAGE CHOPPER, PTO	95 HP	1.00	0.71	0.71	
LOAD & HAY	40 HP	1.00	0.71	0.71	

ANNUAL REPAIR COSTS AS A PERCENT OF NEW VALUE

Hours of Use	1	2	3	4	5	6	7	8	9
0	0.00060	0.00020	0.00020	0.00020	0.00080	0.00140	0.00240	0.00240	0.00000
50	0.00060	0.00020	0.00020	0.00020	0.00080	0.00140	0.00240	0.00240	0.00000
100	0.00060	0.00020	0.00020	0.00020	0.00080	0.00140	0.00240	0.00240	0.00000
200	0.00030	0.00030	0.00040	0.00040	0.00160	0.00260	0.00110	0.00010	0.00000
300	0.00030	0.00030	0.00030	0.00030	0.00040	0.00040	0.00010	0.00010	0.00000
400	0.00030	0.00030	0.00030	0.00030	0.00030	0.00030	0.00010	0.00010	0.00000
500	0.00030	0.00030	0.00030	0.00030	0.00030	0.00030	0.00010	0.00010	0.00000
600	0.00030	0.00030	0.00040	0.00110	0.00110	0.00090	0.00110	0.00090	0.00000
700	0.00030	0.00130	0.00040	0.00130	0.00030	0.00040	0.00030	0.00030	0.00000
800	0.00030	0.00130	0.00030	0.00160	0.00030	0.00040	0.00020	0.00120	0.00000
900	0.00030	0.00130	0.00030	0.00160	0.00030	0.00040	0.00020	0.00120	0.00000
1000	0.00040	0.00170	0.00030	0.00220	0.00040	0.00040	0.00240	0.00120	0.00000
1200	0.00040	0.00170	0.00030	0.00220	0.00040	0.00040	0.00240	0.00120	0.00000
1400	0.00040	0.00170	0.00030	0.00220	0.00040	0.00040	0.00240	0.00120	0.00000
1600	0.00150	0.00170	0.00030	0.00220	0.00040	0.00040	0.00240	0.00120	0.00000
1800	0.00150	0.00170	0.00030	0.00220	0.00040	0.00040	0.00240	0.00120	0.00000
2000	0.00170	0.00170	0.00030	0.00220	0.00040	0.00040	0.00240	0.00120	0.00000
2200	0.00170	0.00170	0.00030	0.00220	0.00040	0.00040	0.00240	0.00120	0.00000
2400	0.00170	0.00170	0.00030	0.00220	0.00040	0.00040	0.00240	0.00120	0.00000
2600	0.00170	0.00170	0.00030	0.00220	0.00040	0.00040	0.00240	0.00120	0.00000
2800	0.00170	0.00170	0.00030	0.00220	0.00040	0.00040	0.00240	0.00120	0.00000
3000	0.00070								
3200	0.00070								
3400	0.00090								
3600	0.00090								
3800	0.00122								
4000	0.00122								
4200	0.00122								
4400	0.00148								
4600	0.00148								

TABLE 5. Alfalfa establishment, flood-irrigated, budgeted per acre costs and returns for an 80 acre farm, San Juan County, Projected 2010.
 Planting dates: April 15 - June 1
 Harvest dates: June 1 - July 31

ITEM	PRICE	YIELD						TOTAL	
GROSS RETURNS									
OAT HAY	#####	2.25 TONS (STACKED)						\$292.50	
GRAZING	\$10.00	1.00 AUM						\$10.00	
TOTAL							\$302.50		
PURCHASED INPUTS									
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL	
ALFALFA SEED	\$3.75	20 LBS	\$75.00					\$75.00	
OAT SEED	\$0.32	45 LBS	\$14.40					\$14.40	
PHOSPHATE (P2O5)	\$0.51	45 LBS	\$22.95					\$22.95	
WIRE	\$0.61	19 LBS	\$11.76					\$11.76	
CANAL WATER		48 AC. IN.					\$122.00	\$122.00	
CANAL WATER (MAINTENANCE)		1 ACRE					\$8.00	\$8.00	
SUBTOTAL			\$124.11				\$130.00	\$254.11	
PREHARVEST OPERATIONS									
PURCHASED INPUTS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
PLOW	96 HP	0.67 HR		\$5.06	\$10.20	\$4.17	\$26.23	\$45.66	
DISC (2X)	96 HP	0.34 HR		\$2.57	\$5.18	\$1.65	\$16.20	\$25.60	
HARROW	96 HP	0.19 HR		\$1.43	\$2.89	\$0.40	\$4.02	\$8.74	
FERTILIZE	96 HP	0.05 HR		\$0.38	\$0.76	\$0.10	\$0.64	\$1.88	
CORRUGATE	40 HP	0.21 HR		\$1.59	\$1.96	\$0.75	\$5.65	\$9.95	
DRILL	96 HP	0.21 HR		\$1.59	\$3.20	\$0.66	\$68.31	\$73.75	
DITCHER (2X)	40 HP	0.10 HR		\$0.76	\$0.94	\$0.11	\$4.05	\$5.85	
IRRIGATE (6X)		3.00 HR		\$21.75				\$21.75	
SUBTOTAL		4.77 HR		\$35.11	\$25.13	\$7.84	\$125.10	\$193.18	
HARVEST OPERATIONS									
SWATHER	14 FT	0.16 HR		\$1.21	\$1.50	\$0.09	\$14.60	\$17.40	
BALER	96 HP	0.21 HR		\$1.59	\$3.20	\$0.47	\$6.57	\$11.82	
BALE WAGON	96 HP	0.20 HR		\$1.51	\$3.04	\$0.67	\$10.62	\$15.85	
SUBTOTAL		0.57 HR		\$4.30	\$7.74	\$1.23	\$31.80	\$45.07	
OVERHEAD EXPENSES									
DOWNTIME		2.16 HR		\$16.33				\$16.33	
EMPLOYEE BENEFITS				\$7.10				\$7.10	
INSURANCE			\$0.79					\$0.79	
LAND TAXES							\$2.22	\$2.22	
SUPERVISION AND MANAGEMENT				\$35.48				\$35.48	
SUBTOTAL		2.16 HR	\$0.79	\$58.90				\$2.22	\$61.91
TOTAL OPERATING EXPENSES		7.50 HR	\$124.90	\$98.32	\$32.86	\$9.07	\$289.12	\$554.28	
NET OPERATING PROFIT							(\$251.78)		
INTEREST ON OPERATING CAPITAL		(\$71.05	@	7.50%)	\$5.33		
INTEREST ON EQUIPMENT INVESTMENT							\$90.78		
RETURN TO LAND AND RISK							(\$347.90)		

TABLE 6. Alfalfa hay, flood-irrigated, budgeted per acre costs and returns for an 80 acre farm, San Juan County, Projected 2010.
Harvesting dates: June 1 - October 15

ITEM	PRICE	YIELD						TOTAL
GROSS RETURNS								
ALFALFA HAY	\$140.00	5.00 TONS (STACKED)						\$700.00
GRAZING	\$10.00	2.00 AUM						\$20.00
TOTAL							\$720.00	
PURCHASED INPUTS								
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
PHOSPHATE (P2O5)	\$0.51	45 LBS	\$22.95					\$22.95
INSECTICIDE (AERIAL)	\$17.25	1 ACRE	\$17.25					\$17.25
WIRE	\$0.61	43 LBS	\$26.14					\$26.14
ESTABLISHMENT: Principal		6 YEARS				\$57.98		\$57.98
: Interest						\$29.54		\$29.54
LIVESTOCK FAC & EQUIP						\$5.00		\$5.00
CANAL WATER		60 AC. IN.				\$152.50		\$152.50
CANAL WATER (MAINTENANCE)		1 ACRE				\$8.00		\$8.00
SUBTOTAL			\$66.34			\$253.03		\$319.37
PREHARVEST OPERATIONS								
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
FERTILIZE	96 HP	0.05 HR		\$0.38	\$0.76	\$0.10	\$0.64	\$1.88
DITCHER (2X)	40 HP	0.10 HR		\$0.76	\$0.94	\$0.11	\$4.05	\$5.85
IRRIGATE (10X)		5.00 HR		\$36.25				\$36.25
SUBTOTAL		5.15 HR		\$37.38	\$1.70	\$0.22	\$4.69	\$43.99
HARVEST OPERATIONS								
SWATHER (3X)	14 FT	0.48 HR		\$3.62	\$4.49	\$0.28	\$43.81	\$52.21
BALER (3X)	96 HP	0.63 HR		\$4.76	\$9.59	\$1.40	\$19.72	\$35.47
BALE WAGON (3X)	96 HP	0.60 HR		\$4.53	\$9.13	\$2.01	\$31.87	\$47.55
SUBTOTAL		1.71 HR		\$12.91	\$23.22	\$3.69	\$95.40	\$135.22
OVERHEAD EXPENSES								
DOWNTIME		0.44 HR		\$3.32				\$3.32
EMPLOYEE BENEFITS				\$9.05				\$9.05
INSURANCE			\$1.01					\$1.01
LAND TAXES							\$2.22	\$2.22
SUPERVISION AND MANAGEMENT				\$56.28				\$56.28
OTHER EXPENSES			\$239.15					\$239.15
SUBTOTAL		0.44 HR	\$240.16	\$68.65			\$2.22	\$311.03
TOTAL OPERATING EXPENSES		7.30 HR	\$306.50	\$118.95	\$24.91	\$3.91	\$355.34	\$809.61
NET OPERATING PROFIT								(\$89.61)
INTEREST ON OPERATING CAPITAL		(\$35.89	@	7.50%)		\$2.69
INTEREST ON EQUIPMENT INVESTMENT								\$74.50
RETURN TO LAND AND RISK								(\$166.81)

BUDGET SUMMARY

GROSS RETURN		\$720.00	
VARIABLE OPERATING EXPENSES	\$335.33		
RETURN OVER VARIABLE EXPENSES	\$384.67	(GROSS MARGIN)	
FIXED EXPENSES	\$355.34		
NET FARM INCOME	\$29.34	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$118.95		
NET OPERATING PROFIT	(\$89.61)	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$77.20		
RETURN TO LAND AND RISK		(\$166.81)	

TABLE 7. Permanent pasture establishment, flood-irrigated, budgeted per acre costs and returns for an 80 acre farm, San Juan County, Projected 2010.
Planting dates: August 15 - September 15

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$5.00	14 LBS	\$70.00		\$70.00
NITROGEN (N)	\$0.58	20 LBS	\$11.60		\$11.60
PHOSPHATE (P205)	\$0.51	50 LBS	\$25.50		\$25.50
CANAL WATER		21 AC. IN.		\$53.38	\$53.38
CANAL WATER (MAINTENANCE)				\$8.00	\$8.00
SUBTOTAL			\$107.10	\$53.38	\$160.48

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PLOW	96 HP	0.67 HR		\$5.06	\$10.20	\$4.17	\$26.23	\$45.66
DISC (2X)	96 HP	0.34 HR		\$2.57	\$5.18	\$1.65	\$16.20	\$25.60
HARROW	96 HP	0.19 HR		\$1.43	\$2.89	\$0.40	\$4.02	\$8.74
FERTILIZE	96 HP	0.05 HR		\$0.38	\$0.76	\$0.10	\$0.64	\$1.88
CORRUGATE	40 HP	0.21 HR		\$1.59	\$1.96	\$0.75	\$5.65	\$9.95
DRILL	96 HP	0.21 HR		\$1.59	\$3.20	\$0.66	\$68.31	\$73.75
DITCHER (2X)	40 HP	0.10 HR		\$0.76	\$0.94	\$0.11	\$4.05	\$5.85
IRRIGATE (3X)		1.50 HR		\$10.88				\$10.88
SUBTOTAL		3.27 HR		\$24.24	\$25.13	\$7.84	\$125.10	\$182.31

OVERHEAD EXPENSES	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FIXED COST	TOTAL
DOWNTIME	0.44 HR		\$3.34		\$3.34
EMPLOYEE BENEFITS			\$4.36		\$4.36
INSURANCE		\$0.48			\$0.48
SUPERVISION AND MANAGEMENT			\$26.38		\$26.38
SUBTOTAL	0.44 HR	\$0.48	\$34.08		\$34.57

TOTAL OPERATING EXPENSES	3.71 HR	\$107.58	\$58.32	\$25.13	\$7.84	\$178.48	\$377.35
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TABLE 8. Permanent pasture, flood-irrigated, budgeted per acre costs and returns for an 80 acre farm, San Juan County, Projected 2010.
Harvesting dates: Year Round

ITEM	PRICE	YIELD	TOTAL
GROSS RETURNS			
PASTURE	\$12.00	12.00 AUMS	\$144.00
TOTAL			\$144.00

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
NITROGEN (N)	\$0.58	100 LBS	\$58.00		\$58.00
LIVESTOCK FAC & EQUIP				\$5.00	\$5.00
ESTABLISHMENT: Principal		15 YEARS		\$25.16	\$25.16
: Interest				\$9.27	\$9.27
CANAL WATER		62 AC. IN.		\$157.58	\$157.58
CANAL WATER (MAINTENANCE)		1 ACRE		\$8.00	\$8.00
SUBTOTAL			\$58.00	\$205.01	\$263.01

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
FERTILIZE	96 HP	0.05 HR		\$0.38	\$0.76	\$0.10	\$0.64	\$1.88
CORRUGATE	40 HP	0.21 HR		\$1.59	\$1.96	\$0.75	\$5.65	\$9.95
DITCHER (2X)	40 HP	0.10 HR		\$0.76	\$0.94	\$0.11	\$4.05	\$5.85
IRRIGATE (11X)		5.50 HR		\$39.88				\$39.88
SUBTOTAL		5.86 HR		\$42.59	\$3.66	\$0.96	\$10.34	\$57.56

OVERHEAD EXPENSES

DOWNTIME		0.09 HR		\$0.68				\$0.68
EMPLOYEE BENEFITS				\$7.67				\$7.67
INSURANCE			\$0.85					\$0.85
LAND TAXES						\$2.22		\$2.22
SUPERVISION AND MANAGEMENT				\$15.76				\$15.76
OTHER EXPENSES			\$239.15					\$239.15
SUBTOTAL		0.09 HR	\$240.00	\$24.11		\$2.22		\$266.33

TOTAL OPERATING EXPENSES		5.95 HR	\$298.00	\$66.70	\$3.66	\$0.96	\$217.58	\$586.90
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NET OPERATING PROFIT								(\$442.90)
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INTEREST ON OPERATING CAPITAL	(\$30.16	@	7.50%)			\$2.26
INTEREST ON EQUIPMENT INVESTMENT								\$9.32

RETURN TO LAND AND RISK								(\$454.48)
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BUDGET SUMMARY

GROSS RETURN		\$144.00		
VARIABLE OPERATING EXPENSES	\$302.63			
RETURN OVER VARIABLE EXPENSES		(\$158.63)	(GROSS MARGIN)	
FIXED EXPENSES	\$217.58			
NET FARM INCOME		(\$376.21)	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$66.70			
NET OPERATING PROFIT		(\$442.90)	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$11.58			
RETURN TO LAND AND RISK		(\$454.48)		

TABLE 9. Corn for silage, flood-irrigated, budgeted per acre costs and returns for an 80 acre farm, San Juan County, Projected 2010.
 Planting dates: May 1 - May 20
 Harvesting dates: September 1 - September 30

ITEM	PRICE	YIELD	TOTAL
GROSS RETURNS			
CORN SILAGE	\$32.00	21.00 TONS (HAULED)	\$672.00
TOTAL			\$672.00

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$2.81	30 000	\$84.38		\$84.38
ANHYDROUS AMMONIA (NH3)	\$0.26	225 LBS	\$59.06		\$59.06
HERBICIDE	\$16.00	1 ACRE	\$16.00		\$16.00
CANAL WATER		48 AC. IN.		\$122.00	\$122.00
CANAL WATER (MAINTENANCE)		1 ACRE		\$8.00	\$8.00
SUBTOTAL			\$159.44	\$130.00	\$289.44

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PLOW	96 HP	0.67 HR		\$5.06	\$10.20	\$4.17	\$26.23	\$45.66
DISC (2X)	96 HP	0.34 HR		\$2.57	\$5.18	\$1.65	\$16.20	\$25.60
HARROW	96 HP	0.19 HR		\$1.43	\$2.89	\$0.40	\$4.02	\$8.74
FERTILIZE	96 HP	0.05 HR		\$0.38	\$0.76	\$0.10	\$0.64	\$1.88
CORRUGATE	40 HP	0.21 HR		\$1.59	\$1.96	\$0.75	\$5.65	\$9.95
PRE-IRRIGATE		0.75 HR		\$5.44				\$5.44
PLANTER	96 HP	0.26 HR		\$1.96	\$3.96	\$0.96	\$38.83	\$45.71
CULTIVATOR (2X)	40 HP	0.42 HR		\$3.17	\$3.93	\$1.49	\$11.31	\$19.90
IRRIGATE (9X)		4.50 HR		\$32.63				\$32.63
SUBTOTAL		7.39 HR		\$54.22	\$28.88	\$9.53	\$102.88	\$195.51

HARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
SILAGE CHOPPER, PTO	96 HP	0.71 HR		\$5.36	\$10.81	\$1.73	\$59.15	\$77.05
LOAD & HAUL	40 HP	0.71 HR		\$5.36	\$6.64	\$1.20	\$29.01	\$42.21
SUBTOTAL		1.42 HR		\$10.72	\$17.45	\$2.94	\$88.16	\$119.26

OVERHEAD EXPENSES	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME	0.89 HR		\$6.72				\$6.72
EMPLOYEE BENEFITS			\$11.69				\$11.69
INSURANCE		\$1.30					\$1.30
LAND TAXES						\$2.22	\$2.22
SUPERVISION AND MANAGEMENT			\$53.32				\$53.32
OTHER EXPENSES		\$239.15					\$239.15
SUBTOTAL	0.89 HR	\$240.45	\$71.73			\$2.22	\$314.40

TOTAL OPERATING EXPENSES	9.70 HR	\$399.89	\$136.67	\$46.33	\$12.47	\$323.26	\$918.61
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NET OPERATING PROFIT							(\$246.61)
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INTEREST ON OPERATING CAPITAL	(\$91.02	@	7.50%)		\$6.83
INTEREST ON EQUIPMENT INVESTMENT							\$134.98

RETURN TO LAND AND RISK							(\$388.41)
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BUDGET SUMMARY			
GROSS RETURN		\$672.00	
VARIABLE OPERATING EXPENSES	\$458.68		
RETURN OVER VARIABLE EXPENSES	\$213.32		(GROSS MARGIN)
FIXED EXPENSES	\$323.26		
NET FARM INCOME		(\$109.94)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$136.67		
NET OPERATING PROFIT		(\$246.61)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$141.80		
RETURN TO LAND AND RISK		(\$388.41)	

TABLE 10. Summary of per acre costs and returns for an 80 acre farm, San Juan County,
Projected 2010.

	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	\$130.00	\$140.00		\$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	\$302.50	\$720.00		\$144.00	\$672.00
CASH OPERATING EXPENSES					
SEED	\$89.40		\$70.00		\$84.38
FERTILIZER	\$22.95	\$22.95	\$37.10	\$58.00	\$59.06
CHEMICALS		\$17.25			\$16.00
CROP INSURANCE					
OTHER PURCHASED INPUTS	\$11.76	\$26.14	\$0.00	\$0.00	\$0.00
CANAL WATER					
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$32.86	\$24.91	\$25.13	\$3.66	\$46.33
FUEL-IRRIGATION					
REPAIRS	\$9.07	\$3.91	\$7.84	\$0.96	\$12.47
CUSTOM CHARGES					
LAND TAXES	\$2.22	\$2.22		\$2.22	\$2.22
OTHER EXPENSES	\$0.79	\$240.16	\$0.48	\$240.00	\$240.45
TOTAL CASH EXPENSES	\$169.06	\$337.55	\$140.55	\$304.85	\$460.90
RETURN OVER CASH EXPENSES	\$133.44	\$382.45	(\$140.55)	(\$160.85)	\$211.10
FIXED EXPENSES	\$286.90	\$353.12	\$178.48	\$215.36	\$321.04
TOTAL EXPENSES	\$455.96	\$690.66	\$319.03	\$520.21	\$781.94
NET FARM INCOME	(\$153.46)	\$29.34	(\$319.03)	(\$376.21)	(\$109.94)
LABOR AND MANAGEMENT COSTS	\$98.32	\$118.95	\$58.32	\$66.70	\$136.67
NET OPERATING PROFIT	(\$251.78)	(\$89.61)	(\$377.35)	(\$442.90)	(\$246.61)
CAPITAL COSTS					
INTEREST ON OPERATING CAPITAL	\$5.33	\$2.69		\$2.26	\$6.83
INTEREST ON EQUIPMENT INVESTMENT	\$90.78	\$74.50		\$9.32	\$134.98
TOTAL CAPITAL COSTS	\$96.11	\$77.20	\$0.00	\$11.58	\$141.80
RETURN TO LAND AND RISK	(\$347.90)	(\$166.81)	(\$377.35)	(\$454.48)	(\$388.41)

TABLE 11. Whole farm summary, San Juan County,
Projected 2010.

GROSS RETURNS		
OAT HAY	6.00 ACRES	
CROP		\$1,755
GRAZING		\$60
ALFALFA HAY	34.00 ACRES	
CROP		\$23,800
GRAZING		\$680
PASTURE	20.00 ACRES	
GRAZING		\$2,880
CORN FOR SILAGE	20.00 ACRES	
CROP		\$13,440
GROSS RETURN		<u>\$42,615</u>
CASH OPERATING EXPENSES		
SEED		\$2,294
FERTILIZER		\$3,296
CHEMICALS		\$907
CROP INSURANCE		\$0
OTHER PURCHASED INPUTS		\$959
CANAL WATER		\$0
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$2,069
FUEL-IRRIGATION		\$0
REPAIRS		\$464
CUSTOM CHARGES		\$0
LAND TAXES		\$178
OTHER EXPENSES		\$17,780
TOTAL CASH EXPENSES		<u>\$27,947</u>
RETURN OVER CASH EXPENSES		\$14,668
FIXED EXPENSES		\$22,159
TOTAL EXPENSES		\$50,106
NET FARM INCOME		(\$7,491)
LABOR AND MANAGEMENT COSTS		\$8,760
NET OPERATING PROFIT		(\$16,251)
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$305
INTEREST ON EQUIPMENT INVESTMENT		\$5,964
TOTAL CAPITAL COSTS		<u>\$6,269</u>
RETURN TO LAND AND RISK		<u>(\$22,520)</u>

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$1,000 /ACRE	(\$24,920)	-12.18%
\$2,500 /ACRE	(\$28,520)	-6.41%
\$4,000 /ACRE	(\$32,120)	-4.35%
\$5,500 /ACRE	(\$35,720)	-3.29%
\$7,000 /ACRE	(\$39,320)	-2.65%
\$8,500 /ACRE	(\$42,920)	-2.22%

* 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)