

MICROCOMPUTER CROP COST AND RETURN GENERATOR

BUDGET AREA..... SAN JUAN COUNTY Projected 2010.  
FARM SIZE..... 80.00 ACRES  
IRRIGATION TYPE..... SPRINKLER  
NUMBER OF CROPS..... 1

VERSION 1.0

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

BUDGET AREA.....	SAN JUAN COUNTY, 2002.		
FARM SIZE.....	80 ACRES		
IRRIGATION TYPE.....	SPRINKLER		
NUMBER OF CROPS...	1		
	<u>WATER USE</u>		
ACREAGE SUMMARY:	LAND USE (ACRES)	AC.IN. PER AC.	TOTAL AC.IN.
ALFALFA ESTABLISHMENT	11.00	39	429
ALFALFA	69.00	46	3,174
TOTAL	80.00		3,603
ACRE FEET PER ACRE OF WATER RIGHTS			3.75

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

Item			
<b>Labor Wage Rate:</b>			
Equipment operators		\$/hour	\$7.55
General & Irrigators		\$/hour	\$7.25
<b>Purchased Inputs:</b>			
<b>Fertilizer:</b>			
Phosphate (P205)		\$/pound	\$0.51
<b>Seed:</b>			
Alfalfa		\$/pound	\$3.75
Oats		\$/pound	\$0.32
Wire		\$/pound	\$0.61
Canal Water		\$/acre foot	\$30.50
<b>Energy:</b>			
Diesel fuel		\$/gallon	\$2.80
Gasoline		\$/gallon	\$2.50
Electricity		cents/KwHr	10.42
LP Gas		\$/gallon	\$2.40
Natural Gas		\$/MCF	\$5.89
(service charge)		\$/month	\$10.00
Employee Liability Insurance		\$/ \$1,000 wages	\$20.00
Employee Benefits		percent/wages	18.00%
Labor Downtime		percent	25.00%
<b>Financial Rates:</b>			
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 - R	\$/ \$1,000 (Assessed Value)	\$26.34 \$26.81
<b>Supervision Factors</b>			
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		\$88.50 per month	\$1,062
Accounting & Legal			\$525
Misc. Supplies & Hand Tools			\$885
Pickup and Auto			
miles	12,154	@ \$0.415 per mile	\$5,044
<b>Insurance</b>			
- general liability (non-employee)			\$1,097
- fire/theft			\$714
<b>Property Taxes</b>			
- non-farm land			\$0
- other than land & machinery			\$6,010
Building repairs and maintenance			\$549
Dues, fees, publications			\$271
Farmstead Equipment			\$177
Total			\$17,821
Total per planted acre			\$258.28

Table 4. Pumping costs and data for irrigation, San Juan County, Projected 2010.

INPUT DATA	
DELIVERY PSI	70
BOOSTER PUMP	
GALLONS PER MINUTE (GPM)	800
WORK HORSEPOWER	33
EFFICIENCY FACTOR:	
ELECTRICITY	0.540
NATURAL GAS	0.154
LP GAS	0.154
DIESEL	0.160
FUEL COST PER UNIT:	
ELECTRICITY	10.42 CENTS/KWH
NATURAL GAS	\$5.89 \$/MCF
LP GAS	\$2.40 \$/GAL
DIESEL	\$2.80 \$/GAL
PUMPING COSTS	
ELECTRIC WELL:	
COST PER HOUR	\$4.73
COST PER ACRE INCH	\$8.68
NATURAL GAS WELL:	
COST PER HOUR	\$3.52
COST PER ACRE INCH	\$6.99
LP GAS WELL:	
COST PER HOUR	\$4.13
COST PER ACRE INCH	\$8.00
DIESEL WELL:	
COST PER HOUR	\$10.30
COST PER ACRE INCH	\$19.83

TABLE 5. Equipment summary for an 80 acre sprinkler-irrigated farm, San Juan County, Projected 2010.

EQUIPMENT	ITEM & SIZE	ANNUAL HOURS OF USE	NUMBER	VARIABLE COSTS				FIXED COSTS		TOTAL PER HR	
				TOTAL FUEL OIL LUBRICANT	REPAIR PER HR	FUEL OIL PER HR	REPAIR PER HR	DEPRECIATION	TAXES		
TRACTOR	40 HP	51	1	\$6.54	\$41	\$6	\$9.35	\$1.08	\$360	\$79	\$8.52
TRACTOR	95 HP	65	1	\$15,960	\$1,115	\$136	\$17.05	\$2.07	\$1,152	\$152	\$19.92
SWATHER	14 FT	35	1	\$3,900	\$366	\$20	\$10.48	\$0.68	\$1,450	\$127	\$45.22
BALER, PTO	2 WIRE	46	1	\$1,600	\$7	\$7	\$0.15		\$385	\$34	\$9.15
BALE WAGON, PTO	3-1/2 IN	44	1	\$1,500	\$56	\$26	\$1.28		\$600	\$70	\$19.96
DISC	12 FT	4	1	\$2,200	\$10	\$10	\$2.79		\$300	\$20	\$85.50
PLOW	3-1/2 IN	7	1	\$3,200	\$31	\$31	\$4.15		\$447	\$23	\$64.60
DITCHER (DOUBLE MOLDBOARD)	12 FT	8	1	\$1,200	\$0	\$0	\$0.05		\$167	\$11	\$22.21
HARROW	12 FT	2	1	\$300	\$0	\$0	\$0.01		\$40	\$3	\$20.40
DRILL	12 FT	2	1	\$2,200	\$2	\$2	\$1.06		\$440	\$19	\$108.84
FERT SPREADER	DEALER FURNISHED	2	1	\$2,500	\$0	\$0	\$0.00		\$333	\$22	\$0.17
SIDEROLL SPRINKLER		2,038	1	\$2,500	\$7,166	\$0	\$3.52	\$0.00	\$333	\$22	\$0.23
NATURAL GAS BOOSTER PUMP		2,038	1	\$2,500	\$7,166	\$0	\$3.52	\$0.00	\$333	\$22	\$0.23
				\$43,624	\$8,120	\$318			\$6,208	\$588	

EQUIPMENT LIST

ITEM	NEW VALUE	USED VALUE	YEARS LIFE	EQUIP CODE	MAX HOURS	FUEL LINTHR	LUBE COEF	ACCOM HOURS	INTEREST AGE	EXPENSE	
TRACTOR	40 HP	1795.00	6544.00	50.00	1.00	800.00	3.40	0.10	772.95	15.00	674.06
TRACTOR	95 HP	34950.00	10580.00	30.00	1.00	800.00	5.54	0.10	1554.66	23.00	1295.63
SWATHER	14 FT	2900.00	3900.00	20.00	2.00	800.00	3.12	0.20	484.32	14.00	1067.50
BALER, PTO	2 WIRE	7700.00	1600.00	20.00	2.00	500.00			524.24	16.00	281.75
BALE WAGON, PTO		1800.00	1500.00	20.00	5.00	800.00			261.60	6.00	600.00
DISC	12 FT	4500.00	2250.00	15.00	3.00	300.00			58.84	16.00	165.75
PLOW	3-1/2 IN	8700.00	3350.00	15.00	3.00	300.00			117.92	16.00	251.25
DITCHER (DOUBLE MOLDBOARD)		2500.00	1250.00	15.00	4.00	300.00			130.00	15.00	33.75
HARROW	12 FT	600.00	300.00	15.00	4.00	300.00			33.44	16.00	22.50
DRILL	12 FT	4600.00	2200.00	10.00	8.00	100.00			30.23	13.00	165.00
FERT SPREADER	DEALER FURNISHED	5000.00	2500.00	15.00	0.00	8742.00			30573.71	15.00	187.50
SIDEROLL SPRINKLER		5000.00	2500.00	15.00	0.00	8742.00			30573.71	15.00	187.50

USAGE LIST

ALFALFA EST.	ALFALFA HVY	PER ACRE TOTAL
Hours per acre--		
0.10	0.73	0.83
1.87	0.65	2.52
0.16	0.48	0.64
0.21	0.63	0.84
0.20	0.80	1.00
0.34	0.00	0.34
0.67	0.00	0.67
0.19	0.19	0.20
0.19	0.00	0.19
0.21	0.00	0.21
0.05	0.05	0.10
22.06	28.02	48.09

INTEREST PROBATION

OAT HVY	ALFALFA HVY
1.21	1.56
37.03	12.87
4.90	14.87
1.32	3.97
2.75	8.28
15.34	0.00
22.84	0.00
1.17	1.17
2.05	0.00
15.00	0.00
0.00	0.00
2.03	2.39
2.03	2.39
107.87	55.56

ALFALFA ESTABLISHMENT

MACHINE	POWER UNT	TIMES OVER	ACCOMPLISHMENT RATE	TOTAL	CUSTOM
PUMP WATER: 39.00					
PLOW	95 HP	1.00	0.67	0.67	
DISC	95 HP	1.00	0.17	0.17	
HARROW	95 HP	1.00	0.19	0.19	
FERTILIZE	95 HP	1.00	0.05	0.05	
DRILL	95 HP	1.00	0.21	0.21	
DITCHER	40 HP	2.00	0.05	0.10	
IRRIGATE	9.00	0.57	22.06		
SWATHER	14 FT	1.00	0.16	0.16	
BALER	95 HP	1.00	0.21	0.21	
BALE WAGON	95 HP	1.00	0.20	0.20	

ALFALFA HVY

MACHINE	POWER UNT	TIMES OVER	ACCOMPLISHMENT RATE	TOTAL	CUSTOM
PUMP WATER: 46.00					
FERTILIZE	95 HP	1.00	0.05	0.05	
DITCHER	40 HP	2.00	0.05	0.10	
IRRIGATE	13.00	0.57	26.02		
SWATHER	14 FT	3.00	0.16	0.48	
BALER	40 HP	2.00	0.21	0.63	
BALE WAGON	95 HP	3.00	0.20	0.60	

ANNUAL REPAIR COSTS AS A PERCENT OF NEW VALUE

Hours of Use	1	2	3	4	5	6	7	8	9
0	0.00000	0.00020	0.00060	0.00120	0.00200	0.00300	0.00400	0.00500	0.00600
50	0.00000	0.00020	0.00060	0.00120	0.00200	0.00300	0.00400	0.00500	0.00600
100	0.00000	0.00020	0.00060	0.00120	0.00200	0.00300	0.00400	0.00500	0.00600
150	0.00000	0.00020	0.00060	0.00120	0.00200	0.00300	0.00400	0.00500	0.00600
200	0.00000	0.00020	0.00060	0.00120	0.00200	0.00300	0.00400	0.00500	0.00600
250	0.00000	0.00020	0.00060	0.00120	0.00200	0.00300	0.00400	0.00500	0.00600
300	0.00000	0.00020	0.00060	0.00120	0.00200	0.00300	0.00400	0.00500	0.00600
350	0.00000	0.00020	0.00060	0.00120	0.00200	0.00300	0.00400	0.00500	0.00600
400	0.00000	0.00020	0.00060	0.00120	0.00200	0.00300	0.00400	0.00500	0.00600
450	0.00000	0.00020	0.00060	0.00120	0.00200	0.00300	0.00400	0.00500	0.00600
500	0.00000	0.00020	0.00060	0.00120	0.00200	0.00300	0.00400	0.00500	0.00600
550	0.00000	0.00020	0.00060	0.00120	0.00200	0.00300	0.00400	0.00500	0.00600
600	0.00000	0.00020	0.00060	0.00120	0.00200	0.00300	0.00400	0.00500	0.00600
650	0.00000	0.00020	0.00060	0.00120	0.00200	0.00300	0.00400	0.00500	0.00600
700	0.00000	0.00020	0.00060	0.00120	0.00200	0.00300	0.00400	0.00500	0.00600
750	0.00000	0.00020	0.00060	0.00120	0.00200	0.00300	0.00400	0.00500	0.00600
800	0.00000	0.00020	0.00060	0.00120	0.00200	0.00300	0.00400	0.00500	0.00600
850	0.00000	0.00020	0.00060	0.00120	0.00200	0.00300	0.00400	0.00500	0.00600
900	0.00000	0.00020	0.00060	0.00120	0.00200	0.00300	0.00400	0.00500	0.00600
950	0.00000	0.00020	0.00060	0.00120	0.00200	0.00300	0.00400	0.00500	0.00600
1000	0.00000	0.00020	0.00060	0.00120	0.00200	0.00300	0.00400	0.00500	0.00600
1200	0.00045	0.00145	0.00245	0.00345	0.00445	0.00545	0.00645	0.00745	0.00845
1400	0.00045	0.00145	0.00245	0.00345	0.00445	0.00545	0.00645	0.00745	0.00845
1500	0.00050	0.00150	0.00250	0.00350	0.00450	0.00550	0.00650	0.00750	0.00850
1600	0.00050	0.00150	0.00250	0.00350	0.00450	0.00550	0.00650	0.00750	0.00850
1800	0.00075	0.00175	0.00275	0.00375	0.00475	0.00575	0.00675	0.00775	0.00875
2000	0.00110	0.00210	0.00310	0.00410	0.00510	0.00610	0.00710	0.00810	0.00910
2500	0.00256	0.00356	0.00456	0.00556	0.00656	0.00756	0.00856	0.00956	0.01056
3000	0.00502	0.00602	0.00702	0.00802	0.00902	0.01002	0.01102	0.01202	0.01302
3500	0.00748	0.00848	0.00948	0.01048	0.01148	0.01248	0.01348	0.01448	0.01548
4000	0.01094	0.01194	0.01294	0.01394	0.01494	0.01594	0.01694	0.01794	0.01894
4500	0.01440	0.01540	0.01640	0.01740	0.01840	0.01940	0.02040	0.02140	0.02240
5000	0.01786	0.01886	0.01986	0.02086	0.02186	0.02286	0.02386	0.02486	0.02586
5500	0.02132	0.02232	0.02332	0.02432	0.02532	0.02632	0.02732	0.02832	0.02932
6000	0.02478	0.02578	0.02678	0.02778	0.02878	0.02978	0.03078	0.03178	0.03278
6500	0.02824	0.02924	0.03024	0.03124	0.03224	0.03324	0.03424	0.03524	0.03624
7000	0.03170	0.03270	0.03370	0.03470	0.03570	0.03670	0.03770	0.03870	0.03970
7500	0.03516	0.03616	0.03716	0.03816	0.03916	0.04016	0.04116	0.04216	0.04316
8000	0.03862	0.03962	0.04062	0.04162	0.04262	0.04362	0.04462	0.04562	0.04662

\* Based on unpublished data of D. R. Hunt, Department of Agricultural Engineering, University of Illinois.

\*\* Based on "Agricultural Machinery Data" in Agricultural Engineers' Yearbook, 1965.

TABLE 6. Alfalfa establishment, sprinkler-irrigated, budgeted per acre costs and returns for an 80 acre farm, San Juan County, Projected 2010.  
 Planting dates: April 15 - June 1  
 Harvesting dates: June 15 - July 1

ITEM	PRICE	YIELD						TOTAL	
<b>GROSS RETURNS</b>									
OAT HAY	\$130.00	2.25 TONS (STACKED)						\$292.50	
GRAZING	\$10.00	1.00 AUM						\$10.00	
<b>TOTAL</b>							<b>\$302.50</b>		
<b>PURCHASED INPUTS</b>									
	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		39 AC. IN.					\$99.13	\$99.13	
CANAL WATER (MAINTENANCE)		1 ACRE					\$8.00	\$8.00	
<b>SUBTOTAL</b>			<b>\$124.11</b>				<b>\$107.13</b>	<b>\$231.24</b>	
<b>PREHARVEST OPERATIONS</b>									
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
PLOW	96 HP	0.67 HR		\$5.06	\$11.42	\$4.17	\$56.63	\$77.28	
DISC (2X)	96 HP	0.34 HR		\$2.57	\$5.80	\$1.65	\$35.84	\$45.86	
HARROW	96 HP	0.19 HR		\$1.43	\$3.24	\$0.40	\$7.66	\$12.73	
FERTILIZE	96 HP	0.05 HR		\$0.38	\$0.85	\$0.10	\$1.00	\$2.33	
DRILL	96 HP	0.21 HR		\$1.59	\$3.58	\$0.66	\$45.94	\$51.76	
DITCHER (2X)	40 HP	0.10 HR		\$0.76	\$0.94	\$0.11	\$3.07	\$4.88	
IRRIGATE (9X)		2.25 HR		\$16.31	\$77.57	\$0.00	\$8.99	\$102.87	
<b>SUBTOTAL</b>	<b>3.81 HR</b>			<b>\$28.09</b>	<b>\$103.40</b>	<b>\$7.10</b>	<b>\$159.13</b>	<b>\$297.71</b>	
<b>HARVEST OPERATIONS</b>									
SWATHER	14 FT	0.16 HR		\$1.21	\$1.68	\$0.09	\$7.24	\$10.21	
BALER	96 HP	0.21 HR		\$1.59	\$3.58	\$0.47	\$6.10	\$11.74	
BALE WAGON	96 HP	0.20 HR		\$1.51	\$3.41	\$0.67	\$7.98	\$13.57	
<b>SUBTOTAL</b>	<b>0.57 HR</b>			<b>\$4.30</b>	<b>\$8.67</b>	<b>\$1.23</b>	<b>\$21.32</b>	<b>\$35.52</b>	
<b>OVERHEAD EXPENSES</b>									
DOWNTIME		1.74 HR		\$13.10				\$13.10	
EMPLOYEE BENEFITS				\$5.83				\$5.83	
INSURANCE			\$0.65					\$0.65	
LAND TAXES							\$2.22	\$2.22	
SUPERVISION AND MANAGEMENT				\$40.34				\$40.34	
<b>SUBTOTAL</b>	<b>1.74 HR</b>		<b>\$0.65</b>	<b>\$59.27</b>				<b>\$2.22</b>	<b>\$62.14</b>
<b>TOTAL OPERATING EXPENSES</b>	<b>6.12 HR</b>		<b>\$124.76</b>	<b>\$91.67</b>	<b>\$112.07</b>	<b>\$8.33</b>	<b>\$289.79</b>	<b>\$626.61</b>	
<b>NET OPERATING PROFIT</b>								<b>(\$324.11)</b>	
INTEREST ON OPERATING CAPITAL		( \$90.50 @ 7.50% )						\$6.79	
INTEREST ON EQUIPMENT INVESTMENT								\$107.87	
<b>RETURN TO LAND AND RISK</b>								<b>(\$438.77)</b>	

TABLE 7. Alfalfa hay, sprinkler-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
<b>GROSS RETURNS</b>								
ALFALFA HAY	\$140.00	5.00 TONS (STACKED)						\$700.00
GRAZING	\$10.00	2.00 AUM						\$20.00
<b>TOTAL</b>								<b>\$720.00</b>
<b>PURCHASED INPUTS</b>								
	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
PHOSPHATE (P2O5)	\$0.51	40.00 LBS	\$20.40					\$20.40
INSECTICIDE (AERIAL)	\$19.20	1.00 ACRE	\$19.20					\$19.20
WIRE	\$0.61	43.00 LBS	\$26.23					\$26.23
LIVESTOCK FAC & EQUIP							\$5.00	\$5.00
ESTABLISHMENT: Principal		6.00 YEARS					\$73.13	\$73.13
: Interest							\$33.79	\$33.79
CANAL WATER		46.00 AC. IN.					\$116.92	\$116.92
CANAL WATER (MAINTENANCE)		1 ACRE					\$8.00	\$8.00
<b>SUBTOTAL</b>			<b>\$65.83</b>				<b>\$236.83</b>	<b>\$302.66</b>
<b>PREHARVEST OPERATIONS</b>								
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
FERTILIZE	96 HP	0.05 HR		\$0.38	\$0.85	\$0.10	\$1.00	\$2.33
DITCHER (2X)	40 HP	0.10 HR		\$0.76	\$0.94	\$0.11	\$3.07	\$4.88
IRRIGATE (13X)		3.25 HR		\$23.56	\$91.49	\$0.00	\$10.60	\$125.66
<b>SUBTOTAL</b>		<b>3.40 HR</b>		<b>\$24.70</b>	<b>\$93.28</b>	<b>\$0.22</b>	<b>\$14.67</b>	<b>\$132.86</b>
<b>HARVEST OPERATIONS</b>								
SWATHER (3X)	14 FT	0.48 HR		\$3.62	\$5.03	\$0.28	\$21.71	\$30.64
BALER (3X)	40 HP	0.63 HR		\$4.76	\$5.89	\$0.78	\$11.13	\$22.55
BALE WAGON (3X)	96 HP	0.60 HR		\$4.53	\$10.23	\$2.01	\$23.93	\$40.70
<b>SUBTOTAL</b>		<b>1.71 HR</b>		<b>\$12.91</b>	<b>\$21.15</b>	<b>\$3.07</b>	<b>\$56.77</b>	<b>\$93.90</b>
<b>OVERHEAD EXPENSES</b>								
DOWNTIME		0.44 HR		\$3.32				\$3.32
EMPLOYEE BENEFITS				\$6.77				\$6.77
INSURANCE			\$0.75					\$0.75
LAND TAXES							\$2.22	\$2.22
SUPERVISION AND MANAGEMENT				\$54.53				\$54.53
OTHER EXPENSES			\$258.28					\$258.28
<b>SUBTOTAL</b>		<b>0.44 HR</b>		<b>\$259.03</b>	<b>\$64.62</b>		<b>\$2.22</b>	<b>\$325.87</b>
<b>TOTAL OPERATING EXPENSES</b>		<b>5.55 HR</b>		<b>\$324.86</b>	<b>\$102.23</b>	<b>\$114.43</b>	<b>\$3.28</b>	<b>\$555.29</b>
<b>NET OPERATING PROFIT</b>								<b>(\$135.29)</b>
INTEREST ON OPERATING CAPITAL		(	\$58.31	@	7.50%	)		\$4.37
INTEREST ON EQUIPMENT INVESTMENT								\$55.59
<b>RETURN TO LAND AND RISK</b>								<b>(\$195.26)</b>
<b>BUDGET SUMMARY</b>								
GROSS RETURN			\$720.00					
VARIABLE OPERATING EXPENSES	\$442.58							
RETURN OVER VARIABLE EXPENSES	\$277.42	(GROSS MARGIN)						
FIXED EXPENSES	\$310.49							
NET FARM INCOME		(\$33.07)	(RETURN TO CAPITAL, LABOR, LAND & RISK)					
LABOR AND MANAGEMENT COST	\$102.23							
NET OPERATING PROFIT		(\$135.29)	(RETURN TO CAPITAL, LAND & RISK)					
CAPITAL COSTS	\$59.96							
RETURN TO LAND AND RISK		(\$195.26)						

TABLE 8. Summary of per acre costs and returns for an 80 acre farm, San Juan County,  
Projected 2010.

	ALFALFA ESTABLISHMENT	ALFALFA HAY
	TONS	TONS
PRIMARY YIELD	2.25	5.00
PRIMARY PRICE	\$130.00	\$140.00
GOVERNMENT PAYMENTS	\$0.00	\$0.00
SECOND INCOME	\$10.00	\$20.00
GROSS RETURN	\$302.50	\$720.00
CASH OPERATING EXPENSES		
SEED	\$89.40	
FERTILIZER	\$22.95	\$20.40
CHEMICALS		\$19.20
CROP INSURANCE		
OTHER PURCHASED INPUTS	\$11.76	\$26.23
CANAL WATER		
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$34.50	\$22.94
FUEL-IRRIGATION	\$77.57	\$91.49
REPAIRS	\$8.33	\$3.28
CUSTOM CHARGES		
LAND TAXES	\$2.22	\$2.22
OTHER EXPENSES	\$0.65	\$259.03
TOTAL CASH EXPENSES	\$247.37	\$444.80
RETURN OVER CASH EXPENSES	\$55.13	\$275.20
FIXED EXPENSES	\$287.57	\$308.27
TOTAL EXPENSES	\$534.95	\$753.07
NET FARM INCOME	(\$232.45)	(\$33.07)
LABOR AND MANAGEMENT COSTS	\$91.67	\$102.23
NET OPERATING PROFIT	(\$324.11)	(\$135.29)
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL	\$6.79	\$4.37
INTEREST ON EQUIPMENT INVESTMENT	\$107.87	\$55.59
TOTAL CAPITAL COSTS	\$114.66	\$59.96
RETURN TO LAND AND RISK	(\$438.77)	(\$195.26)

TABLE 9. Whole farm summary, San Juan County,  
Projected 2010.

GROSS RETURNS		
OAT HAY	11.00 ACRES	
CROP		\$3,328
ALFALFA HAY	69.00 ACRES	
CROP		\$48,300
GRAZING		\$1,380
GROSS RETURN		<u>\$53,008</u>
CASH OPERATING EXPENSES		
SEED		\$983
FERTILIZER		\$1,660
CHEMICALS		\$1,325
CROP INSURANCE		\$0
OTHER PURCHASED INPUTS		\$1,939
CANAL WATER		\$0
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$1,962
FUEL-IRRIGATION		\$7,166
REPAIRS		\$318
CUSTOM CHARGES		\$0
LAND TAXES		\$178
OTHER EXPENSES		\$17,880
TOTAL CASH EXPENSES		<u>\$33,412</u>
RETURN OVER CASH EXPENSES		\$19,595
FIXED EXPENSES		\$19,388
TOTAL EXPENSES		\$52,800
NET FARM INCOME		\$207
LABOR AND MANAGEMENT COSTS		\$8,062
NET OPERATING PROFIT		(\$7,855)
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$376
INTEREST ON EQUIPMENT INVESTMENT		\$5,022
TOTAL CAPITAL COSTS		<u>\$5,399</u>
RETURN TO LAND AND RISK		<u>(\$13,253)</u>

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$1,000 /ACRE	(\$15,653)	-6.34%
\$2,500 /ACRE	(\$19,253)	-3.22%
\$4,000 /ACRE	(\$22,853)	-2.16%
\$5,500 /ACRE	(\$26,453)	-1.62%
\$7,000 /ACRE	(\$30,053)	-1.30%
\$8,500 /ACRE	(\$33,653)	-1.09%

\* 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)