

TABLE 1. Acreage Summary, San Juan County, Actual 2024

BUDGET AREA.....SAN JUAN COUNTY			
FARM SIZE.....24 ACRES			
IRRIGATION TYPE.....FLOOD			
NUMBER OF CROPS... 2			
		WATER USE	
ACREAGE SUMMARY:	LAND USE (ACRES)	AC.IN. PER AC.	TOTAL AC.IN.
ALFALFA	6.00	60	360
CORN	18.00	30	540
TOTAL	24.00		900
ACRE FEET PER ACRE OF WATER RIGHTS			3.13

TABLE 2. Basic cost information for San Juan County, Actual 2024

Item			
<b>Labor Wage Rate:</b>			
Equipment operators	\$/hour		\$17.92
General & Irrigators	\$/hour		\$16.77
<b>Purchased Inputs:</b>			
<b>Fertilizer:</b>			
Nitrogen (N)	\$/pound		\$0.87
Phosphate (P205)	\$/pound		\$0.45
Anhydrous Ammonia (NH3)	\$/ton		\$745.00
<b>Seed:</b>			
Alfalfa	\$/pound		\$4.12
Oats	\$/pound		\$0.70
Pasture	\$/pound		\$2.60
Corn	\$/bag		\$245.00
Wire	\$/pound		\$1.32
Canal Water	\$/acre foot		\$45.00
<b>Energy:</b>			
Diesel fuel	\$/gallon		\$3.46
Gasoline	\$/gallon		\$2.98
Natural Gas	\$/MCF		\$4.05
LP Gas	\$/gallon		\$2.45
Electricity	cents/KwHr		5.52
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		9.25%
Land Interest Rate	percent		8.15%
Equipment Interest Rate	percent		7.15%
Real Interest Rate	percent		1.82%
Land Taxes	\$253.00 /acre (full value)		\$2.44
Personal Property Tax Rate	- NR	\$/ \$1,000 (Assessed Value)	\$28.92
	- R		\$24.67
<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, Actual 2024

Item			
Electricity (Domestic & Shop)	\$45.00	per month	\$540
Telephone	\$30.00	per month	\$360
Accounting & Legal			\$570
Misc. Supplies & Hand Tools			\$960
Pickup and Auto			
miles	2,500	@	\$0.670 per mile
Insurance			
- general liability (non-employee)			\$400
- fire/theft			\$250
Property Taxes			
- non-planted land			\$0
- other than land & machinery			\$500
Building repairs and maintenance			\$595
Dues, fees, publications			\$294
Farmstead Equipment			\$192
Total			\$6,336
Total per planted acre			\$264.01

TABLE 4. Equipment summary for an 24 acre flood-irrigated farm, San Juan County, Actual 2024

EQUIPMENT ITEM & SIZE	ANNUAL HOURS OF USE	NUMBER	TOTAL VALUE	VARIABLE COSTS					FIXED COSTS		
				FUEL OIL LUBRICANT	REPAIR	FUEL OIL PER HR	REPAIR PER HR	DEPRECIATION	TAXES	TOTAL PER HR	
TRACTOR 50 HP	23	1	\$7,000	\$815	\$11	\$27.24	\$0.51	\$140	\$34	\$7.70	
TRACTOR 90 HP	28	1	\$17,335	\$1,374	\$13	\$48.04	\$0.45	\$576	\$64	\$23.60	
SWATHER 14 FT	3	1	\$3,900	\$2	\$0.55	\$195	\$19	\$195	\$19	\$74.24	
DISC 12 FT	3	1	\$1,000	\$7	\$2.79	\$87	\$5	\$87	\$5	\$28.37	
PLOW 3-14 IN	12	1	\$1,500	\$40	\$3.35	\$100	\$7	\$100	\$7	\$8.99	
SWEET CORN PICKER	14	1	\$5,350	\$11	\$0.75	\$268	\$26	\$268	\$26	\$20.37	
DITCHER	4	1	\$1,250	\$0	\$0.05	\$83	\$6	\$83	\$6	\$24.82	
HARROW 12 FT	4	1	\$300	\$0	\$0.01	\$20	\$1	\$20	\$1	\$4.96	
PLANTER 4 ROW	5	1	\$1,000	\$9	\$1.63	\$100	\$6	\$100	\$6	\$19.41	
CULTIVATOR 4 ROW	8	1	\$2,000	\$15	\$2.00	\$153	\$10	\$153	\$10	\$18.91	
FERT SPREADER DEALER FURNISHED	1	1									
PICKUP 3/4 TON	54	1	\$23,000	\$2,796	\$248	\$51.79	\$4.60	\$2,300	\$111	\$44.65	
				\$63,635	\$4,785	\$356		\$3,984	\$307		

Note: we used total value rather than new value for depreciation, taxes, and repair Note: we used total value rather than new value for depreciation, taxes, and repair

EQUIPMENT LIST

ITEM	NEW VALUE	USED VALUE	YEARS LIFE	EQUIP CODE	MAX HOURS	FUEL UNIT/HR	LUBE COEF	ACCUM HOURS	INTEREST AGE	INTEREST EXPENSE
TRACTOR 50 HP	16880.00	7000.00	50.00	1.00	800.00	9.53	0.10	338.40	15.00	250.25
TRACTOR 90 HP	14880.00	17334.50	30.00	1.00	800.00	17.15	0.10	644.46	23.00	619.71
SWATHER 14 FT	27500.00	3900.00	20.00	2.00	800.00			392.28	14.00	139.43
DISC 12 FT	4500.00	1000.00	15.00	3.00	300.00			40.32	16.00	35.75
PLOW 3-14 IN	6700.00	1500.00	15.00	3.00	300.00			192.96	16.00	53.63
SWEET CORN PICKER	25000.00	5350.00	20.00	2.00	100.00			201.60	14.00	191.26
DITCHER	2900.00	1250.00	15.00	4.00	300.00			54.60	15.00	44.69
HARROW 12 FT	600.00	300.00	15.00	4.00	300.00			89.12	16.00	10.73
PLANTER 4 ROW	6800.00	1000.00	10.00	8.00	100.00			70.20	13.00	35.75
CULTIVATOR 4 ROW	4000.00	2000.00	15.00	3.00	300.00			120.96	16.00	71.50
FERT SPREADER DEALER FURNISHED					100.00				17.00	
PICKUP 3/4 TON	46000.00	23000.00	10.00	2.00	800.00	17.32	0.15	702.00	13.00	822.25

Note: small scale farms does not use full capacity of machinery so I reduced the used value a quarter of new value

USAGE LIST

EQUIPMENT	ALFALFA HAY		SWEET CORN		PER ACRE TOTALS
	HAY	CORN	HAY	CORN	
TRACTOR 50 HP	0.10	1.22	1.32		
TRACTOR 90 HP	0.05	1.54	1.59		
SWATHER 14 FT	0.48	0.00	0.48		
DISC 12 FT	0.00	0.14	0.14		
PLOW 3-14 IN	0.00	0.67	0.67		
SWEET CORN PICKER	0.00	0.80	0.80		
DITCHER	0.60	0.00	0.60		
HARROW 12 FT	0.00	0.24	0.24		
PLANTER 4 ROW	0.00	0.30	0.30		
CULTIVATOR 4 ROW	0.05	0.42	0.42		
FERT SPREADER DEALER FURNISHED	0.05	0.05	0.10		
PICKUP 3/4 TON	0.00	3.00	3.00		

INTEREST PRORATION

ALFALFA HAY	SWEET CORN
---dollars per acre---	
1.11	13.53
1.11	34.06
23.24	0.00
0.00	1.99
0.00	2.98
0.00	10.63
7.45	0.00
0.00	0.60
0.00	1.99
0.00	3.97
0.00	0.00
0.00	45.68
32.90	69.74

ALFALFA HAY

MACHINE	POWER UNIT	TIMES OVER	ACCOMPLISHMENT		CUSTOM
			RATE	TOTAL	
FERTILIZE	90 HP	1.00	0.05	0.05	
DITCHER (2X)	50 HP	2.00	0.05	0.10	
IRRIGATE (12X)		12.00	0.50	6.00	
SWATHER(3X)	14FT	3	0.16	0.48	
BAILING					133 \$10bale, 80 bales/5 acres

SWEET CORN

MACHINE	POWER UNIT	TIMES OVER	ACCOMPLISHMENT		CUSTOM
			RATE	TOTAL	
DISC	90 HP	1.00	0.14	0.14	
PLOW	90 HP	1.00	0.67	0.67	
FERTILIZE	90 HP	1.00	0.05	0.05	
DISC	90 HP	1.00	0.14	0.14	
HARROW	90HP	1.00	0.24	0.24	
PRE-IRRIGATE		1	0.75	0.75	
PLANTER	90 HP	1.00	0.30	0.30	
CULTIVATOR	50 HP	1.00	0.42	0.42	
IRRIGATE (4X)		4.00	0.50	2.00	
MACHINE PICK	50 HP	1	0.8	0.80	
HAY	3/4 ton	3	1	3.00	

ANNUAL REPAIR COSTS AS A PERCENT OF NEW VALUE

Hours of Use	1	2	3	4	5	6	7	8	9
0.00	0.000060	0.000020	0.000620	0.000020	0.000080	0.000140	0.000040	0.000340	0.000200
50.00	0.000060	0.000020	0.000620	0.000020	0.000080	0.000140	0.000040	0.000240	0.000200
100.00	0.000060	0.000020	0.000500	0.000020	0.000140	0.000220	0.000100	0.000380	0.000300
200.00	0.000030	0.000030	0.000430	0.000040	0.000160	0.000260	0.000110	0.000510	0.000260
300.00	0.000030	0.000050	0.000390	0.000060	0.000230	0.000310	0.000140	0.000630	0.000400
400.00	0.000030	0.000060	0.000370	0.000080	0.000260	0.000340	0.000150	0.000710	0.000450
500.00	0.000030	0.000070	0.000360	0.000100	0.000280	0.000370	0.000170	0.000800	0.000500
600.00	0.000030	0.000090	0.000340	0.000120	0.000310	0.000390	0.000190	0.000860	0.000530
700.00	0.000030	0.000100	0.000340	0.000130	0.000330	0.000410	0.000200	0.000910	0.000560
800.00	0.000030	0.000110	0.000320	0.000150	0.000350	0.000430	0.000210	0.000980	0.000590
900.00	0.000030	0.000120	0.000320	0.000160	0.000370	0.000450	0.000230	0.010200	0.000600
1000.00	0.000060	0.000130	0.000310	0.000180	0.000380	0.000460	0.000230	0.010700	0.000630
1200.00	0.000045	0.000145	0.000305	0.000205	0.000405	0.000480	0.000245	0.011350	0.000710
1400.00	0.000045	0.000170	0.000300	0.000220	0.000435	0.000510	0.000410	0.011280	0.000785
1600.00	0.000150	0.000170	0.000300	0.000230	0.000435	0.000510	0.000410	0.011280	0.000785
1800.00	0.000150	0.000190	0.000285	0.000255	0.000465	0.000525	0.000435	0.011235	0.000805
2000.00	0.000110	0.000265	0.000280	0.000305	0.000505	0.000565	0.000310		
2500.00	0.000056								
3000.00	0.000070								
3500.00	0.000082								
4000.00	0.000096								
4500.00	0.000108								
5000.00	0.000122								
5500.00	0.000136								
6000.00	0.000148								
6500.00	0.000162								
7000.00	0.000176								
7500.00	0.000188								
8000.00	0.000204								

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

\*\* Based on "Agricultural Machinery Data" in Agricultural Engineers Yearbook, 1983.

Codes

- 1 tractors
- 2 balers, combines, forage harvesters, windrowers, pickups
- 3 rotary hoes, disks, moldboard plows, chisels, field cultivators
- row cultivators, laser plane
- 4 harrows, wagons, floats, roto buck, drag, roller, water furrow, bed shaper
- 5 balers/wagons, cotton pickers, cotton strippers, corn pickers
- corn heads, forage equipment, rotary mowers, stalk choppers,
- feed wagons, farm trucks
- 6 rakes, cutter/mower
- 7 baler w/ engine, manure spreader
- 8 planters, drills, seeding equipment, mounted sprayers
- 9 fertilizer distributing equipment

TABLE 5. Alfalfa hay, flood-irrigated, budgeted per acre costs and returns for an 24 acre farm, San Juan County,  
Actual 2024  
Harvesting dates: June 1 - October 15

ITEM	PRICE	YIELD	TOTAL
GROSS RETURNS			
ALFALFA HAY	\$343.00	8.30 TONS (70 lbs bale- 80 bales per cutting)	\$2,846.90
GRAZING	\$10.00	2.00 AUM	\$20.00
TOTAL			\$2,866.90

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
18-52-0	\$0.30	200 LBS	\$60.00		\$60.00
WIRE	\$1.32	0 LBS	\$0.00		\$0.00
CANAL WATER		60 AC. IN.		\$120.00	\$120.00
CANAL WATER (MAINTENANCE)		1 ACRE		\$8.00	\$8.00
SUBTOTAL			\$60.00	\$128.00	\$188.00

(including customer baling)

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
FERTILIZE	90 HP	0.05 HR		\$0.90	\$2.45	\$0.02	\$1.18	\$4.55
DITCHER (2X)	50 HP	0.10 HR		\$1.79	\$2.72	\$0.06	\$3.25	\$7.82
IRRIGATE (12X)		6.00 HR		\$100.62				\$100.62
SUBTOTAL		6.15 HR		\$103.31	\$5.18	\$0.08	\$4.43	\$113.00

HARVEST OPERATIONS

SWATHER (3X)	90 HP	0.48 HR		\$8.60	\$23.54	\$0.48	\$46.96	\$79.58
BALER(CUSTOM)			\$2,400.00					\$2,400.00 \$10/bale
BALE WAGON (CUSTOME)								
SUBTOTAL		0.48 HR	\$2,400.00	\$8.60	\$23.54	\$0.48	\$46.96	\$2,479.58

OVERHEAD EXPENSES

DOWNTIME		0.13 HR		\$2.37				\$2.37
EMPLOYEE BENEFITS				\$20.14				\$20.14
INSURANCE			\$2.24					\$2.24
LAND TAXES						\$2.44		\$2.44
SUPERVISION AND MANAGEMENT				\$206.95				\$206.95
OTHER EXPENSES			\$263.49					\$263.49
SUBTOTAL		0.13 HR	\$265.73	\$229.47		\$2.44		\$497.63

TOTAL OPERATING EXPENSES

TOTAL OPERATING EXPENSES		6.76 HR	\$2,725.73	\$341.38	\$28.72	\$0.56	\$181.83	\$3,278.21
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NET OPERATING PROFIT

NET OPERATING PROFIT								(\$411.31)
INTEREST ON OPERATING CAPITAL			\$33.32 @	9.25%				\$3.08
INTEREST ON EQUIPMENT INVESTMENT								\$32.90

RETURN TO LAND AND RISK

RETURN TO LAND AND RISK								(\$447.29)
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BUDGET SUMMARY

GROSS RETURN		\$2,866.90	
VARIABLE OPERATING EXPENSES	\$2,755.00		
RETURN OVER VARIABLE EXPENSES	\$111.90		(GROSS MARGIN)
FIXED EXPENSES	\$181.83		
NET FARM INCOME		(\$69.93)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$341.38		
NET OPERATING PROFIT		(\$411.31)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$35.98		
RETURN TO LAND AND RISK		(\$447.29)	

TABLE 6. Sweet Corn, flood-irrigated, budgeted per acre costs and returns for an 24 acre farm, San Juan County,  
 Actual 2024  
 Planting dates: May 15 - every two weeks ( 6 plantings)  
 Harvesting dates: August 7- first harvesting day with 10 days until Oct 6

ITEM	PRICE	YIELD	TOTAL
GROSS RETURNS			
SWEET CORN	\$6.00	556.00 DOZENS	\$3,336.00
TOTAL			\$3,336.00

Farmer's Markets and other places too

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$3.06	30 LBS	\$91.88		\$91.88
UREA	\$0.25	160 LBS	\$40.00		\$40.00
CANAL WATER		30 AC. IN.		\$120.00	\$120.00
CANAL WATER (MAINTENANCE)		1 ACRE		\$8.00	\$8.00
SUBTOTAL			\$131.88	\$128.00	\$259.88

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PLOW	90 HP	0.14 HR		\$2.51	\$6.87	\$0.53	\$4.55	\$14.46
DISC (2X)	90 HP	0.28 HR		\$5.02	\$13.73	\$0.91	\$14.55	\$34.21
HARROW	90 HP	0.24 HR		\$4.30	\$11.77	\$0.11	\$6.86	\$23.04
FERTILIZE	90 HP	0.05 HR		\$0.90	\$2.45	\$0.02	\$1.18	\$4.55
PRE-IRRIGATE		0.75 HR		\$12.58				\$12.58
PLANTER	90 HP	0.30 HR		\$5.38	\$14.71	\$0.62	\$12.90	\$33.62
CULTIVATOR	50 HP	0.42 HR		\$7.53	\$11.44	\$1.05	\$11.18	\$31.20
IRRIGATE (4X)		2.00 HR		\$33.54				\$33.54
SUBTOTAL		4.18 HR		\$71.74	\$60.97	\$3.25	\$51.22	\$187.18

HARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
MACHINE PICK	50 HP	0.80 HR		\$14.34	\$39.23	\$0.96	\$35.18	\$89.70
HAUL	3/4ton	3.00 HR		\$53.76	\$155.36	\$13.80	\$133.94	\$356.86
SUBTOTAL		3.80 HR		\$68.10	\$194.59	\$14.76	\$169.11	\$446.56

OVERHEAD EXPENSES	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME	1.31 HR		\$23.43				\$23.43
EMPLOYEE BENEFITS			\$25.17				\$25.17
INSURANCE		\$2.80					\$2.80
LAND TAXES						\$2.44	\$2.44
SUPERVISION AND MANAGEMENT			\$238.14				\$238.14
OTHER EXPENSES		\$263.49					\$263.49
SUBTOTAL	1.31 HR	\$266.28	\$286.74			\$2.44	\$555.46

TOTAL OPERATING EXPENSES	9.29 HR	\$398.16	\$426.58	\$255.57	\$18.01	\$350.77	\$1,449.08
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NET OPERATING PROFIT							\$1,886.92
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INTEREST ON OPERATING CAPITAL	( \$99.44 @ 9.25% )						\$9.20
INTEREST ON EQUIPMENT INVESTMENT							\$69.74

RETURN TO LAND AND RISK							\$1,807.98
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BUDGET SUMMARY	
GROSS RETURN	\$3,336.00
VARIABLE OPERATING EXPENSES	\$671.73
RETURN OVER VARIABLE EXPENSES	\$2,664.27 (GROSS MARGIN)
FIXED EXPENSES	\$350.77
NET FARM INCOME	\$2,313.50 (RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$426.58
NET OPERATING PROFIT	\$1,886.92 (RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$78.94
RETURN TO LAND AND RISK	\$1,807.98

TABLE 7. Summary of per acre costs and returns for an 80 acre farm, San Juan County, Actual 2024

	ALFALFA HAY	SWEET CORN
	TONS	TONS
PRIMARY YIELD	8.30	556.00
PRIMARY PRICE	\$343.00	\$6.00
GOVERNMENT PAYMENTS	\$0.00	\$0.00
SECOND INCOME	\$20.00	\$0.00
GROSS RETURN	\$2,866.90	\$3,336.00
CASH OPERATING EXPENSES		
SEED		\$91.88
FERTILIZER	\$60.00	\$40.00
CROP INSURANCE		
OTHER PURCHASED INPUTS	\$0.00	\$0.00
CANAL WATER	\$128.00	\$128.00
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$28.72	\$255.57
FUEL-IRRIGATION		
REPAIRS	\$0.56	\$18.01
CUSTOM CHARGES	\$2,400.00	
LAND TAXES	\$2.44	\$2.44
OTHER EXPENSES	\$265.73	\$266.28
TOTAL CASH EXPENSES	\$2,885.44	\$802.17
RETURN OVER CASH EXPENSES	(\$18.54)	\$2,533.83
FIXED EXPENSES	\$51.40	\$220.33
TOTAL EXPENSES	\$2,936.83	\$1,022.50
NET FARM INCOME	(\$69.93)	\$2,313.50
LABOR AND MANAGEMENT COSTS	\$341.38	\$426.58
NET OPERATING PROFIT	(\$411.31)	\$1,886.92
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL	\$3.08	\$9.20
INTEREST ON EQUIPMENT INVESTMENT	\$32.90	\$69.74
TOTAL CAPITAL COSTS	\$35.98	\$78.94
RETURN TO LAND AND RISK	(\$447.29)	\$1,807.98

TABLE 8. Whole farm summary, San Juan County,  
Actual 2024

GROSS RETURNS		
ALFALFA HAY	6.00 ACRES	
CROP		\$17,201
Sweet Corn	18.00 ACRES	
CROP		\$60,048
GROSS RETURN		<u>\$77,249</u>
CASH OPERATING EXPENSES		
SEED		\$1,654
FERTILIZER		\$1,080
CHEMICALS		\$0
CROP INSURANCE		\$0
OTHER PURCHASED INPUTS		\$0
CANAL WATER		\$3,072
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$4,772
FUEL-IRRIGATION		\$0
REPAIRS		\$328
CUSTOM CHARGES		\$14,400
LAND TAXES		\$59
OTHER EXPENSES		\$6,387
TOTAL CASH EXPENSES		<u>\$31,752</u>
RETURN OVER CASH EXPENSES		\$45,498
FIXED EXPENSES		\$4,274
TOTAL EXPENSES		\$36,026
NET FARM INCOME		\$41,223
LABOR AND MANAGEMENT COSTS		\$9,727
NET OPERATING PROFIT		\$31,497
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$184
INTEREST ON EQUIPMENT INVESTMENT		\$1,453
TOTAL CAPITAL COSTS		<u>\$1,637</u>
RETURN TO LAND AND RISK		<u>\$29,860</u>

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$1,000 /ACRE	\$29,424	35.94%
\$2,500 /ACRE	\$28,770	25.48%
\$4,000 /ACRE	\$28,117	19.73%
\$5,500 /ACRE	\$27,463	16.10%
\$7,000 /ACRE	\$26,809	13.60%
\$8,500 /ACRE	\$26,155	11.77%

\* 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)