

MICROCOMPUTER CROP COST AND RETURN GENERATOR

BUDGET AREA..... CURRY COUNTY,Projected 2009.  
FARM SIZE..... 640.00 ACRES  
IRRIGATION TYPE..... SPRINKLER  
NUMBER OF CROPS..... 2

VERSION 1.0

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TABLE 1. Acreage Summary, Curry County,  
Projected 2009.

BUDGET AREA.....	CURRY COUNTY		
FARM SIZE.....	640 ACRES		
IRRIGATION TYPE.....	SPRINKLER		
NUMBER OF CROPS...	2		
	WATER USE		
		AC. IN. PER ACRE	TOTAL AC. IN.
ACREAGE SUMMARY:			
WHEAT	255	10	2,550
ARP	0		
FLEX IN WHEAT	45	10	450
GRAIN SORGHUM	170	16	2,720
ARP	0		
FLEX IN WHEAT	30	10	300
CORNERS, ROADS, HOMESTEAD	140		
TOTAL	640		6,020
ACRE FEET PER ACRE OF WATER RIGHTS			0.78

TABLE 2. Basic cost information for Curry County,  
Projected 2009.

Item		
Labor Wage Rate:		
Equipment operators	\$/hour	\$7.45
General Irrigators	\$/hour	\$7.25
Purchased Inputs:		
Fertilizer:		
Nitrogen (N)	\$/pound	\$0.62
Phosphate (P205)	\$/pound	\$0.58
Seed:		
Grain Sorghum	\$/pound	\$1.69
Wheat	\$/pound	\$0.26
Diesel fuel	\$/gallon	\$2.75
Gasoline	\$/gallon	\$2.50
Electricity (SWPS)	cents/KwH	6.52
LP gas	\$/gallon	\$2.45
Natural gas (Gas NM)	\$/MCF	\$5.89
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	7.25%
Equipment Interest Rate	percent	7.50%
Real Interest Rate	percent	3.00%
Land Taxes	\$109.00 /acre (full value)	\$109.00
Personal Property Tax Rate	- NR - R	\$/\$1,000 (Assessed Value) \$21.85 \$19.79
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 Curry County,  
Projected 2009.

Item			
Electricity (Domestic & Shop)		\$232.00 per month	\$2,784
Telephone		\$116.00 per month	\$1,392
Accounting & Legal			\$1,699
Misc. Supplies & Hand Tools			\$2,546
Pickup and Auto			
miles	23,200	@	\$0.415 per mile
Insurance			
- general liability (non-employee)			\$2,285
- fire/theft			\$1,833
Property Taxes			
- non-planted land			\$0
- other than land & machinery			\$0
Building repairs and maintenance			\$1,514
Dues, fees, publications			\$406
Farmstead Equipment			\$174
		Total	\$24,261
		Total Per Planted Acre	\$48.52

TABLE 4. Pumping costs and data for Curry County, Projected 2000

INPUT DATA	
DELIVERY PIP: SPRINKLER	40
DEPTH CHARACTERISTICS:	
STATIC	300
DRAW DOWN	35
TOTAL HEAD	335
CASING	300
GALLONS PER MINUTE (GPM)	550
WORK HORSEPOWER	59
EFFICIENCY FACTOR:	
ELECTRICITY	0.93
NATURAL GAS	0.156
LP GAS	0.156
DIESEL	0.160
FUEL COST PER UNIT:	
ELECTRICITY	6.52 CENTS/KWH
NATURAL GAS	\$6.89 \$/MCF
LP GAS	\$2.45 \$/GAL
DIESEL	\$2.75 \$/GAL
FUEL PUMPING CO	
ELECTRIC WELL:	
COST PER HOUR	\$4.91
COST PER ACRE INCH	\$4.04
NATURAL GAS WELL:	
COST PER HOUR	\$6.28
COST PER ACRE INCH	\$5.17
LP GAS WELL:	
COST PER HOUR	\$25.86
COST PER ACRE INCH	\$21.23
DIESEL WELL:	
COST PER HOUR	\$18.37
COST PER ACRE INCH	\$15.11

TABLE 5. Equipment summary for a 940 acre sprinker-irrigated wheat/grain sorghum farm with above average management, Curry County, Projected 2000

EQUIPMENT	ITEM & SIZE	ANNUAL HOURS OF USE	NUMBER	VARIABLE COSTS				FIXED COSTS			
				TOTAL LUBRICANT	FUEL OIL PER HR	REPAIR PER HR	FUEL OIL PER HR	DEPRECIATION	TAXES	TOTAL PER HR	
TRACTOR	140 HP	119	1	\$48,218	\$2,555	\$917	\$21.40	\$4.35	\$4,804	\$204	\$42.88
TRACTOR	185 HP	254	1	\$42,580	\$7,224	\$1,467	\$28.49	\$6.79	\$6,428	\$351	\$26.73
DISC	18 FT OFFSET	165	1	\$7,500	\$1,036	\$9.30		\$1,000	\$55	\$6.39	
DRILL	20 FT	43	1	\$3,800	\$74	\$1.73		\$720	\$35	\$17.39	
FERT SPREADER DEALER FURNISHED											
CHESEL	9 FT	75	1	\$1,650	\$153	\$2.05		\$230	\$12	\$3.09	
CULTIVATOR	6 ROW	42	1	\$3,000	\$52	\$3.72		\$460	\$22	\$10.00	
PLANTER	6 ROW	29	1	\$4,250	\$59	\$2.04		\$650	\$31	\$30.48	
ROD WEEDER		14	1	\$625	\$11	\$0.78		\$83	\$5	\$6.46	
INJECTOR PUMP	23 FT	4,954	1	\$600		\$1.20		\$20	\$2	\$2.02	
SPRINKLER		4,954	1	\$15,000	\$24,318	\$4.91		\$2,000	\$109	\$20.43	
ELECTRIC WELL		4,954	1	\$15,000				\$1,040	\$55	\$2.23	
TOTAL				\$140,203	\$34,097	\$3,899		\$17,206	\$972		

EQUIPMENT LIST

ITEM	NEW VALUE	USED VALUE	YEARS LIFE	EQUIP CODE	MAX HOURS	FUEL L/HR	LUBE COEF	ACQUM HOURS	INTEREST EXPENSE
TRACTOR	140 HP	72,555	48,218	15	1	800	7.10	0.10	1546.70
TRACTOR	185 HP	66,420	42,580	15	1	800	9.42	0.10	2789.60
DISC	18 FT OFFSET	15,000	7,500	15	3	300			2940.00
DRILL	20 FT	7,200	3,800	10	8	100			557.70
FERT SPREADER DEALER FURNISHED									
CHESEL	9 FT	3,300	1,650	15	3	300			1125.00
CULTIVATOR	6 ROW	4,000	3,000	15	3	300			320.50
PLANTER	6 ROW	8,500	4,250	10	8	100			375.70
ROD WEEDER		1,250	625	15	3	300			204.00
INJECTOR PUMP		600	600	5	0	8,742			4635.48
SPRINKLER		30,000	15,000	0	8,742				74303.22
ELECTRIC WELL	Center Post	26,000	13,000	25	0	8,742			74303.22

USAGE LIST

ITEM	PER ACRE TOTALS	
	WHEAT	MILK TOTALS
---hours per acre---		
TRACTOR	0.36	0.53
TRACTOR	0.48	0.58
DISC	0.33	0.33
DRILL	0.13	0.00
FERT SPREADER DEALER FURNISHED		
CHESEL	0.15	0.15
CULTIVATOR	0.00	0.13
PLANTER	0.00	0.17
ROD WEEDER	0.08	0.08
INJECTOR PUMP	8.23	13.17
SPRINKLER	8.23	13.17
ELECTRIC WELL	8.23	13.17

INTEREST PRORATION

WHEAT	MILK
4.52	8.00
6.84	7.26
0.82	0.00
1.13	1.13
0.25	0.25
0.00	0.00
0.00	1.88
0.00	0.28
0.04	0.06
1.87	2.50
1.62	2.50
17	28

WHEAT

MACHINE	POWER UNIT	TIMES OVER	ACCOMPLISHMENT		
			RATE	TOTAL	CUSTOM
CHESEL	185 HP	1.00	0.15	0.15	
DISC (5X)	185 HP	3.00	0.11	0.33	
FERT SPREADER	140 HP	1.00	0.13	0.13	
DRILL (7X)	140 HP	1.00	0.13	0.13	
COMBINE (CUSTOM) BASE RATE					
EXTRA CHARGE PER BUSHEL OVER					
HAUL (CUSTOM) PER BUSHEL					

MILK

MACHINE	POWER UNIT	TIMES OVER	ACCOMPLISHMENT		
			RATE	TOTAL	CUSTOM
DISC	185 HP	1.00	0.11	0.11	
CHESEL	185 HP	1.00	0.15	0.15	
DISC (2X)	185 HP	2.00	0.11	0.22	
FERT SPREADER	140 HP	1.00	0.05	0.05	
ROD WEEDER	140 HP	1.00	0.08	0.08	
PLANTER	140 HP	1.00	0.17	0.17	
CULTIVATOR	140 HP	1.00	0.13	0.13	
IRRIGATE (15X)	140 HP	10.00	0.82	13.17	
COMBINE (CUSTOM) PER ACRE					
EXTRA CHARGE PER CWT OVER					
HAUL (CUSTOM) PER CWT					

ANNUAL REPAIR COSTS AS A PERCENT OF NEW VALUE

Hours of Use	Percent of New Value							
	1	2	3	4	5	6	7	8
0	0.00060	0.00020	0.00060	0.00020	0.00090	0.00140	0.00040	0.00040
50	0.00060	0.00020	0.00060	0.00020	0.00090	0.00140	0.00040	0.00040
100	0.00060	0.00020	0.00060	0.00020	0.00090	0.00140	0.00040	0.00040
200	0.00030	0.00030	0.00040	0.00040	0.00190	0.00090	0.00110	0.00090
300	0.00030	0.00030	0.00030	0.00030	0.00230	0.00110	0.00140	0.00090
400	0.00030	0.00030	0.00030	0.00030	0.00260	0.00130	0.00170	0.00090
500	0.00030	0.00030	0.00030	0.00030	0.00290	0.00150	0.00190	0.00090
600	0.00030	0.00030	0.00040	0.00040	0.00310	0.00160	0.00200	0.00090
700	0.00030	0.00030	0.00040	0.00040	0.00330	0.00170	0.00210	0.00090
800	0.00030	0.00030	0.00040	0.00040	0.00350	0.00180	0.00220	0.00090
900	0.00030	0.00030	0.00040	0.00040	0.00370	0.00190	0.00230	0.00100
1000	0.00040	0.00030	0.00030	0.00030	0.00390	0.00200	0.00240	0.00100
1200	0.00045	0.00045	0.00035	0.00035	0.00430	0.00240	0.00280	0.00115
1400	0.00045	0.00035	0.00030	0.00030	0.00450	0.00250	0.00300	0.00120
1600	0.00050	0.00030	0.00025	0.00025	0.00470	0.00260	0.00310	0.00125
1800	0.00050	0.00030	0.00025	0.00025	0.00490	0.00270	0.00320	0.00130
2000	0.00050	0.00030	0.00025	0.00025	0.00510	0.00280	0.00330	0.00135
2500	0.00050	0.00025	0.00020	0.00020	0.00550	0.00290	0.00350	0.00140
3000	0.00050							
4000	0.00050							
5000	0.00050							
6000	0.00050							
7000	0.00050							
8000	0.00050							

\* 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 combines, forage harvesters, windrowers, pickups
  - 3 rotary hoe, disks, moldboard plows, chisels, field cultivators
  - 4 row cultivators, laser plane
  - 5 harrows, weepers, floats, robo buck, diag, roller, water furrow, bed shaper
  - 6 baler/wagon, cotton pickers, cotton strippers, corn pickers
  - 7 corn heads, forage equipment, rotary mowers, disk choppers, feed wagons, farm trucks
  - 8 disks, cultivator mowers
  - 9 tractors w/ engine, manure spreader
  - 0 granulators, orla, seeding equipment, mounted sprayers
  - 9 fertilizer distributing equipment

TABLE 6. Wheat, sprinkler-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Curry County, Projected 2009.  
 Planting Dates: August 15 - September 15  
 Harvesting Dates: June 15 - July 15

ITEM	PRICE	YIELD	BASE	TOTAL
<b>GROSS RETURNS</b>				
WHEAT	\$6.00	75.00 BUSHEL		\$450.00
DIRECT PAYMENT	\$0.00	75.00 BUSHEL	0.85	\$0.00
COUNTER CYCLICAL PAYMENT	\$0.00			\$0.00
GRAZING	\$40.00	1.00 ACRE		\$40.00
<b>TOTAL</b>				<b>\$490.00</b>

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$0.26	80 LBS	\$20.80		\$20.80
LIQUID FERT (28-0-0)	\$0.09	460 LBS	\$41.40		\$41.40
NITROGEN (N)	\$0.62	18 LBS	\$11.16		\$11.16
PHOSPHATE (P205)	\$0.58	46 LBS	\$26.68		\$26.68
INSECTICIDE (CUSTOM)	\$10.00	1 ACRE	\$10.00		\$10.00
HERBICIDE (CUSTOM)	\$11.17	1 ACRE	\$11.17		\$11.17
PUMP WATER*		10 AC. IN.			
CROP INSURANCE	\$0.15		\$0.15		\$0.15
<b>SUBTOTAL</b>			<b>\$121.36</b>		<b>\$121.36</b>

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
CHISEL	185 HP	0.15 HR		\$1.12	\$4.27	\$1.17	\$4.47	\$11.04
DISC (3X)	185 HP	0.33 HR		\$2.46	\$9.40	\$4.98	\$10.93	\$27.77
FERT SISPREADER	140 HP	0.05 HR		\$0.37	\$1.07	\$0.22	\$2.14	\$3.81
DRILL	140 HP	0.13 HR		\$0.97	\$2.79	\$0.79	\$7.84	\$12.39
IRRIGATE (7X)		0.70 HR		\$5.08	\$40.40	\$0.00	\$5.59	\$51.06
<b>SUBTOTAL</b>		<b>1.36 HR</b>		<b>\$9.99</b>	<b>\$57.94</b>	<b>\$7.16</b>	<b>\$30.98</b>	<b>\$106.07</b>

HARVEST OPERATIONS								
COMBINE (CUSTOM)				\$24.55				\$24.55
HAUL (C (CUSTOM)				\$12.00				\$12.00
<b>SUBTOTAL</b>				<b>\$36.55</b>				<b>\$36.55</b>

OVERHEAD EXPENSES								
DOWNTIME		0.17 HR		\$1.23				\$1.23
EMPLOYEE BENEFITS				\$1.80				\$1.80
INSURANCE			\$0.20					\$0.20
LAND TAXES						\$109.00		\$109.00
SUPERVISION AND MANAGEMENT				\$35.26				\$35.26
OTHER EXPENSES			\$48.52					\$48.52
<b>SUBTOTAL</b>		<b>0.17 HR</b>	<b>\$48.72</b>	<b>\$38.28</b>		<b>\$109.00</b>		<b>\$196.01</b>

TOTAL OPERATING EXPENSES 1.53 HR \$206.64 \$48.27 \$57.94 \$7.16 \$139.98 \$459.98

NET OPERATING PROFIT \$30.02

INTEREST ON OPERATING CAPITAL ( \$80.00 @ 7.50% ) \$6.00  
 INTEREST ON EQUIPMENT INVESTMENT \$16.68

RETURN TO LAND AND RISK \$7.34

\* Pump water costs are shown under irrigation in the preharvest operations section.

BUDGET SUMMARY

GROSS RETURN		\$490.00	
VARIABLE OPERATING EXPENSES	\$271.73		
RETURN OVER VARIABLE EXPENSES	\$218.27	(GROSS MARGIN)	
FIXED EXPENSES	\$139.98		
NET FARM INCOME	\$78.29	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$48.27		
NET OPERATING PROFIT	\$30.02	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$22.68		
RETURN TO LAND AND RISK	\$7.34		

TABLE 7. Grain sorghum, sprinkler-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Curry County, Projected 2009.  
 Planting Dates: May 15 - June 15  
 Harvesting Dates: October 15 - November 15

ITEM	PRICE	YIELD	BASE	TOTAL
<b>GROSS RETURNS</b>				
GRAIN SORGHUM	\$7.70	65.00 CWT		\$500.50
DIRECT PAYMENT	\$0.00	65.00 CWT	0.85	\$0.00
COUNTER CYCLICAL PAYMENT	\$0.00	0.00 CWT		\$0.00
GRAZING	\$9.00	1.00 ACRE		\$9.00
<b>TOTAL</b>				<b>\$509.50</b>

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$1.69	5 LBS	\$8.45		\$8.45
LIQUID FERT (28-0-0)	\$0.09	500 LBS	\$45.00		\$45.00
NITROGEN (N)	\$0.62	25 LBS	\$15.50		\$15.50
PHOSPHATE (P205)	\$0.58	50 LBS	\$29.00		\$29.00
HERBICIDE (CUSTOM)	\$11.57	1 X/ACRE	\$11.57		\$11.57
INSECTICIDE (CUSTOM)	\$5.68	1 X/ACRE	\$5.68		\$5.68
TRACE ELEMENTS	\$16.00	1 ACRE	\$16.00		\$16.00
PUMP WATER*		16 AC. IN.			
CROP INSURANCE	\$0.29		\$0.29		\$0.29
<b>SUBTOTAL</b>			<b>\$131.50</b>		<b>\$131.50</b>

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	185 HP	0.11 HR		\$0.82	\$3.13	\$1.66	\$3.64	\$9.26
CHISEL	185 HP	0.15 HR		\$1.12	\$4.27	\$1.17	\$4.47	\$11.04
DISC (2X)	185 HP	0.22 HR		\$1.64	\$6.27	\$3.32	\$7.29	\$18.51
FERT SPREADER	140 HP	0.05 HR		\$0.37	\$1.07	\$0.22	\$2.14	\$3.81
ROD WEEDER	185 HP	0.08 HR		\$0.60	\$2.28	\$0.52	\$2.66	\$6.06
PLANT ER	140 HP	0.17 HR		\$1.27	\$3.65	\$1.09	\$12.47	\$18.48
CULTIVATOR	140 HP	0.13 HR		\$0.97	\$2.79	\$1.05	\$8.06	\$12.87
IRRIGATE (10X)		1.00 HR		\$7.25	\$64.63	\$0.00	\$8.95	\$80.83
<b>SUBTOTAL</b>		<b>1.91 HR</b>		<b>\$14.03</b>	<b>\$88.11</b>	<b>\$9.03</b>	<b>\$49.68</b>	<b>\$160.85</b>

HARVEST OPERATIONS				
COMBINE (CUSTOM)			\$28.43	\$28.43
HAUL (CUSTOM)			\$12.35	\$12.35
<b>SUBTOTAL</b>			<b>\$40.78</b>	<b>\$40.78</b>

OVERHEAD EXPENSES				
DOWNTIME		0.22 HR	\$1.60	\$1.60
EMPLOYEE BENEFITS			\$2.53	\$2.53
INSURANCE			\$0.28	\$0.28
LAND TAXES				\$109.00
SUPERVISION AND MANAGEMENT			\$37.12	\$37.12
OTHER EXPENSES			\$48.52	\$48.52
<b>SUBTOTAL</b>		<b>0.22 HR</b>	<b>\$48.80</b>	<b>\$199.05</b>

<b>TOTAL OPERATING EXPENSES</b>		<b>2.13 HR</b>	<b>\$221.08</b>	<b>\$55.28</b>	<b>\$88.11</b>	<b>\$9.03</b>	<b>\$158.68</b>	<b>\$532.18</b>
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NET OPERATING PROFIT (\$22.68)

INTEREST ON OPERATING CAPITAL	(	\$93.43	@	7.50%	)	\$7.01
INTEREST ON EQUIPMENT INVESTMENT						\$26.48

**RETURN TO LAND AND RISK (\$56.16)**

\* Pump water costs are shown under irrigation in the preharvest operations section.  
 BUDGET SUMMARY

GROSS RETURN		\$509.50	
VARIABLE OPERATING EXPENSES	\$318.22		
RETURN OVER VARIABLE EXPENSES		\$191.28	(GROSS MARGIN)
FIXED EXPENSES	\$158.68		
NET FARM INCOME		\$32.60	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$55.28		
NET OPERATING PROFIT		(\$22.68)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$33.48		
<b>RETURN TO LAND AND RISK</b>		<b>(\$56.16)</b>	

TABLE 8. Summary of per acre costs and returns for a 640 acre farm with above average management, Curry County, Projected 2009.

	WHEAT	GRAIN SORGHUM
	BUSHEL	CWT
PRIMARY YIELD	75.00	65.00
PRIMARY PRICE	\$6.00	\$7.70
GOVERNMENT PAYMENTS	\$0.00	\$0.00
SECOND INCOME	\$40.00 ACRE	\$9.00 ACRE
GROSS RETURN	\$490.00	\$509.50
CASH OPERATING EXPENSES		
SEED	\$20.80	\$8.45
FERTILIZER	\$79.24	\$105.50
CHEMICALS	\$21.17	\$17.25
CROP INSURANCE	\$0.15	\$0.29
OTHER PURCHASED INPUTS		
CANAL WATER		
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$17.54	\$23.47
FUEL-IRRIGATION	\$40.40	\$64.63
REPAIRS	\$7.16	\$9.03
CUSTOM CHARGES	\$36.55	\$40.78
LAND TAXES	\$109.00	\$109.00
OTHER EXPENSES	\$48.72	\$48.80
TOTAL CASH EXPENSES	\$380.73	\$427.22
RETURN OVER CASH EXPENSES	\$109.27	\$82.28
FIXED EXPENSES	\$30.98	\$49.68
TOTAL EXPENSES	\$411.71	\$476.90
NET FARM INCOME	\$78.29	\$32.60
LABOR AND MANAGEMENT COSTS	\$48.27	\$55.28
NET OPERATING PROFIT	\$30.02	(\$22.68)
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL	\$6.00	\$7.01
INTEREST ON EQUIPMENT INVESTMENT	\$16.68	\$26.48
TOTAL CAPITAL COSTS	\$22.68	\$33.48
RETURN TO LAND AND RISK	\$7.34	(\$56.16)

Flex Computation

54.99

19.99

TABLE 9. Whole farm summary, Curry County,  
Projected 2009.

GROSS RETURNS		
WHEAT	255 ACRES	
CROP		\$114,750
GRAZING		\$10,200
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
GRAIN SORGHUM	170 ACRES	
CROP		\$85,085
GRAZING		\$1,530
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
GROSS RETURN		<u>\$211,565</u>
CASH OPERATING EXPENSES		
SEED		\$8,301
FERTILIZER		\$44,084
CHEMICALS		\$9,920
CROP INSURANCE		\$100
OTHER PURCHASED INPUTS		\$0
CANAL WATER		\$0
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$9,779
FUEL-IRRIGATION		\$24,318
REPAIRS		\$3,898
CUSTOM CHARGES		\$18,995
LAND TAXES		\$54,500
OTHER EXPENSES		\$24,375
TOTAL CASH EXPENSES		<u>\$198,270</u>
RETURN OVER CASH EXPENSES		\$13,295
FIXED EXPENSES		\$18,667
TOTAL EXPENSES		\$216,937
NET FARM INCOME		(\$5,372)
LABOR AND MANAGEMENT COSTS		\$25,328
NET OPERATING PROFIT		(\$30,700)
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$3,171
INTEREST ON EQUIPMENT INVESTMENT		\$10,004
TOTAL CAPITAL COSTS		<u>\$13,176</u>
RETURN TO LAND AND RISK		<u>(\$43,875)</u>

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$500 /ACRE	(\$53,475)	-6.67%
\$1,000 /ACRE	(\$63,075)	-3.94%
\$1,500 /ACRE	(\$72,675)	-2.79%
\$2,000 /ACRE	(\$82,275)	-2.16%
\$2,500 /ACRE	(\$91,875)	-1.76%

\* 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)