

MICROCOMPUTER CROP COST AND RETURN GENERATOR

BUDGET AREA..... CIBOLA COUNTY Projected 2009.
FARM SIZE..... 10.00 ACRES
IRRIGATION TYPE..... FLOOD
NUMBER OF CROPS..... 3

VERSION 1.0

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

BUDGET AREA.....	CIBOLA COUNTY		
FARM SIZE.....	10 ACRES		
IRRIGATION TYPE.....	FLOOD		
NUMBER OF CROPS.....	3		
	WATER USE		
ACREAGE SUMMARY:	LAND USE (ACRES)	AC.IN. PER AC.	TOTAL AC.IN.
ALFALFA ESTABLISHMENT	0.5	18	9
ALFALFA	4.0	48	192
PASTURE ESTABLISHMENT	0.5	18	9
PASTURE	4.0	30	120
CORN	1.0	30	30
TOTAL	10.00		360
	ACRE FEET PER ACRE OF WATER RIGHTS		3.00

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

Item		
Labor Wage Rate:	\$/hour	\$7.25
Purchased Inputs		
Seed:		
Alfalfa	\$/pound	\$4.00
Oats	\$/pound	\$0.42
Corn	\$/bag	\$220.00
Wheat	\$/pound	\$0.26
Pasture	\$/pound	\$3.55
Baling wire	\$/pound	\$0.55
Gopher control	\$/acre	\$1.00
Canal water	\$/acre	\$5.00
Energy:		
Diesel fuel	\$/gallon	\$2.80
Gasoline	\$/gallon	\$2.50
Electricity	cents/KwHr	11.55
Employee Liability Insurance	\$/ \$1,000 wages	\$12.00
Employee Benefits	percent/wages	12.00%
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	\$36.00 /acre (full value)	\$0.31
Personal Property Tax Rate	- NR \$/ \$1,000 (Assessed - R Value)	\$26.18 \$25.08
Supervision Factors	\$/labor hour	\$0.50
Management Rate	percent	4.00%

TABLE 3. Overhead cost information for Cibola County,
Projected 2009.

Item		
Electricity (Domestic & Shop)		\$0.00 per month
Telephone		\$0.00 per month
Accounting & Legal		\$139
Misc. Supplies & Hand Tools		\$273
Pickup and Auto		
miles 2,900 @ \$0.415 per mile		\$1,204
Insurance		
- general liability (non-employee)		\$0
- fire/theft		\$0
Property Taxes		
- non-planted land		\$0
- other than land & machinery		\$116
Building repairs and maintenance		\$116
Dues, fees, publications		\$116
Farmstead Equipment		\$0
	Total	<u>\$1,847</u>
	Total Per Planted Acre	\$230.91

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Table 1: Summary Statistics	
Variable	Mean
Y1	1.2
Y2	1.5
Y3	1.8
Y4	2.1
Y5	2.4
Y6	2.7
Y7	3.0
Y8	3.3
Y9	3.6
Y10	3.9
Y11	4.2
Y12	4.5
Y13	4.8
Y14	5.1
Y15	5.4
Y16	5.7
Y17	6.0
Y18	6.3
Y19	6.6
Y20	6.9
Y21	7.2
Y22	7.5
Y23	7.8
Y24	8.1
Y25	8.4
Y26	8.7
Y27	9.0
Y28	9.3
Y29	9.6
Y30	9.9
Y31	10.2
Y32	10.5
Y33	10.8
Y34	11.1
Y35	11.4
Y36	11.7
Y37	12.0
Y38	12.3
Y39	12.6
Y40	12.9
Y41	13.2
Y42	13.5
Y43	13.8
Y44	14.1
Y45	14.4
Y46	14.7
Y47	15.0
Y48	15.3
Y49	15.6
Y50	15.9
Y51	16.2
Y52	16.5
Y53	16.8
Y54	17.1
Y55	17.4
Y56	17.7
Y57	18.0
Y58	18.3
Y59	18.6
Y60	18.9
Y61	19.2
Y62	19.5
Y63	19.8
Y64	20.1
Y65	20.4
Y66	20.7
Y67	21.0
Y68	21.3
Y69	21.6
Y70	21.9
Y71	22.2
Y72	22.5
Y73	22.8
Y74	23.1
Y75	23.4
Y76	23.7
Y77	24.0
Y78	24.3
Y79	24.6
Y80	24.9
Y81	25.2
Y82	25.5
Y83	25.8
Y84	26.1
Y85	26.4
Y86	26.7
Y87	27.0
Y88	27.3
Y89	27.6
Y90	27.9
Y91	28.2
Y92	28.5
Y93	28.8
Y94	29.1
Y95	29.4
Y96	29.7
Y97	30.0
Y98	30.3
Y99	30.6
Y100	30.9

Table 2: Regression Results	
Variable	Coefficient
X1	0.5
X2	0.6
X3	0.7
X4	0.8
X5	0.9
X6	1.0
X7	1.1
X8	1.2
X9	1.3
X10	1.4
X11	1.5
X12	1.6
X13	1.7
X14	1.8
X15	1.9
X16	2.0
X17	2.1
X18	2.2
X19	2.3
X20	2.4
X21	2.5
X22	2.6
X23	2.7
X24	2.8
X25	2.9
X26	3.0
X27	3.1
X28	3.2
X29	3.3
X30	3.4
X31	3.5
X32	3.6
X33	3.7
X34	3.8
X35	3.9
X36	4.0
X37	4.1
X38	4.2
X39	4.3
X40	4.4
X41	4.5
X42	4.6
X43	4.7
X44	4.8
X45	4.9
X46	5.0
X47	5.1
X48	5.2
X49	5.3
X50	5.4
X51	5.5
X52	5.6
X53	5.7
X54	5.8
X55	5.9
X56	6.0
X57	6.1
X58	6.2
X59	6.3
X60	6.4
X61	6.5
X62	6.6
X63	6.7
X64	6.8
X65	6.9
X66	7.0
X67	7.1
X68	7.2
X69	7.3
X70	7.4
X71	7.5
X72	7.6
X73	7.7
X74	7.8
X75	7.9
X76	8.0
X77	8.1
X78	8.2
X79	8.3
X80	8.4
X81	8.5
X82	8.6
X83	8.7
X84	8.8
X85	8.9
X86	9.0
X87	9.1
X88	9.2
X89	9.3
X90	9.4
X91	9.5
X92	9.6
X93	9.7
X94	9.8
X95	9.9
X96	10.0
X97	10.1
X98	10.2
X99	10.3
X100	10.4

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TABLE 6. Alfalfa hay, flood-irrigated, budgeted per acre costs and returns for a 10 acre part-time farm, Cibola County, Projected 2009.

Harvest Dates: June 15 - September 15

ITEM	PRICE	YIELD	TOTAL
GROSS RETURNS			
ALFALFA HAY	\$130.00	3.50 TONS (IN FIELD)	\$455.00
GRAZING	\$10.00	1.00 ACRE	\$10.00
TOTAL			\$465.00

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
WIRE	\$0.55	30 LBS	\$16.50		\$16.50
ESTABLISHMENT: Principal		10 YEARS		\$71.62	\$71.62
: Interest				\$49.06	\$49.06
CANAL WATER		48 AC. IN.	\$5.00		\$5.00
SUBTOTAL			\$21.50	\$120.67	\$142.17

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
IRRIGATE (6X)		3.75 HR		\$27.19				\$27.19
SUBTOTAL		3.75 HR		\$27.19	\$0.00	\$0.00	\$0.00	\$27.19

HARVEST OPERATIONS

SWATHER (CUSTOM) (3X)			\$17.50					\$17.50
BALER (3X)	40 HP	1.95 HR		\$14.14	\$18.23	\$2.40	\$160.81	\$195.59
SUBTOTAL		1.95 HR	\$17.50	\$14.14	\$18.23	\$2.40	\$160.81	\$213.09

OVERHEAD EXPENSES

DOWNTIME		0.49 HR		\$3.53				\$3.53
EMPLOYEE BENEFITS				\$4.96				\$4.96
INSURANCE			\$0.50					\$0.50
LAND TAXES						\$0.31		\$0.31
SUPERVISION AND MANAGEMENT				\$21.45				\$21.45
OTHER EXPENSES			\$230.91					\$230.91
SUBTOTAL		0.49 HR	\$231.41	\$29.94		\$0.31		\$261.67

TOTAL OPERATING EXPENSES		6.19 HR	\$270.41	\$71.27	\$18.23	\$2.40	\$281.80	\$644.11
NET OPERATING PROFIT								(\$179.11)
INTEREST ON OPERATING CAPITAL		(\$13.93 @	7.50%)				\$1.04
INTEREST ON EQUIPMENT INVESTMENT								\$162.19
RETURN TO LAND AND RISK								(\$342.35)

BUDGET SUMMARY

GROSS RETURN		\$465.00	
VARIABLE OPERATING EXPENSES	\$291.04		
RETURN OVER VARIABLE EXPENSES		\$173.96	(GROSS MARGIN)
FIXED EXPENSES	\$281.80		
NET FARM INCOME		(\$107.84)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$71.27		
NET OPERATING PROFIT		(\$179.11)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$163.24		
RETURN TO LAND AND RISK		(\$342.35)	

TABLE 7. Permanent pasture establishment, flood-irrigated, budgeted per acre costs and returns for a 10 acre part-time farm, Cibola County,
 Projected 2009.
 Planting Dates: May 15 - July 1

ITEM	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
<u>PURCHASED INPUTS</u>								
GRASS SEED	\$3.55	15 LBS	\$53.25					\$53.25
CANAL WATER		18 AC. IN.	\$5.00					\$5.00
SUBTOTAL			\$58.25					\$58.25
<u>PREHARVEST OPERATIONS</u>								
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PLOW	40 HP	1.31 HR		\$9.50	\$12.25	\$1.82	\$58.30	\$81.87
DISC (2X)	40 HP	1.06 HR		\$7.69	\$9.91	\$1.93	\$75.42	\$94.95
DRAG	40 HP	0.31 HR		\$2.25	\$2.90	\$0.34	\$23.80	\$29.28
DRILL	40 HP	0.41 HR		\$2.97	\$3.83	\$0.80	\$12.69	\$20.29
BORDER DISC	40 HP	0.10 HR		\$0.73	\$0.94	\$0.20	\$109.64	\$111.50
IRRIGATE (3X)		2.25 HR		\$16.31				\$16.31
SUBTOTAL		5.44 HR		\$39.44	\$29.83	\$5.09	\$279.85	\$354.21
<u>OVERHEAD EXPENSES</u>								
DOWNTIME		0.80 HR		\$5.78				\$5.78
EMPLOYEE BENEFITS				\$4.73				\$4.73
INSURANCE			\$0.47					\$0.47
LAND TAXES							\$0.31	\$0.31
SUPERVISION AND MANAGEMENT				\$19.22				\$19.22
SUBTOTAL		0.80 HR	\$0.47	\$29.73			\$0.31	\$30.52
<u>TOTAL OPERATING EXPENSES</u>		6.24 HR	\$58.72	\$69.17	\$29.83	\$5.09	\$280.17	\$442.98

TABLE 8. Permanent pasture, flood-irrigated, budgeted per acre costs and returns for a 10 acre part-time farm, Cibola County, Projected 2009.

Harvest Dates: Year-round

ITEM	PRICE	YIELD	TOTAL
GROSS RETURNS			
PASTURE	\$12.00	5.00 AUMS	\$60.00
TOTAL			\$60.00

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
ESTABLISHMENT: Principal		20 YEARS		\$22.15	\$22.15
: Interest				\$7.83	\$7.83
CANAL WATER		30 AC. IN.	\$5.00		\$5.00
SUBTOTAL			\$5.00	\$29.98	\$34.98

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
IRRIGATE (4X)		3.00 HR		\$21.75				\$21.75
SUBTOTAL		3.00 HR		\$21.75				\$21.75

OVERHEAD EXPENSES	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME	0.00 HR		\$0.00				\$0.00
EMPLOYEE BENEFITS			\$2.61				\$2.61
INSURANCE			\$0.26				\$0.26
LAND TAXES						\$0.31	\$0.31
SUPERVISION AND MANAGEMENT			\$3.90				\$3.90
OTHER EXPENSES			\$230.91				\$230.91
SUBTOTAL	0.00 HR		\$231.17	\$6.51		\$0.31	\$238.00

TOTAL OPERATING EXPENSES 3.00 HR \$236.17 \$28.26 \$0.00 \$0.00 \$30.29 \$294.73

NET OPERATING PROFIT (\$234.73)

INTEREST ON OPERATING CAPITAL (\$2.50 @ 7.50%) \$0.19
 INTEREST ON EQUIPMENT INVESTMENT \$0.00

RETURN TO LAND AND RISK (\$234.91)

BUDGET SUMMARY

GROSS RETURN		\$60.00	
VARIABLE OPERATING EXPENSES	\$236.17		
RETURN OVER VARIABLE EXPENSES		(\$176.17)	(GROSS MARGIN)
FIXED EXPENSES	\$30.29		
NET FARM INCOME		(\$206.47)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$28.26		
NET OPERATING PROFIT		(\$234.73)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$0.19		
RETURN TO LAND AND RISK		(\$234.91)	

TABLE 9. Field corn, flood-irrigated, budgeted per acre costs and returns for a 10 acre part-time farm, Cibola County, Projected 2009.

Planting Dates: May 25 - June 25

Harvest Dates: October 15 - November 20

ITEM	PRICE	YIELD	TOTAL
GROSS RETURNS			
CORN	\$7.32	40.00 CWT	\$292.86
TOTAL			\$292.86

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
CORN SEED	\$2.75	10 000	\$27.50		\$27.50
CANAL WATER		30 AC. IN.	\$5.00		\$5.00
SUBTOTAL			\$32.50		\$32.50

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PLOW	40 HP	1.31 HR		\$9.50	\$12.25	\$1.82	\$58.30	\$81.87
DISC (2X)	40 HP	1.06 HR		\$7.69	\$9.91	\$1.93	\$75.42	\$94.95
DRAG	40 HP	0.31 HR		\$2.25	\$2.90	\$0.34	\$23.80	\$29.28
HAND RIDGE		10.00 HR		\$72.50				\$72.50
HAND PLANT		5.00 HR		\$36.25				\$36.25
HAND HOE		5.00 HR		\$36.25				\$36.25
IRRIGATE (3X)		2.25 HR		\$16.31				\$16.31
SUBTOTAL		24.93 HR		\$180.74	\$25.06	\$4.09	\$157.53	\$367.41

HARVEST OPERATIONS

HAND PICK		25.00 HR		\$181.25				\$181.25
SUBTOTAL		25.00 HR		\$181.25	\$0.00	\$0.00	\$0.00	\$181.25

OVERHEAD EXPENSES

DOWNTIME		0.67 HR		\$4.86				\$4.86
EMPLOYEE BENEFITS				\$43.44				\$43.44
INSURANCE			\$4.34					\$4.34
LAND TAXES							\$0.31	\$0.31
SUPERVISION AND MANAGEMENT				\$23.65				\$23.65
OTHER EXPENSES			\$230.91					\$230.91
SUBTOTAL		0.67 HR	\$235.26	\$71.95			\$0.31	\$307.52

TOTAL OPERATING EXPENSES 50.60 HR \$267.76 \$433.94 \$25.06 \$4.09 \$157.84 \$888.68

NET OPERATING PROFIT (\$595.82)

INTEREST ON OPERATING CAPITAL (\$23.54 @ 7.50%) \$1.77
 INTEREST ON EQUIPMENT INVESTMENT \$167.04

RETURN TO LAND AND RISK (\$764.63)

BUDGET SUMMARY

GROSS RETURN	\$292.86	
VARIABLE OPERATING EXPENSES	\$296.90	
RETURN OVER VARIABLE EXPENSES	(\$4.05)	(GROSS MARGIN)
FIXED EXPENSES	\$157.84	
NET FARM INCOME	(\$161.88)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$433.94	
NET OPERATING PROFIT	(\$595.82)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$168.81	
RETURN TO LAND AND RISK	(\$764.63)	

TABLE 10. Summary of per acre costs and returns, 10 acre part-time farm, Cibola County,
Projected 2009.

	ALFALFA ESTABLISHMENT	ALFALFA HAY	PERMANENT PASTURE ESTABLISHMENT	PERMANENT PASTURE	FIELD CORN
	TONS	TONS		AUMS	CWT
PRIMARY YIELD	2.00	3.50		5.00	40.00
PRIMARY PRICE	\$120.00	\$130.00		\$12.00	\$7.32
GOVERNMENT PAYMENTS	\$0.00	\$0.00		\$0.00	\$0.00
SECOND INCOME	\$0.00	\$10.00		\$0.00	\$0.00
GROSS RETURN	\$240.00	\$465.00		\$60.00	\$292.86
CASH OPERATING EXPENSES					
SEED	\$101.00		\$53.25		\$27.50
FERTILIZER					
CHEMICALS					
CROP INSURANCE					
OTHER PURCHASED INPUTS	\$9.43	\$16.50			
CANAL WATER	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$38.80	\$18.23	\$29.83	\$0.00	\$25.06
FUEL-IRRIGATION					
REPAIRS	\$6.22	\$2.40	\$5.09	\$0.00	\$4.09
CUSTOM CHARGES	\$17.50	\$17.50			
LAND TAXES	\$0.31	\$0.31	\$0.31	\$0.31	\$0.31
OTHER EXPENSES	\$0.56	\$231.41	\$0.47	\$231.17	\$235.26
TOTAL CASH EXPENSES	\$178.82	\$291.36	\$93.95	\$236.49	\$297.22
RETURN OVER CASH EXPENSES	\$61.18	\$173.64	(\$93.95)	(\$176.49)	(\$4.36)
FIXED EXPENSES	\$357.26	\$281.49	\$279.85	\$29.98	\$157.53
TOTAL EXPENSES	\$536.08	\$572.84	\$373.80	\$266.47	\$454.74
NET FARM INCOME	(\$296.08)	(\$107.84)	(\$373.80)	(\$206.47)	(\$161.88)
LABOR AND MANAGEMENT COSTS	\$90.98	\$71.27	\$69.17	\$28.26	\$433.94
NET OPERATING PROFIT	(\$387.07)	(\$179.11)	(\$442.98)	(\$234.73)	(\$595.82)
CAPITAL COSTS					
INTEREST ON OPERATING CAPITAL	\$5.20	\$1.04		\$0.19	\$1.77
INTEREST ON EQUIPMENT INVESTMENT	\$323.92	\$162.19		\$0.00	\$167.04
TOTAL CAPITAL COSTS	\$329.11	\$163.24	\$0.00	\$0.19	\$168.81
RETURN TO LAND AND RISK	(\$716.18)	(\$342.35)	(\$442.98)	(\$234.91)	(\$764.63)

TABLE 11. Whole farm summary, Cibola County,
Projected 2009.

GROSS RETURNS		
ALFALFA HAY	4 ACRES	
CROP		\$1,820
GRAZING		\$40
PASTURE	4 ACRES	
CROP		\$240
FIELD CORN	1 ACRES	
CROP		\$293
GROSS RETURN		\$2,393
CASH OPERATING EXPENSES		
SEED		\$105
FERTILIZER		\$0
CHEMICALS		\$0
CROP INSURANCE		\$0
OTHER PURCHASED INPUTS		\$71
CANAL WATER		\$50
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$132
FUEL-IRRIGATION		\$0
REPAIRS		\$19
CUSTOM CHARGES		\$79
LAND TAXES		\$3
OTHER EXPENSES		\$2,086
TOTAL CASH EXPENSES		\$2,545
RETURN OVER CASH EXPENSES		(\$152)
FIXED EXPENSES		\$1,347
TOTAL EXPENSES		\$3,892
NET FARM INCOME		(\$1,499)
LABOR AND MANAGEMENT COSTS		\$912
NET OPERATING PROFIT		(\$2,411)
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$9
INTEREST ON EQUIPMENT INVESTMENT		\$978
TOTAL CAPITAL COSTS		\$987
RETURN TO LAND AND RISK		(\$3,398)

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$1,000 /ACRE	(\$3,698)	-10.89%
\$2,500 /ACRE	(\$4,148)	-6.49%
\$4,000 /ACRE	(\$4,598)	-4.62%
\$5,500 /ACRE	(\$5,048)	-3.59%
\$7,000 /ACRE	(\$5,498)	-2.94%
\$8,500 /ACRE	(\$5,948)	-2.48%

* 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)