# MICROCOMPUTER CROP COST AND RETURN GENERATOR

BUDGET AREA...... VALENCIA & SOUTHERN BERNALILLO COUNTProjected 2009.

FARM SIZE...... 100.00 ACRES

IRRIGATION TYPE..... FLOOD

NUMBER OF CROPS...... 4

VERSION 1.0

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TABLE 1. Acreage Summary, Valencia and Souther Bernalillo Counties, Projected 2009.

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BUDGET AREA	VALENCIA & SOUTHERN BERNALILLO COUNTIES
FARM SIZE	100 ACRES
IRRIGATION TYPE	FLOOD
NUMBER OF CROPS	4

			WATER	USE	
ACREAGE SUMMARY:		LAND USE (ACRES)	AC.IN. PER AC.	TOTAL AC.IN.	
ALFALFA ESTABLISHM ALFALFA SMALL GRAIN HAY SORGHUM HAY CORN SILAGE ROADS, HOMESTEAD	ENT	12.00 * 71.00 10.00 10.00 * 10.00 * 9.00	12 44 24 24 42	144 3,124 240 240 420	
	TOTAL	100.00		4,168	
	ACRE FEE	T PER ACRE OF WATE	R RIGHTS	3.47	

<sup>\*</sup> DOUBLE-CROPPED

TABLE 2. Basic cost information for Valencia and Southern Bernalillo Counties, Projected 2009.

Item				
Labor Wage Rate:		\$/hour		\$7.25
Purchased Inputs:				
Fertilizer:				
Nitrogen (N)		\$/pound		\$0.62
Phosphate (P205)		\$/pound		\$0.58
Anhydrous Ammonia (I	NH3)	\$/ton		\$755.00
Seed:				
Alfalfa		\$/pound		\$4.00
Oats		\$/pound		\$0.42
Corn		\$/bag		\$220.00
Sorghum		\$/pound		\$1.69
Baling Wire		\$/pound		\$0.55
Canal water		\$/acre		\$28.00
Energy:				
Butane		\$/gallon		\$2.40
Diesel fuel		\$/gallon		\$2.80
Gasoline		\$/gallon		\$2.50
Electricity		Cents/KwF	łr	11.63
Natural Gas		\$/MCF		\$5.90
Employee Liability Insurance		\$/\$1,000 w	/ages	\$20.00
Employee Benefits		percent/wa	iges	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	\$483.0	0 /acre (full v	value)	\$5.16
Personal Property Tax Rate	- NR	\$/\$1,000	(Assessed	\$32.07
	- R		Value)	\$29.68
Supervision Factors				
Irrigation		\$/labor hou		\$1.00
Equipment & General		\$/labor hou	ır	\$0.50
Management Rate		percent		7.00%

TABLE 3. Overhead cost information for Valencia and Southern Bernalillo Counties, Projected 2009.

Item					
Electricity (Domestic &	Shop)		\$127.60	per month	\$1,531
Telephone			\$92.80	per month	\$1,114
Accounting & Legal					\$557
Misc. Supplies & Hand	Tools				\$563
Pickup and Auto					
miles	11,948	@	\$0.415 per mile		\$4,958
Insurance					
<ul> <li>general liability (non-</li> </ul>	-employee)				\$1,177
<ul> <li>fire/theft</li> </ul>					\$789
Property Taxes					
<ul> <li>non-planted land</li> </ul>					\$0
<ul> <li>other than land &amp; ma</li> </ul>	achinery				\$6,010
Building repairs and ma	aintenance				\$592
Dues, fees, publications	s				\$313
Farmstead Equipment					\$191
				Total	\$17,795
			Total per planted acre		\$195.55

## TABLE 4. Equipment summary for a 100 acre farm with above average management, Valencia and Southern Bernalillo Counties,

EQUIPMENT				FIX	ED COSTS						
ITEM & SIZE		ANNUAL HOURS OF USE	NUMBER	TOTAL VALUE	FUEL, OIL, LUBRICANT	REPAIR	FUEL, OIL PER HR	REPAIR PER HR	DEPRECIATION	TAXES	TOTAL PEI HR
TRACTOR	50 HP	79 41		\$6,888	\$741 \$631	\$85 \$86	\$9.35 \$15.22	\$1.08 \$2.07	\$899	\$96	\$12.5 \$32.2
RACTOR BALER, PTO	95 HP 2 WIRE	41 66	1	\$17,030	\$631	\$88 \$10	\$15.22	\$2.07	\$1,152 \$385	\$185 \$41	\$32.2 \$6.4
CULTIVATOR	4 ROW	4	1	\$1,500		\$8		\$1.86	\$200	\$16	\$51.4
AND PLANE	12 FT	5	1	\$2,500		\$0		\$0.10	\$333	\$27	\$75.0
NSC ISTER/PLANTER	12 FT 4 ROW	13	1	\$2,250 \$5,000		\$35 \$6		\$2.79 \$2.40	\$300 \$1,000	\$24 \$53	\$25.1 \$405.1
LOW (2-WAY)	3 BOTTOM	21	1	\$3,350		\$89		84.15	\$447	\$36	822.5
RILL	10 FT	8	1	\$1,800		\$7		\$0.86	\$360	\$19	\$47.4
WATHER	14FT	50	1	\$3,900	\$527	\$29	\$10.48	\$0.58	\$1,450	\$155	\$31.5
IORDER DISC	6 DISC	1	1	\$750		\$1		90.93	\$100	\$8	\$98.2
				\$46,568	\$1,898	\$357			\$6.625	\$860	

		-	QUIT III LITT L	131							
пем		NEW VALUE	USED VALUE	YEARS LIFE	EQUIP	MAX HOURS	FUEL UNITHR	LUBE COEF	ACCUM HOURS	AGE	INTEREST EXPENSE
TRACTOR	50 HP	17975.00	6888.00	20.00	1.00	800.00	3.40	0.10	1188.60	15.00	674.06
TRACTOR	95 HP	34550.00	17030.00	30.00	1.00	800.00	5.54	0.10	952.66	23.00	1295.63
BALER, PTO	2 WRE	7700.00	1600.00	20.00	2.00	500.00	0.00	0.00	1186.92	18.00	288.75
CULTIVATOR	4ROW	3000.00	1500.00	15.00	3.00	300.00	0.00	0.00	67.20	16.00	112.50
LAND PLANE	12 FT	5000.00	2500.00	15.00	4.00	300.00	0.00	0.00	76.80	16.00	187.50
DISC	12 FT	4500.00	2250.00	15.00	3.00	300.00	0.00	0.00	20128	16.00	168.75
LISTER/PLANTER	4 ROW	10000.00	5000.00	10.00	8.00	600.00	0.00	0.00	36.40	14.00	375.00
PLOW (2-WAY)	3 BOTTOM	6700.00	3350.00	15.00	3.00	300.00	0.00	0.00	343.04	16.00	251.25
DRILL	10 FT	3600.00	1800.00	10.00	8.00	100.00	0.00	0.00	104.00	13.00	135.00
SWATHER	14FT	29000.00	3900.00	20.00	2.00	800.00	3.12	0.20	703.36	14.00	1087.50
BORDER DISC	6 DISC	1500.00	750.00	15.00	3.00	300.00	0.00	0.00	17.60	16.00	58.25

IN	TEREST PE	RORATION	
	SMALL		CORN
ALFALFA	GRAIN	SORGHUM	FOR
HAY	HAY	HAY	SILAGE
dollar	s per acre		
7.15	4.34	5.70	3.57
0.00	39.10	5.32	47.23
3.68	0.92	1.84	0.00
0.00	0.00	0.00	11.25
0.00	9.38	0.00	9.38
0.00	4.56	2.28	4.56
0.00	0.00	0.00	37.50
0.00	7.85	0.00	7.85
0.00	4.22	4.22	0.00
13.85	3.46	6.93	0.00
0.00	2.56	0.00	0.00
24.68	76.38	26.28	121.34

					USAGE LIS	т			
UBE	ACCUM		INTEREST	ALFALFA EST.	ALFALFA HAY	SMALL GRAIN HAY	SORGHUM HAY	CORN FOR SILAGE	PER ACRE TOTALS
OEF	HOURS	AGE	EXPENSE						
					-hours per acre				
0.10	1188.60	15.00	674.06	0.30	0.84	0.51	0.67	0.42	2.74
0.10	952.66	23.00	1295.63	1.01	0.00	1.25	0.17	1.51	3.94
0.00	1186.92	18.00	288.75	0.00	0.84	0.21	0.42	0.00	1.47
0.00	67.20	16.00	112.50	0.00	0.00	0.00	0.00	0.42	0.42
0.00	76.80	16.00	187.50	0.00	0.00	0.24	0.00	0.24	0.48
0.00	201.28	16.00	168.75	0.34	0.00	0.34	0.17	0.34	1.19
0.00	36.40	14.00	375.00	0.00	0.00	0.00	0.00	0.26	0.26
0.00	343.04	16.00	251.25	0.67	0.00	0.67	0.00	0.67	2.01
0.00	104.00	13.00	135.00	0.25	0.00	0.25	0.25	0.00	0.75
0.20	703.36	14.00	1087.50	0.00	0.64	0.16	0.32	0.00	1.12
0.00	17.60	16.00	56.25	0.05	0.00	0.05	0.00	0.00	0.10

ALFALFA ESTABLISHMENT	ACRES:	12	PUMP WAT	TER:	
MACHINE	POWER UNIT	TIMES	ACCOMPLISH RATE	MENT TOTAL	CUSTOM
DISC	96 HP	1.00	0.17	0.17	
PLOW	96 HP	1.00	0.67	0.67	
DISC	96 HP	1.00	0.17	0.17	
LASER PLANE (CUSTOM)					70.71
BORDER DISC	50 HP	1.00	0.05	0.05	
DRILL	50 HP	1.00	0.25	0.25	
IRRIGATE (2X)		2.00	0.50	1.00	

LFALFA HAY	ACRES:	71	PUMP WAT	TER:	
MACHINE	POWER UNIT	TIMES	ACCOMPLISH RATE	MENT TOTAL	CUSTOM
IRRIGATE (8X)		8.00	0.50	4.00	
SWATHER (4X)	14 FT.	4.00	0.16	0.64	
BALER, PTO (4X) BALE WAGON (CUSTOM) (2X)	50 HP	4.00	0.21	0.84	0.39

SMALL GRAIN HAY	ACRES:	10	PUMP WAT		
MACHINE	POWER UNIT	TIMES	ACCOMPLISH RATE	TOTAL	CUSTOM
PLOW DISC (2X) PLANE BORDER DISC DRILL IRRIGATE (4X)	96 HP 96 HP 96 HP 50 HP 50 HP	1.00 2.00 1.00 1.00 1.00 4.00	0.87 0.17 0.24 0.05 0.25 0.50	0.67 0.34 0.24 0.05 0.25 2.00	
SWATHER BALER, PTO BALEWAGON	14 FT. 50 HP	1.00	0.16 0.21	0.16 0.21	0.39

SORGHUM HAY	ACRES:	10	PUMP WAT		
MACHINE	POWER UNIT	OVER			CUSTOM
DISC DRILL IRRIGATE (4X)	96 HP 50 HP	1.00 1.00 4.00	0.17 0.25 0.50	0.17 0.25 2.00	

SWATHER (2X)	14 FT.	2.00	0.16	0.32	
BALER, PTO (2X)	50 HP	2.00	0.21	0.42	
BALEWAGON					0.3

ORN SILAGE	ACRES:	10	PUMP WAT	ER:	
			ACCOMPLISH	MENT	
MACHINE	POWER UNIT	TIMES OVER	RATE	TOTAL	CUSTON
PLOW	96 HP	1.00	0.67	0.67	
DISC (2X) LAND PLANE	96 HP 96 HP	2.00	0.17	0.34	
LISTER/PLANTER CULTIVATOR (2X)	96 HP 50 HP	1.00	0.26	0.26	
IRRIGATE (8X)	3010	8.00	0.50	4.00	

of Use	1	2	3	4	5	6	7	8	9
									**
0	0.000000	0.000020	0.000620	0.000020	0.0000080	0.000140	0.000040	0.000240	0.000200
50	0.000000	0.000020	0.000620	0.000020	0.0000080	0.000140	0.000040	0.000240	0.000200
100	0.000000	0.000020	0.000500	0.000020	0.000140	0.000220	0.000100	0.000380	0.000300
200	0.000030	0.000030	0.000430	0.000040	0.000180	0.000260	0.000110	0.000510	0.000260
300	0.000030	0.000050	0.000390	0.000060	0.000230	0.000310	0.000140	0.000630	0.000400
400	0.000030	0.000060	0.000370	0.000090	0.000260	0.000340	0.000150	0.000710	0.000450
500	0.000030	0.000070	0.000380	0.000100	0.000280	0.000370	0.000170	0.0000800	0.000630
600	0.000030	0.000090	0.000340	0.000120	0.000310	0.000390	0.000190	0.000360	0.000530
700	0.000030	0.000100	0.000340	0.000130	0.000330	0.000410	0.000200	0.000910	0.000560
800	0.000030	0.000110	0.000320	0.000150	0.000350	0.000430	0.000210	0.000980	0.000590
900	0.000030	0.000120	0.000320	0.000160	0.000370	0.000450	0.000230	0.001020	0.000600
1000	0.000090	0.000130	0.000310	0.000180	0.000380	0.000460	0.000230	0.001070	0.000630
1200	0.000045	0.000145	0.000305	0.000205	0.000405	0.000480	0.000245	0.001135	0.000710
1400	0.000045	0.000170	0.000300	0.000230	0.000435	0.000510	0.000410	0.001260	0.000765
1500	0.000150	0.000170	0.000300	0.000230	0.000435	0.000510	0.000410	0.001260	0.000765
1600	0.000150	0.000190	0.000285	0.000255	0.000465	0.000525	0.000135	0.001235	0.000805
1800	0.000075	0.000170	0.000285	0.000285	0.000485	0.000550	0.000295		
2500 2500		0.000265	0.000280	0.000305	0.000505	0.000565	0.000310		
3000	0.000056								
3500	0.0000070								
4000	0.0000082								
4000 4500	0.000098								
4500 5000	0.000108								
5500	0.000122								
6000	0.000136								
6500	0.000148								
7000	0.000162								
7500	0.000116								
8000	0.000204								
0000	0.000204								

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TABLE 5. Alfalfa establishment, flood-irrigated, budgeted per acre costs and returns for a 100 acre farm with above average management, Valencia and Southern Bernalillo Counties,

Projected 2009.

Planting dates: August 15 - September 15 PURCHASED INPUTS QUANTITY ITEM PRICE TOTAL PURCHASED INPUTS 20 LBS 90 LBS 35 LBS 12 AC. IN. SEED PHOSPHATE (P2O5) NITROGEN (N) CANAL WATER \$4.00 \$0.58 \$0.62 \$80.00 \$80.00 \$52.20 \$21.70 \$52.20 \$21.70 \$153.90 SUBTOTAL \$153.90 POWER UNIT ACCOMPLISHMENT PURCHASED RATE INPUTS FUEL & LUBE FIXED COST PREHARVEST OPERATIONS REPAIRS TOTAL DISC
PLOW
DISC
LASER PLANE (CUSTOM)
BORDER DISC
DRILL
IRRIGATE (2X) \$14.51 \$55.92 \$14.51 \$70.71 \$6.47 \$19.63 \$7.25 96 HP 96 HP 96 HP 0.17 HR 0.67 HR 0.17 HR \$1.23 \$4.86 \$1.23 \$0.83 \$4.17 \$0.83 \$9.86 \$36.69 \$9.86 \$2.59 \$10.20 \$2.59 \$70.71 0.05 HR 0.25 HR 1.00 HR \$0.36 \$1.81 \$7.25 50 HP 50 HP \$0.10 \$0.49 \$0.47 \$2.34 \$5.54 \$14.99 SUBTOTAL 2.31 HR \$70.71 \$16.75 \$18.18 \$6.41 \$76.95 \$189.00 OVERHEAD EXPENSES DOWNTIME \$2.37 \$3.01 \$2.37 \$3.01 \$0.33 0.33 HR EMPLOYEE BENEFITS
INSURANCE
SUPERVISION AND MANAGEMENT \$0.33 \$25.66 \$25.66 SUBTOTAL 0.33 HR \$0.33 \$31.05 \$31.38

2.64 HR

\$47.79

\$224.94

\$18.18

\$6.41 \$76.95

\$374.28

TOTAL OPERATING EXPENSES

TABLE 6. Alfalfa hay, flood-irrigated, budgeted per acre costs and returns for a 100 acre farm with above average management, Valencia and Southern Bernalillo Counties, Projected 2009.

Harvesting dates: June 1 - October 15 PRICE YIELD TOTAL GROSS RETURNS ALFALFA HAY \$140.00 5.00 TONS (STACKED) \$700.00 GRAZING \$10.00 1.00 ACRE \$10.00 \$710.00 PURCHASED INPUTS FIXED PURCHASED INPUTS PRICE QUANTITY TOTAL COST PHOSPHATE (P2O5) \$0.58 90 LBS \$52.20 \$52.20 INSECTICIDE (CUSTOM) 1 X/ACRE \$21.71 WIRE 43 I BS \$15.39 \$15.39 \$0.36 ESTABLISHMENT: Principal 6 YEARS \$62.38 \$13.79 \$13.79 CANAL WATER 44 AC. IN. \$28.00 \$28.00 \$117.30 \$76.17 \$193.47 SUBTOTAL POWER UNIT ACCOMPLISHMENT PURCHASED RATE INPUTS FUEL & FIXED COST TOTAL PREHARVEST OPERATIONS LABOR REPAIRS IRRIGATE (8X) 4.00 HR \$29.00 \$29.00 HARVEST OPERATIONS SWATHER (4X) 14 FT. 0.64 HR \$4.64 \$32.17 \$6.71 \$0.37 \$20.45 BALER, PTO (4X) BALE WAGON (CUSTOM) (2X) 0.84 HR \$23,40 \$23,40 SUBTOTAL \$86.52 1.48 HR \$23,40 \$10.73 \$14.56 \$1.41 \$36,42 OVERHEAD EXPENSES DOWNTIME 0.37 HR \$2.68 \$2.68 EMPLOYEE BENEFITS INSURANCE \$7.15 \$7.15 \$0.79 \$0.79 LAND TAXES
SUPERVISION AND MANAGEMENT \$5.16 \$54.44 \$5.16 \$54.44 OTHER EXPENSES \$195.55 \$195.55 SUBTOTAL 0.37 HR \$196.34 \$5.16 \$265.78 TOTAL OPERATING EXPENSES 5.85 HR \$337.05 \$104.00 \$14.56 \$1.41 \$117.75 \$574.77 NET OPERATING PROFIT \$135.23 INTEREST ON OPERATING CAPITAL 7.50% \$61.93 @ \$4.64 INTEREST ON EQUIPMENT INVESTMENT \$24.68 RETURN TO LAND AND RISK \$105.90

BUDGET SUMMARY								
GROSS RETURN		\$710.00						
VARIABLE OPERATING EXPENSES	\$353.02							
RETURN OVER VARIABLE EXPENSES		\$356.98	(GROSS MARGIN)					
FIXED EXPENSES	\$117.75							
NET FARM INCOME		\$239.23	(RETURN TO CAPITAL, LABOR, LAND & RISK)					
LABOR AND MANAGEMENT COST	\$104.00							
NET OPERATING PROFIT		\$135.23	(RETURN TO CAPITAL, LAND & RISK)					
CAPITAL COSTS	\$29.32							
RETURN TO LAND AND RISK	,	\$105.90						

TABLE 7. Small grain hay, flood-irrigated, budgeted per acre costs and returns for a 100 acre farm with above average management, Valencia and Southern Bernalillo Counties, Projected 2009.

ITEM	PRICE		YIELD						TOTAL
GROSS RETURNS									
SMALL GRAIN HAY	\$130.00		2.50 TONS (	STACKED)					\$325.00
TOTAL								-	\$325.00
PURCHASED INPUTS	PRICE		QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
SEED	\$0.42		80 LBS	\$33.60					\$33.60
WIRE	\$0.36		26 LBS	\$9.31					\$9.31
CANAL WATER			24 AC. IN.	\$28.00					\$28.00
SUBTOTAL				\$70.91				-	\$70.91
	POWER		ACCOMPLISHMENT			FUEL &		FIXED	
PREHARVEST OPERATIONS	UNIT		RATE	INPUTS	LABOR	LUBE	REPAIRS	COST	TOTAL
PLOW	96 HP		0.67 HR		\$4.86	\$10.20	\$4.17	\$36.69	\$55.92
DISC (2X) PLANE	96 HP 96 HP		0.34 HR 0.24 HR		\$2.47 \$1.74	\$5.18 \$3.65	\$1.65 \$0.52	\$19.73 \$25.75	\$29.02 \$31.66
BORDER DISC	50 HP		0.05 HR		\$0.36	\$0.47	\$0.52	\$5.54	\$6.47
DRILL	50 HP		0.25 HR		\$1.81	\$2.34	\$0.49	\$14.99	\$19.63
IRRIGATE (4X)			2.00 HR		\$14.50				\$14.50
SUBTOTAL			3.55 HR		\$25.74	\$21.84	\$6.93	\$102.69	\$157.20
HARVEST OPERATIONS									
SWATHER	14 FT.		0.16 HR		\$1.16	\$1.68	\$0.09	\$5.11	\$8.04
BALER, PTO	50 HP		0.21 HR		\$1.52	\$1.96	\$0.26	\$3.99	\$7.74
BALEWAGON				\$27.30					\$27.30
SUBTOTAL		,	0.37 HR		\$2.68	\$3.64	\$0.35	\$9.11	\$43.08
OVERHEAD EXPENSES									
DOWNTIME			0.48 HR		\$3.48				\$3.48
EMPLOYEE BENEFITS					\$5.12				\$5.12
INSURANCE LAND TAXES				\$0.57				\$2.58	\$0.57 \$2.58
SUPERVISION AND MANAGEMENT					\$25.71			\$2.50	\$25.71
OTHER EXPENSES				\$97.77					\$97.77
SUBTOTAL		,	0.48 HR	\$98.34	\$34.31			\$2.58	\$135.23
TOTAL OPERATING EXPENSES			4.40 HR	\$169.25	\$62.73	\$25.48	\$7.28	\$114.38	\$406.42
NET OPERATING PROFIT									(\$81.42
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMEN	IT	(	\$42.98 @	7.50%	)				\$3.22 \$26.28
RETURN TO LAND AND RISK									(\$110.92
		BUDGET	SUMMARY						
CDOSS DETUDN									
GROSS RETURN VARIABLE OPERATING EXPENSES		\$202.01	\$325.00						
RETURN OVER VARIABLE EXPENSES		Ψ202.01	\$122.99 (GRO	SS MARGIN)					
FIXED EXPENSES		\$114.38	eo o:	IDN TO CARITY	LABORTE	ND 0 E.C.			
NET FARM INCOME LABOR AND MANAGEMENT COST		\$62.73	\$8.61 (RETU	JRN TO CAPITAL	LABOR, LA	ND & RISK)			

GROSS RETURN		\$325.00	
VARIABLE OPERATING EXPENSES	\$202.01	ψ0 <b>2</b> 0.00	
RETURN OVER VARIABLE EXPENSES		\$122.99	(GROSS MARGIN)
FIXED EXPENSES	\$114.38		
NET FARM INCOME		\$8.61	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$62.73		
NET OPERATING PROFIT		(\$54.12)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$29.51		
RETURN TO LAND AND RISK		(\$83.62)	

TABLE 8. Sorghum hay, flood-irrigated, budgeted per acre costs and returns for a 100 acre farm with above average management, Valencia and Southern Bernalillo Counties, Projected 2009.

Planting dates: July 1 - July 31

Harvesting dates: A	ugust 10 - September 30		
ITEM	PRICE	YIELD	
TURNO			_

TOTAL GROSS RETURNS SORGHUM HAY \$115.00 2.00 TONS (STACKED) \$230.00 GRAZING \$5.00 1.00 ACRE \$5.00 \$235.00 TOTAL PURCHASED INPUTS FIXED COST PURCHASED INPUTS PRICE QUANTITY TOTAL SEED \$1.69 35 LBS \$59.15 \$59.15 \$6.09 \$28.00 WIRE \$0.36 17 LBS \$6.09 CANAL WATER \$28.00 24 AC. IN. \$93.24 \$93.24 SUBTOTAL POWER UNIT ACCOMPLISHMENT PURCHASED RATE INPUTS FUEL & LUBE FIXED COST PREHARVEST OPERATIONS TOTAL 0.17 HR \$1.23 \$2.59 \$0.83 \$9.86 \$14.51 DRILL 50 HP 0.25 HR \$1.81 \$2.34 \$0.49 \$14.99 \$19.63 IRRIGATE (4X) 2.00 HR \$14.50 \$14.50 SUBTOTAL 2.42 HR \$17.55 \$4.93 \$1.31 \$24.85 \$48.64 HARVEST OPERATIONS SWATHER (2X) BALER, PTO (2X) 14 FT. 50 HP 0.32 HR 0.42 HR \$2.32 \$3.35 \$3.93 \$0.19 \$10.22 \$0.52 \$7.99 \$16.08 \$3.05 \$15.48 \$23.40 BALEWAGON \$23.40 \$54.96 SUBTOTAL 0.74 HR \$5.37 \$7.28 \$0.70 \$18.21 OVERHEAD EXPENSES DOWNTIME 0.29 HR \$2.10 \$2.10 EMPLOYEE BENEFITS \$4.12 \$0.46 INSURANCE \$0.46 LAND TAXES
SUPERVISION AND MANAGEMENT \$2.58 \$2.58 \$19.03 \$19.03 OTHER EXPENSES \$97.77 \$97.77 SUBTOTAL 0.29 HR \$98 23 \$25.26 \$2.58 \$126.07 TOTAL OPERATING EXPENSES \$322.90 3 45 HR \$191.47 \$48 17 \$12.21 \$2.02 \$45.65 NET OPERATING PROFIT (\$87.90) INTEREST ON OPERATING CAPITAL \$48.84 @ 7.50% ) \$3.66 INTEREST ON EQUIPMENT INVESTMENT \$26.28 RETURN TO LAND AND RISK (\$117.85) BUDGET SUMMARY GROSS RETURN VARIABLE OPERATING EXPENSES \$235.00 \$205.69 RETURN OVER VARIABLE EXPENSES FIXED EXPENSES \$29.31 (GROSS MARGIN) \$45.65 NET FARM INCOME LABOR AND MANAGEMENT COST (\$16.34) (RETURN TO CAPITAL, LABOR, LAND & RISK) \$48.17 (RETURN TO CAPITAL, LAND & RISK) (\$64.50)

NET OPERATING PROFIT CAPITAL COSTS \$29.95 RETURN TO LAND AND RISK (\$94.45)

TABLE 9. Com silage, flood-irrigated, budgeted per acre costs and returns for a 100 acre farm with above average management, Valencia and Southern Bernalillo Counties, Projected 2009.

Planting dates: May 1 - June 15

Harvesting dates: August 15 - September 30

Harvesting dates: August 15 - Sep	tember 30									
ITEM	PRICE		YIEL	.D						TOTAL
GROSS RETURNS CORN SILAGE	\$24.00		20.00	TONS (ST	ANDING)					\$480.00
TOTAL										\$480.00
PURCHASED INPUTS	PRICE		QUAN	ΓΙΤΥ	PURCHASED INPUTS				FIXED COST	TOTAL
SEED ANHYDROUS AMMONIA (NH3) HERBICIDE (GRANULAR) INSECTICIDE (GRANULAR) CANAL WATER	\$2.75 \$0.38 \$6.85 \$34.24		125 1 1	000 LBS ACRE ACRE AC. IN.	\$82.50 \$47.19 \$6.85 \$34.24 \$28.00					\$82.50 \$47.19 \$6.85 \$34.24 \$28.00
SUBTOTAL					\$198.78					\$198.78
PREHARVEST OPERATIONS	POWER UNIT		ACCOMPLI:		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PLOW DISC (2X) LAND PLANE LISTER/PLANTER CULTIVATOR (2X) IRRIGATE (8X)	96 HP 96 HP 96 HP 96 HP 50 HP		0.67 0.34 0.24 0.26 0.42 4.00	HR HR HR HR		\$4.86 \$2.47 \$1.74 \$1.89 \$3.05 \$29.00	\$10.20 \$5.18 \$3.65 \$3.96 \$3.93	\$4.17 \$1.65 \$0.52 \$1.16 \$1.23	\$19.73 \$25.75 \$113.73	\$55.92 \$29.02 \$31.66 \$120.74 \$35.08 \$29.00
SUBTOTAL			5.93	HR		\$42.99	\$26.92	\$8.74	\$222.78	\$301.43
OVERHEAD EXPENSES  DOWNTIME EMPLOYEE BENEFITS INSURANCE LAND TAXES SUPERVISION AND MANAGEMENT OTHER EXPENSES			0.48	HR	\$0.86 \$195.55	\$3.50 \$7.74 \$38.57			\$5.16	\$3.50 \$7.74 \$0.86 \$5.16 \$38.57 \$195.55
SUBTOTAL			0.48	HR	\$196.41	\$49.80			\$5.16	\$251.37
TOTAL OPERATING EXPENSES		•	6.41	HR	\$395.19	\$92.79	\$26.92	\$8.74	\$227.94	\$751.58
NET OPERATING PROFIT										(\$271.58)
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT		(	\$108.30	@	7.50%	)				\$8.12 \$121.34
RETURN TO LAND AND RISK										(\$401.05)
		BUDGET	SUMMARY							
GROSS RETURN VARIABLE OPERATING EXPENSES RETURN OVER VARIABLE EXPENSES FIXED EXPENSES		\$430.84 \$227.94	\$480.00 \$49.16	(GROSS	S MARGIN)					
NET FARM INCOME LABOR AND MANAGEMENT COST NET OPERATING PROFIT		\$92.79	(\$178.78) (\$271.58)		N TO CAPITAL, LA N TO CAPITAL, LA		& RISK)			
CAPITAL COSTS RETURN TO LAND AND RISK		\$129.47	(\$401.05)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					_	

TABLE 10. Summary of per acre costs and returns for a 100 acre farm with above average average management, Projected 2009.

Projected 2009.					
	ALFALFA ESTABLISHMENT	ALFALFA HAY	SMALL GRAIN HAY	SORGHUM HAY	CORN FOR SILAGE
		TONS	TONS	TONS	TONS
PRIMARY YIELD		5.00	2.50	2.00	20.00
PRIMARY PRICE		\$140.00	\$130.00	\$115.00	\$24.00
GOVERNMENT PAYMENTS		\$0.00	\$0.00	\$0.00	\$0.00
SECOND INCOME		\$10.00	\$0.00	\$5.00	\$0.00
GROSS RETURN		\$710.00	\$325.00	\$235.00	\$480.00
CASH OPERATING EXPENSES					
SEED	\$80.00		\$33.60	\$59.15	\$82.50
FERTILIZER	\$73.90	\$52.20	·		\$47.19
CHEMICALS	,	\$21.71			\$41.09
CROP INSURANCE		•			,
OTHER PURCHASED INPUTS		\$15.39	\$9.31	\$6.09	
CANAL WATER		\$28.00	\$28.00	\$28.00	\$28.00
FUEL, OIL & LUBRICANTS-EQUIPMENT FUEL-IRRIGATION	\$18.18	\$14.56	\$25.48	\$12.21	\$26.92
REPAIRS	\$6.41	\$1.41	\$7.28	\$2.02	\$8.74
CUSTOM CHARGES	\$70.71	\$23.40			
LAND TAXES		\$5.16	\$2.58	\$2.58	\$5.16
OTHER EXPENSES	\$0.33	\$196.34	\$98.34	\$98.23	\$196.41
TOTAL CASH EXPENSES	\$249.54	\$358.18	\$204.59	\$208.27	\$436.01
RETURN OVER CASH EXPENSES	(\$249.54)	\$351.82	\$120.41	\$26.73	\$43.99
FIXED EXPENSES	\$76.95	\$112.59	\$111.80	\$43.06	\$222.78
TOTAL EXPENSES	\$326.49	\$470.77	\$316.39	\$251.34	\$658.78
NET FARM INCOME	(\$326.49)	\$239.23	\$8.61	(\$16.34)	(\$178.78)
LABOR AND MANAGEMENT COSTS	\$47.79	\$104.00	\$62.73	\$48.17	\$92.79
NET OPERATING PROFIT	(\$374.28)	\$135.23	(\$54.12)	(\$64.50)	(\$271.58)
CAPITAL COSTS					
INTEREST ON OPERATING CAPITAL		\$4.64	\$3.22	\$3.66	\$8.12
INTEREST ON EQUIPMENT INVESTMENT		\$24.68	\$26.28	\$26.28	\$121.34
TOTAL CAPITAL COSTS	\$0.00	\$29.32	\$29.51	\$29.95	\$129.47
RETURN TO LAND AND RISK	(\$374.28)	\$105.90	(\$83.62)	(\$94.45)	(\$401.05)

TABLE 11. Whole farm summary, Valencia and Southern Bernalillo Counties, Projected 2009.

F10jected 200	J			
GROSS RETURNS				
ALFALFA HAY	71.00 ACRES			
CROP		\$49,700		
GRAZING	10.00 10050	\$710		
SMALL GRAIN HAY	10.00 ACRES	<b>ድ</b> ጋ ጋርር		
CROP SORGHUM HAY	10.00 ACRES	\$3,250		
CROP	10.00 ACRES	\$2,300		
GRAZING		\$50		
CORN FOR SILAGE	10.00 ACRES	ψυυ		
CROP	10.00 7101120	\$4,800		
ortor		ψ1,000		
GROSS RETURN			_	\$60,810
CASH OPERATING EXPE	NSES	00.740		
SEED		\$2,713		
FERTILIZER CHEMICALS		\$5,065 \$1,952		
CROP INSURANCE		\$1,932		
OTHER PURCHASED I	NPLITS	\$1,247		
CANAL WATER	W 010	\$2,828		
FUEL, OIL & LUBRICAN	ITS-EQUIPMENT	\$1,898		
FUEL-IRRIGATION		\$0		
REPAIRS		\$357		
CUSTOM CHARGES		\$2,510		
LAND TAXES		\$470		
OTHER EXPENSES		\$17,874		
TOTAL CASH	EXPENSES	-	\$36,914	
RETURN OVER CASH EXI	PENSES			\$23,896
FIXED EXPENSES		\$8,265		
TOTAL EXPE	NSES		\$45,179	
NET FARM INCOME				\$15,631
LABOR AND MANAGEMEN	NT COSTS	\$9,995		
NET OPERATING PROFIT				\$5,637
CAPITAL COSTS INTEREST ON OPERA	TING CADITAL	<b>#400</b>		
INTEREST ON OPERA INTEREST ON EQUIPM		\$480 \$3,491		
TOTAL CAPIT	AL COSTS	-	\$3,971	
RETURN TO LAND AND R	ISK		_	\$1,666

	RETURN	RETURN ON
LAND VALUE	TO RISK*	INVESTMENT**
\$5,000 /ACRE	(\$13,334)	1.03%
\$6,500 /ACRE	(\$17,834)	0.81%
\$8,000 /ACRE	(\$22,334)	0.67%
\$9,500 /ACRE	(\$26,834)	0.57%
\$11,000 /ACRE	(\$31,334)	0.49%
\$12,500 /ACRE	(\$35,834)	0.43%
		-

 $<sup>^{\</sup>star}$  RETURN TO LAND AND RISK MINUS (INTEREST RATE TIMES LAND VALUE TIMES ACREAGE)  $^{\star\star}$  NET OPERATING PROFIT DIVIDED BY (MACHINERY AND EQUIPMENT VALUE PLUS LAND VALUE)