

MICROCOMPUTER CROP COST AND RETURN GENERATOR

BUDGET AREA..... DE BACA COUNTY Projected 2008.  
FARM SIZE..... 100.00 ACRES  
IRRIGATION TYPE..... FLOOD  
NUMBER OF CROPS..... 4

VERSION 1.0

COPYRIGHT (C) 1984 by NEW MEXICO STATE UNIVERSITY BOARD OF REGENTS

New Mexico State University is an equal opportunity employer. All programs are available to everyone regardless of race, color, religion, sex, age, handicap, or national origin. New Mexico State University and the U.S. Department of Agriculture Cooperating.

\* YOU MAY ENTER DATA IN ANY INPUT TABLE WITH  
HIGHLIGHTED CELLS OR YOU MAY STRIKE  
[ENTER] AND RETURN TO THE MENU

\*\* BE SURE PRINTER IS ON AND PAPER IS ALIGNED  
BEFORE YOU PRINT

TABLE 1. Acreage Summary, De Baca County, Projected 2008.

BUDGET AREA..... DE BACA COUNTY			
FARM SIZE..... 100 ACRES			
IRRIGATION TYPE..... FLOOD			
NUMBER OF CROPS.. 4			
ACREAGE SUMMARY:	WATER USE		
	LAND USE (ACRES)	AC. IN. PER ACRE	TOTAL AC. IN.
ALFALFA ESTABLISHMENT *	13.00	12	156
ALFALFA	65.00	36	2,340
WHEAT	17.00	20	340
APR	0.00		
FLEX IN HYGEAR	3.00	12	36
OAT HAY	10.00	20	200
HYGEAR *	14.00	12	168
ROADS, HOMESTEAD	5.00		
TOTAL	100.00		3,240
ACRE FEET PER ACRE OF WATER RIGHTS			2.70

\* DOUBLE-CROPPED

TABLE 2. Basic cost information for De Baca County, Projected 2008.

Item			
Labor Wage Rate:			
Equipment operators		\$/hour	\$6.65
General & Irrigators		\$/hour	\$6.35
Purchased Inputs:			
Fertilizer:			
Nitrogen (N)		\$/pound	\$0.63
Phosphate (P205)		\$/pound	\$0.55
Seed:			
Alfalfa		\$/pound	\$3.45
Wheat		\$/pound	\$0.28
Oat Hay		\$/pound	\$0.30
Hygear		\$/pound	\$0.28
Baling wire		\$/pound	\$0.55
Canal water		\$/acre	\$56.00
Energy:			
Natural gas		\$/MCF	\$3.25
Diesel fuel		\$/gallon	\$3.05
Gasoline		\$/gallon	\$2.80
Electricity (Farmers Elec Coop)		cents/KwHr	9.01
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	7.75%
Land Interest Rate		percent	7.75%
Equipment Interest Rate		percent	7.75%
Real Interest Rate		percent	3.00%
Land Taxes		\$75.00 /acre (full value)	
Personal Property Tax Rate	- NR	\$/ \$1,000 (Assessed Value)	\$28.55
	- R		\$27.18
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 De Baca County, Projected 2008.

Item			
Electricity (Domestic & Shop)		\$56.00 per month	\$672
Telephone		\$44.80 per month	\$538
Accounting & Legal			\$173
Misc. Supplies & Hand Tools			\$403
Pickup and Auto			
miles	6,720	@ \$0.415 per mile	\$2,789
Insurance			
- general liability (non-employee)			\$173
- fire/theft			\$146
Property Taxes			
- non-planted land			\$0
- other than land & machinery			\$0
Building repairs and maintenance			\$216
Dues, fees, publications			\$106
Farmstead Equipment			\$185
Total			\$5,400
Total Per Planted Acre			\$56.84

TABLE 4. Equipment summary for a 100 acre food-irrigated farm with above average management, De Baca County, Precinct 2008

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	85 HP	260	1	\$5,457	\$3,652	\$348	\$13.61	\$1.29	\$50	\$103	\$2.30
TRACTOR	14 FT (OLD)	3	1	\$450	\$0	\$0	\$0	\$0.01	\$47	\$3	\$16.02
SWATHER	14 FT (OLD)	40	1	\$2,500	\$0	\$16	\$0.00	\$0.28	\$700	\$07	\$13.61
BALER PTO	2 WIRE	74	1	\$3,300	\$16	\$16	\$0.22	\$0.22	\$500	\$2	\$8.15
FLOW	238 #	40	1	\$2,500	\$23	\$23	\$0.57	\$0.57	\$33	\$2	\$9.60
DISC	12 FT	17	1	\$2,200	\$47	\$47	\$2.79	\$2.79	\$300	\$7	\$18.91
DRILL	12 FT	14	1	\$1,400	\$12	\$12	\$0.86	\$0.86	\$200	\$17	\$26.47
LAND PLANE	12 FT	23	1	\$2,200	\$0	\$0	\$0.10	\$0.10	\$333	\$24	\$15.50
BALEWAGON	PTO	72	1	\$750	\$0	\$0	\$0.00	\$0.00	\$200	\$16	\$12.45
BORDER DISC	6 DISC	2	1	\$750	\$2	\$2	\$0.01	\$0.01	\$100	\$7	\$53.37
FERT SPREADER		5	1	\$2,300	\$5	\$5	\$0.02	\$0.02	\$307	\$22	\$60.29
					\$12,207	\$3,682	\$508		\$4,080	\$307	

EQUIPMENT LIST

ITEM	NEW VALUE	USED VALUE	YEARS LIFE	EQUIP CODE	MAX HOURS	FUEL LIT/HR	LUBE COEF	ACCOM HOURS	INTEREST EXPENSE
TRACTOR	85 HP	21,965	5,457	40	1	800	4.42	1568.03	21
TRACTOR	14 FT	700	450	15	4	300		46.80	15
SWATHER	14 FT (OLD)	14,000	2,500	20	2	800		732.16	13
BALER PTO	2 WIRE	11,000	3,300	20	2	500		813.12	11
FLOW	238 #	3,000	250	15	3	300		185.20	16
DISC	12 FT	4,800	2,250	15	3	300		272.00	16
DRILL	12 FT	3,000	1,800	10	8	100		185.20	13
LAND PLANE	12 FT	5,000	2,500	15	4	300		388.64	16
BALEWAGON	PTO	16,000	1,500	20	5	300		422.00	16
BORDER DISC	6 DISC	3,000	750	15	3	300		22.00	16
FERT SPREADER		4,600	2,300	15	9	100		81.75	15

USAGE LIST

ALFAFA EST.	ALFAFA HAY	WHEAT FOR GRAIN	OAT HAY	HYGEAR	PER ACRE TOTALS
Hours per acre					
3.08	0.16	1.81	2.22	2.34	11.53
0.24	0.00	0.00	0.00	0.00	0.24
0.00	0.00	0.16	0.16	0.16	1.52
0.00	1.05	0.21	0.21	0.21	1.47
1.05	0.00	1.05	1.05	1.05	4.20
0.51	0.00	0.17	0.17	0.34	1.19
0.25	0.00	0.25	0.25	0.25	1.00
0.36	0.00	0.24	0.24	0.24	1.68
0.00	0.00	0.20	0.20	0.20	1.40
0.00	0.00	0.00	0.00	0.00	0.15
0.00	0.05	0.05	0.05	0.05	0.20

INTEREST PRORATION

ALFAFA WHEAT FOR GRAIN	OAT HAY	HYGEAR
6.52	6.52	6.50
0.00	0.00	0.00
7.71	0.00	1.34
6.00	0.00	1.21
0.00	0.34	0.34
0.00	1.14	1.14
0.00	2.45	2.45
0.00	2.52	2.52
8.81	0.00	1.76
0.00	1.45	0.00
1.84	1.84	1.84
30.73	15.26	21.05

ALFAFA ESTABLISHMENT

MACHINE	POWER UNIT	TIMES OVER	RATE	TOTAL	CUSTOM
DISC	65 HP	1.00	0.17	0.17	
FLOW	65 HP	1.00	1.05	1.05	
DISC	65 HP	1.00	0.17	0.17	
LAND PLANE (4X)	65 HP	4.00	0.24	0.96	
DISC	65 HP	1.00	0.17	0.17	
BORDER DISC	65 HP	1.00	0.25	0.25	
FLDGT	65 HP	1.00	0.24	0.24	
DRILL	65 HP	1.00	0.25	0.25	
IRRIGATE (4X)	65 HP	4.00	0.50	2.00	

ALFAFA HAY

MACHINE	POWER UNIT	TIMES OVER	RATE	TOTAL	CUSTOM
FERT SPREADER	65 HP	1.00	0.05	0.05	
IRRIGATE (5X)	65 HP	5.00	0.50	2.50	
SWATHER (5X)	14 FT	5.00	0.16	0.80	
BALER (5X)	65 HP	5.00	0.21	1.05	
BALEWAGON PTO (5X)	65 HP	5.00	0.20	1.00	

WHEAT FOR GRAIN

MACHINE	POWER UNIT	TIMES OVER	RATE	TOTAL	CUSTOM
FLOW	65 HP	1.00	1.05	1.05	
DISC	65 HP	1.00	0.17	0.17	
FERT SPREADER	65 HP	1.00	0.05	0.05	
LAND PLANE	65 HP	1.00	0.24	0.24	
BORDER DISC	65 HP	1.00	0.25	0.25	
DRILL	65 HP	1.00	0.25	0.25	
IRRIGATE (5X)	65 HP	5.00	0.50	2.50	

COMBINE (CUSTOM PER ACRE)

EXTRA CHARGE PER BUSHEL OVER HAUL (CUSTOM) PER BUSHEL	30.00	12.80
		0.19

OAT HAY

MACHINE	POWER UNIT	TIMES OVER	RATE	TOTAL	CUSTOM
FLOW	65 HP	1.00	1.05	1.05	
DISC	65 HP	1.00	0.17	0.17	
FERT SPREADER	65 HP	1.00	0.05	0.05	
LAND PLANE	65 HP	1.00	0.24	0.24	
BORDER DISC	65 HP	1.00	0.25	0.25	
DRILL	65 HP	1.00	0.25	0.25	
IRRIGATE (5X)	65 HP	5.00	0.50	2.50	

SWATHER

SWATHER	14 FT	1.00	0.16	0.16
BALER	65 HP	1.00	0.21	0.21
BALEWAGON	65 HP	1.00	0.20	0.20

HYGEAR

MACHINE	POWER UNIT	TIMES OVER	RATE	TOTAL	CUSTOM
FLOW	65 HP	1.00	1.05	1.05	
DISC (2X)	65 HP	2.00	0.17	0.34	
FERT SPREADER	65 HP	1.00	0.05	0.05	
LAND PLANE	65 HP	1.00	0.24	0.24	
DRILL	65 HP	1.00	0.25	0.25	
IRRIGATE (4X)	65 HP	4.00	0.50	2.00	

SWATHER

SWATHER	14 FT	1.00	0.16	0.16
BALER	65 HP	1.00	0.21	0.21
BALEWAGON	65 HP	1.00	0.20	0.20

ANNUAL REPAIR COSTS AS A PERCENT OF NEW VALUE

Years of Use	1	2	3	4	5	6	7	8	9
0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
50	0.000040	0.000020	0.000020	0.000020	0.000020	0.000040	0.000040	0.000040	0.000020
100	0.000080	0.000040	0.000040	0.000040	0.000040	0.000080	0.000080	0.000080	0.000040
200	0.000160	0.000080	0.000080	0.000080	0.000080	0.000160	0.000160	0.000160	0.000080
300	0.000240	0.000120	0.000120	0.000120	0.000120	0.000240	0.000240	0.000240	0.000120
400	0.000320	0.000160	0.000160	0.000160	0.000160	0.000320	0.000320	0.000320	0.000160
500	0.000400	0.000200	0.000200	0.000200	0.000200	0.000400	0.000400	0.000400	0.000200
600	0.000480	0.000240	0.000240	0.000240	0.000240	0.000480	0.000480	0.000480	0.000240
700	0.000560	0.000280	0.000280	0.000280	0.000280	0.000560	0.000560	0.000560	0.000280
800	0.000640	0.000320	0.000320	0.000320	0.000320	0.000640	0.000640	0.000640	0.000320
900	0.000720	0.000360	0.000360	0.000360	0.000360	0.000720	0.000720	0.000720	0.000360
1000	0.000800	0.000400	0.000400	0.000400	0.000400	0.000800	0.000800	0.000800	0.000400
1200	0.000960	0.000480	0.000480	0.000480	0.000480	0.000960	0.000960	0.000960	0.000480
1400	0.001120	0.000560	0.000560	0.000560	0.000560	0.001120	0.001120	0.001120	0.000560
1600	0.001280	0.000640	0.000640	0.000640	0.000640	0.001280	0.001280	0.001280	0.000640
1800	0.001440	0.000720	0.000720	0.000720	0.000720	0.001440	0.001440	0.001440	0.000720
2000	0.001600	0.000800	0.000800	0.000800	0.000800	0.001600	0.001600	0.001600	0.000800
2200	0.001760	0.000880	0.000880	0.000880	0.000880	0.001760	0.001760	0.001760	0.000880
2400	0.001920	0.000960	0.000960	0.000960	0.000960	0.001920	0.001920	0.001920	0.000960
2600	0.002080	0.001040	0.001040	0.001040	0.001040	0.002080	0.002080	0.002080	0.001040
2800	0.002240	0.001120	0.001120	0.001120	0.001120	0.002240	0.002240	0.002240	0.001120
3000	0.002400	0.001200	0.001200	0.001200	0.001200	0.002400	0.002400	0.002400	0.001200
3200	0.002560	0.001280	0.001280	0.001280	0.001280	0.002560	0.002560	0.002560	0.001280
3400	0.002720	0.001360	0.001360	0.001360	0.001360	0.002720	0.002720	0.002720	0.001360
3600	0.002880	0.001440	0.001440	0.001440	0.001440	0.002880	0.002880	0.002880	0.001440
3800	0.003040	0.001520	0.001520	0.001520	0.001520	0.003040	0.003040	0.003040	0.001520
4000	0.003200	0.001600	0.001600	0.001600	0.001600	0.003200	0.003200	0.003200	0.001600
4200	0.003360	0.001680	0.001680	0.001680	0.001680	0.003360	0.003360	0.003360	0.001680
4400	0.003520	0.001760	0.001760	0.001760	0.001760	0.003520	0.003520	0.003520	0.001760
4600	0.003680	0.001840	0.001840	0.001840	0.001840	0.003680	0.003680	0.003680	0.001840
4800	0.003840	0.001920	0.001920	0.001920	0.001920	0.003840	0.003840	0.0038	

TABLE 5. Alfalfa establishment, flood-irrigated, budgeted per acre costs and returns for a 100 acre farm with above average management, De Baca County, Projected 2008.

Planting Dates: August 25 - September 30

ITEM	PRICE	QUANTITY	PURCHASED INPUTS				TOTAL		
<b>PURCHASED INPUTS</b>									
SEED	\$3.45	25 LBS					\$86.25		
CANAL WATER		12 AC. IN.					\$86.25		
SUBTOTAL							\$86.25		
<b>PREHARVEST OPERATIONS</b>									
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
DISC	65 HP	0.17 HR		\$1.13	\$2.31	\$0.69	\$3.62	\$7.76	
PLOW	65 HP	1.05 HR		\$6.98	\$14.29	\$1.68	\$3.13	\$26.09	
DISC	65 HP	0.17 HR		\$1.13	\$2.31	\$0.69	\$3.62	\$7.76	
LAND PLANE (4X)	65 HP	0.96 HR		\$6.38	\$13.07	\$1.34	\$17.17	\$37.96	
DISC	65 HP	0.17 HR		\$1.13	\$2.31	\$0.69	\$3.62	\$7.76	
BORDER DISC	65 HP	0.05 HR		\$0.33	\$0.68	\$0.11	\$2.80	\$3.92	
FLOAT	65 HP	0.24 HR		\$1.60	\$3.27	\$0.31	\$4.42	\$9.60	
DRILL	65 HP	0.25 HR		\$1.66	\$3.40	\$0.54	\$7.21	\$12.82	
IRRIGATE (4X)		2.00 HR		\$12.70				\$12.70	
SUBTOTAL			5.06 HR	\$33.05	\$41.66	\$6.07	\$45.59	\$126.37	
<b>OVERHEAD EXPENSES</b>									
DOWNTIME		0.77 HR		\$5.09				\$5.09	
EMPLOYEE BENEFITS				\$5.95				\$5.95	
INSURANCE			\$0.66					\$0.66	
SUPERVISION AND MANAGEMENT				\$18.41				\$18.41	
SUBTOTAL			0.77 HR	\$0.66	\$29.45			\$30.11	
<b>TOTAL OPERATING EXPENSES</b>			5.83 HR	\$86.91	\$62.50	\$41.66	\$6.07	\$45.59	\$242.73

TABLE 6. Alfalfa hay, flood-irrigated, budgeted per acre costs and returns for a 100 acre farm with above average management, De Baca County, Projected 2008.  
Harvesting Dates: May 20 - October 30

ITEM	PRICE	YIELD						TOTAL
<b>GROSS RETURNS</b>								
HAY	\$140.00	5.00 TONS (STACKED)						\$700.00
GRAZING	\$12.50	1.00 ACRE						\$12.50
<b>TOTAL</b>								<b>\$712.50</b>
<b>PURCHASED INPUTS</b>								
	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
PHOSPHATE (P205)	\$0.55	130 LBS	\$71.50					\$71.50
WIRE ESTABLISHMENT: Principal	\$0.55	43 LBS	\$23.65					\$23.65
: Interest		5 YEARS					\$48.55	\$48.55
INSECTICIDE (CUSTOM)	\$16.09	2 X/ACRE	\$32.18				\$9.62	\$9.62
CANAL WATER		36 AC. IN.	\$56.00					\$56.00
<b>SUBTOTAL</b>			<b>\$183.33</b>				<b>\$58.17</b>	<b>\$241.50</b>
<b>PREHARVEST OPERATIONS</b>								
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
FERT SPREADER	65 HP	0.05 HR		\$0.33	\$0.68	\$0.11	\$3.13	\$4.26
IRRIGATE (8X)		4.00 HR		\$25.40				\$25.40
<b>SUBTOTAL</b>		<b>4.05 HR</b>		<b>\$25.73</b>	<b>\$0.68</b>	<b>\$0.11</b>	<b>\$3.13</b>	<b>\$29.66</b>
<b>HARVEST OPERATIONS</b>								
SWATHER (5X)	14 FT	0.80 HR		\$5.32	\$0.00	\$0.22	\$10.89	\$16.43
BALER (5X)	65 HP	1.05 HR		\$6.98	\$14.29	\$1.59	\$11.06	\$33.93
BALEWAGON PTO (5X)	65 HP	1.00 HR		\$6.65	\$13.61	\$2.57	\$14.83	\$37.67
<b>SUBTOTAL</b>		<b>2.85 HR</b>		<b>\$18.95</b>	<b>\$27.91</b>	<b>\$4.39</b>	<b>\$36.78</b>	<b>\$88.03</b>
<b>OVERHEAD EXPENSES</b>								
DOWNTIME		0.73 HR		\$4.82				\$4.82
EMPLOYEE BENEFITS				\$8.04				\$8.04
INSURANCE			\$0.89					\$0.89
LAND TAXES							\$0.00	\$0.00
SUPERVISION AND MANAGEMENT				\$55.33				\$55.33
OTHER EXPENSES			\$56.84					\$56.84
<b>SUBTOTAL</b>		<b>0.73 HR</b>		<b>\$57.73</b>	<b>\$68.19</b>		<b>\$0.00</b>	<b>\$125.92</b>
<b>TOTAL OPERATING EXPENSES</b>		<b>7.63 HR</b>		<b>\$241.06</b>	<b>\$112.87</b>	<b>\$28.59</b>	<b>\$4.50</b>	<b>\$98.08</b>
<b>NET OPERATING PROFIT</b>								<b>\$227.40</b>
INTEREST ON OPERATING CAPITAL		(	\$94.55	@	7.75%	)		\$7.33
INTEREST ON EQUIPMENT INVESTMENT								\$30.73
<b>RETURN TO LAND AND RISK</b>								<b>\$189.34</b>
<b>BUDGET SUMMARY</b>								
GROSS RETURN			\$712.50					
VARIABLE OPERATING EXPENSES	\$274.15							
RETURN OVER VARIABLE EXPENSES		\$438.35		(GROSS MARGIN)				
FIXED EXPENSES	\$98.08							
NET FARM INCOME		\$340.27		(RETURN TO CAPITAL, LABOR, LAND & RISK)				
LABOR AND MANAGEMENT COST	\$112.87							
NET OPERATING PROFIT		\$227.40		(RETURN TO CAPITAL, LAND & RISK)				
CAPITAL COSTS	\$38.05							
RETURN TO LAND AND RISK			\$189.34					

TABLE 7. Wheat for grain, flood-irrigated, budgeted per acre costs and returns for a 100 acre farm with above average management, De Baca County, Projected 2008.  
 Planting Dates: September 1 - October 15  
 Harvesting Dates: June 20 - July 1

ITEM	PRICE	YIELD	BASE	TOTAL
<b>GROSS RETURNS</b>				
WHEAT FOR GRAIN	\$9.50	65.00 BUSHELS		\$617.50
ASCS DEFICIENCY	\$0.52	65.00 BUSHELS	0.85	\$28.73
COUNTER CYCLICAL PAYMENT	\$0.00			\$0.00
GRAZING	\$25.00	1.00 ACRE		\$25.00
<b>TOTAL</b>				<b>\$671.23</b>

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$0.28	80 LBS	\$22.40		\$22.40
NITROGEN (N)	\$0.63	60 LBS	\$37.80		\$37.80
CANAL WATER		20 AC. IN.	\$56.00		\$56.00
CROP INSURANCE	\$2.94		\$2.94		\$2.94
<b>SUBTOTAL</b>			<b>\$119.14</b>		<b>\$119.14</b>

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PLOW	65 HP	1.05 HR		\$6.98	\$14.29	\$1.68	\$3.13	\$26.09
DISC	65 HP	0.17 HR		\$1.13	\$2.31	\$0.69	\$3.62	\$7.76
FERT SPREADER	65 HP	0.05 HR		\$0.33	\$0.68	\$0.11	\$3.13	\$4.26
LAND PLANE	65 HP	0.24 HR		\$1.60	\$3.27	\$0.33	\$4.29	\$9.49
BORDER DISC	65 HP	0.05 HR		\$0.33	\$0.68	\$0.11	\$2.80	\$3.92
DRILL	65 HP	0.25 HR		\$1.66	\$3.40	\$0.54	\$7.21	\$12.82
IRRIGATE (5X)		2.50 HR		\$15.88				\$15.88
<b>SUBTOTAL</b>		<b>4.31 HR</b>	<b>\$0.00</b>	<b>\$27.91</b>	<b>\$24.64</b>	<b>\$3.47</b>	<b>\$24.19</b>	<b>\$80.21</b>

HARVEST OPERATIONS								
COMBINE (CUSTOM)			\$19.45					\$19.45
HAUL (CUSTOM)			\$11.05					\$11.05
<b>SUBTOTAL</b>			<b>\$30.50</b>					<b>\$30.50</b>

OVERHEAD EXPENSES								
DOWNTIME		0.45 HR		\$3.01				\$3.01
EMPLOYEE BENEFITS				\$5.02				\$5.02
INSURANCE			\$0.56					\$0.56
LAND TAXES						\$0.00		\$0.00
SUPERVISION AND MANAGEMENT				\$50.39				\$50.39
OTHER EXPENSES			\$56.84					\$56.84
<b>SUBTOTAL</b>		<b>0.45 HR</b>	<b>\$57.40</b>	<b>\$58.42</b>		<b>\$0.00</b>		<b>\$115.82</b>

<b>TOTAL OPERATING EXPENSES</b>		<b>4.76 HR</b>	<b>\$207.04</b>	<b>\$86.34</b>	<b>\$24.64</b>	<b>\$3.47</b>	<b>\$24.19</b>	<b>\$345.68</b>
<b>NET OPERATING PROFIT</b>								<b>\$325.55</b>
INTEREST ON OPERATING CAPITAL		(	\$69.14	@	7.75%	)		\$5.36
INTEREST ON EQUIPMENT INVESTMENT								\$15.26
<b>RETURN TO LAND AND RISK</b>								<b>\$304.94</b>

BUDGET SUMMARY				
GROSS RETURN		\$671.23		
VARIABLE OPERATING EXPENSES	\$235.15			
RETURN OVER VARIABLE EXPENSES		\$436.08	(GROSS MARGIN)	
FIXED EXPENSES	\$24.19			
NET FARM INCOME		\$411.89	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$86.34			
NET OPERATING PROFIT		\$325.55	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$20.62			
RETURN TO LAND AND RISK		\$304.94		

TABLE 8. Oat hay, flood-irrigated, budgeted per acre costs and returns for a 100 acre farm with above average management, De Baca County, Projected 2008.  
Planting dates: March 1 - March 15  
Harvesting Dates: July 1 - July 15

ITEM	PRICE	YIELD	TOTAL
GROSS RETURNS			
OAT HAY	\$100.00	2.50 TONS (STACKED)	\$250.00
TOTAL			\$250.00

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$0.30	100 LBS	\$30.00		\$30.00
NITROGEN (N)	\$0.63	40 LBS	\$25.20		\$25.20
WIRE	\$0.55	21 LBS	\$11.78		\$11.78
CANAL WATER		20 AC. IN.	\$56.00		\$56.00
SUBTOTAL			\$122.98		\$122.98

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PLOW	65 HP	1.05 HR		\$6.98	\$14.29	\$1.68	\$3.13	\$26.09
DISC	65 HP	0.17 HR		\$1.13	\$2.31	\$0.69	\$3.62	\$7.76
FERT SPREADER	65 HP	0.05 HR		\$0.33	\$0.68	\$0.11	\$3.13	\$4.26
LAND PLANE	65 HP	0.24 HR		\$1.60	\$3.27	\$0.33	\$4.29	\$9.49
BORDER DISC	65 HP	0.05 HR		\$0.33	\$0.68	\$0.11	\$2.80	\$3.92
DRILL	65 HP	0.25 HR		\$1.66	\$3.40	\$0.54	\$7.21	\$12.82
IRRIGATE (5X)		2.50 HR		\$15.88				\$15.88
SUBTOTAL		4.31 HR		\$27.91	\$24.64	\$3.47	\$24.19	\$80.21

HARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
SWATHER	14 FT	0.16 HR		\$1.06	\$0.00	\$0.04	\$2.18	\$3.29
BALER	65 HP	0.21 HR		\$1.40	\$2.86	\$0.32	\$2.21	\$6.79
BALEWAGON	65 HP	0.20 HR		\$1.33	\$2.72	\$0.51	\$2.97	\$7.53
SUBTOTAL		0.57 HR		\$3.79	\$5.58	\$0.88	\$7.36	\$17.61

OVERHEAD EXPENSES	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME	0.60 HR		\$3.96				\$3.96
EMPLOYEE BENEFITS			\$5.71				\$5.71
INSURANCE		\$0.63					\$0.63
LAND TAXES						\$0.00	\$0.00
SUPERVISION AND MANAGEMENT			\$21.48				\$21.48
OTHER EXPENSES		\$28.42					\$28.42
SUBTOTAL	0.60 HR	\$29.05	\$31.14			\$0.00	\$60.19

TOTAL OPERATING EXPENSES	5.48 HR	\$152.04	\$62.84	\$30.22	\$4.35	\$31.54	\$280.99
NET OPERATING PROFIT							(\$30.99)
INTEREST ON OPERATING CAPITAL	( \$69.06 @ 7.75% )						\$5.35
INTEREST ON EQUIPMENT INVESTMENT							\$21.05
RETURN TO LAND AND RISK							(\$57.39)

BUDGET SUMMARY			
GROSS RETURN		\$250.00	
VARIABLE OPERATING EXPENSES	\$186.61		
RETURN OVER VARIABLE EXPENSES	\$63.39	(GROSS MARGIN)	
FIXED EXPENSES	\$31.54		
NET FARM INCOME	\$31.85	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$62.84		
NET OPERATING PROFIT	(\$30.99)	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$26.40		
RETURN TO LAND AND RISK		(\$57.39)	

TABLE 9. Hygear, flood-irrigated, budgeted per acre costs and returns for a 100 acre farm with above average management, De Baca County, Projected 2008.  
 Planting Dates: July 5 - July 20  
 Harvesting Dates: September 15 - October 15

ITEM	PRICE	YIELD						TOTAL
<b>GROSS RETURNS</b>								
HYGEAR	\$111.00	4.50 TONS (STACKED)						\$499.50
<b>TOTAL</b>							<b>\$499.50</b>	
<b>PURCHASED INPUTS</b>								
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS			FIXED COST	TOTAL	
SEED	\$0.28	70 LBS	\$19.60				\$19.60	
NITROGEN (N)	\$0.63	40 LBS	\$25.20				\$25.20	
CANAL WATER		12 AC. IN.	\$28.00				\$28.00	
<b>SUBTOTAL</b>			<b>\$72.80</b>				<b>\$72.80</b>	
<b>PREHARVEST OPERATIONS</b>								
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PLOW	65 HP	1.05 HR		\$6.98	\$14.29	\$1.68	\$3.13	\$26.09
DISC (2X)	65 HP	0.34 HR		\$2.26	\$4.63	\$1.39	\$7.24	\$15.52
FERT SPREADER	65 HP	0.05 HR		\$0.33	\$0.68	\$0.11	\$3.13	\$4.26
LAND PLANE	65 HP	0.24 HR		\$1.52	\$3.27	\$0.33	\$4.29	\$9.42
DRILL	65 HP	0.25 HR		\$1.66	\$3.40	\$0.54	\$7.21	\$12.82
IRRIGATE (4X)		2.00 HR		\$12.70				\$12.70
<b>SUBTOTAL</b>		<b>3.93 HR</b>		<b>\$25.46</b>	<b>\$26.27</b>	<b>\$4.06</b>	<b>\$25.01</b>	<b>\$80.80</b>
<b>HARVEST OPERATIONS</b>								
SWATHER	14 FT	0.16 HR		\$1.02	\$0.00	\$0.04	\$2.18	\$3.24
BALER	65 HP	0.21 HR		\$1.33	\$2.86	\$0.32	\$2.21	\$6.72
BALE WAGON	65 HP	0.20 HR		\$1.27	\$2.72	\$0.51	\$2.97	\$7.47
<b>SUBTOTAL</b>		<b>0.57 HR</b>	<b>\$0.00</b>	<b>\$3.62</b>	<b>\$5.58</b>	<b>\$0.88</b>	<b>\$7.36</b>	<b>\$17.43</b>
<b>OVERHEAD EXPENSES</b>								
DOWNTIME		1.05 HR		\$7.00				\$7.00
EMPLOYEE BENEFITS				\$5.23				\$5.23
INSURANCE			\$0.58					\$0.58
LAND TAXES						\$0.00		\$0.00
SUPERVISION AND MANAGEMENT				\$38.22				\$38.22
OTHER EXPENSES			\$28.42					\$28.42
<b>SUBTOTAL</b>		<b>1.05 HR</b>	<b>\$29.00</b>	<b>\$50.45</b>			<b>\$0.00</b>	<b>\$79.45</b>
<b>TOTAL OPERATING EXPENSES</b>		<b>5.55 HR</b>	<b>\$101.80</b>	<b>\$79.53</b>	<b>\$31.86</b>	<b>\$4.93</b>	<b>\$32.37</b>	<b>\$250.49</b>
<b>NET OPERATING PROFIT</b>								
							\$249.01	
INTEREST ON OPERATING CAPITAL		( \$44.52 @ 7.75% )						\$3.45
INTEREST ON EQUIPMENT INVESTMENT							\$21.71	
<b>RETURN TO LAND AND RISK</b>							<b>\$223.85</b>	
<b>BUDGET SUMMARY</b>								
GROSS RETURN		\$499.50						
VARIABLE OPERATING EXPENSES	\$138.59							
RETURN OVER VARIABLE EXPENSES		\$360.91	(GROSS MARGIN)					
FIXED EXPENSES	\$32.37							
NET FARM INCOME		\$328.54	(RETURN TO CAPITAL, LABOR, LAND & RISK)					
LABOR AND MANAGEMENT COST	\$79.53							
NET OPERATING PROFIT		\$249.01	(RETURN TO CAPITAL, LAND & RISK)					
CAPITAL COSTS	\$25.16							
RETURN TO LAND AND RISK							\$223.85	



TABLE 10. Summary of per acre costs and returns for a 100 acre farm with above average management, De Baca County,  
Projected 2008.

	ALFALFA ESTABLISHMENT	ALFALFA HAY	WHEAT FOR GRAIN	OAT HAY	HYGEAR
		TONS	BU	TONS	TONS
PRIMARY YIELD		5.00	65.00	2.50	4.50
PRIMARY PRICE		\$140.00	\$9.50	\$100.00	\$111.00
GOVERNMENT PAYMENTS		\$0.00	\$28.73	\$0.00	\$0.00
SECOND INCOME		\$12.50	\$25.00	\$0.00	\$0.00
GROSS RETURN		\$712.50	\$671.23	\$250.00	\$499.50
CASH OPERATING EXPENSES					
SEED	\$86.25		\$22.40	\$30.00	\$19.60
FERTILIZER		\$71.50	\$37.80	\$25.20	\$25.20
CHEMICALS		\$32.18			
CROP INSURANCE			\$2.94		
OTHER PURCHASED INPUTS		\$23.65		\$11.78	
CANAL WATER		\$56.00	\$56.00	\$56.00	\$28.00
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$41.66	\$28.59	\$24.64	\$30.22	\$31.86
FUEL-IRRIGATION	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
REPAIRS	\$6.07	\$4.50	\$3.47	\$4.35	\$4.93
CUSTOM CHARGES			\$30.50		
LAND TAXES		\$0.00	\$0.00	\$0.00	\$0.00
OTHER EXPENSES	\$0.66	\$57.73	\$57.40	\$29.05	\$29.00
TOTAL CASH EXPENSES	\$134.64	\$274.15	\$235.15	\$186.61	\$138.59
RETURN OVER CASH EXPENSES	(\$134.64)	\$438.35	\$436.08	\$63.39	\$360.91
FIXED EXPENSES	\$45.59	\$98.08	\$24.19	\$31.54	\$32.37
TOTAL EXPENSES	\$180.23	\$372.23	\$259.34	\$218.15	\$170.96
NET FARM INCOME	(\$180.23)	\$340.27	\$411.89	\$31.85	\$328.54
LABOR AND MANAGEMENT COSTS	\$62.50	\$112.87	\$86.34	\$62.84	\$79.53
NET OPERATING PROFIT	(\$242.73)	\$227.40	\$325.55	(\$30.99)	\$249.01
CAPITAL COSTS					
INTEREST ON OPERATING CAPITAL		\$7.33	\$5.36	\$5.35	\$3.45
INTEREST ON EQUIPMENT INVESTMENT		\$30.73	\$15.26	\$21.05	\$21.71
TOTAL CAPITAL COSTS	\$0.00	\$38.05	\$20.62	\$26.40	\$25.16
RETURN TO LAND AND RISK	(\$242.73)	\$189.34	\$304.94	(\$57.39)	\$223.85

TABLE 11. Whole farm summary, De Baca County,  
Projected 2008.

GROSS RETURNS		
ALFALFA HAY	65 ACRES	
CROP		\$45,500
GRAZING		\$813
WHEAT FOR GRAIN	17 ACRES	
CROP		\$10,498
GRAZING		\$425
ASCS DEFICIENCY		\$488
COUNTER CYCLICAL PAYMENT		\$0
OAT HAY	10 ACRES	
CROP		\$2,500
HYGEAR	17 ACRES	
CROP		\$8,492
GROSS RETURN		<u>\$68,715</u>
CASH OPERATING EXPENSES		
SEED		\$2,135
FERTILIZER		\$5,971
CHEMICALS		\$2,092
CROP INSURANCE		\$50
OTHER PURCHASED INPUTS		\$1,655
CANAL WATER		\$5,628
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$3,662
FUEL-IRRIGATION		\$0
REPAIRS		\$558
CUSTOM CHARGES		\$519
LAND TAXES		\$0
OTHER EXPENSES		\$5,520
TOTAL CASH EXPENSES		<u>\$27,790</u>
RETURN OVER CASH EXPENSES		\$40,925
FIXED EXPENSES		\$5,089
TOTAL EXPENSES		<u>\$32,879</u>
NET FARM INCOME		\$35,836
LABOR AND MANAGEMENT COSTS		\$11,597
NET OPERATING PROFIT		\$24,238
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$680
INTEREST ON EQUIPMENT INVESTMENT		\$2,836
TOTAL CAPITAL COSTS		<u>\$3,516</u>
RETURN TO LAND AND RISK		<u>\$20,723</u>

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$1,000 /ACRE	\$17,723	19.66%
\$2,000 /ACRE	\$14,723	10.85%
\$3,000 /ACRE	\$11,723	7.50%
\$4,000 /ACRE	\$8,723	5.73%
\$5,000 /ACRE	\$5,723	4.63%

\* 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)