

TABLE 1. Acreage Summary, Valencia and Southern Bernalillo Counties, Projected 2013.

BUDGET AREA..... VALENCIA AND SOUTHERN BERNALILLO COUNTIES			
FARM SIZE.....	30 ACRES		
IRRIGATION TYPE.....	FLOOD		
NUMBER OF CROPS...	5		
		WATER USE	
ACREAGE SUMMARY:	LAND USE (ACRES)	AC.IN. PER AC.	TOTAL AC.IN.
ALFALFA ESTABLISHMENT	3.50 *	12	42
ALFALFA	20.00	44	880
OAT HAY	5.00	24	120
SORGHUM HAY	5.00 *	24	120
GREEN CHILE	1.00	48	48
JALAPENOS	1.00	48	48
DITCHES, HOMESTEAD	3.00		
	TOTAL		1,258
			ACRE FEET PER ACRE OF WATER RIGHTS 3.49

\* DOUBLE-CROPPED

TABLE 2. Basic cost information for Valencia and Southern Bernalillo Counties, Projected 2013.

Item		
Labor Wage Rate:	\$/hour	\$7.50
Purchased Inputs:		
Fertilizer:		
Nitrogen (N)	\$/pound	\$0.61
Phosphate (P205)	\$/pound	\$0.60
Seed:		
Alfalfa	\$/pound	\$6.50
Oats	\$/pound	\$0.61
Green Chile	\$/pound	\$88.00
Jalapenos	\$/pound	\$104.00
Sorghum	\$/pound	\$2.04
Baling wire	\$/pound	\$0.91
Chile Sacks	\$/sack	\$0.18
Canal water	\$/acre	\$28.00
Energy:		
Butane	\$/gallon	\$2.80
Diesel fuel	\$/gallon	\$3.00
Gasoline	\$/gallon	\$3.80
Electricity	cents/KwHr	12.67
Natural Gas	\$/MCF	\$4.01
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	5.00%
Land Interest Rate	percent	5.00%
Equipment Interest Rate	percent	5.00%
Real Interest Rate	percent	3.00%
Land Taxes	\$483.00 /acre (full value)	\$5.42
Personal Property Tax Rate	- NR     \$/ \$1,000 (Assessed Value)	\$33.64
	- R	\$28.14
Supervision Factors		
Field Crop-Irrigation	\$/labor hour	\$1.00
Field Crop-Equip & General	\$/labor hour	\$0.50
Vegetable Crop-Irrigation	\$/labor hour	\$2.90
Vegetable Crop-Equip & General	\$/labor hour	\$1.00
Management Rate		
Field Crops	percent/GR	4.00%
Vegetable Crops	percent/TOE	10.00%

TABLE 3. Overhead cost information for Valencia and Southern Bernalillo Counties, Projected 2013.

Item		
Electricity (Domestic & Shop)	\$54.45 per month	\$653
Telephone	\$42.35 per month	\$508
Accounting & Legal		\$182
Misc. Supplies & Hand Tools		\$424
Pickup and Auto		
miles	4,985 @ \$0.500 per mile	\$2,493
Insurance		
- general liability (non-employee)		\$188
- fire/theft		\$157
Property Taxes		
- non-planted land		\$78
- other than land & machinery		\$135
Building repairs and maintenance		\$218
Dues, fees, publications		\$121
Farmstead Equipment		\$182
	Total	\$5,337
	Total per planted acre	\$197.68

TABLE 4. Equipment summary for a 30 acre, part-time farm, Valencia and Southern Benito Counties, Projected 2013.

EQUIPMENT ITEM & SIZE	ANNUAL COSTS				FIXED COSTS						
	ANNUAL HOURS OF USE	NUMBER	TOTAL VALUE	FUEL, OIL, LUBRICANT	REPAIR	FUEL, OIL PER HR	REPAIR PER HR	DEPRECIATION	TAXES	TOTAL PER HR	
TRACTOR	65 HP	51	1	\$4,850	\$940	\$66	\$18.48	\$1.29	\$539	\$121	\$12.98
PICKUP	1/2 TON	3	1	\$18,000	\$551	\$17	\$23.94	\$0.75	\$3,800	\$213	\$174.46
BALER, PTO	2 WIRE	24	1	\$1,600	\$0	\$4	\$0.00	\$0.15	\$385	\$43	\$17.62
CULTIVATOR	2 ROW	8	1	\$250	\$0	\$1	\$0.00	\$0.31	\$33	\$3	\$11.15
DISC	8 FT	8	1	\$700	\$0	\$7	\$0.00	\$0.87	\$93	\$3	\$12.55
LISTER	2 ROW	1	1	\$250	\$0	\$0	\$0.00	\$0.31	\$33	\$3	\$33.46
PLOW (FLP)	2 WAY	14	1	\$250	\$0	\$4	\$0.00	\$0.31	\$33	\$3	\$2.63
BORDER DISC	6 DISC	0	1	\$300	\$0	\$0	\$0.00	\$0.37	\$40	\$3	\$102.03
BED PLANTER	2	2	1	\$150	\$0	\$0	\$0.00	\$0.07	\$30	\$2	\$15.64
				\$27,450	\$1,490	\$100			\$4,987	\$398	

EQUIPMENT LIST

ITEM	NEW VALUE	USED VALUE	YEARS LIFE	EQUIP CODE	MAX HOURS	FUEL UNIT/HR	LUBE COEF	ACCUM HOURS	AGE	INTEREST EXPENSE	
TRACTOR	65 HP	21565.00	4500.00	40.00	1.00	800.00	4.42	0.10	1088.06	21.00	539.13
PICKUP	1/2 TON	38200.00	19000.00	10.00	2.00	800.00	6.00	0.05	299.00	13.00	850.00
BALER, PTO	2 WIRE	7700.00	1600.00	20.00	2.00	500.00	0.00	0.00	437.40	18.00	182.50
CULTIVATOR	2 ROW	500.00	250.00	15.00	3.00	300.00	0.00	0.00	51.84	16.00	12.50
DISC	8 FT	1400.00	700.00	15.00	3.00	300.00	0.00	0.00	128.86	16.00	35.00
LISTER	2 ROW	500.00	250.00	15.00	3.00	300.00	0.00	0.00	17.28	16.00	12.50
PLOW (FLP)	2 WAY	500.00	250.00	15.00	3.00	300.00	0.00	0.00	220.28	16.00	12.50
BORDER DISC	6 DISC	600.00	300.00	15.00	3.00	300.00	0.00	0.00	6.80	16.00	15.00
BED PLANTER	2	300.00	150.00	10.00	8.00	100.00	0.00	0.00	26.00	13.00	7.50

USAGE LIST

ALFALFA EST.	ALFALFA HAY	SMALL GRAN HAY	SORGHUM HAY	GREEN CHILE	JALAPENOS	PER ACRE TOTALS
1.98	1.08	2.25	0.58	4.09	4.00	14.07
0.00	0.00	0.00	0.00	20.00	3.00	23.00
0.00	1.08	0.27	0.27	0.00	0.00	1.62
0.00	0.00	0.00	1.82	1.62	1.62	5.24
0.62	0.00	0.62	0.31	0.62	0.62	2.79
0.00	0.00	0.00	0.00	0.54	0.54	1.08
1.31	0.00	1.31	0.00	1.31	1.31	5.24
0.05	0.00	0.05	0.00	0.00	0.00	0.10
0.00	0.00	0.00	0.00	2.00	2.00	

INTEREST PRORATION

ALFALFA HAY	SMALL GRAN HAY	SORGHUM HAY	GREEN CHILE	GREEN CHILE
11.45	23.85	6.15	43.35	43.35
0.00	0.00	0.00	626.09	123.31
8.56	2.14	2.14	0.00	0.00
0.00	0.00	0.00	6.25	6.25
0.00	2.69	1.35	2.69	2.69
0.00	0.00	0.00	6.25	6.25
0.00	1.19	0.00	1.19	1.19
0.00	1.76	0.00	0.00	0.00
0.00	0.00	0.00	0.00	7.50
20.00	31.64	9.63	885.82	191.15

ALFALFA ESTABLISHMENT

ACRES: 3.5 PUMP WATER:

MACHINE	POWER UNIT	TIMES OVER	RATE	TOTAL	CUSTOM
DISC	65 HP	1.00	0.31	0.31	
PLOW	65 HP	1.00	1.31	1.31	
DISC	65 HP	1.00	0.31	0.31	70.71
LASER PLANE (CUSTOM)					
BORDER DISC	65 HP	1.00	0.05	0.05	
DRILL (CUSTOM) (PER ACRE)					
IRRIGATE (2X)		2.00	0.75	1.50	32.50

ALFALFA HAY

ACRES: 20 PUMP WATER:

MACHINE	POWER UNIT	TIMES OVER	RATE	TOTAL	CUSTOM
IRRIGATE (6X)		8.00	0.75	6.00	

MACHINE	POWER UNIT	TIMES OVER	RATE	TOTAL	CUSTOM
SWATHER (CUSTOM) (PER ACRE)					23.33
BALER, PTO (4X)	65 HP	4.00	0.27	1.08	

SMALL GRAN HAY

ACRES: 5 PUMP WATER:

MACHINE	POWER UNIT	TIMES OVER	RATE	TOTAL	CUSTOM
PLOW	65 HP	1.00	1.31	1.31	
DISC (2X)	65 HP	2.00	0.31	0.62	
BORDER DISC	65 HP	1.00	0.05	0.05	7.53
DRILL (CUSTOM) (PER ACRE)					
IRRIGATE (4X)		4.00	0.75	3.00	

MACHINE	POWER UNIT	TIMES OVER	RATE	TOTAL	CUSTOM
SWATHER (CUSTOM) (PER ACRE)					23.33
BALER, PTO	65 HP	1.00	0.27	0.27	

SORGHUM HAY

ACRES: 5 PUMP WATER:

MACHINE	POWER UNIT	TIMES OVER	RATE	TOTAL	CUSTOM
DISC	65 HP	1.00	0.31	0.31	7.53
DRILL (CUSTOM)					
IRRIGATE (4X)		4.00	0.75	3.00	

MACHINE	POWER UNIT	TIMES OVER	RATE	TOTAL	CUSTOM
SWATHER (CUSTOM) (2X)					23.33
BALER, PTO (2X)	65 HP	1.00	0.27	0.27	

GREEN CHILE (DIRECT SEED)

ACRES: 1 PUMP WATER:

MACHINE	POWER UNIT	TIMES OVER	RATE	TOTAL	CUSTOM
DISC	65 HP	1.00	0.31	0.31	
PLOW	65 HP	1.00	1.31	1.31	
DISC	65 HP	1.00	0.31	0.31	
LASER PLANE (CUSTOM)					70.71
LISTER	65 HP	1.00	0.54	0.54	
PLANT/BED SHAPE					
CULTIVATOR (3X)	65 HP	3.00	0.54	1.62	
TREN & HOE					
IRRIGATE (16X)		16.00	0.75	12.00	

MACHINE	POWER UNIT	TIMES OVER	RATE	TOTAL	CUSTOM
HARVEST HAIL & SELL	HALF TON	1.00	100.00	100.00	
		1.00	20.00	20.00	

JALAPENOS

ACRES: 1 PUMP WATER:

MACHINE	POWER UNIT	TIMES OVER	RATE	TOTAL	CUSTOM
DISC	65 HP	1.00	0.31	0.31	
PLOW	65 HP	1.00	1.31	1.31	
DISC	65 HP	1.00	0.31	0.31	
LASER PLANE (CUSTOM)					70.71
LISTER	65 HP	1.00	0.54	0.54	
PLANT/BED SHAPE					
CULTIVATOR (3X)	65 HP	3.00	0.54	1.62	
TREN & HOE					
IRRIGATE (12X)		16.00	0.75	12.00	
HARVEST HAIL & SELL	HALF TON	1.00	100.00	100.00	0.09
		1.00	3.00	3.00	

ANNUAL REPAIR COSTS AS A PERCENT OF NEW VALUE

Hours of Use	1	2	3	4	5	6	7	8	9
0	0.000060	0.000020	0.000620	0.000020	0.000080	0.000140	0.000040	0.000240	0.000200
50	0.000060	0.000020	0.000620	0.000020	0.000080	0.000140	0.000040	0.000240	0.000200
100	0.000060	0.000020	0.000620	0.000020	0.000140	0.000220	0.000100	0.000380	0.000300
200	0.000030	0.000010	0.000310	0.000010	0.000070	0.000130	0.000020	0.000260	0.000210
300	0.000030	0.000010	0.000310	0.000010	0.000070	0.000130	0.000020	0.000260	0.000210
400	0.000030	0.000010	0.000310	0.000010	0.000070	0.000130	0.000020	0.000260	0.000210
500	0.000030	0.000010	0.000310	0.000010	0.000070	0.000130	0.000020	0.000260	0.000210
600	0.000030	0.000010	0.000310	0.000010	0.000070	0.000130	0.000020	0.000260	0.000210
700	0.000030	0.000010	0.000310	0.000010	0.000070	0.000130	0.000020	0.000260	0.000210
800	0.000030	0.000010	0.000310	0.000010	0.000070	0.000130	0.000020	0.000260	0.000210
900	0.000030	0.000010	0.000310	0.000010	0.000070	0.000130	0.000020	0.000260	0.000210
1000	0.000030	0.000010	0.000310	0.000010	0.000070	0.000130	0.000020	0.000260	0.000210
1200	0.000045	0.000015	0.000305	0.000020	0.000425	0.000480	0.000245	0.001135	0.000710
1400	0.000045	0.000015	0.000305	0.000020	0.000425	0.000480	0.000245	0.001135	0.000710
1500	0.000150	0.000170	0.000300	0.000230	0.000435	0.000510	0.000410	0.001260	0.000765
1600	0.000150	0.000180	0.000285	0.000225	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		
2000	0.000110	0.000285	0.000280	0.000305	0.000505	0.000565	0.000310		
2500	0.000066								
3000	0.000070								
3500	0.000062								
4000	0.000096								
4500	0.000108								
5000	0.000122								
5500	0.000136								
6000	0.000148								
6500	0.000162								
7000	0.000176								
7500	0.000188								
8000	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 balers
  - 2 balers, combines, forage harvesters, windrowers, pickups
  - 3 rotary hoe, disks, moldboard plows, chisels, field cultivators
  - 4 row cultivators, laser plane
  - 5 harrows, wagons, floats, roto buck, drag, roller, water furrow, bed shape
  - 6 bales/wagons, cotton pickers, cotton strippers, corn pickers, corn heads, forage equipment, rotary mowers, stalk choppers, feed wagons, farm trucks
  - 7 rakes, cutterbar mower
  - 8 planters, drills, seeding equipment, mounted sprayers
  - 9 fertilizer distributing equipment

TABLE 5. Alfalfa establishment, flood-irrigated, budgeted per acre costs and returns for a 30 acre part-time farm, Valencia and Southern Bernalillo Counties, Projected 2013.  
Planting dates: August 15 - September 15

ITEM	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
<u>PURCHASED INPUTS</u>								
ALFALFA SEED	\$6.50	20.00 LBS	\$130.00					\$130.00
CANAL WATER		12.00 AC. IN.						\$0.00
SUBTOTAL			\$130.00					\$130.00
<u>PREHARVEST OPERATIONS</u>								
	POWER UNIT	ACCOMPLISHMEN T RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	65 HP	0.31 HR		\$2.33	\$5.73	\$0.67	\$7.91	\$16.64
PLOW	65 HP	1.31 HR		\$9.83	\$24.20	\$2.10	\$20.44	\$56.57
DISC	65 HP	0.31 HR		\$2.33	\$5.73	\$0.67	\$7.91	\$16.64
LASER PLANE (CUSTOM)			\$70.71					\$70.71
BORDER DISC	65 HP	0.05 HR		\$0.38	\$0.92	\$0.08	\$5.75	\$7.13
DRILL (CUSTOM)			\$32.50					\$32.50
IRRIGATE (2X)		1.50 HR		\$11.25				\$11.25
SUBTOTAL		3.48 HR	\$103.21	\$26.10	\$36.58	\$3.52	\$42.02	\$211.44
<u>OVERHEAD EXPENSES</u>								
DOWNTIME		0.50 HR		\$3.71				\$3.71
EMPLOYEE BENEFITS				\$3.13				\$3.13
INSURANCE			\$0.31					\$0.31
SUPERVISION AND MANAGEMENT				\$16.15				\$16.15
SUBTOTAL		0.50 HR	\$0.31	\$22.99				\$23.31
<u>TOTAL OPERATING EXPENSES</u>		3.98 HR	\$233.52	\$49.09	\$36.58	\$3.52	\$42.02	\$364.74

TABLE 6. Alfalfa hay, flood-irrigated, budgeted per acre costs and returns for a 30 acre part-time farm, Valencia and Southern Bernalillo Counties, Projected 2013.  
Harvesting dates: June 1 - October 15

ITEM	PRICE	YIELD	TOTAL
<b>GROSS RETURNS</b>			
ALFALFA HAY	\$235.00	4.00 TONS (IN FIELD)	\$940.00
GRAZING	\$10.00	1.00 ACRE	\$10.00
<b>TOTAL</b>			<b>\$950.00</b>

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
PHOSPHATE (P2O5)	\$0.60	90 LBS	\$54.00		\$54.00
WIRE	\$0.91	30 LBS	\$27.30		\$27.30
ESTABLISHMENT: Principal		6 YEARS		\$60.79	\$60.79
: Interest				\$9.79	\$9.79
CANAL WATER		44 AC. IN.	\$28.00		\$28.00
<b>SUBTOTAL</b>			<b>\$109.30</b>	<b>\$70.59</b>	<b>\$179.89</b>

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
IRRIGATE (8X)		6.00 HR		\$45.00				\$45.00
<b>HARVEST OPERATIONS</b>								
SWATHER (CUSTOM)			\$23.33					\$23.33
BALER, PTO (4X)	65 HP	1.08 HR		\$8.10	\$19.95	\$1.56	\$33.05	\$62.66
<b>SUBTOTAL</b>		<b>1.08 HR</b>	<b>\$23.33</b>	<b>\$8.10</b>	<b>\$19.95</b>	<b>\$1.56</b>	<b>\$33.05</b>	<b>\$85.99</b>

<b>OVERHEAD EXPENSES</b>								
DOWNTIME		0.27 HR		\$2.03				\$2.03
EMPLOYEE BENEFITS				\$0.97				\$0.97
INSURANCE			\$0.10					\$0.10
LAND TAXES							\$5.42	\$5.42
SUPERVISION AND MANAGEMENT				\$44.54				\$44.54
OTHER EXPENSES			\$197.68					\$197.68
<b>SUBTOTAL</b>		<b>0.27 HR</b>	<b>\$197.78</b>	<b>\$47.54</b>			<b>\$5.42</b>	<b>\$250.73</b>
<b>TOTAL OPERATING EXPENSES</b>		<b>1.35 HR</b>	<b>\$330.41</b>	<b>\$100.64</b>	<b>\$19.95</b>	<b>\$1.56</b>	<b>\$109.05</b>	<b>\$561.61</b>
<b>NET OPERATING PROFIT</b>								<b>\$388.39</b>
INTEREST ON OPERATING CAPITAL		( \$58.39 @	5.00%	)				\$2.92
INTEREST ON EQUIPMENT								\$20.00
<b>RETURN TO LAND AND RISK</b>								<b>\$365.47</b>

<b>BUDGET SUMMARY</b>			
GROSS RETURN		\$950.00	
VARIABLE OPERATING EXPENSES	\$351.92		
RETURN OVER VARIABLE EXPENSES	\$598.08	(GROSS MARGIN)	
FIXED EXPENSES	\$109.05		
NET FARM INCOME	\$489.03	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$100.64		
NET OPERATING PROFIT	\$388.39	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$22.92		
RETURN TO LAND AND RISK	\$365.47		

TABLE 7. Small grain hay, flood-irrigated, budgeted per acre costs and returns for a 30 acre part-time farm, Valencia and Southern Bernalillo Counties, Projected 2013.  
 Planting dates: March 1 - May 1  
 Harvesting dates: June 15 - July 15

ITEM	PRICE	YIELD							TOTAL
<b>GROSS RETURNS</b>									
SMALL GRAIN HAY	\$215.00	2.50 NS (IN FIELD)							\$537.50
<b>TOTAL</b>									\$537.50
<b>PURCHASED INPUTS</b>									
	PRICE	QUANTITY	PURCHASED INPUTS					FIXED COST	TOTAL
SEED	\$0.61	100 LBS	\$61.00						\$61.00
WIRE	\$0.91	25 LBS	\$22.75						\$22.75
CANAL WATER		24 AC. IN.	\$28.00						\$28.00
<b>SUBTOTAL</b>			<b>\$111.75</b>						<b>\$111.75</b>
<b>PREHARVEST OPERATIONS</b>									
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
PLOW	65 HP	1.31 HR		\$9.83	\$24.20	\$2.10	\$20.44	\$56.57	
DISC (2X)	65 HP	0.62 HR		\$4.65	\$11.45	\$1.34	\$15.83	\$33.27	
BORDER DISC	65 HP	0.05 HR		\$0.38	\$0.92	\$0.08	\$5.75	\$7.13	
DRILL (CUSTOM)			\$7.53					\$7.53	
IRRIGATE (4X)		3.00 HR		\$22.50				\$22.50	
<b>SUBTOTAL</b>		4.98 HR	\$7.53	\$37.35	\$36.58	\$3.52	\$42.02	<b>\$127.01</b>	
<b>HARVEST OPERATIONS</b>									
SWATHER (CUSTOM)			\$23.33					\$23.33	
BALER, PTO	65 HP	0.27 HR		\$2.03	\$4.99	\$0.39	\$8.26	\$15.67	
<b>SUBTOTAL</b>		0.27 HR	\$23.33	\$2.03	\$4.99	\$0.39	\$8.26	<b>\$39.00</b>	
<b>OVERHEAD EXPENSES</b>									
DOWNTIME		0.56 HR		\$4.22				\$4.22	
EMPLOYEE BENEFITS				\$4.73				\$4.73	
INSURANCE			\$0.47					\$0.47	
LAND TAXES							\$2.71	\$2.71	
SUPERVISION AND MANAGEMENT				\$25.63				\$25.63	
OTHER EXPENSES			\$98.84					\$98.84	
<b>SUBTOTAL</b>		0.56 HR	\$99.31	\$34.57			\$2.71	<b>\$136.59</b>	
<b>TOTAL OPERATING EXPENSES</b>		5.81 HR	\$241.92	\$73.94	\$41.57	\$3.92	\$52.99	<b>\$414.34</b>	
<b>NET OPERATING PROFIT</b>									\$123.16
INTEREST ON OPERATING CAPITAL		(	\$68.29	@	5.00%	)		\$3.41	
INTEREST ON EQUIPMENT								\$31.64	
<b>RETURN TO LAND AND RISK</b>									\$88.11
<b>BUDGET SUMMARY</b>									
GROSS RETURN			\$537.50						
VARIABLE OPERATING EXPENSES	\$287.41								
RETURN OVER VARIABLE EXPENSES		\$250.09	(GROSS MARGIN)						
FIXED EXPENSES	\$52.99								
NET FARM INCOME		\$197.10	(RETURN TO CAPITAL, LABOR, LAND & RISK)						
LABOR AND MANAGEMENT COST	\$73.94								
NET OPERATING PROFIT		\$123.16	(RETURN TO CAPITAL, LAND & RISK)						
CAPITAL COSTS	\$35.05								
RETURN TO LAND AND RISK		\$88.11							

TABLE 8. Sorghum hay, flood-irrigated, budgeted per acre costs and returns for a 30 acre part-time farm, Valencia and Southern Bernalillo Counties, Projected 2013.  
 Planting dates: July 1 - July 31  
 Harvesting dates: August 10 - September 30

ITEM	PRICE	YIELD						TOTAL
<b>GROSS RETURNS</b>								
SORGHUM HAY	\$193.00	2.00 TONS (IN FIELD)						\$386.00
GRAZING	\$5.00	1.00 ACRE						\$5.00
<b>TOTAL</b>								<b>\$391.00</b>
<b>PURCHASED INPUTS</b>								
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
SEED	\$2.04	35 LBS	\$71.40					\$71.40
WIRE	\$0.91	17 LBS	\$15.47					\$15.47
CANAL WATER		24 AC. IN.	\$28.00					\$28.00
<b>SUBTOTAL</b>			<b>\$114.87</b>					<b>\$114.87</b>
<b>PREHARVEST OPERATIONS</b>								
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	65 HP	0.31 HR		\$2.33	\$5.73	\$0.67	\$7.91	\$16.64
DRILL (CUSTOM)			\$7.53					\$7.53
IRRIGATE (4X)		3.00 HR		\$22.50				\$22.50
<b>SUBTOTAL</b>		<b>3.31 HR</b>	<b>\$7.53</b>	<b>\$24.83</b>	<b>\$5.73</b>	<b>\$0.67</b>	<b>\$7.91</b>	<b>\$46.67</b>
<b>HARVEST OPERATIONS</b>								
SWATHER (CUSTOM) (2X)			\$23.33					\$23.33
BALER, PTO (2X)	65 HP	0.27 HR		\$2.03	\$4.99	\$0.39	\$8.26	\$15.67
<b>SUBTOTAL</b>		<b>0.27 HR</b>	<b>\$23.33</b>	<b>\$2.03</b>	<b>\$4.99</b>	<b>\$0.39</b>	<b>\$8.26</b>	<b>\$39.00</b>
<b>OVERHEAD EXPENSES</b>								
DOWNTIME		0.15 HR		\$1.09				\$1.09
EMPLOYEE BENEFITS				\$3.22				\$3.22
INSURANCE			\$0.32					\$0.32
LAND TAXES							\$2.71	\$2.71
SUPERVISION AND MANAGEMENT				\$18.93				\$18.93
OTHER EXPENSES			\$98.84					\$98.84
<b>SUBTOTAL</b>		<b>0.15 HR</b>	<b>\$99.16</b>	<b>\$23.24</b>			<b>\$2.71</b>	<b>\$125.11</b>
<b>TOTAL OPERATING EXPENSES</b>		<b>3.73 HR</b>	<b>\$244.89</b>	<b>\$50.09</b>	<b>\$10.72</b>	<b>\$1.06</b>	<b>\$18.88</b>	<b>\$325.64</b>
<b>NET OPERATING PROFIT</b>								<b>\$65.36</b>
INTEREST ON OPERATING CAPITAL		( \$61.43 @ 5.00% )						\$3.07
INTEREST ON EQUIPMENT								\$9.63
<b>RETURN TO LAND AND RISK</b>								<b>\$52.65</b>

**BUDGET SUMMARY**

GROSS RETURN		\$391.00	
VARIABLE OPERATING EXPENSES	\$256.67		
RETURN OVER VARIABLE EXPENSES		\$134.33	(GROSS MARGIN)
FIXED EXPENSES	\$18.88		
NET FARM INCOME		\$115.45	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$50.09		
NET OPERATING PROFIT		\$65.36	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$12.70		
<b>RETURN TO LAND AND RISK</b>		<b>\$52.65</b>	

TABLE 9. Green chile, flood-irrigated, budgeted per acre costs and returns for a 30 acre part-time Valencia and Southern Bernalillo Counties, Projected 2013.  
 Planting dates: April 10 - May 1  
 Harvesting dates: August 1 - October 15

ITEM	PRICE	YIELD	TOTAL
<b>GROSS RETURNS</b>			
GREEN CHILE	\$7.50	275.00 BUSHELS (22 LBS PER BUSHEL)	\$2,062.50
RED CHILE	\$1.50	400.00 LBS	\$600.00
<b>TOTAL</b>			<b>\$2,662.50</b>

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
CHILE SEED	\$88.00	7 LBS	\$616.00		\$616.00
NITROGEN (N)	\$0.61	130 LBS	\$79.30		\$79.30
HERBICIDE (GRANULAR)	\$35.06	1 X/ACRE	\$35.06		\$35.06
INSECTICIDE (GRANULAR)	\$19.65	1 X/ACRE	\$19.65		\$19.65
SACKS	\$0.18	375 EACH	\$67.50		\$67.50
CANAL WATER		48 AC. IN.	\$28.00		\$28.00
<b>SUBTOTAL</b>			<b>\$845.51</b>		<b>\$845.51</b>

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	65 HP	0.31 HR		\$2.33	\$5.73	\$0.67	\$7.91	\$16.64
PLOW	65 HP	1.31 HR		\$9.83	\$24.20	\$2.10	\$20.44	\$56.57
DISC	65 HP	0.31 HR		\$2.33	\$5.73	\$0.67	\$7.91	\$16.64
LASER PLANE (CUSTOM)			\$70.71					\$70.71
LISTER	65 HP	0.54 HR		\$4.05	\$9.98	\$0.87	\$25.08	\$39.97
PLANT/BED SHAPE		32.00 HR		\$240.00				\$240.00
CULTIVATOR (3X)	65 HP	1.62 HR		\$12.15	\$29.93	\$2.60	\$39.09	\$83.77
THIN & HOE		30.00 HR		\$225.00				\$225.00
IRRIGATE (16X)		12.00 HR		\$90.00				\$90.00
<b>SUBTOTAL</b>		<b>78.09 HR</b>	<b>\$70.71</b>	<b>\$585.68</b>	<b>\$75.57</b>	<b>\$6.91</b>	<b>\$100.44</b>	<b>\$839.30</b>

HARVEST OPERATIONS								
HARVEST		100.00 HR		\$750.00				\$750.00
HAUL & SELL	HALF TON	20.00 HR		\$150.00	\$478.80	\$15.20	\$116.32	\$760.32
<b>SUBTOTAL</b>		<b>120.00 HR</b>		<b>\$900.00</b>	<b>\$478.80</b>	<b>\$15.20</b>	<b>\$116.32</b>	<b>\$1,510.32</b>

OVERHEAD EXPENSES								
DOWNTIME		6.02 HR		\$45.17				\$45.17
EMPLOYEE BENEFITS				\$178.28				\$178.28
INSURANCE			\$17.83					\$17.83
LAND TAXES						\$5.42		\$5.42
SUPERVISION AND MANAGEMENT				\$332.84				\$332.84
OTHER EXPENSES			\$197.68					\$197.68
<b>SUBTOTAL</b>		<b>6.02 HR</b>	<b>\$215.51</b>	<b>\$556.29</b>		<b>\$5.42</b>		<b>\$777.21</b>

<b>TOTAL OPERATING EXPENSES</b>		<b>204.11 HR</b>	<b>\$1,131.72</b>	<b>\$2,041.96</b>	<b>\$554.37</b>	<b>\$22.11</b>	<b>\$222.18</b>	<b>\$3,972.34</b>
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NET OPERATING PROFIT (\$1,309.84)

INTEREST ON OPERATING CAPITAL	(	\$484.54	@	5.00%	)	\$24.23
INTEREST ON EQUIPMENT						\$885.82

RETURN TO LAND AND RISK (\$2,219.89)

BUDGET SUMMARY		
GROSS RETURN		\$2,662.50
VARIABLE OPERATING EXPENSES	\$1,708.20	
RETURN OVER VARIABLE EXPENSES	\$954.30	(GROSS MARGIN)
FIXED EXPENSES	\$222.18	
NET FARM INCOME	\$732.13	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$2,041.96	
NET OPERATING PROFIT	(\$1,309.84)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$910.05	
RETURN TO LAND AND RISK		(\$2,219.89)

TABLE 10. Jalapenos, flood-irrigated, budgeted per acre costs and returns for a 30 acre, part-time Valencia and Southern Bernalillo Counties, Projected 2013.  
 Planting dates: April 10 - May 1  
 Harvesting dates: August 1 - October 15

ITEM	PRICE	YIELD						TOTAL
GROSS RETURNS								
JALAPENOS	\$300.00	11.00 TONS						\$3,300.00
TOTAL								\$3,300.00

  

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
JALAPENO SEED	\$104.00	3 LBS	\$312.00		\$312.00
NITROGEN (N)	\$0.61	150 LBS	\$91.50		\$91.50
PHOSPHATE (P205)	\$0.60	75 LBS	\$45.00		\$45.00
HERBICIDE (GRANULAR)	\$35.06	1 X/ACRE	\$35.06		\$35.06
INSECTICIDE (GRANULAR)	\$19.65	1 X/ACRE	\$19.65		\$19.65
SACKS	\$1.00	10 EACH	\$10.00		\$10.00
CANAL WATER		48 AC. IN.	\$28.00		\$28.00
SUBTOTAL			\$541.21		\$541.21

  

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	65 HP	0.31 HR		\$2.33	\$5.73	\$0.67	\$7.91	\$16.64
PLOW	65 HP	1.31 HR		\$9.83	\$24.20	\$2.10	\$20.44	\$56.57
DISC	65 HP	0.31 HR		\$2.33	\$5.73	\$0.67	\$7.91	\$16.64
LASER PLANE (CUSTOM)			\$70.71					\$70.71
LISTER	65 HP	0.54 HR		\$4.05	\$9.98	\$0.87	\$25.08	\$39.97
PLANT/BED SHAPE	65 HP	2.00 HR		\$15.00	\$36.95	\$2.73	\$57.64	\$112.32
CULTIVATOR (3X)	65 HP	1.62 HR		\$12.15	\$29.93	\$2.60	\$39.09	\$83.77
THIN & HOE		25.00 HR		\$187.50				\$187.50
IRRIGATE (16X)		12.00 HR		\$90.00				\$90.00
SUBTOTAL		43.09 HR	\$70.71	\$323.18	\$112.52	\$9.64	\$158.08	\$674.12

  

HARVEST OPERATIONS								
HARVEST (CUSTOM)				\$1,980.00				\$1,980.00
HAUL & SELL	HALF TON	3.00 HR		\$22.50	\$71.82	\$2.28	\$17.45	\$114.05
SUBTOTAL		3.00 HR		\$2,002.50	\$71.82	\$2.28	\$17.45	\$2,094.05

  

OVERHEAD EXPENSES							
DOWNTIME		1.77 HR		\$13.29			\$13.29
EMPLOYEE BENEFITS				\$279.08			\$279.08
INSURANCE			\$27.91				\$27.91
LAND TAXES					\$5.42		\$5.42
SUPERVISION AND MANAGEMENT				\$448.54			\$448.54
OTHER EXPENSES			\$197.68				\$197.68
SUBTOTAL		1.77 HR	\$225.59	\$740.92		\$5.42	\$971.92

  

TOTAL OPERATING EXPENSES		47.86 HR	\$837.50	\$3,066.59	\$184.34	\$11.92	\$180.94	\$4,281.29
NET OPERATING PROFIT								(\$981.29)
INTEREST ON OPERATING CAPITAL		( \$307.32 @ 5.00% )						\$15.37
INTEREST ON EQUIPMENT								\$191.15
RETURN TO LAND AND RISK								-1,187.81

BUDGET SUMMARY		
GROSS RETURN	\$3,300.00	
VARIABLE OPERATING EXPENSES	\$1,033.76	
RETURN OVER VARIABLE EXPENSES	\$2,266.24	(GROSS MARGIN)
FIXED EXPENSES	\$180.94	
NET FARM INCOME	\$2,085.30	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$3,066.59	
NET OPERATING PROFIT	(\$981.29)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$206.52	
RETURN TO LAND AND RISK	(\$1,187.81)	



TABLE 11. Summary of per acre costs and returns for a 30 acre part-time farm, Valencia and Southern Bernalillo Counties, Projected 2013.

	ALFALFA ESTABLISHMENT	ALFALFA HAY	SMALL GRAIN HAY	SORGHUM HAY	GREEN CHILE	JALAPENOS
		TONS	TONS	TONS	BU/LB	TONS
PRIMARY YIELD		4.00	2.50	2.00	275.00	11.00
PRIMARY PRICE		\$235.00	\$215.00	\$193.00	\$7.50	\$300.00
GOVERNMENT PAYMENTS		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
SECOND INCOME		\$10.00	\$0.00	\$5.00	\$600.00	\$0.00
GROSS RETURN		\$950.00	\$537.50	\$391.00	\$2,662.50	\$3,300.00
CASH OPERATING EXPENSES						
SEED	\$130.00		\$61.00	\$71.40	\$616.00	\$312.00
FERTILIZER		\$54.00			\$79.30	\$136.50
CHEMICALS					\$54.71	\$54.71
CROP INSURANCE						
OTHER PURCHASED INPUTS		\$27.30	\$22.75	\$15.47	\$67.50	\$10.00
CANAL WATER		\$28.00	\$28.00	\$28.00	\$28.00	\$28.00
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$36.58	\$19.95	\$41.57	\$10.72	\$554.37	\$184.34
FUEL-IRRIGATION						
REPAIRS	\$3.52	\$1.56	\$3.92	\$1.06	\$22.11	\$11.92
CUSTOM CHARGES	\$103.21	\$23.33	\$30.86	\$30.86	\$70.71	\$70.71
LAND TAXES		\$5.42	\$2.71	\$2.71	\$5.42	\$5.42
OTHER EXPENSES	\$0.31	\$197.78	\$99.31	\$99.16	\$215.51	\$225.59
TOTAL CASH EXPENSES	\$273.63	\$357.34	\$290.12	\$259.38	\$1,713.61	\$1,039.18
RETURN OVER CASH EXPENSES	(\$273.63)	\$592.66	\$247.38	\$131.62	\$948.89	\$2,260.82
FIXED EXPENSES	\$42.02	\$103.63	\$50.28	\$16.18	\$216.76	\$175.52
TOTAL EXPENSES	\$315.65	\$460.97	\$340.40	\$275.55	\$1,930.37	\$1,214.70
NET FARM INCOME	(\$315.65)	\$489.03	\$197.10	\$115.45	\$732.13	\$2,085.30
LABOR AND MANAGEMENT COSTS	\$49.09	\$100.64	\$73.94	\$50.09	\$2,041.96	\$3,066.59
NET OPERATING PROFIT	(\$364.74)	\$388.39	\$123.16	\$65.36	(\$1,309.84)	(\$981.29)
CAPITAL COSTS						
INTEREST ON OPERATING CAPITAL		\$2.92	\$3.41	\$3.07	\$24.23	\$15.37
INTEREST ON EQUIPMENT INVESTMENT		\$20.00	\$31.64	\$9.63	\$885.82	\$191.15
TOTAL CAPITAL COSTS	\$0.00	\$22.92	\$35.05	\$12.70	\$910.05	\$206.52
RETURN TO LAND AND RISK	(\$364.74)	\$365.47	\$88.11	\$52.65	(\$2,219.89)	(\$1,187.81)

TABLE 12. Whole farm summary, Valencia and Southern Bernalillo Counties,  
Projected 2013.

GROSS RETURNS		
ALFALFA HAY	20.00 ACRES	
CROP		\$18,800
GRAZING		\$200
SMALL GRAIN HAY	5.00 ACRES	
CROP		\$2,688
SORGHUM HAY	5.00 ACRES	
CROP		\$1,930
GRAZING		\$25
GREEN CHILE	1.00 ACRES	
GREEN		\$2,063
RED		\$600
JALPENOS	1.00 ACRES	
CROP		\$3,300
GROSS RETURN		<u>\$29,605</u>
CASH OPERATING EXPENSES		
SEED		\$2,045
FERTILIZER		\$1,296
CHEMICALS		\$109
CROP INSURANCE		\$0
OTHER PURCHASED INPUTS		\$815
CANAL WATER		\$896
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$1,527
FUEL-IRRIGATION		\$0
REPAIRS		\$103
CUSTOM CHARGES		\$1,278
LAND TAXES		\$146
OTHER EXPENSES		\$5,390
TOTAL CASH EXPENSES		<u>\$13,605</u>
RETURN OVER CASH EXPENSES		\$16,000
FIXED EXPENSES		\$1,728
TOTAL EXPENSES		<u>\$15,333</u>
NET FARM INCOME		\$14,272
LABOR AND MANAGEMENT COSTS		\$7,913
NET OPERATING PROFIT		\$6,358
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$130
INTEREST ON EQUIPMENT INVESTMENT		\$1,683
TOTAL CAPITAL COSTS		<u>\$1,814</u>
RETURN TO LAND AND RISK		<u>\$4,545</u>

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$5,000 /ACRE	\$45	3.58%
\$6,500 /ACRE	(\$1,305)	2.86%
\$8,000 /ACRE	(\$2,655)	2.38%
\$9,500 /ACRE	(\$4,005)	2.04%
\$11,000 /ACRE	(\$5,355)	1.78%
\$12,500 /ACRE	(\$6,705)	1.58%

\* 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)