

TABLE 1. Acreage Summary, Valencia and Southern Bernalillo Counties,  
Projected 2017

BUDGET AREA.....VALENCIA AND SOUTHERN BERNALILLO COUNTIES			
FARM SIZE.....30 ACRES			
IRRIGATION TYPE.....FLOOD			
NUMBER OF CROPS.....5....			
ACREAGE SUMMARY:	LAND USE (ACRES)	WATER USE	
		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	30.00		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 2017

Item			
Labor Wage Rate:		\$/hour	\$7.50
Purchased Inputs:			
Fertilizer:			
Nitrogen (N)		\$/pound	\$0.22
Phosphate (P205)		\$/pound	\$0.27
Seed:			
Alfalfa		\$/pound	\$3.05
Oats		\$/pound	\$0.34
Green Chile		\$/pound	\$18.00
Jalapenos		\$/pound	\$60.00
Sorghum		\$/pound	\$1.70
Baling wire		\$/pound	\$1.32
Chile Sacks		\$/sack	\$0.18
Canal water		\$/acre	\$28.00
Energy:			
Butane		\$/gallon	\$2.60
Diesel fuel		\$/gallon	\$2.35
Gasoline		\$/gallon	\$2.10
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	5.50%
Land Interest Rate		percent	5.00%
Equipment Interest Rate		percent	5.50%
Real Interest Rate		percent	3.00%
Land Taxes	\$483.00	/acre (full value)	\$4.97
Personal Property Tax Rate	- NR	\$/ \$1,000 (Assessed Value)	\$30.90
	- R		\$27.00
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 2017

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 20-acre, part-time farm, Valencia and Southern Bernabeo Counties.

EQUIPMENT ITEM & SIZE	ANNUAL HOURS OF USE	NUMBER	TOTAL VALUE	VARIABLE COSTS				FIXED COSTS		
				FUEL, OIL, LUBRICANTS	REPAIR	FUEL, OIL, REPAIR	DEPRECIATION	TAXES	TOTAL PER ACR	
TRACTOR 65 HP	51	1	\$4,900	\$519	\$86	\$10.21	\$1.29	\$308	\$111	\$519.76
PLOW 1/2 TON	21	1	\$1,000	\$204	\$27	\$10.20	\$0.18	\$180	\$56	\$219.22
BALER PFD	2	1	\$1,800	\$0	\$4	\$0.00	\$0.00	\$360	\$46	\$146.88
CULTIVATOR 2 ROW	3	1	\$200	\$0	\$1	\$0.00	\$0.00	\$33	\$3	\$11.08
DISC 4 FT	2	1	\$50	\$0	\$2	\$0.00	\$0.00	\$10	\$7	\$14.07
LINER 2 ROW	1	1	\$250	\$0	\$0	\$0.00	\$0.00	\$33	\$3	\$33.20
ROW PUP 2 ROW	1	1	\$250	\$0	\$4	\$0.00	\$0.00	\$33	\$3	\$34.41
BORDER DISC 6 DISC	0	1	\$300	\$0	\$0	\$0.00	\$0.00	\$40	\$3	\$43.39
BED PLANTER 2	1	1	\$100	\$0	\$0	\$0.00	\$0.00	\$20	\$2	\$21.17

\$0.00 \$00 \$100 \$200 \$300 \$400 \$500 \$600 \$700 \$800 \$900 \$1000

EQUIPMENT LIST

ITEM	NEW VALUE	USED VALUE	YEARS	EQUIP LIFE	MAX FUEL CONSUMPTION	LUBE OIL	ACCUM OIL	INTEREST PER \$1000/ANNUM
TRACTOR 65 HP	2185.00	469.00	40.00	1.00	800.00	4.4	0.10	1088.00
PLOW 1/2 TON	3900.00	1900.00	10.00	2.00	800.00	6.00	0.05	290.00
BALER PFD	7500.00	1600.00	2.00	3.00	800.00	0.00	0.00	424.00
CULTIVATOR 2 ROW	500.00	200.00	10.00	3.00	300.00	0.00	0.00	14.84
DISC 4 FT	1400.00	10.00	10.00	3.00	300.00	0.00	0.00	128.86
LINER 2 ROW	250.00	2.00	10.00	3.00	300.00	0.00	0.00	11.78
ROW PUP 2 ROW	500.00	200.00	10.00	3.00	300.00	0.00	0.00	230.08
BORDER DISC 6 DISC	600.00	300.00	10.00	3.00	300.00	0.00	0.00	8.80
BED PLANTER 2	300.00	150.00	10.00	8.00	100.00	0.00	0.00	13.00

INTEREST PROXIMATION

ALFAFA	SMALL GRASS	SORGHAM	GREEN CORN	GREEN CORN
100	100	100	100	100
1.25	2.25	4.75	4.75	
0.00	0.00	0.00	0.00	
0.41	2.35	2.35	0.00	
0.00	0.00	0.00	0.00	
0.00	2.36	1.48	2.36	
0.00	0.00	0.00	4.88	
0.00	1.31	0.00	1.31	
0.00	1.84	0.00	0.00	
0.00	0.00	0.00	0.00	8.25

21.85 24.80 1580 374.41 210.27

LEASE LIST

ALFAFA	SMALL GRASS	SORGHAM	GREEN CORN	PER ACRE
100	100	100	100	100
1.08	1.08	2.25	0.58	4.09
0.00	0.00	0.00	0.00	23.00
0.00	1.08	0.27	0.27	0.60
0.00	0.00	0.00	0.00	1.82
0.62	0.00	0.62	0.31	0.62
0.00	0.00	0.00	0.24	1.68
1.21	0.00	1.21	0.00	1.21
0.00	0.00	0.00	0.00	0.10
0.00	0.00	0.00	0.00	2.00

ALFAFA ESTABLISHMENT

MACHINE	POWER HPT	TIMES OVER	RATE	TOTAL	CUSTOM
DISC	65 HP	1.00	0.31	0.31	
DISC	65 HP	1.00	1.21	1.21	
DISC	65 HP	1.00	0.31	0.31	
LINER PLANE (CUSTOM)					70.71
BORDER DISC	65 HP	1.00	0.05	0.05	
DRILL (CUSTOM PER ACRE)					33.50
IRRIGATE (IN)			2.00	0.75	1.50

ALFAFA HWY

MACHINE	POWER HPT	TIMES OVER	RATE	TOTAL	CUSTOM
IRRIGATE (IN)			8.00	0.75	6.00

SORGHAM (CUSTOM PER ACRE)

MACHINE	POWER HPT	TIMES OVER	RATE	TOTAL	CUSTOM
BALER PFD (IN)	65 HP	4.00	0.27	1.08	23.33

SMALL GRASS HWY

MACHINE	POWER HPT	TIMES OVER	RATE	TOTAL	CUSTOM
DISC	65 HP	1.00	0.31	0.31	
DISC	65 HP	1.00	1.31	1.31	
DISC	65 HP	2.00	0.31	0.62	
BORDER DISC	65 HP	1.00	0.05	0.05	
DRILL (CUSTOM PER ACRE)					7.53
IRRIGATE (IN)			4.00	0.75	3.00

SORGHAM HWY

MACHINE	POWER HPT	TIMES OVER	RATE	TOTAL	CUSTOM
DISC	65 HP	1.00	0.31	0.31	
IRRIGATE (IN)			4.00	0.75	3.00

SORGHAM (CUSTOM PER ACRE)

MACHINE	POWER HPT	TIMES OVER	RATE	TOTAL	CUSTOM
BALER PFD (IN)	65 HP	1.00	0.27	0.27	23.33

GREEN CORN (DIRECT SEED)

MACHINE	POWER HPT	TIMES OVER	RATE	TOTAL	CUSTOM
DISC	65 HP	1.00	0.31	0.31	
DISC	65 HP	1.00	1.31	1.31	
DISC	65 HP	1.00	0.31	0.31	
LINER PLANE (CUSTOM)					70.71
LINER PLANE SHARP	65 HP	1.00	0.54	0.54	
PLANTED SHARP	65 HP	1.00	2.00	2.00	
CULTIVATOR (IN)	65 HP	3.00	0.54	1.62	
TRENCHER			1.00	25.00	
IRRIGATE (IN)			16.00	0.75	12.00

HARVEST

MACHINE	POWER HPT	TOTAL
HUL & SELL	1/2 TON	1.00 100.00 100.00
		1.00 3.00 3.00

ALFAFA

MACHINE	POWER HPT	TIMES OVER	RATE	TOTAL	CUSTOM
DISC	65 HP	1.00	0.31	0.31	
DISC	65 HP	1.00	1.31	1.31	
DISC	65 HP	1.00	0.31	0.31	
LINER PLANE (CUSTOM)					70.71
LINER PLANE SHARP	65 HP	1.00	0.54	0.54	
PLANTED SHARP	65 HP	1.00	2.00	2.00	
CULTIVATOR (IN)	65 HP	3.00	0.54	1.62	
TRENCHER			1.00	25.00	
IRRIGATE (IN)			16.00	0.75	12.00

ANNUAL REPAIR COSTS AS A PERCENT OF NEW VALUE

Year of Use	1	2	3	4	5	6	7	8	9
0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00140	0.00040	0.00040	0.00000
50	0.00040	0.00020	0.00020	0.00020	0.00040	0.00140	0.00040	0.00040	0.00000
100	0.00020	0.00020	0.00020	0.00020	0.00140	0.00020	0.00020	0.00020	0.00000
200	0.00020	0.00020	0.00040	0.00040	0.00140	0.00020	0.00020	0.00020	0.00000
300	0.00020	0.00020	0.00040	0.00040	0.00140	0.00020	0.00020	0.00020	0.00000
400	0.00020	0.00020	0.00040	0.00040	0.00140	0.00020	0.00020	0.00020	0.00000
500	0.00020	0.00020	0.00040	0.00040	0.00140	0.00020	0.00020	0.00020	0.00000
600	0.00020	0.00020	0.00040	0.00040	0.00140	0.00020	0.00020	0.00020	0.00000
700	0.00020	0.00020	0.00040	0.00040	0.00140	0.00020	0.00020	0.00020	0.00000
800	0.00020	0.00020	0.00040	0.00040	0.00140	0.00020	0.00020	0.00020	0.00000
900	0.00020	0.00020	0.00040	0.00040	0.00140	0.00020	0.00020	0.00020	0.00000
1000	0.00040	0.00040	0.00020	0.00020	0.00040	0.00040	0.00120	0.00020	
1500	0.00040	0.00020	0.00020	0.00020	0.00040	0.00020	0.00020	0.00020	
2000	0.00020	0.00020	0.00020	0.00020	0.00040	0.00020	0.00020	0.00020	
3000	0.00020	0.00020	0.00020	0.00020	0.00040	0.00020	0.00020	0.00020	
4000	0.00020	0.00020	0.00020	0.00020	0.00040	0.00020	0.00020	0.00020	
5000	0.00020	0.00020	0.00020	0.00020	0.00040	0.00020	0.00020	0.00020	
6000	0.00020	0.00020	0.00020	0.00020	0.00040	0.00020	0.00020	0.00020	
7000	0.00020	0.00020	0.00020	0.00020	0.00040	0.00020	0.00020	0.00020	
8000	0.00020	0.00020	0.00020	0.00020	0.00040	0.00020	0.00020	0.00020	

- Based on unpublished data of D. R. Hunt, Department of Agricultural Engineering, University of Illinois.

- Based on "Agricultural Machinery Data" in Agricultural Engineers Yearbook, 1963.

Codes

- 1 Factors
- 2 Baler, combine, forage harrow, windrower, picker
- 3 Rotary law, disk, moldboard plow, chisel, field cultivator
- 4 Front-end loader
- 5 Tractor, tractor, disk, sub-soil, chisel, roller, roller, harrow
- 6 Tractor, tractor, disk, sub-soil, chisel, roller, roller, harrow
- 7 Baler, combine, forage harrow, windrower, picker
- 8 Corn head, forage equipment, rotary mower, disk chopper, hay conditioner
- 9 Baler, combine, roller
- 0 Baler, combine, roller
- 1 Baler, combine, roller
- 2 Baler, combine, roller
- 3 Baler, combine, roller
- 4 Baler, combine, roller
- 5 Baler, combine, roller
- 6 Baler, combine, roller
- 7 Baler, combine, roller
- 8 Baler, combine, roller
- 9 Baler, combine, roller

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 2017  
 Planting dates: August 15 - September 15

ITEM	PRICE	QUANTITY	PURCHASED INPUTS						TOTAL
<b>PURCHASED INPUTS</b>									
ALFALFA SEED	\$3.05	20.00 LBS		\$61.00					\$61.00
CANAL WATER		12.00 AC. IN.							\$0.00
SUBTOTAL				\$61.00					\$61.00
<b>PREHARVEST OPERATIONS</b>									
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
DISC	65 HP	0.31 HR		\$2.33	\$3.17	\$0.67	\$7.83	\$13.99	
PLOW	65 HP	1.31 HR		\$9.83	\$13.38	\$2.10	\$20.17	\$45.47	
DISC	65 HP	0.31 HR		\$2.33	\$3.17	\$0.67	\$7.83	\$13.99	
LASER PLANE (CUSTOM)			\$70.71					\$70.71	
BORDER DISC	65 HP	0.05 HR		\$0.38	\$0.51	\$0.08	\$5.71	\$6.68	
DRILL (CUSTOM)			\$32.50					\$32.50	
IRRIGATE (2X)		1.50 HR		\$11.25				\$11.25	
SUBTOTAL		3.48 HR	\$103.21	\$26.10	\$20.22	\$3.52	\$41.54	\$194.59	
<b>OVERHEAD EXPENSES</b>									
DOWNTIME		0.50 HR		\$3.71				\$3.71	
EMPLOYEE BENEFITS				\$3.13				\$3.13	
INSURANCE			\$0.31					\$0.31	
SUPERVISION AND MANAGEMENT				\$12.71				\$12.71	
SUBTOTAL		0.50 HR	\$0.31	\$19.56				\$19.87	
<b>TOTAL OPERATING EXPENSES</b>			3.98 HR	\$164.52	\$45.66	\$20.22	\$3.52	\$41.54	\$275.46

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 2017  
Harvesting dates: June 1 - October 15

ITEM	PRICE	YIELD						TOTAL	
<b>GROSS RETURNS</b>									
ALFALFA HAY	\$165.00	4.00 TONS (IN FIELD)						\$660.00	
GRAZING	\$10.00	1.00 ACRE						\$10.00	
<b>TOTAL</b>								<b>\$670.00</b>	
<b>PURCHASED INPUTS</b>									
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL	
PHOSPHATE (P2O5)	\$0.27	90 LBS	\$24.30					\$24.30	
WIRE	\$1.32	30 LBS	\$39.60					\$39.60	
ESTABLISHMENT: Principal		6 YEARS					\$45.91	\$45.91	
: Interest							\$7.84	\$7.84	
CANAL WATER		44 AC. IN.	\$28.00					\$28.00	
<b>SUBTOTAL</b>			<b>\$91.90</b>				<b>\$53.75</b>	<b>\$145.65</b>	
<b>PREHARVEST OPERATIONS</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	\$11.03	\$1.56	\$32.68	\$53.37	
<b>SUBTOTAL</b>		<b>1.08 HR</b>	<b>\$23.33</b>	<b>\$8.10</b>	<b>\$11.03</b>	<b>\$1.56</b>	<b>\$32.68</b>	<b>\$76.70</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							\$4.97	\$4.97	
SUPERVISION AND MANAGEMENT				\$33.34				\$33.34	
OTHER EXPENSES			\$197.68					\$197.68	
<b>SUBTOTAL</b>		<b>0.27 HR</b>	<b>\$197.78</b>	<b>\$36.34</b>				<b>\$4.97</b>	<b>\$239.09</b>
<b>TOTAL OPERATING EXPENSES</b>		<b>1.35 HR</b>	<b>\$313.01</b>	<b>\$89.44</b>	<b>\$11.03</b>	<b>\$1.56</b>	<b>\$91.40</b>	<b>\$506.44</b>	
<b>NET OPERATING PROFIT</b>								<b>\$163.56</b>	
INTEREST ON OPERATING CAPITAL		(	\$48.94	@	5.50%	)			
INTEREST ON EQUIPMENT								\$22.00	
<b>RETURN TO LAND AND RISK</b>								<b>\$138.87</b>	
<b>BUDGET SUMMARY</b>									
GROSS RETURN		\$670.00							
VARIABLE OPERATING EXPENSES	\$325.60								
RETURN OVER VARIABLE EXPENSES	\$344.40	(GROSS MARGIN)							
FIXED EXPENSES	\$91.40								
NET FARM INCOME	\$253.00	(RETURN TO CAPITAL, LABOR, LAND & RISK)							
LABOR AND MANAGEMENT COST	\$89.44								
NET OPERATING PROFIT	\$163.56	(RETURN TO CAPITAL, LAND & RISK)							
CAPITAL COSTS	\$24.70								
RETURN TO LAND AND RISK		\$138.87							

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 2017  
 Planting dates: March 1 - May 1  
 Harvesting dates: June 15 - July 15

ITEM	PRICE	YIELD						TOTAL
<b>GROSS RETURNS</b>								
SMALL GRAIN HAY	\$160.00	2.50 NS (IN FIELD)						\$400.00
<b>TOTAL</b>							<b>\$400.00</b>	
<b>PURCHASED INPUTS</b>								
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
SEED	\$0.34	100 LBS	\$34.00					\$34.00
WIRE	\$1.32	25 LBS	\$33.00					\$33.00
CANAL WATER		24 AC. IN.	\$28.00					\$28.00
<b>SUBTOTAL</b>			<b>\$95.00</b>					<b>\$95.00</b>
<b>PREHARVEST OPERATIONS</b>								
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PLOW	65 HP	1.31 HR		\$9.83	\$13.38	\$2.10	\$20.17	\$45.47
DISC (2X)	65 HP	0.62 HR		\$4.65	\$6.33	\$1.34	\$15.66	\$27.98
BORDER DISC	65 HP	0.05 HR		\$0.38	\$0.51	\$0.08	\$5.71	\$6.68
DRILL (CUSTOM)			\$7.53					\$7.53
IRRIGATE (4X)		3.00 HR		\$22.50				\$22.50
<b>SUBTOTAL</b>		<b>4.98 HR</b>	<b>\$7.53</b>	<b>\$37.35</b>	<b>\$20.22</b>	<b>\$3.52</b>	<b>\$41.54</b>	<b>\$110.16</b>
<b>HARVEST OPERATIONS</b>								
SWATHER (CUSTOM)			\$23.33					\$23.33
BALER, PTO	65 HP	0.27 HR		\$2.03	\$2.76	\$0.39	\$8.17	\$13.34
<b>SUBTOTAL</b>		<b>0.27 HR</b>	<b>\$23.33</b>	<b>\$2.03</b>	<b>\$2.76</b>	<b>\$0.39</b>	<b>\$8.17</b>	<b>\$36.67</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							\$2.49	\$2.49
SUPERVISION AND MANAGEMENT				\$20.13				\$20.13
OTHER EXPENSES			\$98.84					\$98.84
<b>SUBTOTAL</b>		<b>0.56 HR</b>	<b>\$99.31</b>	<b>\$29.07</b>			<b>\$2.49</b>	<b>\$130.87</b>
<b>TOTAL OPERATING EXPENSES</b>		<b>5.81 HR</b>	<b>\$225.17</b>	<b>\$68.44</b>	<b>\$22.97</b>	<b>\$3.92</b>	<b>\$52.19</b>	<b>\$372.70</b>
<b>NET OPERATING PROFIT</b>							<b>\$27.30</b>	
INTEREST ON OPERATING CAPITAL		( \$55.64 @ 5.50% )						\$3.06
INTEREST ON EQUIPMENT								\$34.80
<b>RETURN TO LAND AND RISK</b>							<b>(\$10.56)</b>	
<b>BUDGET SUMMARY</b>								
GROSS RETURN		\$400.00						
VARIABLE OPERATING EXPENSES	\$252.06							
RETURN OVER VARIABLE EXPENSES	\$147.94	(GROSS MARGIN)						
FIXED EXPENSES	\$52.19							
NET FARM INCOME	\$95.75	(RETURN TO CAPITAL, LABOR, LAND & RISK)						
LABOR AND MANAGEMENT COST	\$68.44							
NET OPERATING PROFIT	\$27.30	(RETURN TO CAPITAL, LAND & RISK)						
CAPITAL COSTS	\$37.86							
RETURN TO LAND AND RISK		(\$10.56)						

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 2017  
 Planting dates: July 1 - July 31  
 Harvesting dates: August 10 - September 30

ITEM	PRICE	YIELD						TOTAL
<b>GROSS RETURNS</b>								
SORGHUM HAY	\$150.00	2.00	TONS (IN FIELD)					\$300.00
GRAZING	\$5.00	1.00	ACRE					\$5.00
<b>TOTAL</b>								<b>\$305.00</b>

  

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS					FIXED COST	TOTAL
SEED	\$1.70	35	LBS	\$59.50					\$59.50
WIRE	\$1.32	17	LBS	\$22.44					\$22.44
CANAL WATER		24	AC. IN.	\$28.00					\$28.00
<b>SUBTOTAL</b>				<b>\$109.94</b>					<b>\$109.94</b>

  

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
DISC	65 HP	0.31	HR		\$2.33	\$3.17	\$0.67	\$7.83	\$13.99
DRILL (CUSTOM)				\$7.53					\$7.53
IRRIGATE (4X)		3.00	HR	\$22.50					\$22.50
<b>SUBTOTAL</b>		<b>3.31</b>	<b>HR</b>	<b>\$7.53</b>	<b>\$24.83</b>	<b>\$3.17</b>	<b>\$0.67</b>	<b>\$7.83</b>	<b>\$44.02</b>

  

<b>HARVEST OPERATIONS</b>									
SWATHER (CUSTOM) (2X)				\$23.33					\$23.33
BALER, PTO (2X)	65 HP	0.27	HR		\$2.03	\$2.76	\$0.39	\$8.17	\$13.34
<b>SUBTOTAL</b>		<b>0.27</b>	<b>HR</b>	<b>\$23.33</b>	<b>\$2.03</b>	<b>\$2.76</b>	<b>\$0.39</b>	<b>\$8.17</b>	<b>\$36.67</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							\$2.49		\$2.49
SUPERVISION AND MANAGEMENT					\$15.49				\$15.49
OTHER EXPENSES				\$98.84					\$98.84
<b>SUBTOTAL</b>		<b>0.15</b>	<b>HR</b>	<b>\$99.16</b>	<b>\$19.80</b>		<b>\$2.49</b>		<b>\$121.45</b>

  

<b>TOTAL OPERATING EXPENSES</b>		<b>3.73</b>	<b>HR</b>	<b>\$239.96</b>	<b>\$46.65</b>	<b>\$5.92</b>	<b>\$1.06</b>	<b>\$18.49</b>	<b>\$312.08</b>
<b>NET OPERATING PROFIT</b>									<b>(\$7.08)</b>
INTEREST ON OPERATING CAPITAL		(	\$58.14	@	5.50%	)			\$3.20
INTEREST ON EQUIPMENT									\$10.60
<b>RETURN TO LAND AND RISK</b>									<b>(\$20.88)</b>

  

<b>BUDGET SUMMARY</b>		
GROSS RETURN		\$305.00
VARIABLE OPERATING EXPENSES	\$246.95	
RETURN OVER VARIABLE EXPENSES	\$58.05	(GROSS MARGIN)
FIXED EXPENSES	\$18.49	
NET FARM INCOME	\$39.57	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$46.65	
NET OPERATING PROFIT	(\$7.08)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$13.79	
<b>RETURN TO LAND AND RISK</b>		<b>(\$20.88)</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 2017  
 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	\$0.90	400.00 LBS	\$360.00
<b>TOTAL</b>			<b>\$2,422.50</b>

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
CHILE SEED	\$18.00	7 LBS	\$126.00		\$126.00
NITROGEN (N)	\$0.22	130 LBS	\$28.60		\$28.60
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>\$304.81</b>		<b>\$304.81</b>

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	65 HP	0.31 HR		\$2.33	\$3.17	\$0.67	\$7.83	\$13.99
PLOW	65 HP	1.31 HR		\$9.83	\$13.38	\$2.10	\$20.17	\$45.47
DISC	65 HP	0.31 HR		\$2.33	\$3.17	\$0.67	\$7.83	\$13.99
LASER PLANE (CUSTOM)			\$70.71					\$70.71
LISTER	65 HP	0.54 HR		\$4.05	\$5.51	\$0.87	\$24.86	\$35.29
PLANT/BED SHAPE		32.00 HR		\$240.00				\$240.00
CULTIVATOR (3X)	65 HP	1.62 HR		\$12.15	\$16.54	\$2.60	\$38.66	\$69.95
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>\$41.76</b>	<b>\$6.91</b>	<b>\$99.35</b>	<b>\$804.40</b>

HARVEST OPERATIONS								
HARVEST		100.00 HR		\$750.00				\$750.00
HAUL & SELL	HALF TON	20.00 HR		\$150.00	\$264.60	\$15.20	\$115.82	\$545.62
<b>SUBTOTAL</b>		<b>120.00 HR</b>		<b>\$900.00</b>	<b>\$264.60</b>	<b>\$15.20</b>	<b>\$115.82</b>	<b>\$1,295.62</b>

OVERHEAD EXPENSES								
DOWNTIME		6.02 HR		\$45.17				\$45.17
EMPLOYEE BENEFITS				\$178.28				\$178.28
INSURANCE			\$17.83					\$17.83
LAND TAXES						\$4.97		\$4.97
SUPERVISION AND MANAGEMENT				\$253.77				\$253.77
OTHER EXPENSES			\$197.68					\$197.68
<b>SUBTOTAL</b>		<b>6.02 HR</b>	<b>\$215.51</b>	<b>\$477.22</b>		<b>\$4.97</b>		<b>\$697.70</b>

TOTAL OPERATING EXPENSES 204.11 HR \$591.02 \$1,962.89 \$306.36 \$22.11 \$220.14 \$3,102.52

NET OPERATING PROFIT (\$680.02)

INTEREST ON OPERATING CAPITAL ( \$187.89 @ 5.50% ) \$10.33  
 INTEREST ON EQUIPMENT \$974.41

RETURN TO LAND AND RISK (\$1,664.76)

BUDGET SUMMARY

GROSS RETURN		\$2,422.50	
VARIABLE OPERATING EXPENSES	\$919.49		
RETURN OVER VARIABLE EXPENSES	\$1,503.01	(GROSS MARGIN)	
FIXED EXPENSES	\$220.14		
NET FARM INCOME	\$1,282.87	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$1,962.89		
NET OPERATING PROFIT	(\$680.02)	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$984.74		
RETURN TO LAND AND RISK	(\$1,664.76)		

TABLE 10. Jalapenos, flood-irrigated, budgeted per acre costs and returns for a 30 acre, part-time Valencia and Southern Bernalillo Counties,  
 Projected 2017  
 Planting dates: April 10 - May 1  
 Harvesting dates: August 1 - October 15

ITEM	PRICE	YIELD						TOTAL
<b>GROSS RETURNS</b>								
JALAPENOS	\$300.00	11.00 TONS						\$3,300.00
<b>TOTAL</b>								<b>\$3,300.00</b>
<b>PURCHASED INPUTS</b>								
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
JALAPENO SEED	\$60.00	3 LBS	\$180.00					\$180.00
NITROGEN (N)	\$0.22	150 LBS	\$33.00					\$33.00
PHOSPHATE (P205)	\$0.27	75 LBS	\$20.25					\$20.25
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
<b>SUBTOTAL</b>			<b>\$325.96</b>					<b>\$325.96</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	\$3.17	\$0.67	\$7.83	\$13.99
PLOW	65 HP	1.31 HR		\$9.83	\$13.38	\$2.10	\$20.17	\$45.47
DISC	65 HP	0.31 HR		\$2.33	\$3.17	\$0.67	\$7.83	\$13.99
LASER PLANE (CUSTOM)			\$70.71					\$70.71
LISTER	65 HP	0.54 HR		\$4.05	\$5.51	\$0.87	\$24.86	\$35.29
PLANT/BED SHAPE	65 HP	2.00 HR		\$15.00	\$20.42	\$2.73	\$57.11	\$95.26
CULTIVATOR (3X)	65 HP	1.62 HR		\$12.15	\$16.54	\$2.60	\$38.66	\$69.95
THIN & HOE		25.00 HR		\$187.50				\$187.50
IRRIGATE (16X)		12.00 HR		\$90.00				\$90.00
<b>SUBTOTAL</b>		<b>43.09 HR</b>	<b>\$70.71</b>	<b>\$323.18</b>	<b>\$62.18</b>	<b>\$9.64</b>	<b>\$156.46</b>	<b>\$622.16</b>
<b>HARVEST OPERATIONS</b>								
HARVEST (CUSTOM)				\$1,980.00				\$1,980.00
HAUL & SELL	HALF TON	3.00 HR		\$22.50	\$39.69	\$2.28	\$17.37	\$81.84
<b>SUBTOTAL</b>		<b>3.00 HR</b>		<b>\$2,002.50</b>	<b>\$39.69</b>	<b>\$2.28</b>	<b>\$17.37</b>	<b>\$2,061.84</b>
<b>OVERHEAD EXPENSES</b>								
DOWNTIME		1.77 HR		\$13.29				\$13.29
EMPLOYEE BENEFITS				\$279.08				\$279.08
INSURANCE			\$27.91					\$27.91
LAND TAXES							\$4.97	\$4.97
SUPERVISION AND MANAGEMENT				\$418.56				\$418.56
OTHER EXPENSES			\$197.68					\$197.68
<b>SUBTOTAL</b>		<b>1.77 HR</b>	<b>\$225.59</b>	<b>\$710.93</b>			<b>\$4.97</b>	<b>\$941.50</b>
<b>TOTAL OPERATING EXPENSES</b>		<b>47.86 HR</b>	<b>\$622.25</b>	<b>\$3,036.61</b>	<b>\$101.87</b>	<b>\$11.92</b>	<b>\$178.81</b>	<b>\$3,951.46</b>
<b>NET OPERATING PROFIT</b>								<b>(\$651.46)</b>
INTEREST ON OPERATING CAPITAL		(	\$184.43	@	5.50%	)		\$10.14
INTEREST ON EQUIPMENT								\$210.27
<b>RETURN TO LAND AND RISK</b>								<b>-871.87</b>
<b>BUDGET SUMMARY</b>								
GROSS RETURN		\$3,300.00						
VARIABLE OPERATING EXPENSES	\$736.04							
RETURN OVER VARIABLE EXPENSES	\$2,563.96	(GROSS MARGIN)						
FIXED EXPENSES	\$178.81							
NET FARM INCOME	\$2,385.15	(RETURN TO CAPITAL, LABOR, LAND & RISK)						
LABOR AND MANAGEMENT COST	\$3,036.61							
NET OPERATING PROFIT	(\$651.46)	(RETURN TO CAPITAL, LAND & RISK)						
CAPITAL COSTS	\$220.41							
RETURN TO LAND AND RISK		(\$871.87)						



TABLE 11. Summary of per acre costs and returns for a 30 acre part-time farm, Valencia and Southern Bernalillo Counties,  
Projected 2017

	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		\$165.00	\$160.00	\$150.00	\$7.50	\$300.00
GOVERNMENT PAYMENTS		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
SECOND INCOME		\$10.00	\$0.00	\$5.00	\$360.00	\$0.00
GROSS RETURN		\$670.00	\$400.00	\$305.00	\$2,422.50	\$3,300.00
CASH OPERATING EXPENSES						
SEED	\$61.00		\$34.00	\$59.50	\$126.00	\$180.00
FERTILIZER		\$24.30			\$28.60	\$53.25
CHEMICALS					\$54.71	\$54.71
CROP INSURANCE						
OTHER PURCHASED INPUTS		\$39.60	\$33.00	\$22.44	\$67.50	\$10.00
CANAL WATER		\$28.00	\$28.00	\$28.00	\$28.00	\$28.00
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$20.22	\$11.03	\$22.97	\$5.92	\$306.36	\$101.87
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		\$4.97	\$2.49	\$2.49	\$4.97	\$4.97
OTHER EXPENSES	\$0.31	\$197.78	\$99.31	\$99.16	\$215.51	\$225.59
TOTAL CASH EXPENSES	\$188.26	\$330.57	\$254.55	\$249.43	\$924.47	\$741.02
RETURN OVER CASH EXPENSES	(\$188.26)	\$339.43	\$145.45	\$55.57	\$1,498.03	\$2,558.98
FIXED EXPENSES	\$41.54	\$86.43	\$49.71	\$16.00	\$215.17	\$173.83
TOTAL EXPENSES	\$229.80	\$417.00	\$304.25	\$265.43	\$1,139.63	\$914.85
NET FARM INCOME	(\$229.80)	\$253.00	\$95.75	\$39.57	\$1,282.87	\$2,385.15
LABOR AND MANAGEMENT COSTS	\$45.66	\$89.44	\$68.44	\$46.65	\$1,962.89	\$3,036.61
NET OPERATING PROFIT	(\$275.46)	\$163.56	\$27.30	(\$7.08)	(\$680.02)	(\$651.46)
CAPITAL COSTS						
INTEREST ON OPERATING CAPITAL		\$2.69	\$3.06	\$3.20	\$10.33	\$10.14
INTEREST ON EQUIPMENT INVESTMENT		\$22.00	\$34.80	\$10.60	\$974.41	\$210.27
TOTAL CAPITAL COSTS	\$0.00	\$24.70	\$37.86	\$13.79	\$984.74	\$220.41
RETURN TO LAND AND RISK	(\$275.46)	\$138.87	(\$10.56)	(\$20.88)	(\$1,664.76)	(\$871.87)

TABLE 12. Whole farm summary, Valencia and Southern Bernalillo Counties,  
Projected 2017

GROSS RETURNS		
ALFALFA HAY	20.00 ACRES	
CROP		\$13,200
GRAZING		\$200
SMALL GRAIN HAY	5.00 ACRES	
CROP		\$2,000
SORGHUM HAY	5.00 ACRES	
CROP		\$1,500
GRAZING		\$25
GREEN CHILE	1.00 ACRES	
GREEN		\$2,063
RED		\$360
JALPENOS	1.00 ACRES	
CROP		\$3,300
GROSS RETURN		\$22,648
CASH OPERATING EXPENSES		
SEED		\$987
FERTILIZER		\$568
CHEMICALS		\$109
CROP INSURANCE		\$0
OTHER PURCHASED INPUTS		\$1,147
CANAL WATER		\$896
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$844
FUEL-IRRIGATION		\$0
REPAIRS		\$103
CUSTOM CHARGES		\$1,278
LAND TAXES		\$134
OTHER EXPENSES		\$5,390
TOTAL CASH EXPENSES		\$11,456
RETURN OVER CASH EXPENSES		\$11,192
FIXED EXPENSES		\$1,673
TOTAL EXPENSES		\$13,129
NET FARM INCOME		\$9,518
LABOR AND MANAGEMENT COSTS		\$7,524
NET OPERATING PROFIT		\$1,995
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$106
INTEREST ON EQUIPMENT INVESTMENT		\$1,852
TOTAL CAPITAL COSTS		\$1,957
RETURN TO LAND AND RISK		\$38

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$5,000 /ACRE	(\$4,462)	1.12%
\$6,500 /ACRE	(\$5,812)	0.90%
\$8,000 /ACRE	(\$7,162)	0.75%
\$9,500 /ACRE	(\$8,512)	0.64%
\$11,000 /ACRE	(\$9,862)	0.56%
\$12,500 /ACRE	(\$11,212)	0.50%

\* 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)