

MICROCOMPUTER CROP COST AND RETURN GENERATOR

BUDGET AREA..... DEMING AREA, LUNA COUNTY,      Projected 2011.  
FARM SIZE.....                      640 ACRES  
IRRIGATION TYPE..... FLOOD  
NUMBER OF CROPS..... 10

VERSION 1.0

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TABLE 1. Acreage Summary, Luna County,  
Projected 2011.

BUDGET AREA..... DEMING AREA, LUNA COUNTY			
FARM SIZE..... 640 ACRES ACRES			
IRRIGATION TYPE..... FLOOD			
NUMBER OF CROPS..... 10			
WATER USE			
ACREAGE SUMMARY:	LAND USE (ACRES)	AC.IN. PER AC.	TOTAL AC.IN.
WHEAT	68.00	20	1,360
ARP	0.00		
FLEX IN COTTON	12.00	26	312
GRAIN SORGHUM	93.50	30	2,805
ARP	0.00		
FLEX IN COTTON	16.50	26	429
COTTON	272.00	26	7,072
ARP	0.00		
FLEX IN COTTON	48.00	26	1,248
GREEN CHILE	40.00	54	2,160
RED CHILE	40.00	48	1,920
FALL ONIONS	10.00	56	560
MIDSEASON YELLOW	10.00	48	480
LATE SEASON ONIONS	10.00	48	480
SPRING LETTUCE	10.00	24	240
FALL LETTUCE	10.00 *	40	400
ROADS, DITCHES, HOMESTEAD	10.00		
TOTAL	640.00		19,466
ACRE FEET PER ACRE OF WATER RIGHTS			2.53

\*DOUBLE-CROPPED

TABLE 2. Basic cost information for the Deming area,  
Projected 2011.

Item			
Labor Wage Rate:	\$/hour		\$7.25
Purchased Inputs:			
Fertilizer:			
Nitrogen (N)	\$/pound		\$0.71
Phosphate (P2O5)	\$/pound		\$0.65
Anhydrous Ammonia (NH3)	\$/ton		\$625.00
Seed:			
Wheat	\$/pound		\$0.32
Chile			
green	\$/pound		\$22.00
red	\$/pound		\$22.00
Grain Sorghum	\$/pound		\$1.78
Cotton	\$/pound		\$2.15
Lettuce			
spring	\$/pound		\$135.00
fall	\$/pound		\$1.10
Energy:			
Natural gas (Gas Co. of NM)	\$/MCF		\$3.76
Diesel fuel	\$/gallon		\$2.95
Gasoline	\$/gallon		\$3.05
Electricity (Columbus)	cents/KwHr		6.67
LP Gas	\$/gallon		\$2.55
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		7.00%
Land Interest Rate	percent		6.00%
Equipment Interest Rate	percent		7.00%
Real Interest Rate	percent		3.00%
Land Taxes	\$223.00 /acre (full value)		\$1.86
Personal Property Tax Rate	- NR	\$/1,000 (Assessed Value)	\$25.01
	- R		\$21.32
Supervision Factors			
Field Crop-Irrigation	\$/labor hour		\$1.00
Field Crop-Equipment & 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		7.00%
Vegetable Crops	percent/TOE		10.00%

TABLE 3. Overhead cost information for Deming area,  
Projected 2011.

Item			
Electricity (Domestic & Shop)		\$242.00 per month	\$2,904
Telephone		\$157.30 per month	\$1,888
Accounting & Legal			\$16,916
Misc. Supplies & Hand Tools			\$2,656
Pickup and Auto			
miles	24,926	@ \$0.500 per mile	\$12,463
Insurance			
- general liability (non-employee)			\$1,857
- fire/theft			\$1,470
Property Taxes			
- non-planted land			\$0
- other than land & machinery			\$6,010
Building repairs and maintenance			\$1,410
Dues, fees, publications			\$411
Farmstead Equipment			\$188
Total			\$48,172
Total Per Planted Acre			\$75.27

TABLE 5. Equipment summary for a 640 acre, flood-irrigated farm with above average management, Deming area, Luna County, Projected 2011.

EQUIPMENT		ANNUAL HOURS OF USE	NUMBER	TOTAL VALUE	VARIABLE COSTS				FIXED COSTS		
ITEM & SIZE	FUEL, OIL, LUBRICANT				REPAIR	FUEL, OIL PER HR	REPAIR PER HR	DEPRECIATION	TAXES	TOTAL PER HR	
TRACTOR	80 HP	433	1	\$17,181	\$8,038	\$897	\$18.57	\$2.07	\$864	\$144	\$2.33
TRACTOR	140 HP	387	1	\$43,209	\$9,226	\$1,684	\$23.83	\$4.35	\$4,834	\$302	\$13.27
TRACTOR	185 HP	511	1	\$43,287	\$16,146	\$2,957	\$31.59	\$5.79	\$6,428	\$402	\$13.36
COTTON PICKER	2 ROW	432	2	\$18,860	\$7,971	\$16	\$18.45	\$0.04	\$11,920	\$745	\$29.31
PICKUP	3/4 TON	360	1	\$20,000	\$6,917	\$1,719	\$19.22	\$4.78	\$4,000	\$167	\$4.63
PICKUP	1/2 TON	349	1	\$17,000	\$6,696	\$237	\$19.22	\$0.68	\$3,400	\$142	\$4.07
GOOSENECK TRAILER		360	1	\$2,500		\$0		\$0.00	\$333	\$21	\$0.98
SHREDDER	4 ROW	85	1	\$2,500		\$34		\$0.40	\$333	\$21	\$4.16
ROLLING CULT	6 ROW	81	1	\$3,000		\$301		\$3.72	\$400	\$25	\$5.26
CULTIVATOR	6 ROW	245	1	\$2,500		\$760		\$3.10	\$333	\$21	\$1.44
VEG PLANTER	4 ROW	13	1	\$1,500		\$9		\$0.72	\$300	\$13	\$24.04
SIDEDRESSER		33	1	\$750		\$10		\$0.30	\$100	\$6	\$3.22
DISC	14 FT	236	1	\$3,000		\$392		\$1.66	\$400	\$25	\$1.80
ROTO BUCK		98	1	\$1,000		\$4		\$0.04	\$133	\$8	\$1.45
PLOW	4-14	275	1	\$4,000		\$618		\$2.25	\$533	\$33	\$2.06
ONION KNIVES		8	1	\$750		\$8		\$0.93	\$100	\$6	\$13.12
LISTER	6 ROW	82	1	\$2,150		\$218		\$2.67	\$287	\$18	\$3.73
DRILL	13 FT	12	1	\$2,150		\$13		\$1.03	\$430	\$18	\$36.60
PLANTER	6 ROW	89	1	\$4,250		\$181		\$2.04	\$850	\$35	\$9.98
SPRAYER	16 FT	73	1	\$1,400		\$49		\$0.67	\$187	\$12	\$2.70
DRAG	8-24 FT	96	1	\$250		\$1		\$0.01	\$33	\$2	\$0.37
COTTON TRAILER	8 BALE	349	16	\$19,200		\$17		\$0.05	\$1,920	\$160	\$5.97
FERT SPREADER	DLR FURNISHED	32									
ELECTRIC WELL		14,683	9	\$200,813	\$44,627	\$1,432	\$3.04	\$0.10	\$16,065	\$1,674	\$1.21
				\$411,248	\$99,623	\$11,555			\$54,184	\$4,000	

TABLE 6. Wheat, flood-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Deming area, Luna County, Projected 2011.  
 Planting dates: January 1 - February 10  
 Harvest dates: June 15 - July 15

ITEM	PRICE	YIELD						TOTAL
<b>GROSS RETURNS</b>								
WHEAT	\$10.83	50 CWT						\$541.67
DIRECT PAYMENT	\$0.00	50 CWT						\$0.00
COUNTER CYCLICAL PAYMENT	\$0.00							\$0.00
<b>TOTAL</b>								<b>\$541.67</b>
<b>SED INPUTS</b>								
SED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
SEED	\$0.32	100 LBS	\$32.00					\$32.00
ANHYDROUS AMMONIA (NH3)	\$0.31	250 LBS	\$78.13					\$78.13
NITROGEN (N)	\$0.71	30 LBS	\$21.30					\$21.30
PHOSPHATE (P2O5)	\$0.65	80 LBS	\$52.00					\$52.00
PUMP WATER*		20 ACRE IN.						
CROP INSURANCE	\$0.74		\$0.74					\$0.74
<b>SUBTOTAL</b>			<b>\$184.16</b>					<b>\$184.16</b>
<b>EST OPERATI</b>								
EST OPERATI	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC (2X)	185 HP	0.28 HR		\$2.03	\$8.85	\$2.08	\$4.25	\$17.21
LISTER	140 HP	0.12 HR		\$0.87	\$2.86	\$0.84	\$2.04	\$6.61
FERTILIZE	140 HP	0.05 HR		\$0.36	\$1.19	\$0.22	\$0.66	\$2.44
DRILL	140 HP	0.18 HR		\$1.31	\$4.29	\$0.97	\$8.98	\$15.54
IRRIGATE (4X)		2 HR		\$14.50	\$45.85	\$1.47	\$18.23	\$80.05
<b>SUBTOTAL</b>		<b>2.63 HR</b>		<b>\$19.07</b>	<b>\$63.04</b>	<b>\$5.58</b>	<b>\$34.15</b>	<b>\$121.84</b>
<b>HARVEST OPERATIONS</b>								
COMBINE (CUSTOM)			\$26.00					\$26.00
HAUL (CUSTOM)			\$9.50					\$9.50
<b>SUBTOTAL</b>		<b>0.00 HR</b>	<b>\$35.50</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$35.50</b>
<b>OVERHEAD EXPENSES</b>								
DOWNTIME		0.1575 HR		\$1.14				\$1.14
EMPLOYEE BENEFITS				\$3.43				\$3.43
INSURANCE			\$0.38					\$0.38
LAND TAXES								\$1.86
SUPERVISION AND MANAGEMENT				\$40.23				\$40.23
OTHER EXPENSES			\$75.27					\$75.27
<b>SUBTOTAL</b>		<b>0.16 HR</b>	<b>\$75.65</b>	<b>\$44.81</b>				<b>\$1.86</b>
<b>TOTAL OPERATING EXPENSES</b>		<b>2.79 HR</b>	<b>\$295.31</b>	<b>\$63.87</b>	<b>\$63.04</b>	<b>\$5.58</b>	<b>\$36.01</b>	<b>\$463.82</b>
<b>NET OPERATING PROFIT</b>								<b>\$77.85</b>
INTEREST ON OPERATING CAPITAL		( \$112.19 @ 7.00% )						\$7.85
INTEREST ON EQUIPMENT INVESTMENT								\$8.43
<b>RETURN TO LAND AND RISK</b>								<b>\$61.56</b>

\* Pump water costs are shown under irrigation in the preharvest operations section.

**BUDGET SUMMARY**

GROSS RETURN		\$541.67	
VARIABLE OPERATING EXPENSES	\$363.93		
RETURN OVER VARIABLE EXPENSES		\$177.73	(GROSS MARGIN)
FIXED EXPENSES	\$36.01		
NET FARM INCOME		\$141.72	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$63.87		
NET OPERATING PROFIT		\$77.85	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$16.29		
RETURN TO LAND AND RISK		\$61.56	

TABLE 7. Grain sorghum, flood-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Deming area, Luna County, Projected 2011.  
 Planting dates: May 10 - July 10  
 Harvest dates: October 15 - November 15

ITEM	PRICE	YIELD	TOTAL
<b>GROSS RETURNS</b>			
GRAIN SORGHUM	\$8.63	70.00 CWT	\$603.75
DIRECT PAYMENT	\$0.00	70.00 CWT	\$0.00
COUNTER CYCLICAL PAYMENT	\$0.00	0.00 CWT	\$0.00
<b>TOTAL</b>			<b>\$603.75</b>

SED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$1.78	8 LBS	\$14.24		\$14.24
ANHYDROUS AMMONIA (NH3)	\$0.31	200 LBS	\$62.50		\$62.50
NITROGEN (N)	\$0.71	30 LBS	\$21.30		\$21.30
PHOSPHATE (P2O5)	\$0.65	70 LBS	\$45.50		\$45.50
HERBICIDE	\$15.54	1 ACRE	\$15.54		\$15.54
INSECTICIDE (AERIAL)	\$18.95	1 ACRE	\$18.95		\$18.95
INSECTICIDE	\$11.16	1 DOLLAR	\$11.16		\$11.16
PUMP WATER*		30 AC. IN.			
CROP INSURANCE	\$0.53		\$0.53		\$0.53
<b>SUBTOTAL</b>			<b>\$189.73</b>		<b>\$189.73</b>

EST OPERATI	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	185 HP	0.14 HR		\$1.02	\$4.42	\$1.04	\$2.12	\$8.60
PLOW	185 HP	0.48 HR		\$3.48	\$15.17	\$3.86	\$7.41	\$29.91
DISC	185 HP	0.14 HR		\$1.02	\$4.42	\$1.04	\$2.12	\$8.60
DRAG	80 HP	0.2 HR		\$1.45	\$3.71	\$0.42	\$0.54	\$6.12
LISTER & SPRAY	140 HP	0.13 HR		\$0.94	\$3.10	\$1.00	\$2.56	\$7.60
FERTILIZE	140 HP	0.05 HR		\$0.36	\$1.19	\$0.22	\$0.66	\$2.44
PRE-IRRIGATE		0.75 HR		\$5.44	\$11.46	\$0.37	\$4.56	\$21.82
ROLLING CULT	80 HP	0.13 HR		\$0.94	\$2.41	\$0.75	\$0.99	\$5.10
PLANTER	140 HP	0.17 HR		\$1.23	\$4.05	\$1.09	\$3.95	\$10.32
CULTIVATOR (2X)	80 HP	0.26 HR		\$1.89	\$4.83	\$1.34	\$0.98	\$9.04
ROTO BUCK (6X)	140 HP	0.18 HR		\$1.31	\$4.29	\$0.79	\$2.65	\$9.04
IRRIGATE (5X)		2.5 HR		\$18.13	\$57.31	\$1.84	\$22.78	\$100.06
<b>SUBTOTAL</b>		<b>5.13 HR</b>		<b>\$37.19</b>	<b>\$116.38</b>	<b>\$13.76</b>	<b>\$51.32</b>	<b>\$218.65</b>

**HARVEST OPERATIONS**

COMBINE (CUSTOM)			\$15.00					\$15.00
HAUL (CUSTOM)			\$13.30					\$13.30
<b>SUBTOTAL</b>		<b>0.00 HR</b>	<b>\$28.30</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$28.30</b>

**POST HARVEST OPERATIONS**

SHREDDER	126 HP	0.14 HR		\$1.02	\$3.34	\$0.67	\$2.44	\$7.46
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**OVERHEAD EXPENSES**

DOWNTIME		0.505 HR		\$3.66				\$3.66
EMPLOYEE BENEFITS				\$6.88				\$6.88
INSURANCE			\$0.76					\$0.76
LAND TAXES						\$1.86		\$1.86
SUPERVISION AND MANAGEMENT				\$46.52				\$46.52
OTHER EXPENSES			\$75.27					\$75.27
<b>SUBTOTAL</b>		<b>0.51 HR</b>	<b>\$76.03</b>	<b>\$57.06</b>			<b>\$1.86</b>	<b>\$134.95</b>

<b>TOTAL OPERATING EXPENSES</b>		<b>5.78 HR</b>	<b>\$294.06</b>	<b>\$95.27</b>	<b>\$119.72</b>	<b>\$14.42</b>	<b>\$55.62</b>	<b>\$579.09</b>
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<b>NET OPERATING PROFIT</b>								<b>\$24.66</b>
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INTEREST ON OPERATING CAPITAL		( \$130.76 @ 7.00% )						\$9.15
INTEREST ON EQUIPMENT INVESTMENT								\$16.17

<b>RETURN TO LAND AND RISK</b>								<b>(\$0.66)</b>
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\* Pump water costs are shown under irrigation in the preharvest operations section.  
**BUDGET SUMMARY**

GROSS RETURN		\$603.75	
VARIABLE OPERATING EXPENSES	\$428.20		
RETURN OVER VARIABLE EXPENSES		\$175.55	(GROSS MARGIN)
FIXED EXPENSES	\$55.62		
NET FARM INCOME		\$119.93	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$95.27		
NET OPERATING PROFIT		\$24.66	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$25.32		
RETURN TO LAND AND RISK		(\$0.66)	

TABLE 8. Upland cotton (picker), flood-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Deming area, Luna County, Projected 2011.

Planting dates: April 1 - May 15

Harvest dates: October 1 - December 20

ITEM	PRICE	YIELD	TOTAL
<b>GROSS RETURNS</b>			
LINT	\$0.85	750 LBS	\$637.50
SEED	\$0.07	1200 LBS	\$84.00
DIRECT PAYMENT	\$0.00	1080 LBS	\$0.00
COUNTER CYCLICAL PAYMENT	\$0.09	0 LBS	\$0.00
<b>TOTAL</b>			<b>\$721.50</b>

ED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$2.15	18 LBS	\$38.70		\$38.70
ANHYDROUS AMMONIA (NH3)	\$0.31	150 LBS	\$46.88		\$46.88
NITROGEN (N)	\$0.71	30 LBS	\$21.30		\$21.30
PHOSPHATE (P2O5)	\$0.65	80 LBS	\$52.00		\$52.00
HERBICIDE	\$15.54	1 ACRE	\$15.54		\$15.54
INSECTICIDE	\$11.16	1 ACRE	\$11.16		\$11.16
CROP INSURANCE	\$0.18	FCIC	\$0.18		\$0.18
PUMP WATER*		26 AC. IN.			
<b>SUBTOTAL</b>			<b>\$185.76</b>		<b>\$185.76</b>

EST OPERATI	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC (2X)	185 HP	0.28 HR		\$2.03	\$8.85	\$2.08	\$4.25	\$17.21
PLOW	185 HP	0.48 HR		\$3.48	\$15.17	\$3.86	\$7.41	\$29.91
DISC	185 HP	0.14 HR		\$1.02	\$4.42	\$1.04	\$2.12	\$8.60
DRAG (2X)	80 HP	0.2 HR		\$1.45	\$3.71	\$0.42	\$0.54	\$6.12
LISTER & SPRAY	140 HP	0.13 HR		\$0.94	\$3.10	\$1.00	\$2.56	\$7.60
FERTILIZE	140 HP	0.05 HR		\$0.36	\$1.19	\$0.22	\$0.66	\$2.44
PRE-IRRIGATE		0.75 HR		\$5.44	\$11.92	\$0.38	\$4.74	\$22.48
ROLLING CULT	80 HP	0.13 HR		\$0.94	\$2.41	\$0.75	\$0.99	\$5.10
PLANTER	140 HP	0.17 HR		\$1.23	\$4.05	\$1.09	\$3.95	\$10.32
CULTIVATOR (3X)	80 HP	0.39 HR		\$2.83	\$7.24	\$2.02	\$1.47	\$13.56
HAND HOE (CUSTOM) (2X)			\$50.00					\$50.00
ROTO BUCK (5X)	140 HP	0.15 HR		\$1.09	\$3.58	\$0.66	\$2.21	\$7.53
IRRIGATE (4X)		2 HR		\$14.50	\$47.69	\$1.53	\$18.95	\$82.67
<b>SUBTOTAL</b>		<b>4.87 HR</b>	<b>\$50.00</b>	<b>\$35.31</b>	<b>\$113.33</b>	<b>\$15.04</b>	<b>\$49.85</b>	<b>\$263.53</b>

<b>HARVEST OPERATIONS</b>								
COTTON PICKER (2X)	2 ROW	1.24 HR		\$8.99	\$22.87	\$0.05	\$36.34	\$68.25
COTTON TRAILER (2X)	HALF TON	1 HR		\$7.25	\$19.22	\$0.73	\$10.03	\$37.23
GIN COTTON (CUSTOM)			\$139.20					\$139.20
<b>SUBTOTAL</b>		<b>2.24 HR</b>	<b>\$139.20</b>	<b>\$16.24</b>	<b>\$42.09</b>	<b>\$0.77</b>	<b>\$46.38</b>	<b>\$244.68</b>

<b>POST HARVEST OPERATIONS</b>								
SHREDDER	126 HP	0.14 HR		\$1.02	\$3.34	\$0.67	\$2.44	\$7.46

<b>OVERHEAD EXPENSES</b>								
DOWNTIME		1.0325 HR		\$7.49				\$7.49
EMPLOYEE BENEFITS				\$9.46				\$9.46
INSURANCE			\$1.05					\$1.05
LAND TAXES						\$1.86		\$1.86
SUPERVISION AND MANAGEMENT				\$55.51				\$55.51
OTHER EXPENSES			\$75.27					\$75.27
<b>SUBTOTAL</b>		<b>1.03 HR</b>	<b>\$76.32</b>	<b>\$72.45</b>			<b>\$1.86</b>	<b>\$150.63</b>

TOTAL OPERATING EXPENSES 8.28 HR \$451.28 \$125.01 \$158.76 \$16.48 \$100.52 \$852.05

NET OPERATING PROFIT (\$130.55)

INTEREST ON OPERATING CAPITAL ( \$141.14 @ 7.00% ) \$9.88  
 INTEREST ON EQUIPMENT INVESTMENT \$29.77

RETURN TO LAND AND RISK (\$170.20)

\* Pump water costs are shown under irrigation in the preharvest operations section.  
 BUDGET SUMMARY

GROSS RETURN		\$721.50	
VARIABLE OPERATING EXPENSES	\$626.52		
RETURN OVER VARIABLE EXPENSES	\$94.98	(GROSS MARGIN)	
FIXED EXPENSES	\$100.52		
NET FARM INCOME	(\$5.54)	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$125.01		
NET OPERATING PROFIT	(\$130.55)	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$39.65		
RETURN TO LAND AND RISK	(\$170.20)		

TABLE 9. Green chile, flood-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Deming area, Luna County, Projected 2011.  
Planting dates: March 15 - May 1  
Harvesting dates: August 15 - September 15

ITEM	PRICE	YIELD	TOTAL
<b>GROSS RETURNS</b>			
GREEN CHILE	\$475.00	11.00 TONS	\$5,225.00
RED CHILE	\$0.00	0.00 LBS	\$0.00
<b>TOTAL</b>			<b>\$5,225.00</b>

ED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$22.00	4 LBS	\$88.00		\$88.00
ANHYDROUS AMMONIA (NH3)	\$0.31	300 LBS	\$93.75		\$93.75
NITROGEN (N)	\$0.71	60 LBS	\$42.60		\$42.60
PHOSPHATE (P2O5)	\$0.65	150 LBS	\$97.50		\$97.50
HERBICIDE	\$15.54	1 ACRE	\$15.54		\$15.54
INSECTICIDE	\$15.54	1 ACRE	\$15.54		\$15.54
CROP INSURANCE	\$72.58	1 DOLLAR	\$72.58		\$72.58
PUMP WATER*		54 AC. IN.			
<b>SUBTOTAL</b>			<b>\$425.50</b>		<b>\$425.50</b>

EST OPERATI	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	185 HP	0.14 HR		\$1.02	\$4.42	\$1.04	\$2.12	\$8.60
PLOW	185 HP	0.48 HR		\$3.48	\$15.17	\$3.86	\$7.41	\$29.91
DISC	185 HP	0.14 HR		\$1.02	\$4.42	\$1.04	\$2.12	\$8.60
LASER (CUSTOM)			\$73.33					\$73.33
LISTER & SPRAY	140 HP	0.13 HR		\$0.94	\$3.10	\$1.00	\$2.56	\$7.60
FERTILIZE	140 HP	0.05 HR		\$0.36	\$1.19	\$0.22	\$0.66	\$2.44
PRE-IRRIGATE		0.75 HR		\$5.44	\$8.25	\$0.26	\$3.28	\$17.24
ROLLING CULT	80 HP	0.13 HR		\$0.94	\$2.41	\$0.75	\$0.99	\$5.10
PLANTER	140 HP	0.17 HR		\$1.23	\$4.05	\$1.09	\$3.95	\$10.32
CULTIVATOR (5X)	80 HP	0.65 HR		\$4.71	\$12.07	\$3.36	\$2.45	\$22.60
THIN & HOE (CUSTOM)			\$90.00					\$90.00
ROTO BUCK (7X)	140 HP	0.21 HR		\$1.52	\$5.01	\$0.92	\$3.09	\$10.54
IRRIGATE (14X)		7 HR		\$50.75	\$115.54	\$3.71	\$45.93	\$215.93
<b>SUBTOTAL</b>		<b>9.85 HR</b>	<b>\$163.33</b>	<b>\$71.41</b>	<b>\$175.64</b>	<b>\$17.25</b>	<b>\$74.57</b>	<b>\$502.21</b>

**HARVEST OPERATIONS**

HARVEST GREEN (CUSTOM)			\$1,089.00					\$1,089.00
HARVEST RED (CUSTOM)			\$0.00					\$0.00
HAUL	3/4 TON	6 HR		\$43.50	\$115.29	\$28.65	\$33.68	\$221.12
<b>SUBTOTAL</b>		<b>6.00 HR</b>	<b>\$1,089.00</b>	<b>\$43.50</b>	<b>\$115.29</b>	<b>\$28.65</b>	<b>\$33.68</b>	<b>\$1,310.12</b>

**POST HARVEST OPERATIONS**

SHREDDER	80 HP	0.29 HR		\$2.10	\$5.39	\$1.68	\$2.20	\$11.37
<b>SUBTOTAL</b>		<b>0.29 HR</b>	<b>\$0.00</b>	<b>\$2.10</b>	<b>\$5.39</b>	<b>\$1.68</b>	<b>\$2.20</b>	<b>\$11.37</b>

**OVERHEAD EXPENSES**

DOWNTIME		0.565 HR		\$4.10				\$4.10
EMPLOYEE BENEFITS				\$13.23				\$13.23
INSURANCE			\$1.47					\$1.47
LAND TAXES						\$1.86		\$1.86
SUPERVISION AND MANAGEMENT				\$134.56				\$134.56
OTHER EXPENSES			\$75.27					\$75.27
<b>SUBTOTAL</b>		<b>0.57 HR</b>	<b>\$76.74</b>	<b>\$151.89</b>		<b>\$1.86</b>		<b>\$230.49</b>

TOTAL OPERATING EXPENSES 16.71 HR \$1,754.57 \$268.90 \$296.32 \$47.58 \$112.31 \$2,479.69

NET OPERATING PROFIT \$2,745.31

INTEREST ON OPERATING CAPITAL ( \$364.31 @ 7.00% ) \$25.50  
INTEREST ON EQUIPMENT INVESTMENT \$44.72

RETURN TO LAND AND RISK \$2,675.09

\* Pump water costs are shown under irrigation in the preharvest operations section.

**BUDGET SUMMARY**

GROSS RETURN		\$5,225.00	
VARIABLE OPERATING EXPENSES	\$2,098.48		
RETURN OVER VARIABLE EXPENSES	\$3,126.52	(GROSS MARGIN)	
FIXED EXPENSES	\$112.31		
NET FARM INCOME	\$3,014.21	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$268.90		
NET OPERATING PROFIT	\$2,745.31	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$70.22		
RETURN TO LAND AND RISK		\$2,675.09	

TABLE 10. Red chile, flood-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Deming area, Luna County, Projected 2011.  
Planting dates: March 15 - May 1  
Harvesting dates: September 15 - January 31

ITEM	PRICE	YIELD						TOTAL	
<b>GROSS RETURNS</b>									
RED CHILE	\$1.00	4,000.00 LBS						\$4,000.00	
<b>TOTAL</b>							<b>\$4,000.00</b>		
<b>PURCHASED INPUTS</b>									
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL	
SEED	\$22.00	4 LBS	\$88.00					\$88.00	
ANHYDROUS AMMONIA (NH3)	\$0.31	230 LBS	\$71.88					\$71.88	
NITROGEN (N)	\$0.71	60 LBS	\$42.60					\$42.60	
PHOSPHATE (P2O5)	\$0.65	150 LBS	\$97.50					\$97.50	
HERBICIDE	\$15.54	1 ACRE	\$15.54					\$15.54	
INSECTICIDE	\$15.54	1 ACRE	\$15.54					\$15.54	
CROP INSURANCE	\$76.22	1 DOLLAR	\$76.22					\$76.22	
PUMP WATER*		48 AC. IN.							
<b>SUBTOTAL</b>			<b>\$407.28</b>					<b>\$407.28</b>	
<b>ST OPERATIONS</b>									
ST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
DISC	185 HP	0.14 HR		\$1.02	\$4.42	\$1.04	\$2.12	\$8.60	
PLOW	185 HP	0.48 HR		\$3.48	\$15.17	\$3.86	\$7.41	\$29.91	
DISC	185 HP	0.14 HR		\$1.02	\$4.42	\$1.04	\$2.12	\$8.60	
DRAG (2X)	80 HP	0.2 HR		\$1.45	\$3.71	\$0.42	\$0.07	\$5.65	
LISTER	140 HP	0.12 HR		\$0.87	\$2.86	\$0.84	\$2.04	\$6.61	
FERTILIZE	140 HP	0.05 HR		\$0.36	\$1.19	\$0.22	\$0.66	\$2.44	
PRE-IRRIGATE		0.75 HR		\$5.44	\$9.17	\$0.29	\$3.65	\$18.55	
ROLLING CULT	80 HP	0.13 HR		\$0.94	\$2.41	\$0.75	\$0.99	\$5.10	
PLANTER	140 HP	0.17 HR		\$1.23	\$4.05	\$1.09	\$3.95	\$10.32	
CULTIVATOR (5X)	80 HP	0.65 HR		\$4.71	\$12.07	\$3.36	\$2.45	\$22.60	
THIN & HOE (CUSTOM)			\$90.00					\$90.00	
ROTO BUCK (7X)	140 HP	0.21 HR		\$1.52	\$5.01	\$0.92	\$3.09	\$10.54	
IRRIGATE (11X)		5.5 HR		\$39.88	\$100.87	\$3.24	\$40.10	\$184.08	
<b>SUBTOTAL</b>			<b>8.54 HR</b>	<b>\$90.00</b>	<b>\$61.92</b>	<b>\$165.37</b>	<b>\$17.07</b>	<b>\$68.65</b>	<b>\$403.00</b>
<b>HARVEST OPERATIONS</b>									
HARVEST (CUSTOM)			\$880.00					\$880.00	
HAUL	3/4 TON	3 HR		\$21.75	\$57.65	\$14.33	\$16.84	\$110.56	
<b>SUBTOTAL</b>			<b>3.00 HR</b>	<b>\$880.00</b>	<b>\$21.75</b>	<b>\$57.65</b>	<b>\$14.33</b>	<b>\$16.84</b>	<b>\$990.56</b>
<b>POST HARVEST OPERATIONS</b>									
SHREDDER	80 HP	0.29 HR		\$2.10	\$5.39	\$2.24	\$3.55	\$13.27	
<b>SUBTOTAL</b>			<b>0.29 HR</b>	<b>\$0.00</b>	<b>\$2.10</b>	<b>\$5.39</b>	<b>\$2.24</b>	<b>\$3.55</b>	<b>\$13.27</b>
<b>OVERHEAD EXPENSES</b>									
DOWNTIME		1.395 HR		\$10.11				\$10.11	
EMPLOYEE BENEFITS				\$15.06				\$15.06	
INSURANCE			\$1.67					\$1.67	
LAND TAXES						\$1.86		\$1.86	
SUPERVISION AND MANAGEMENT				\$112.70				\$112.70	
OTHER EXPENSES			\$75.27					\$75.27	
<b>SUBTOTAL</b>			<b>1.40 HR</b>	<b>\$76.94</b>	<b>\$137.88</b>		<b>\$1.86</b>	<b>\$216.68</b>	
<b>TOTAL OPERATING EXPENSES</b>			<b>13.23 HR</b>	<b>\$1,454.22</b>	<b>\$223.65</b>	<b>\$228.40</b>	<b>\$33.63</b>	<b>\$90.90</b>	<b>\$2,030.80</b>
<b>NET OPERATING PROFIT</b>								<b>\$1,969.20</b>	
INTEREST ON OPERATING CAPITAL		( \$329.21 @ 7.00% )						\$23.04	
INTEREST ON EQUIPMENT INVESTMENT								\$31.45	
<b>RETURN TO LAND AND RISK</b>								<b>\$1,914.71</b>	

\* Pump water costs are shown under irrigation in the preharvest operations section.  
BUDGET SUMMARY

GROSS RETURN		\$4,000.00	
VARIABLE OPERATING EXPENSES	\$1,716.25		
RETURN OVER VARIABLE EXPENSES	\$2,283.75	(GROSS MARGIN)	
FIXED EXPENSES	\$90.90		
NET FARM INCOME	\$2,192.85	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$223.65		
NET OPERATING PROFIT	\$1,969.20	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$54.50		
RETURN TO LAND AND RISK	\$1,914.71		



TABLE 11. Spring lettuce, flood-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Deming area, Luna County, Projected 2011.  
Planting dates: January 1 - February 5  
Harvesting dates: May 15 - June 15

ITEM	PRICE	YIELD						TOTAL
<b>GROSS RETURNS</b>								
SPRING LETTUCE	\$5.91	475.00	CARTONS					\$2,807.25
<b>TOTAL</b>								<b>\$2,807.25</b>
<b>ED INPUTS</b>								
ED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
SEED	\$135.00	4 LBS	\$540.00					\$540.00
ANHYDROUS AMMONIA (NH3)	\$0.31	250 LBS	\$78.13					\$78.13
NITROGEN (N)	\$0.71	50 LBS	\$35.50					\$35.50
PHOSPHATE (P2O5)	\$0.65	150 LBS	\$97.50					\$97.50
INSECTICIDE	\$92.45	1 X/ACRE	\$92.45					\$92.45
PUMP WATER*		24 AC. IN.						
<b>SUBTOTAL</b>								<b>\$843.58</b>
<b>EST OPERATIO</b>								
EST OPERATIO	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	185 HP	0.14 HR		\$1.02	\$4.42	\$1.04	\$2.12	\$8.60
PLOW	185 HP	0.48 HR		\$3.48	\$15.17	\$3.86	\$7.41	\$29.91
DISC	185 HP	0.14 HR		\$1.02	\$4.42	\$1.04	\$2.12	\$8.60
LASER PLANE (CUSTOM)			\$73.33	\$0.00	\$0.00	\$0.00	\$0.00	\$73.33
FERTILIZE	140 HP	0.05 HR		\$0.36	\$1.19	\$0.22	\$0.66	\$2.44
DISC & SPRAY	185 HP	0.17 HR		\$1.23	\$5.37	\$1.38	\$3.04	\$11.02
LISTER	140 HP	0.12 HR		\$0.87	\$2.86	\$0.84	\$2.04	\$6.61
PRE-IRRIGATE		0.75 HR		\$5.44	\$9.17	\$0.29	\$3.65	\$18.55
ROLLING CULT	80 HP	0.13 HR		\$0.94	\$2.41	\$0.75	\$0.99	\$5.10
VEG-PLANT SHAPER	140 HP	0.26 HR		\$1.89	\$6.20	\$1.32	\$9.70	\$19.10
CULT & SIDEDRESS (2X)	80 HP	0.66 HR		\$4.79	\$12.26	\$3.61	\$4.62	\$25.27
ROLLING CULT	80 HP	0.13 HR		\$0.94	\$2.41	\$0.75	\$0.99	\$5.10
THIN & HOE (CUSTOM)			\$120.00					\$120.00
SPRAY	80 HP	0.11 HR		\$0.80	\$2.04	\$0.30	\$0.55	\$3.70
DUSTER (CUSTOM)			\$5.00					\$5.00
ROTO BUCK (5X)	140 HP	0.15 HR		\$1.09	\$3.58	\$0.66	\$2.21	\$7.53
IRRIGATE (5X)		2.5 HR		\$18.13	\$45.85	\$1.47	\$18.23	\$83.67
<b>SUBTOTAL</b>								<b>\$433.52</b>
<b>HARVEST OPERATIONS</b>								
HARVEST (CUSTOM)			\$878.75					\$878.75
CARTONS (CUSTOM)			\$403.75					\$403.75
HAUL (CUSTOM)			\$142.50					\$142.50
BROKERAGE (CUSTOM)			\$259.67					\$259.67
<b>SUBTOTAL</b>								<b>\$1,684.67</b>
<b>OVERHEAD EXPENSES</b>								
DOWNTIME		0.5025 HR		\$3.64				\$3.64
EMPLOYEE BENEFITS				\$7.56				\$7.56
INSURANCE			\$0.84					\$0.84
LAND TAXES							\$1.86	\$1.86
SUPERVISION AND MANAGEMENT				\$148.06				\$148.06
OTHER EXPENSES			\$75.27					\$75.27
<b>SUBTOTAL</b>								<b>\$237.23</b>
<b>TOTAL OPERATING EXPENSES</b>								<b>\$3,199.00</b>
<b>NET OPERATING PROFIT</b>								<b>(\$391.75)</b>
INTEREST ON OPERATING CAPITAL		( \$595.90 @ 7.00% )						\$41.71
INTEREST ON EQUIPMENT INVESTMENT								\$20.64
<b>RETURN TO LAND AND RISK</b>								<b>(\$454.10)</b>

\* Pump water costs are shown under irrigation in the preharvest operations section.

**BUDGET SUMMARY**

GROSS RETURN		\$2,807.25	
VARIABLE OPERATING EXPENSES	\$2,937.59		
RETURN OVER VARIABLE EXPENSES		(\$130.34)	(GROSS MARGIN)
FIXED EXPENSES	\$60.17		
NET FARM INCOME		(\$190.51)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$201.24		
NET OPERATING PROFIT		(\$391.75)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$62.35		
RETURN TO LAND AND RISK		(\$454.10)	

TABLE 12. Fall lettuce, flood-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Deming area, Luna County, Projected 2011.  
Planting dates: July 20 - August 10  
Harvesting dates: October 1 - October 15

ITEM	PRICE	YIELD	TOTAL
GROSS RETURNS			
FALL LETTUCE	\$5.78	500.00 CARTONS	\$2,890.00
TOTAL			\$2,890.00

ED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$1.10	4 LBS	\$4.40		\$4.40
ANHYDROUS AMMONIA (NH3)	\$0.31	250 LBS	\$78.13		\$78.13
NITROGEN (N)	\$0.71	50 LBS	\$35.50		\$35.50
PHOSPHATE (P2O5)	\$0.65	150 LBS	\$97.50		\$97.50
HERBICIDE	\$18.56	1 X/ACRE	\$18.56		\$18.56
INSECTICIDE	\$92.58	1 X/ACRE	\$92.58		\$92.58
PUMP WATER*		40 AC. IN.			
SUBTOTAL			\$326.67		\$326.67

EST OPERATIO	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	185 HP	0.14 HR		\$1.02	\$4.42	\$1.04	\$2.12	\$8.60
PLOW	185 HP	0.48 HR		\$3.48	\$15.17	\$3.86	\$7.41	\$29.91
DISC	185 HP	0.14 HR		\$1.02	\$4.42	\$1.04	\$2.12	\$8.60
LASER PLANE (CUSTOM)			\$73.33	\$0.00	\$0.00	\$0.00	\$0.00	\$73.33
FERTILIZE	140 HP	0.05 HR		\$0.36	\$1.19	\$0.22	\$0.66	\$2.44
DISC & SPRAY	185 HP	0.17 HR		\$1.23	\$5.37	\$1.38	\$3.04	\$11.02
LISTER	140 HP	0.12 HR		\$0.87	\$2.86	\$0.84	\$2.04	\$6.61
PRE-IRRIGATE		0.75 HR		\$5.44	\$11.46	\$0.37	\$4.56	\$21.82
ROLLING CULT	80 HP	0.13 HR		\$0.94	\$2.41	\$0.75	\$0.99	\$5.10
VEG-PLANT SHAPER	140 HP	0.26 HR		\$1.89	\$6.20	\$1.32	\$9.70	\$19.10
CULT & SIDEDRESS (2X)	80 HP	0.66 HR		\$4.79	\$12.26	\$3.61	\$4.62	\$25.27
ROLLING CULT	80 HP	0.13 HR		\$0.94	\$2.41	\$0.75	\$0.99	\$5.10
THIN & HOE (CUSTOM)			\$180.00					\$180.00
SPRAY	80 HP	0.11 HR		\$0.80	\$2.04	\$0.30	\$0.55	\$3.70
DUSTER (CUSTOM)			\$15.00					\$15.00
ROTO BUCK (7X)	140 HP	0.21 HR		\$1.52	\$5.01	\$0.92	\$3.09	\$10.54
IRRIGATE (7X)		3.5 HR		\$25.38	\$80.24	\$2.57	\$31.90	\$140.08
SUBTOTAL		6.85 HR	\$268.33	\$49.66	\$155.47	\$18.98	\$73.78	\$566.22

**HARVEST OPERATIONS**

HARVEST (CUSTOM)			\$925.00					\$925.00
CARTONS (CUSTOM)			\$425.00					\$425.00
HAUL (CUSTOM)			\$150.00					\$150.00
BROKERAGE (CUSTOM)			\$267.33					\$267.33
SUBTOTAL		0.00 HR	\$1,767.33	\$0.00	\$0.00	\$0.00	\$0.00	\$1,767.33

**OVERHEAD EXPENSES**

DOWNTIME		0.5175 HR		\$3.75				\$3.75
EMPLOYEE BENEFITS				\$8.94				\$8.94
INSURANCE			\$0.99					\$0.99
LAND TAXES							\$1.86	\$1.86
SUPERVISION AND MANAGEMENT				\$113.30				\$113.30
OTHER EXPENSES			\$75.27					\$75.27
SUBTOTAL		0.52 HR	\$76.26	\$125.99			\$1.86	\$204.11

TOTAL OPERATING EXPENSES 7.37 HR \$2,438.59 \$175.65 \$155.47 \$18.98 \$75.63 \$2,864.32

NET OPERATING PROFIT \$25.68

INTEREST ON OPERATING CAPITAL ( \$354.22 @ 7.00% ) \$24.80  
INTEREST ON EQUIPMENT INVESTMENT \$22.36

RETURN TO LAND AND RISK (\$21.47)

\* Pump water costs are shown under irrigation in the preharvest operations section.

**BUDGET SUMMARY**

GROSS RETURN		\$2,890.00	
VARIABLE OPERATING EXPENSES	\$2,613.04		
RETURN OVER VARIABLE EXPENSES	\$276.96	(GROSS MARGIN)	
FIXED EXPENSES	\$75.63		
NET FARM INCOME	\$201.33	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$175.65		
NET OPERATING PROFIT	\$25.68	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$47.15		
RETURN TO LAND AND RISK		(\$21.47)	

TABLE 13. Fall onions, flood-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Deming area, Luna County, Projected 2011.  
Planting dates: October 1 - October 31  
Harvesting dates: June 1 - July 15

ITEM	PRICE	YIELD						TOTAL	
<b>GROSS RETURNS</b>									
FALL ONIONS	\$7.64	820.00 SACKS						\$6,264.80	
<b>TOTAL</b>								<b>\$6,264.80</b>	
<b>PURCHASED INPUTS</b>									
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS					FIXED COST	TOTAL
SEED	\$70.00	4 LBS	\$280.00						\$280.00
ANHYDROUS AMMONIA (NH3)	\$0.31	450 LBS	\$140.63						\$140.63
NITROGEN (N)	\$0.71	75 LBS	\$53.25						\$53.25
PHOSPHATE (P2O5)	\$0.65	180 LBS	\$117.00						\$117.00
HERBICIDE	\$22.26	1 X/ACRE	\$22.26						\$22.26
INSECTICIDE	\$84.85	1 X/ACRE	\$84.85						\$84.85
PUMP WATER*		56 AC. IN.							
<b>SUBTOTAL</b>								<b>\$697.99</b>	
<b>ST OPERATIONS</b>									
ST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
DISC	185 HP	0.14 HR		\$1.02	\$4.42	\$1.04	\$2.12	\$8.60	
PLOW	185 HP	0.48 HR		\$3.48	\$15.17	\$3.86	\$7.41	\$29.91	
DISC	185 HP	0.14 HR		\$1.02	\$4.42	\$1.04	\$2.12	\$8.60	
LASER PLANE (CUSTOM)			\$73.33	\$0.00	\$0.00	\$0.00	\$0.00	\$73.33	
FERTILIZE	140 HP	0.05 HR		\$0.36	\$1.19	\$0.22	\$0.66	\$2.44	
DISC & SPRAY	185 HP	0.17 HR		\$1.23	\$5.37	\$1.38	\$3.04	\$11.02	
LISTER	140 HP	0.12 HR		\$0.87	\$2.86	\$0.84	\$2.04	\$6.61	
PRE-IRRIGATE		0.75 HR		\$5.44	\$9.17	\$0.29	\$3.65	\$18.55	
ROLLING CULT	80 HP	0.13 HR		\$0.94	\$2.41	\$0.75	\$0.99	\$5.10	
VEG-PLANT SHAPER	140 HP	0.26 HR		\$1.89	\$6.20	\$1.32	\$9.70	\$19.10	
CULT & SIDEDRESS (2X)	80 HP	0.66 HR		\$4.79	\$12.26	\$3.61	\$4.62	\$25.27	
ROLLING CULT	80 HP	0.13 HR		\$0.94	\$2.41	\$0.75	\$0.99	\$5.10	
THIN & HOE (CUSTOM)			\$120.00					\$120.00	
ROTO BUCK (9X)	140 HP	0.27 HR		\$1.96	\$6.44	\$1.19	\$3.97	\$13.55	
IRRIGATE (13X)		6.5 HR		\$47.13	\$119.21	\$3.82	\$47.39	\$217.55	
<b>SUBTOTAL</b>								<b>\$564.72</b>	
<b>HARVEST OPERATIONS</b>									
ONION KNIVES	80 HP	0.27 HR		\$1.96	\$5.01	\$0.81	\$4.17	\$11.95	
HARVEST & HAUL (CUSTOM)			\$902.00					\$902.00	
BAG RENTAL			\$82.00					\$82.00	
FIELD LOAD (CUSTOM)			\$0.00					\$0.00	
PROCESSING (CUSTOM)			\$1,558.00					\$1,558.00	
CONTAINER CHARGE			\$328.00					\$328.00	
BROKERAGE (CUSTOM)			\$563.83					\$563.83	
<b>SUBTOTAL</b>								<b>\$3,445.79</b>	
<b>OVERHEAD EXPENSES</b>									
DOWNTIME		0.6 HR		\$4.35				\$4.35	
EMPLOYEE BENEFITS				\$13.14				\$13.14	
INSURANCE			\$1.46					\$1.46	
LAND TAXES							\$1.86	\$1.86	
SUPERVISION AND MANAGEMENT				\$160.92				\$160.92	
OTHER EXPENSES			\$75.27					\$75.27	
<b>SUBTOTAL</b>								<b>\$257.00</b>	
<b>TOTAL OPERATING EXPENSES</b>								<b>\$4,965.49</b>	
<b>NET OPERATING PROFIT</b>								<b>\$1,299.31</b>	
INTEREST ON OPERATING CAPITAL		( \$688.55 @ 7.00% )						\$48.20	
INTEREST ON EQUIPMENT INVESTMENT								\$26.13	
<b>RETURN TO LAND AND RISK</b>								<b>\$1,224.98</b>	

\* Pump water costs are shown under irrigation in the preharvest operations section.

**BUDGET SUMMARY**

GROSS RETURN		\$6,264.80	
VARIABLE OPERATING EXPENSES	\$4,619.36		
RETURN OVER VARIABLE EXPENSES		\$1,645.44	(GROSS MARGIN)
FIXED EXPENSES	\$94.72		
NET FARM INCOME		\$1,550.72	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$251.42		
NET OPERATING PROFIT		\$1,299.31	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$74.32		
RETURN TO LAND AND RISK		\$1,224.98	

TABLE 14. Midseason yellow onions, flood-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Deming area, Luna County, Projected 2005  
 Planting dates: January 15 - February 15  
 Harvesting dates: June 1 - July 15

ITEM	PRICE	YIELD						TOTAL
<b>GROSS RETURNS</b>								
MIDSEASON YELLOW ONIONS	\$7.98	670.00 SACKS						\$5,346.60
<b>TOTAL</b>							<b>\$5,346.60</b>	
<b>PURCHASED INPUTS</b>								
PRICE	QUANTITY	PURCHASED INPUTS					FIXED COST	TOTAL
SEED	\$180.00	4 LBS	\$720.00					\$720.00
ANHYDROUS AMMONIA (NH3)	\$0.31	450 LBS	\$140.63					\$140.63
NITROGEN (N)	\$0.71	75 LBS	\$53.25					\$53.25
PHOSPHATE (P2O5)	\$0.65	180 LBS	\$117.00					\$117.00
HERBICIDE	\$64.72	1 X/ACRE	\$64.72					\$64.72
INSECTICIDE	\$76.22	1 X/ACRE	\$76.22					\$76.22
PUMP WATER*		48 AC. IN.						
<b>SUBTOTAL</b>			<b>\$1,171.82</b>					<b>\$1,171.82</b>
<b>ST OPERATIONS</b>								
POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
DISC	185 HP	0.14 HR	\$1.02	\$4.42	\$1.04	\$2.12	\$8.60	
PLOW	185 HP	0.48 HR	\$3.48	\$15.17	\$3.86	\$7.41	\$29.91	
DISC	185 HP	0.14 HR	\$1.02	\$4.42	\$1.04	\$2.12	\$8.60	
LASER PLANE (CUSTOM)			\$0.00	\$0.00	\$0.00	\$0.00	\$73.33	
FERTILIZE	140 HP	0.05 HR	\$0.36	\$1.19	\$0.22	\$0.66	\$2.44	
DISC & SPRAY	185 HP	0.17 HR	\$1.23	\$5.37	\$1.38	\$3.04	\$11.02	
LISTER	126 HP	0.12 HR	\$0.87	\$2.86	\$0.84	\$2.04	\$6.61	
PRE-IRRIGATE		0.75 HR	\$5.44	\$7.86	\$0.25	\$3.12	\$16.67	
ROLLING CULT	80 HP	0.13 HR	\$0.94	\$2.41	\$0.75	\$0.99	\$5.10	
VEG-PLANT SHAPER	140 HP	0.26 HR	\$1.89	\$6.20	\$1.32	\$9.70	\$19.10	
CULT & SIDEDRESS (2X)	80 HP	0.66 HR	\$4.79	\$12.26	\$3.61	\$4.62	\$25.27	
ROLLING CULT	80 HP	0.13 HR	\$0.94	\$2.41	\$0.75	\$0.99	\$5.10	
THIN & HOE (CUSTOM)			\$120.00					\$120.00
ROTO BUCK (9X)	140 HP	0.27 HR	\$1.96	\$6.44	\$1.19	\$3.97	\$13.55	
IRRIGATE (13X)		6.5 HR	\$47.13	\$102.18	\$3.28	\$40.62	\$193.20	
<b>SUBTOTAL</b>		<b>9.80 HR</b>	<b>\$193.33</b>	<b>\$71.05</b>	<b>\$173.20</b>	<b>\$19.53</b>	<b>\$81.40</b>	<b>\$538.51</b>
<b>HARVEST OPERATIONS</b>								
ONION KNIVES	80 HP	0.27 HR		\$1.96	\$5.01	\$0.81	\$4.17	\$11.95
HARVEST & HAUL (CUSTOM)			\$737.00					\$737.00
BAG RENTAL			\$67.00					\$67.00
FIELD LOAD (CUSTOM)			\$0.00					\$0.00
PROCESSING (CUSTOM)			\$1,273.00					\$1,273.00
CONTAINER CHARGE			\$268.00					\$268.00
BROKERAGE (CUSTOM)			\$481.19					\$481.19
<b>SUBTOTAL</b>		<b>0.27 HR</b>	<b>\$2,826.19</b>	<b>\$1.96</b>	<b>\$5.01</b>	<b>\$0.81</b>	<b>\$4.17</b>	<b>\$2,838.15</b>
<b>OVERHEAD EXPENSES</b>								
DOWNTIME		0.6 HR		\$4.35				\$4.35
EMPLOYEE BENEFITS				\$13.14				\$13.14
INSURANCE			\$1.46				\$1.46	
LAND TAXES						\$1.86	\$1.86	
SUPERVISION AND MANAGEMENT				\$205.68				\$205.68
OTHER EXPENSES			\$75.27				\$75.27	
<b>SUBTOTAL</b>		<b>0.60 HR</b>	<b>\$76.73</b>	<b>\$223.17</b>			<b>\$1.86</b>	<b>\$301.76</b>
<b>TOTAL OPERATING EXPENSES</b>		<b>10.67 HR</b>	<b>\$4,268.07</b>	<b>\$296.18</b>	<b>\$178.21</b>	<b>\$20.34</b>	<b>\$87.43</b>	<b>\$4,850.23</b>
<b>NET OPERATING PROFIT</b>							<b>\$496.37</b>	
INTEREST ON OPERATING CAPITAL		(	\$870.09	@	7.00%	)	\$60.91	
INTEREST ON EQUIPMENT INVESTMENT							\$25.48	
<b>RETURN TO LAND AND RISK</b>							<b>\$409.98</b>	

\* Pump water costs are shown under irrigation in the preharvest operations section.  
**BUDGET SUMMARY**

GROSS RETURN		\$5,346.60	
VARIABLE OPERATING EXPENSES	\$4,466.62		
RETURN OVER VARIABLE EXPENSES		\$879.98	(GROSS MARGIN)
FIXED EXPENSES	\$87.43		
NET FARM INCOME		\$792.55	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$296.18		
NET OPERATING PROFIT		\$496.37	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$86.39		
RETURN TO LAND AND RISK		\$409.98	

TABLE 15. Late season onions, flood-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Deming area, Luna County, Projected 2011.  
 Planting dates: January 15 - February 15  
 Harvesting dates: August 1 - August 15

ITEM	PRICE	YIELD						TOTAL
<b>GROSS RETURNS</b>								
LATE SEASON ONIONS	\$7.15	820.00	SACKS					\$5,863.00
<b>TOTAL</b>								<b>\$5,863.00</b>
<b>PURCHASED INPUTS</b>								
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
SEED	\$180.00	4 LBS	\$720.00					\$720.00
ANHYDROUS AMMONIA (NH3)	\$0.31	400 LBS	\$125.00					\$125.00
NITROGEN (N)	\$0.71	75 LBS	\$53.25					\$53.25
PHOSPHATE (P2O5)	\$0.65	180 LBS	\$117.00					\$117.00
HERBICIDE	\$64.72	1 X/ACRE	\$64.72					\$64.72
INSECTICIDE	\$76.22	1 X/ACRE	\$76.22					\$76.22
PUMP WATER*		48 AC. IN.						
<b>SUBTOTAL</b>			<b>\$1,156.19</b>					<b>\$1,156.19</b>
<b>ST OPERATIONS</b>								
ST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	185 HP	0.14 HR		\$1.02	\$4.42	\$1.04	\$2.12	\$8.60
PLOW	185 HP	0.48 HR		\$3.48	\$15.17	\$3.86	\$7.41	\$29.91
DISC	185 HP	0.14 HR		\$1.02	\$4.42	\$1.04	\$2.12	\$8.60
LASER PLANE (CUSTOM)			\$73.33	\$0.00	\$0.00	\$0.00	\$0.00	\$73.33
FERTILIZE	140 HP	0.05 HR		\$0.36	\$1.19	\$0.22	\$0.66	\$2.44
DISC & SPRAY	185 HP	0.17 HR		\$1.23	\$5.37	\$1.38	\$3.04	\$11.02
LISTER	140 HP	0.12 HR		\$0.87	\$2.86	\$0.84	\$2.04	\$6.61
PRE-IRRIGATE		0.75 HR		\$5.44	\$7.86	\$0.25	\$3.12	\$16.67
ROLLING CULT	80 HP	0.13 HR		\$0.94	\$2.41	\$0.75	\$0.99	\$5.10
VEG-PLANT SHAPER	140 HP	0.26 HR		\$1.89	\$6.20	\$1.32	\$9.70	\$19.10
CULT & SIDEDRESS (2X)	80 HP	0.66 HR		\$4.79	\$12.26	\$3.61	\$4.62	\$25.27
ROLLING CULT	80 HP	0.13 HR		\$0.94	\$2.41	\$0.75	\$0.99	\$5.10
THIN & HOE (CUSTOM)			\$120.00					\$120.00
ROTO BUCK (9X)	140 HP	0.27 HR		\$1.96	\$6.44	\$1.19	\$3.97	\$13.55
IRRIGATE (13X)		6.5 HR		\$47.13	\$102.18	\$3.28	\$40.62	\$193.20
<b>SUBTOTAL</b>		<b>9.80 HR</b>	<b>\$193.33</b>	<b>\$71.05</b>	<b>\$173.20</b>	<b>\$19.53</b>	<b>\$81.40</b>	<b>\$538.51</b>
<b>HARVEST OPERATIONS</b>								
ONION KNIVES	80 HP	0.27 HR		\$1.96	\$5.01	\$0.81	\$4.17	\$11.95
HARVEST & HAUL (CUSTOM)			\$902.00					\$902.00
BAG RENTAL			\$82.00					\$82.00
FIELD LOAD (CUSTOM)			\$0.00					\$0.00
PROCESSING (CUSTOM)			\$1,558.00					\$1,558.00
CONTAINER CHARGE			\$328.00					\$328.00
BROKERAGE (CUSTOM)			\$527.67					\$527.67
<b>SUBTOTAL</b>		<b>0.27 HR</b>	<b>\$3,397.67</b>	<b>\$1.96</b>	<b>\$5.01</b>	<b>\$0.81</b>	<b>\$4.17</b>	<b>\$3,409.62</b>
<b>OVERHEAD EXPENSES</b>								
DOWNTIME		0.6 HR		\$4.35				\$4.35
EMPLOYEE BENEFITS				\$13.14				\$13.14
INSURANCE			\$1.46					\$1.46
LAND TAXES							\$1.86	\$1.86
SUPERVISION AND MANAGEMENT				\$204.12				\$204.12
OTHER EXPENSES			\$75.27					\$75.27
<b>SUBTOTAL</b>		<b>0.60 HR</b>	<b>\$76.73</b>	<b>\$221.61</b>			<b>\$1.86</b>	<b>\$300.20</b>
<b>TOTAL OPERATING EXPENSES</b>		<b>10.67 HR</b>	<b>\$4,823.92</b>	<b>\$294.62</b>	<b>\$178.21</b>	<b>\$20.34</b>	<b>\$87.43</b>	<b>\$5,404.52</b>
<b>NET OPERATING PROFIT</b>								<b>\$458.48</b>
INTEREST ON OPERATING CAPITAL		( \$909.90 @	7.00%	)				\$63.69
INTEREST ON EQUIPMENT INVESTMENT								\$25.48
<b>RETURN TO LAND AND RISK</b>								<b>\$369.30</b>

\* Pump water costs are shown under irrigation in the preharvest operations section.

**BUDGET SUMMARY**

GROSS RETURN		\$5,863.00	
VARIABLE OPERATING EXPENSES	\$5,022.48		
RETURN OVER VARIABLE EXPENSES	\$840.52	(GROSS MARGIN)	
FIXED EXPENSES	\$87.43		
NET FARM INCOME	\$753.10	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$294.62		
NET OPERATING PROFIT	\$458.48	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$89.18		
RETURN TO LAND AND RISK	\$369.30		

TABLE 16. Summary of per acre costs and returns for a 640 acre farm with above average management, Deming area, Luna County, Projected 2011.

	WHEAT	GRAIN SORGHUM	PICKER COTTON	GREEN CHILE	RED CHILE	SPRING LETTUCE	FALL LETTUCE	FALL ONIONS	MIDSEASON ONIONS	LATE ONIONS
	CWT	CWT	LBS	TONS/LBS	LBS	CARTONS	CARTONS	SACKS	SACKS	SACKS
PRIMARY YIELD	50	70	750	11	4,000	475	500	820	670	820
PRIMARY PRICE	\$10.83	\$8.63	\$0.85	\$475.00	\$1.00	\$5.91	\$5.78	\$7.64	\$7.98	\$7.15
GOVERNMENT PAYMENTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
SECOND INCOME	\$0.00	\$0.00	\$84.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GROSS RETURN	\$541.67	\$603.75	\$721.50	\$5,225.00	\$4,000.00	\$2,807.25	\$2,890.00	\$6,264.80	\$5,346.60	\$5,863.00
CASH OPERATING EXPENSES										
SEED	\$32.00	\$14.24	\$38.70	\$88.00	\$88.00	\$540.00	\$4.40	\$280.00	\$720.00	\$720.00
FERTILIZER	\$151.43	\$129.30	\$120.18	\$233.85	\$211.98	\$211.13	\$211.13	\$310.88	\$310.88	\$295.25
CHEMICALS		\$45.65	\$26.70	\$31.08	\$31.08	\$92.45	\$111.14	\$107.11	\$140.94	\$140.94
CROP INSURANCE	\$0.74	\$0.53	\$0.18	\$72.58	\$76.22					
OTHER PURCHASED INPUTS										
CANAL WATER										
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$17.19	\$50.94	\$99.15	\$172.52	\$118.35	\$62.34	\$63.77	\$68.17	\$68.17	\$68.17
FUEL-IRRIGATION	\$45.85	\$68.78	\$59.61	\$123.80	\$110.04	\$55.02	\$91.70	\$128.38	\$110.04	\$110.04
REPAIRS	\$5.58	\$14.42	\$16.48	\$47.58	\$33.63	\$17.54	\$18.98	\$20.93	\$20.34	\$20.34
CUSTOM CHARGES	\$35.50	\$28.30	\$189.20	\$1,252.33	\$970.00	\$1,883.00	\$2,035.66	\$3,627.16	\$3,019.52	\$3,591.00
LAND TAXES	\$1.86	\$1.86	\$1.86	\$1.86	\$1.86	\$1.86	\$1.86	\$1.86	\$1.86	\$1.86
OTHER EXPENSES	\$75.65	\$76.03	\$76.32	\$76.74	\$76.94	\$76.11	\$76.26	\$76.73	\$76.73	\$76.73
TOTAL CASH EXPENSES	\$365.79	\$430.06	\$628.37	\$2,100.34	\$1,718.11	\$2,939.45	\$2,614.90	\$4,621.22	\$4,468.48	\$5,024.33
RETURN OVER CASH EXPENSES	\$175.87	\$173.69	\$93.13	\$3,124.66	\$2,281.89	(\$132.20)	\$275.10	\$1,643.58	\$878.12	\$838.67
FIXED EXPENSES	\$34.15	\$53.76	\$98.67	\$110.45	\$89.04	\$58.31	\$73.78	\$92.86	\$85.57	\$85.57
TOTAL EXPENSES	\$399.94	\$483.82	\$727.04	\$2,210.79	\$1,807.15	\$2,997.76	\$2,688.67	\$4,714.08	\$4,554.05	\$5,109.90
NET FARM INCOME	\$141.72	\$119.93	(\$5.54)	\$3,014.21	\$2,192.85	(\$190.51)	\$201.33	\$1,550.72	\$792.55	\$753.10
LABOR AND MANAGEMENT COSTS	\$63.87	\$95.27	\$125.01	\$268.90	\$223.65	\$201.24	\$175.65	\$251.42	\$296.18	\$294.62
NET OPERATING PROFIT	\$77.85	\$24.66	(\$130.55)	\$2,745.31	\$1,969.20	(\$391.75)	\$25.68	\$1,299.31	\$496.37	\$458.48
CAPITAL COSTS										
INTEREST ON OPERATING CAPITAL	\$7.85	\$9.15	\$9.88	\$25.50	\$23.04	\$41.71	\$24.80	\$48.20	\$60.91	\$63.69
INTEREST ON EQUIPMENT INVESTMENT	\$8.43	\$16.17	\$29.77	\$44.72	\$31.45	\$20.64	\$22.36	\$26.13	\$25.48	\$25.48
TOTAL CAPITAL COSTS	\$16.29	\$25.32	\$39.65	\$70.22	\$54.50	\$62.35	\$47.15	\$74.32	\$86.39	\$89.18
RETURN TO LAND AND RISK	\$61.56	(\$0.66)	(\$170.20)	\$2,675.09	\$1,914.71	(\$454.10)	(\$21.47)	\$1,224.98	\$409.98	\$369.30

TABLE 17. Whole farm summary, Deming area, Luna County,  
Projected 2011.

GROSS RETURNS		
WHEAT	68.00 ACRES	
CROP		\$36,833
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
GRAIN SORGHUM	93.50 ACRES	
CROP		\$56,451
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
UPLAND COTTON	348.50 ACRES	
LINT		\$222,169
SEED		\$29,274
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
GREEN CHILE	40.00 ACRES	
GREEN		\$209,000
RED		\$0
RED CHILE	40.00 ACRES	
CROP		\$160,000
SPRING LETTUCE	10.00 ACRES	
CROP		\$28,073
FALL LETTUCE	10.00 ACRES	
CROP		\$28,900
FALL ONIONS	10.00 ACRES	
CROP		\$62,648
MIDSEASON ONIONS	10.00 ACRES	
CROP		\$53,466
LATE SEASON ONIONS	10.00 ACRES	
CROP		\$58,630
GROSS RETURN		<u>\$945,443</u>
CASH OPERATING EXPENSES		
SEED		\$46,678
FERTILIZER		\$95,493
CHEMICALS		\$21,986
CROP INSURANCE		\$6,102
OTHER PURCHASED INPUTS		\$0
CANAL WATER		\$0
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$55,427
FUEL-IRRIGATION		\$44,627
REPAIRS		\$11,703
CUSTOM CHARGES		\$301,453
LAND TAXES		\$1,190
OTHER EXPENSES		\$48,824
TOTAL CASH EXPENSES		<u>\$633,482</u>
RETURN OVER CASH EXPENSES		\$311,961
FIXED EXPENSES		\$53,674
TOTAL EXPENSES		\$687,156
NET FARM INCOME		\$258,287
LABOR AND MANAGEMENT COSTS		\$88,711
NET OPERATING PROFIT		\$169,575
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$9,168
INTEREST ON EQUIPMENT INVESTMENT		\$16,706
TOTAL CAPITAL COSTS		<u>\$25,874</u>
RETURN TO LAND AND RISK		<u>\$143,702</u>

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$500 /ACRE	\$134,102	23.19%
\$700 /ACRE	\$130,262	19.74%
\$900 /ACRE	\$126,422	17.18%
\$1,100 /ACRE	\$122,582	15.21%
\$1,300 /ACRE	\$118,742	13.64%
\$1,500 /ACRE	\$114,902	12.37%

\* 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)