

TABLE 1. Basic cost information for the Carlsbad Basin, Eddy County, 2003.

Item			
Labor Wage Rate:			
Equipment operators		\$/hour	\$6.80
General & Irrigators		\$/hour	\$6.35
Purchased Inputs:			
Fertilizer:			
Nitrogen (N)		\$/pound	\$0.36
Phosphate (P205)		\$/pound	\$0.33
Canal water	3 AC. FT.	\$/acre	\$41.00
Wire		\$/lb.	\$0.38
Seed:			
Alfalfa		\$/pound	\$3.00
Cotton			
Picker		\$/pound	\$0.56
Stripper		\$/pound	\$0.51
Barley		\$/pound	\$0.40
Sudan		\$/pound	\$0.52
Diesel fuel		\$/gallon	\$1.30
Gasoline		\$/gallon	\$1.35
Electricity		cents/KwHr	5.50
Natural Gas		\$/MCF	\$3.29
LP Gas		\$/gallon	\$0.80
Employee Liability Insurance		\$/ \$1,000 wages	\$20.00
Employee Benefits		percent/w ages	18.00%
Labor Downtime		percent	25.00%
Financial Rates:			
Operating Capital Interest Rate		percent	8.00%
Land Interest Rate		percent	7.00%
Equipment Interest Rate		percent	8.00%
Real Interest Rate		percent	4.00%
Land Taxes	\$250.00	/acre (full value)	\$1.88
Personal Property Tax Rate - NR		\$/ \$1,000 (Assessed Value)	\$22.56
- R			\$19.86
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 1a. Overhead cost information for the Carlsbad Basin, Eddy County, 2003.

ITEM			
Electricity (Domestic & Shop)		\$185.00 per month	\$2,220
Telephone		\$115.00 per month	\$1,380
Accounting & Legal			\$660
Misc. Supplies & Hand Tools			\$810
Pickup and Auto			
miles	15,000	@ \$0.365 per mile	\$5,475
Insurance			
- general liability (non-employee)			\$1,305
- fire/theft			\$865
Property Taxes			
- non-planted land			\$40
- other than land & machinery			\$300
Fixed Costs: Pump			\$1,566
Building repairs and maintenance			\$520
Dues, fees, publications			\$195
Farmstead Equipment			\$8,890
Total			\$24,226
Total Per Planted Acre			\$134.59

TABLE 2. Pumping costs and data for irrigation wells, Carlsbad Basin,  
Eddy County, 2003.

INPUT DATA

DELIVERY PSI:		DEPTH CHARACTERISTICS:	
SPRINKLER...	0	STATIC... ..	80
		DRAW DOWN .....	45
		TOTAL HEAD.....	125
		CASING... ..	160
GALLONS PER MINUTE (GPM)...	1200		
WORK HORSEPOWER.....	38		
EFFICIENCY FACTOR:			
ELECTRICITY. ....	0.470		
NATURAL GAS. ....	0.120		
LP GAS..... ..	0.120		
DIESEL..... ..	0.160		
FUEL COST PER UNIT: :			
ELECTRICITY. ....	\$5.50	cents/KwHr	
NATURAL GAS. ....	\$3.29	\$/MCF	
LP GAS..... ..	\$0.80	\$/GAL	
DIESEL..... ..	\$1.30	\$/GAL	

FUEL PUMPING COSTS

ELECTRIC WELL:	
COST PER HOUR.....	\$3.34
COST PER ACRE INCH.....	\$1.26
NATURAL GAS WELL:	
COST PER HOUR.....	\$2.93
COST PER ACRE INCH.....	\$1.10
LP GAS WELL:	
COST PER HOUR.....	\$7.03
COST PER ACRE INCH.....	\$2.65
DIESEL WELL:	
COST PER HOUR.....	\$5.56
COST PER ACRE INCH.....	\$2.10

TABLE 3. Equipment summary for a 200 acre flood-irrigated farm with above average management, Carlsbad Basin, 2003.

EQUIPMENT		VARIABLE COSTS						FIXED COSTS		
ITEM & SIZE	ANNUAL		TOTAL VALUE	FUEL AND LUBRICANT	REPAIR	FUEL,LUBE PER HR	REPAIR PER HR	DEPREC- IATION	TOTAL TAXES PER HOUR	
	HOURS OF USE	NUMBER								
TRACTOR 27 HP	93	1	\$2,330	\$254	\$14	\$2.73	\$0.15	\$50	\$9	\$0.64
TRACTOR 96 HP	169	1	\$19,240	\$1,620	\$435	\$9.59	\$2.57	\$1,430	\$161	\$9.43
TRACTOR 145 HP	254	1	\$31,475	\$2,977	\$1,062	\$11.74	\$4.19	\$4,652	\$262	\$19.38
SWATHER 14 FT SP	80	1	\$4,300	\$389	\$46	\$4.87	\$0.58	\$1,450	\$109	\$19.49
BORDER DISC 6-DISC	33	1	\$300		\$12		\$0.37	\$40	\$2	\$1.27
DISC 12 FT	51	1	\$2,250		\$141		\$2.79	\$300	\$17	\$6.27
PLOW 3-16 IN	69	1	\$3,350		\$288		\$4.15	\$447	\$25	\$6.80
CULTIVATOR 4-ROW	54	1	\$1,500		\$101		\$1.86	\$200	\$11	\$3.90
DRILL 12 FT	8	1	\$2,200		\$9		\$1.06	\$220	\$17	\$28.70
PLANTER 4-ROW	17	1	\$3,400		\$28		\$1.63	\$340	\$26	\$21.38
DRAG 12 FT	18	1	\$250		\$0		\$0.01	\$17	\$2	\$1.04
LISTER 4-ROW	12	1	\$1,600		\$23		\$1.98	\$107	\$12	\$10.03
SHREDDER 2-ROW	19	1	\$1,250		\$4		\$0.20	\$83	\$9	\$4.86
BALER PTO 2-WIRE	126	1	\$1,500		\$19		\$0.15	\$385	\$29	\$3.29
RIPPER 7-SHANK	7	1	\$1,200		\$10		\$1.49	\$160	\$9	\$25.04
COTTON TRAILER	30	5	\$3,500		\$1		\$0.03	\$467	\$26	\$16.23
VEGETABLE TRAILER	5	1	\$700		\$0		\$0.03	\$93	\$5	\$19.72
HAY RAKE 1-REEL	48	1	\$750		\$10		\$0.21	\$100	\$6	\$2.20
ROLLING CULTIVATOR 4-ROW	13	1	\$2,000		\$32		\$2.48	\$267	\$15	\$22.08
ELECTRIC WELL	91	1	\$13,200	\$302	\$8	\$3.34	\$0.09	\$1,389	\$99	\$16.45
TOTAL			\$96,295	\$5,542	\$2,244			\$12,197	\$853	

TABLE 4. Alfalfa establishment, flood-irrigated, budgeted per acre costs and returns for a 200 acre farm with above average management, Carlsbad Basin, 2003.  
Planting dates: August 20 - September 30

ITEM	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
<u>PURCHASED INPUTS</u>								
SEED	\$3.00	25 LBS						\$75.00
CANAL WATER		8 AC. IN.						\$0.00
PUMP WATER		0 AC. IN.						
SUBTOTAL								\$75.00
<u>PREHARVEST OPERATIONS</u>								
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	145 HP	0.17 HR		\$1.16	\$2.00	\$1.19	\$4.36	\$8.70
PLOW	145 HP	0.67 HR		\$4.56	\$7.87	\$5.59	\$17.54	\$35.55
DISC (3X)	145 HP	0.51 HR		\$3.47	\$5.99	\$3.56	\$13.08	\$26.10
LASER (CUSTOM)			\$73.33					\$73.33
RIPPER	145 HP	0.27 HR		\$1.84	\$3.17	\$1.53	\$11.99	\$18.53
DISC	145 HP	0.17 HR		\$1.16	\$2.00	\$1.19	\$4.36	\$8.70
DRAG	96 HP	0.17 HR		\$1.16	\$1.63	\$0.44	\$1.78	\$5.01
BORDER DISC (2X)	27 HP	0.10 HR		\$0.68	\$0.27	\$0.05	\$0.19	\$1.20
DRILL	96 HP	0.21 HR		\$1.43	\$2.01	\$0.76	\$8.01	\$12.21
IRRIGATE (2X)		1.00 HR		\$6.35	\$0.00	\$0.00	\$0.00	\$6.35
SUBTOTAL		3.27 HR	\$73.33	\$21.79	\$24.93	\$14.31	\$61.32	\$195.67
<u>OVERHEAD EXPENSES</u>								
DOWNTIME		0.57 HR		\$3.86				\$3.86
EMPLOYEE BENEFITS				\$3.92				\$3.92
INSURANCE			\$0.44					\$0.44
SUPERVISION AND MANAGEMENT				\$21.08				\$21.08
SUBTOTAL		0.57 HR	\$0.44	\$28.86				\$29.30
TOTAL OPERATING EXPENSES		3.84 HR	\$148.77	\$50.65	\$24.93	\$14.31	\$61.32	\$299.97

TABLE 5. Alfalfa hay, flood-irrigated, budgeted per acre costs and returns for a 200 acre farm with above average management, Carlsbad Basin, 2003.  
Harvesting dates: May 20 - October 15

ITEM	PRICE	YIELD						TOTAL			
<b>GROSS RETURNS</b>											
ALFALFA HAY	\$140.00	7.00	TONS (STACKED)					\$980.00			
GRAZING	\$10.00	1	ACRE					\$10.00			
<b>TOTAL</b>								<b>\$990.00</b>			
<b>PURCHASED INPUTS</b>											
PURCHASED INPUTS	PRICE	QUANTITY		PURCHASED INPUTS		FIXED COST		TOTAL			
NITROGEN (N)	\$0.36	36	LBS		\$12.96		\$12.96				
PHOSPHATE (P205)	\$0.33	92	LBS		\$30.36		\$30.36				
INSECTICIDE (CUSTOM)	\$27.53	1	X/ACRE		\$27.53		\$27.53				
HERBICIDE (CUSTOM)	\$26.23	1	X/ACRE		\$26.23		\$26.23				
WIRE	\$0.38	51	LBS		\$19.38		\$19.38				
ESTABLISHMENT: Principal		4	YEARS				\$74.99	\$74.99			
: Interest							\$12.39	\$12.39			
CANAL WATER		48	AC. IN.		\$41.00		\$41.00				
PUMP WATER*		0	AC. IN.				\$0.00				
<b>SUBTOTAL</b>				<b>\$157.46</b>		<b>\$87.38</b>		<b>\$244.84</b>			
<b>PREHARVEST OPERATIONS</b>											
	POWER UNIT	ACCOMPLISHMENT RATE		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL		
BORDER DISC (6X)	27 HP	0.30	HR			\$2.04	\$0.82	\$0.16	\$0.57	\$3.59	
FERTILIZE	DEALER APPLIED										
IRRIGATE (8X)		4.00	HR			\$25.40	\$0.00	\$0.00	\$0.00	\$25.40	
<b>SUBTOTAL</b>				<b>4.30 HR</b>		<b>\$27.44</b>	<b>\$0.82</b>	<b>\$0.16</b>	<b>\$0.57</b>	<b>\$28.99</b>	
<b>HARVEST OPERATIONS</b>											
SWATHER (6X)	14 FT SP	0.80	HR			\$5.44	\$3.89	\$0.46	\$15.59	\$25.39	
RAKE (4X)	96 HP	0.48	HR			\$3.26	\$4.60	\$1.34	\$5.58	\$14.79	
BALER (6X)	145 HP	1.26	HR			\$8.57	\$14.79	\$5.47	\$28.56	\$57.39	
BALEWAGON						\$67.20				\$67.20	
<b>SUBTOTAL</b>				<b>2.54 HR</b>		<b>\$67.20</b>	<b>\$17.27</b>	<b>\$23.29</b>	<b>\$7.27</b>	<b>\$49.73</b>	<b>\$164.77</b>
<b>OVERHEAD EXPENSES</b>											
DOWNTIME		0.71	HR			\$4.83				\$4.83	
EMPLOYEE BENEFITS						\$8.05				\$8.05	
INSURANCE						\$0.89				\$0.89	
LAND TAXES								\$1.88		\$1.88	
SUPERVISION AND MANGEMENT						\$74.72				\$74.72	
OTHER EXPENSES						\$134.59				\$134.59	
<b>SUBTOTAL</b>				<b>0.71 HR</b>		<b>\$135.48</b>	<b>\$87.60</b>		<b>\$1.88</b>	<b>\$224.96</b>	
<b>TOTAL OPERATING EXPENSES</b>		<b>7.55 HR</b>		<b>\$360.14</b>	<b>\$132.31</b>	<b>\$24.11</b>	<b>\$7.43</b>	<b>\$139.57</b>	<b>\$663.56</b>		
<b>NET OPERATING PROFIT</b>								<b>\$326.44</b>			
INTEREST ON OPERATING CAPITAL	(	\$81.52	@	8.00%	)				\$6.52		
INTEREST ON EQUIPMENT INVESTMENT									\$34.57		
<b>RETURN TO LAND AND RISK</b>								<b>\$285.35</b>			

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

**BUDGET SUMMARY**

GROSS RETURN		\$990.00	
VARIABLE OPERATING EXPENSES	\$391.68		
RETURN OVER VARIABLE EXPENSES		\$598.32	(GROSS MARGIN)
FIXED EXPENSES	\$139.57		
NET FARM INCOME		\$458.75	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$132.31		
NET OPERATING PROFIT		\$326.44	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$41.09		
RETURN TO LAND AND RISK		\$285.35	

TABLE 6. Barley, flood-irrigated, budgeted per acre costs and returns for a 200 acre farm with above average management, Carlsbad Basin, 2003.

Planting dates: August 20 - September 30

Harvesting dates: June 15 - July 1

ITEM	PRICE	YIELD						TOTAL	
<b>GROSS RETURNS</b>									
BARLEY	\$3.30	25.00	CWT					\$82.50	
DIRECT PAYMENT	\$0.24	25.00	CWT					\$6.00	
COUNTER CYCLICAL PAYMENT	\$0.00							\$0.00	
GRAZING	\$40.00	1.00	ACRE					\$40.00	
<b>TOTAL</b>								\$128.50	
<b>PURCHASED INPUTS</b>									
PURCHASED INPUTS	PRICE	QUANTITY		PURCHASED INPUTS				TOTAL	
SEED	\$0.40	110	LBS	\$44.00				\$44.00	
NITROGEN (N)	\$0.36	40	LBS	\$14.40				\$14.40	
HERBICIDE	\$14.11	1	X/ACRE	\$14.11				\$14.11	
CANAL WATER		20	AC. IN.	\$41.00				\$41.00	
PUMP WATER*		0	AC. IN.					\$0.00	
CROP INSURANCE	\$11.76			\$11.76				\$11.76	
<b>SUBTOTAL</b>				\$125.27				\$125.27	
<b>PREHARVEST OPERATIONS</b>									
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PLOW	145 HP	0.67	HR		\$4.56	\$7.87	\$5.59	\$17.54	\$35.55
DISC (2X)	145 HP	0.34	HR		\$2.31	\$3.99	\$2.37	\$8.72	\$17.40
DRAG	96 HP	0.17	HR		\$1.16	\$1.63	\$0.44	\$1.78	\$5.01
BORDER DISC	27 HP	0.05	HR		\$0.34	\$0.14	\$0.03	\$0.10	\$0.60
DRILL	96 HP	0.21	HR		\$1.43	\$2.01	\$0.76	\$8.01	\$12.21
IRRIGATE (5X)		2.50	HR		\$15.88	\$0.00	\$0.00	\$0.00	\$15.88
<b>SUBTOTAL</b>		3.94	HR		\$25.67	\$15.64	\$9.19	\$36.14	\$86.64
<b>HARVEST OPERATIONS</b>									
COMBINE (CUSTOM)				\$14.68					\$14.68
HAUL (CUSTOM)				\$7.80					\$7.80
<b>SUBTOTAL</b>				\$22.48					\$22.48
<b>OVERHEAD EXPENSES</b>									
DOWNTIME		0.36	HR		\$2.45				\$2.45
EMPLOYEE BENEFITS					\$4.62				\$4.62
INSURANCE				\$0.51					\$0.51
LAND TAXES							\$1.88		\$1.88
SUPERVISION AND MANGEMENT					\$9.00				\$9.00
OTHER EXPENSES				\$134.59					\$134.59
<b>SUBTOTAL</b>		0.36	HR	\$135.10	\$16.06		\$1.88		\$153.04
<b>TOTAL OPERATING EXPENSES</b>		4.30	HR	\$282.85	\$41.73	\$15.64	\$9.19	\$38.02	\$387.43
<b>NET OPERATING PROFIT</b>								(\$258.93)	
INTEREST ON OPERATING CAPITAL	(	\$70.72	@	8.00%	)				\$5.66
INTEREST ON EQUIPMENT INVESTMENT									\$23.54
<b>RETURN TO LAND AND RISK</b>								(\$288.14)	

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

**BUDGET SUMMARY**

GROSS RETURN		\$128.50	
VARIABLE OPERATING EXPENSES	\$307.68		
RETURN OVER VARIABLE EXPENSES		(\$179.18)	(GROSS MARGIN)
FIXED EXPENSES	\$38.02		
NET FARM INCOME		(\$217.20)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$41.73		
NET OPERATING PROFIT		(\$258.93)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$29.20		
RETURN TO LAND AND RISK		(\$288.14)	

TABLE 7. Sudan, flood-irrigated, budgeted per acre costs and returns for a 200 acre farm with above average management, Carlsbad Basin, 2003.  
 Planting Dates: August 20 - September 30  
 Harvesting dates: June 15 - July 1

ITEM	PRICE	YIELD						TOTAL		
<b>GROSS RETURNS</b>										
GRAZING	\$110.00	1 TON	(STACKED)					\$110.00		
<b>TOTAL</b>								\$110.00		
<b>PURCHASED INPUTS</b>										
PURCHASED INPUTS	PRICE	QUANTITY		PURCHASED INPUTS				TOTAL		
SEED	\$0.52	25	LBS	\$13.00			\$13.00			
NITROGEN (N)	\$0.36	250	LBS	\$90.00			\$90.00			
PHOSPHATE (P2O5)	\$0.33	60	LBS	\$19.80			\$19.80			
CANAL WATER		24	AC. IN.	\$41.00			\$41.00			
PUMP WATER*		0	AC. IN.				\$0.00			
<b>SUBTOTAL</b>				\$163.80			\$163.80			
<b>PREHARVEST OPERATIONS</b>										
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
PLOW	145 HP	0.67	HR		\$4.56	\$7.87	\$5.59	\$17.54	\$35.55	
DISC (2X)	145 HP	0.28	HR		\$1.90	\$3.29	\$1.95	\$7.18	\$14.33	
DRAG	96 HP	0.17	HR		\$1.16	\$1.63	\$0.44	\$1.78	\$5.01	
BORDER DISC	27 HP	0.05	HR		\$0.34	\$0.14	\$0.03	\$0.10	\$0.60	
DRILL	96 HP	0.21	HR		\$1.43	\$2.01	\$0.76	\$8.01	\$12.21	
IRRIGATE (6X)		3.00	HR		\$19.05	\$0.00	\$0.00	\$0.00	\$19.05	
<b>SUBTOTAL</b>		4.38	HR		\$28.43	\$14.94	\$8.77	\$34.61	\$86.74	
<b>OVERHEAD EXPENSES</b>										
DOWNTIME		0.35	HR		\$2.35				\$2.35	
EMPLOYEE BENEFITS					\$5.12				\$5.12	
INSURANCE				\$0.57					\$0.57	
LAND TAXES							\$1.88		\$1.88	
SUPERVISION AND MANGEMENT					\$11.39				\$11.39	
OTHER EXPENSES				\$134.59					\$134.59	
<b>SUBTOTAL</b>		0.35	HR		\$135.16	\$18.85		\$1.88	\$155.89	
<b>TOTAL OPERATING EXPENSES</b>		4.73	HR		\$298.96	\$47.29	\$14.94	\$8.77	\$36.49	\$406.43
<b>NET OPERATING PROFIT</b>								(\$296.43)		
INTEREST ON OPERATING CAPITAL		(	\$87.83	@	8.00%	)		\$7.03		
INTEREST ON EQUIPMENT INVESTMENT								\$22.67		
<b>RETURN TO LAND AND RISK</b>								(\$326.13)		

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

**BUDGET SUMMARY**

GROSS RETURN		\$110.00	
VARIABLE OPERATING EXPENSES	\$322.66		
RETURN OVER VARIABLE EXPENSES		(\$212.66)	(GROSS MARGIN)
FIXED EXPENSES	\$36.49		
NET FARM INCOME		(\$249.15)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$47.29		
NET OPERATING PROFIT		(\$296.43)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$29.70		
RETURN TO LAND AND RISK		(\$326.13)	

TABLE 8. Upland cotton (picker), flood-irrigated, budgeted per acre costs and returns for a 200 acre farm with above average management, Carlsbad Basin, 2003.  
Planting dates: April 15 - May 15  
Harvesting dates: October 15 - January 15

ITEM	PRICE	YIELD						TOTAL
<b>GROSS RETURNS</b>								
COTTON LINT	\$0.520	980 LBS						\$509.60
COTTON SEED	\$0.08	1,568 LBS						\$117.60
DIRECT PAYMENT	\$0.0667	980 LBS						\$65.37
COUNTER CYCLICAL PAYMENT	\$0.0873	980 LBS						\$85.55
<b>TOTAL</b>							<b>\$778.12</b>	
PURCHASED INPUTS		PRICE	QUANTITY	PURCHASED INPUTS		TOTAL		
SEED	\$0.56	20 LBS	\$11.20			\$11.20		
NITROGEN (N)	\$0.36	20 LBS	\$7.20			\$7.20		
PHOSPHATE (P205)	\$0.33	40 LBS	\$13.20			\$13.20		
HERBICIDE	\$13.22	1 ACRE	\$13.22			\$13.22		
INSECTICIDE (CUSTOM)	\$27.39	2 X/ACRE	\$54.78			\$54.78		
CROP INSURANCE		FCIC	\$0.82			\$0.82		
CANAL WATER		22 AC. IN.	\$41.00			\$41.00		
PUMP WATER*		0 AC. IN.	\$0.00			\$0.00		
<b>SUBTOTAL</b>			<b>\$141.43</b>			<b>\$141.43</b>		
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PLOW	145 HP	0.67 HR		\$4.56	\$7.87	\$5.59	\$17.54	\$35.55
DISC	145 HP	0.17 HR		\$1.16	\$2.00	\$1.19	\$4.36	\$8.70
DRAG	96 HP	0.17 HR		\$1.16	\$1.63	\$0.44	\$1.78	\$5.01
DISC & SPRAY	145 HP	0.20 HR		\$1.36	\$2.35	\$1.40	\$5.13	\$10.23
LISTER	96 HP	0.18 HR		\$1.22	\$1.73	\$0.82	\$3.50	\$7.27
FERTILIZE	DEALER APPLIED							
PRE-IRRIGATE		0.75 HR		\$4.76	\$0.00	\$0.00	\$0.00	\$4.76
ROLLING CULTIVATOR	96 HP	0.21 HR		\$1.43	\$2.01	\$1.06	\$6.62	\$11.12
PLANTER	96 HP	0.26 HR		\$1.77	\$2.49	\$1.09	\$8.01	\$13.37
CULTIVATOR (4X)	27 HP	0.84 HR		\$5.71	\$2.30	\$1.69	\$3.81	\$13.51
HOEING			\$20.00					\$20.00
IRRIGATE (3X)		1.50 HR		\$9.53	\$0.00	\$0.00	\$0.00	\$9.53
<b>SUBTOTAL</b>		<b>4.95 HR</b>	<b>\$20.00</b>	<b>\$32.65</b>	<b>\$22.37</b>	<b>\$13.27</b>	<b>\$50.76</b>	<b>\$139.05</b>
<b>HARVEST OPERATIONS</b>								
COTTON PICKER (CUSTOM)			\$146.71					\$146.71
HAUL	80 HP	0.50 HR		\$3.40	\$4.80	\$1.30	\$12.83	\$22.33
GIN COTTON (CUSTOM)			\$146.71					\$146.71
<b>SUBTOTAL</b>		<b>0.50 HR</b>	<b>\$293.41</b>	<b>\$3.40</b>	<b>\$4.80</b>	<b>\$1.30</b>	<b>\$12.83</b>	<b>\$315.74</b>
<b>POSTHARVEST OPERATIONS</b>								
SHREDDER	80 HP	0.29 HR		\$1.97	\$2.78	\$0.80	\$4.14	\$9.70
<b>SUBTOTAL</b>		<b>0.29 HR</b>		<b>\$1.97</b>	<b>\$2.78</b>	<b>\$0.80</b>	<b>\$4.14</b>	<b>\$9.70</b>
<b>OVERHEAD EXPENSES</b>								
DOWNTIME		0.83 HR		\$5.64				\$5.64
EMPLOYEE BENEFITS				\$6.84				\$6.84
INSURANCE			\$0.76					\$0.76
LAND TAXES						\$1.88		\$1.88
SUPERVISION AND MANGEMENT				\$58.38				\$58.38
OTHER EXPENSES			\$134.59					\$134.59
<b>SUBTOTAL</b>		<b>0.83 HR</b>	<b>\$135.35</b>	<b>\$70.87</b>			<b>\$1.88</b>	<b>\$208.09</b>
<b>TOTAL OPERATING EXPENSES</b>		<b>6.57 HR</b>	<b>\$590.19</b>	<b>\$108.89</b>	<b>\$29.95</b>	<b>\$15.38</b>	<b>\$69.61</b>	<b>\$814.01</b>
<b>NET OPERATING PROFIT</b>							<b>(\$35.89)</b>	
INTEREST ON OPERATING CAPITAL	(	\$81.03	@	8.00%	)		\$6.48	
INTEREST ON EQUIPMENT INVESTMENT							\$45.83	
<b>RETURN TO LAND AND RISK</b>							<b>(\$88.21)</b>	

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

**BUDGET SUMMARY**

GROSS RETURN		\$778.12	
VARIABLE OPERATING EXPENSES	\$635.52		
RETURN OVER VARIABLE EXPENSES		\$142.60	(GROSS MARGIN)
FIXED EXPENSES	\$69.61		
NET FARM INCOME		\$72.99	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$108.89		
NET OPERATING PROFIT		(\$35.89)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$52.32		
RETURN TO LAND AND RISK		(\$88.21)	



TABLE 9 Upland cotton (stripper), flood-irrigated, budgeted per acre costs and returns for a 200 acre farm with above average management, Carlsbad Basin, 2003.  
 Planting dates: April 15 - May 15  
 Harvesting dates: October 15 - January 15

ITEM	PRICE	YIELD						TOTAL
<b>GROSS RETURNS</b>								
COTTON LINT	\$0.470	980	LBS					\$460.60
COTTON SEED	\$0.08	1,568	LBS					\$117.60
DIRECT PAYMENT	\$0.0667	980	LBS					\$65.37
COUNTER CYCLICAL PAYMENT	\$0.1373	980	LBS					\$134.55
<b>TOTAL</b>								<b>\$778.12</b>
<b>PURCHASED INPUTS</b>								
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
SEED	\$0.51	20	LBS	\$10.20				\$10.20
NITROGEN (N)	\$0.36	20	LBS	\$7.20				\$7.20
PHOSPHATE (P205)	\$0.33	40	LBS	\$13.20				\$13.20
HERBICIDE	\$13.22	1	X/ACRE	\$13.22				\$13.22
INSECTICIDE (CUSTOM)	\$25.95	2	X/ACRE	\$51.89				\$51.89
CROP INSURANCE			FCIC	\$12.61				\$12.61
CANAL WATER		22	AC. IN.	\$41.00				\$41.00
PUMP WATER*		0	AC. IN.	\$0.00				\$0.00
<b>SUBTOTAL</b>				<b>\$149.33</b>				<b>\$149.33</b>
<b>PREHARVEST OPERATIONS</b>								
POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
PLOW	145 HP	0.67 HR		\$4.56	\$7.87	\$5.59	\$17.54	\$35.55
DISC	145 HP	0.17 HR		\$1.16	\$2.00	\$1.19	\$4.36	\$8.70
DRAG	96 HP	0.17 HR		\$1.16	\$1.63	\$0.44	\$1.78	\$5.01
DISC & SPRAY	145 HP	0.20 HR		\$1.36	\$2.35	\$1.40	\$5.13	\$10.23
LISTER	96 HP	0.18 HR		\$1.22	\$1.73	\$0.82	\$3.50	\$7.27
FERTILIZE	DEALER APPLIED							
PRE-IRRIGATE		0.75 HR		\$4.76	\$0.00	\$0.00	\$0.00	\$4.76
ROLLING CULTIVATOR	96 HP	0.21 HR		\$1.43	\$2.01	\$1.06	\$6.62	\$11.12
PLANTER	96 HP	0.26 HR		\$1.77	\$2.49	\$1.09	\$8.01	\$13.37
CULTIVATOR (4X)	27 HP	0.84 HR		\$5.71	\$2.30	\$1.69	\$3.81	\$13.51
IRRIGATE (2X)		1.00 HR		\$6.35	\$0.00	\$0.00	\$0.00	\$6.35
<b>SUBTOTAL</b>		<b>4.45 HR</b>		<b>\$29.47</b>	<b>\$22.37</b>	<b>\$13.27</b>	<b>\$50.76</b>	<b>\$115.87</b>
<b>HARVEST OPERATIONS</b>								
COTTON STRIPPER (CUSTOM)				\$175.81				\$175.81
HAUL	96 HP	0.75 HR		\$5.10	\$7.19	\$1.95	\$19.24	\$33.49
GIN COTTON (CUSTOM)				\$175.81				\$175.81
<b>SUBTOTAL</b>		<b>0.75 HR</b>		<b>\$351.62</b>	<b>\$5.10</b>	<b>\$7.19</b>	<b>\$19.24</b>	<b>\$385.11</b>
<b>POSTHARVEST OPERATIONS</b>								
SHREDDER	80 HP	0.29 HR		\$1.97	\$2.78	\$0.80	\$4.14	\$9.70
<b>SUBTOTAL</b>		<b>0.29 HR</b>		<b>\$1.97</b>	<b>\$2.78</b>	<b>\$0.80</b>	<b>\$4.14</b>	<b>\$9.70</b>
<b>OVERHEAD EXPENSES</b>								
DOWNTIME		0.94 HR		\$6.36				\$6.36
EMPLOYEE BENEFITS				\$6.58				\$6.58
INSURANCE				\$0.73				\$0.73
LAND TAXES						\$1.88		\$1.88
SUPERVISION AND MANGEMENT				\$57.75				\$57.75
OTHER EXPENSES				\$134.59				\$134.59
<b>SUBTOTAL</b>		<b>0.94 HR</b>		<b>\$135.32</b>	<b>\$70.69</b>		<b>\$1.88</b>	<b>\$207.89</b>
<b>TOTAL OPERATING EXPENSES</b>		<b>6.43 HR</b>		<b>\$636.27</b>	<b>\$107.23</b>	<b>\$32.35</b>	<b>\$16.03</b>	<b>\$76.02</b>
<b>NET OPERATING PROFIT</b>								<b>(\$89.78)</b>
INTEREST ON OPERATING CAPITAL	(	\$85.23	@	8.00%				)
INTEREST ON EQUIPMENT INVESTMENT								\$6.82
								\$48.84
<b>RETURN TO LAND AND RISK</b>								<b>(\$145.44)</b>

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

BUDGET SUMMARY

GROSS RETURN		\$778.12	
VARIABLE OPERATING EXPENSES	\$684.65		
RETURN OVER VARIABLE EXPENSES		\$93.47	(GROSS MARGIN)
FIXED EXPENSES	\$76.02		
NET FARM INCOME		\$17.45	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$107.23		
NET OPERATING PROFIT		(\$89.78)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$55.66		
RETURN TO LAND AND RISK		(\$145.44)	

TABLE 9. Red chile, flood-irrigated, budgeted per acre costs and returns for a 200 acre farm with above average management, Carlsbad Basin, 2003.  
 Planting dates: April 1 - April 15  
 Harvesting dates: September 1 - October 30

ITEM	PRICE	YIELD							TOTAL
GROSS RETURNS									
RED CHILE	\$0.68	3,200	LBS						\$2,176.00
TOTAL									\$2,176.00
PURCHASED INPUTS		PRICE	QUANTITY	PURCHASED INPUTS			TOTAL		
SEED	\$21.00	8	LBS	\$168.00				\$168.00	
NITROGEN (N)	\$0.36	200	LBS	\$72.00				\$72.00	
PHOSPHATE (P205)	\$0.33	60	LBS	\$19.80				\$19.80	
HERBICIDE (CUSTOM)	\$31.08	1	X/ACRE	\$31.08				\$31.08	
INSECTICIDE (CUSTOM)	\$44.48	1	X/ACRE	\$44.48				\$44.48	
CROP INSURANCE		40	DOLLARS	\$40.00				\$40.00	
CANAL WATER		48	AC. IN.	\$41.00				\$41.00	
SUBTOTAL				\$416.36				\$416.36	
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
DISC	145 HP	0.17 HR		\$1.16	\$2.00	\$1.19	\$4.36	\$8.70	
PLOW	145 HP	0.48 HR		\$3.26	\$5.64	\$4.00	\$12.57	\$25.47	
DISC (2X)	145 HP	0.34 HR		\$2.31	\$3.99	\$2.37	\$8.72	\$17.40	
FLOAT	96 HP	0.16 HR		\$1.09	\$1.53	\$0.41	\$1.67	\$4.71	
FERTILIZE (CUSTOM)	DEALER APPLIED								
LISTER	145 HP	0.18 HR		\$1.22	\$2.11	\$1.11	\$5.29	\$9.74	
PRE-IRRIGATE		0.05 HR		\$0.32	\$0.00	\$0.20	\$37.22	\$37.74	
CULTIVATOR	96 HP	0.21 HR		\$1.43	\$2.01	\$0.93	\$2.80	\$7.17	
PLANTER	96 HP	0.26 HR		\$1.77	\$2.49	\$1.09	\$8.01	\$13.37	
CULTIVATOR (2X)	27 HP	0.42 HR		\$2.86	\$1.15	\$0.84	\$1.91	\$6.75	
THIN & HOE (2X)			\$80.00					\$80.00	
IRRIGATE (7X)		3.50 HR		\$22.23	\$0.00	\$0.00	\$0.00	\$22.23	
SUBTOTAL		5.60 HR	\$80.00	\$37.64	\$20.93	\$12.16	\$82.55	\$233.28	
HARVEST OPERATIONS									
HAND PICK			\$640.00					\$640.00	
FIELD HAUL	96 HP	1.00 HR		\$6.80	\$9.59	\$2.60	\$29.14	\$48.14	
HAUL (CUSTOM)			\$96.00					\$96.00	
SUBTOTAL		1.00 HR	\$736.00	\$6.80	\$9.59	\$2.60	\$29.14	\$784.14	
POSTHARVEST OPERATIONS									
SHREDDER	27 HP	0.29 HR		\$1.97	\$0.79	\$0.10	\$1.60	\$4.46	
OVERHEAD EXPENSES									
DOWNTIME		0.88 HR		\$5.97				\$5.97	
EMPLOYEE BENEFITS				\$6.77				\$6.77	
INSURANCE			\$0.75					\$0.75	
LAND TAXES						\$1.88		\$1.88	
SUPERVISION AND MANGEMENT				\$98.58				\$98.58	
OTHER EXPENSES			\$134.59					\$134.59	
SUBTOTAL		0.88 HR	\$135.34	\$111.32			\$1.88	\$248.54	
TOTAL OPERATING EXPENSES		7.77 HR	\$1,367.70	\$157.73	\$31.31	\$14.86	\$115.17	\$1,686.78	
NET OPERATING PROFIT								\$489.22	
INTEREST ON OPERATING CAPITAL	(	281.80	@	8.00%				\$22.54	
INTEREST ON EQUIPMENT INVESTMENT								\$266.54	
RETURN TO LAND AND RISK								\$200.13	

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

BUDGET SUMMARY

GROSS RETURN		\$2,176.00	
VARIABLE OPERATING EXPENSES	\$1,413.88		
RETURN OVER VARIABLE EXPENSES		\$762.12	(GROSS MARGIN)
FIXED EXPENSES	\$115.17		
NET FARM INCOME		\$646.95	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$157.73		
NET OPERATING PROFIT		\$489.22	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$289.08		
RETURN TO LAND AND RISK		\$200.13	

TABLE 9 Upland cotton (stripper), flood-irrigated, budgeted per acre costs and returns for a 200 acre farm with above average management, Carlsbad Basin, 2003.  
 Planting dates: April 15 - May 15  
 Harvesting dates: October 15 - January 15

ITEM	PRICE	YIELD						TOTAL
<b>GROSS RETURNS</b>								
COTTON LINT	\$0.470	980	LBS					\$460.60
COTTON SEED	\$0.08	1,568	LBS					\$117.60
DIRECT PAYMENT	\$0.0667	980	LBS					\$65.37
COUNTER CYCLICAL PAYMENT	\$0.1373	980	LBS					\$134.55
<b>TOTAL</b>								<b>\$778.12</b>
<b>PURCHASED INPUTS</b>								
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
SEED	\$0.51	20	LBS	\$10.20				\$10.20
NITROGEN (N)	\$0.36	20	LBS	\$7.20				\$7.20
PHOSPHATE (P205)	\$0.33	40	LBS	\$13.20				\$13.20
HERBICIDE	\$13.22	1	X/ACRE	\$13.22				\$13.22
INSECTICIDE (CUSTOM)	\$25.95	2	X/ACRE	\$51.89				\$51.89
CROP INSURANCE			FCIC	\$12.61				\$12.61
CANAL WATER		22	AC. IN.	\$41.00				\$41.00
PUMP WATER*		0	AC. IN.	\$0.00				\$0.00
<b>SUBTOTAL</b>				<b>\$149.33</b>				<b>\$149.33</b>
<b>PREHARVEST OPERATIONS</b>								
POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
PLOW	145 HP	0.67 HR		\$4.56	\$7.87	\$5.59	\$17.54	\$35.55
DISC	145 HP	0.17 HR		\$1.16	\$2.00	\$1.19	\$4.36	\$8.70
DRAG	96 HP	0.17 HR		\$1.16	\$1.63	\$0.44	\$1.78	\$5.01
DISC & SPRAY	145 HP	0.20 HR		\$1.36	\$2.35	\$1.40	\$5.13	\$10.23
LISTER	96 HP	0.18 HR		\$1.22	\$1.73	\$0.82	\$3.50	\$7.27
FERTILIZE	DEALER APPLIED							
PRE-IRRIGATE		0.75 HR		\$4.76	\$0.00	\$0.00	\$0.00	\$4.76
ROLLING CULTIVATOR	96 HP	0.21 HR		\$1.43	\$2.01	\$1.06	\$6.62	\$11.12
PLANTER	96 HP	0.26 HR		\$1.77	\$2.49	\$1.09	\$8.01	\$13.37
CULTIVATOR (4X)	27 HP	0.84 HR		\$5.71	\$2.30	\$1.69	\$3.81	\$13.51
IRRIGATE (2X)		1.00 HR		\$6.35	\$0.00	\$0.00	\$0.00	\$6.35
<b>SUBTOTAL</b>		<b>4.45 HR</b>		<b>\$29.47</b>	<b>\$22.37</b>	<b>\$13.27</b>	<b>\$50.76</b>	<b>\$115.87</b>
<b>HARVEST OPERATIONS</b>								
COTTON STRIPPER (CUSTOM)				\$175.81				\$175.81
HAUL	96 HP	0.75 HR		\$5.10	\$7.19	\$1.95	\$19.24	\$33.49
GIN COTTON (CUSTOM)				\$175.81				\$175.81
<b>SUBTOTAL</b>		<b>0.75 HR</b>		<b>\$351.62</b>	<b>\$5.10</b>	<b>\$7.19</b>	<b>\$19.24</b>	<b>\$385.11</b>
<b>POSTHARVEST OPERATIONS</b>								
SHREDDER	80 HP	0.29 HR		\$1.97	\$2.78	\$0.80	\$4.14	\$9.70
<b>SUBTOTAL</b>		<b>0.29 HR</b>		<b>\$1.97</b>	<b>\$2.78</b>	<b>\$0.80</b>	<b>\$4.14</b>	<b>\$9.70</b>
<b>OVERHEAD EXPENSES</b>								
DOWNTIME		0.94 HR		\$6.36				\$6.36
EMPLOYEE BENEFITS				\$6.58				\$6.58
INSURANCE				\$0.73				\$0.73
LAND TAXES						\$1.88		\$1.88
SUPERVISION AND MANGEMENT				\$57.75				\$57.75
OTHER EXPENSES				\$134.59				\$134.59
<b>SUBTOTAL</b>		<b>0.94 HR</b>		<b>\$135.32</b>	<b>\$70.69</b>		<b>\$1.88</b>	<b>\$207.89</b>
<b>TOTAL OPERATING EXPENSES</b>		<b>6.43 HR</b>		<b>\$636.27</b>	<b>\$107.23</b>	<b>\$32.35</b>	<b>\$16.03</b>	<b>\$76.02</b>
<b>NET OPERATING PROFIT</b>								<b>(\$89.78)</b>
INTEREST ON OPERATING CAPITAL	(	\$85.23	@	8.00%				)
INTEREST ON EQUIPMENT INVESTMENT								\$6.82
								\$48.84
<b>RETURN TO LAND AND RISK</b>								<b>(\$145.44)</b>

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

BUDGET SUMMARY

GROSS RETURN		\$778.12	
VARIABLE OPERATING EXPENSES	\$684.65		
RETURN OVER VARIABLE EXPENSES		\$93.47	(GROSS MARGIN)
FIXED EXPENSES	\$76.02		
NET FARM INCOME		\$17.45	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$107.23		
NET OPERATING PROFIT		(\$89.78)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$55.66		
RETURN TO LAND AND RISK		(\$145.44)	

TABLE 3. Equipment summary for a 200 acre flood-irrigated farm with above average management, Carlsbad Basin, 2003.

EQUIPMENT		VARIABLE COSTS						FIXED COSTS		
ITEM & SIZE	ANNUAL		TOTAL VALUE	FUEL AND LUBRICANT	REPAIR	FUEL,LUBE PER HR	REPAIR PER HR	DEPRECIATION	TOTAL TAXES PER HOUR	
	HOURS OF USE	NUMBER								
TRACTOR 27 HP	93	1	\$2,330	\$254	\$14	\$2.73	\$0.15	\$50	\$9	\$0.64
TRACTOR 96 HP	169	1	\$19,240	\$1,620	\$435	\$9.59	\$2.57	\$1,430	\$161	\$9.43
TRACTOR 145 HP	254	1	\$31,475	\$2,977	\$1,062	\$11.74	\$4.19	\$4,652	\$262	\$19.38
SWATHER 14 FT SP	80	1	\$4,300	\$389	\$46	\$4.87	\$0.58	\$1,450	\$109	\$19.49
BORDER DISC 6-DISC	33	1	\$300		\$12		\$0.37	\$40	\$2	\$1.27
DISC 12 FT	51	1	\$2,250		\$141		\$2.79	\$300	\$17	\$6.27
PLOW 3-16 IN	69	1	\$3,350		\$288		\$4.15	\$447	\$25	\$6.80
CULTIVATOR 4-ROW	54	1	\$1,500		\$101		\$1.86	\$200	\$11	\$3.90
DRILL 12 FT	8	1	\$2,200		\$9		\$1.06	\$220	\$17	\$28.70
PLANTER 4-ROW	17	1	\$3,400		\$28		\$1.63	\$340	\$26	\$21.38
DRAG 12 FT	18	1	\$250		\$0		\$0.01	\$17	\$2	\$1.04
LISTER 4-ROW	12	1	\$1,600		\$23		\$1.98	\$107	\$12	\$10.03
SHREDDER 2-ROW	19	1	\$1,250		\$4		\$0.20	\$83	\$9	\$4.86
BALER PTO 2-WIRE	126	1	\$1,500		\$19		\$0.15	\$385	\$29	\$3.29
RIPPER 7-SHANK	7	1	\$1,200		\$10		\$1.49	\$160	\$9	\$25.04
COTTON TRAILER	30	5	\$3,500		\$1		\$0.03	\$467	\$26	\$16.23
VEGETABLE TRAILER	5	1	\$700		\$0		\$0.03	\$93	\$5	\$19.72
HAY RAKE 1-REEL	48	1	\$750		\$10		\$0.21	\$100	\$6	\$2.20
ROLLING CULTIVATOR 4-ROW	13	1	\$2,000		\$32		\$2.48	\$267	\$15	\$22.08
ELECTRIC WELL	91	1	\$13,200	\$302	\$8	\$3.34	\$0.09	\$1,389	\$99	\$16.45
TOTAL			\$96,295	\$5,542	\$2,244			\$12,197	\$853	