

**Table 16A. Income and Cash Operating Summary; Spring Cantaloupe, 2001**

COUNTY: La Paz                      FARM: La Paz County                      WATER SOURCE: CRIR Irrigation Project                      TILLAGE: Double Crop  
 CROP: Cantaloupes                      ACRES: 1.0                      IRRIGATION SYSTEM: Flood Furrow                      SOIL: Sandy-Loam  
 AREA: Parker CRIR                      YIELD: 625.0 Ct / Acre                      PREVIOUS CROP: Cotton, Upland                      DATE: 8/22/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Melons	Crtm	625.00	\$6.98	\$4,362.50	\$4,362.50	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					94.45	_____
Tractor/Self Propelled				41.51		_____
Irrigation				46.04		_____
Other/ Contract				6.90		_____
Chemicals and Custom Applications					226.39	_____
Fertilizer				180.13		_____
Insecticide				41.33		_____
Other Chemicals				4.93		_____
Farm Machinery and Vehicles					51.02	_____
Diesel Fuel				24.49		_____
Repairs and Maintenance				26.53		_____
Irrigation Water (excluding labor)					0.00	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs &					188.06	_____
Seed/Transplants				20.06		_____
Other Services and Rentals				168.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					559.92	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					968.75	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					968.75	_____
OPERATING OVERHEAD -> PICKUP USE					13.69	_____
OPERATING INTEREST AT 10.0%					13.46	_____
TOTAL CASH OPERATING EXPENSES					\$1,555.82	_____
RETURNS OVER CASH OPERATING EXPENSES					\$2,806.68	_____

Notes: The above figures do not include ownership costs, see table B for detailed cost allocation.  
 \*\* A water assessment charge of \$19.25 per Acre is included as an ownership cost in Table B.

**Table 16B. Allocations of Ownership Costs; Spring Cantaloupe, 2001**

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop  
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam  
 AREA: Parker CRIR YIELD: 625.0 Ct / Acre PREVIOUS CROP: Cotton, Upland DATE: 8/22/01

Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$6.98 / Ct	\$4,362.50		\$4,362.50	
TOTAL OPERATING EXPENSES	\$1,555.82		\$1,555.82	
RETURN OVER CASH OPERATING EXPENSES		\$2,806.68		\$2,806.68
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	4.83		4.83	
General and Office Overhead (5.0%of Total Operating Exp.)	77.79		77.79	
General Farm Maintenance (3.0% of Total Operating Exp.)	46.67		46.67	
Total Cash Overhead Expenses	129.30		129.30	
Total Cash Operating and Overhead Cost	1,685.11		1,685.11	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		\$2,677.39		\$2,677.39
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			27.50	
Interest on Equity, Machinery and Vehicles			10.05	
Total Capital Allocations			37.56	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->		\$2,677.39		
RETURNS TO LAND, MANAGEMENT AND RISK ----->				\$2,639.83
Land Cost / Rent or Lease	150.00		150.00	
Water Assessment **	19.25		19.25	
Total Land Costs	169.25		169.25	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$2,508.14		
RETURNS TO MANAGEMENT AND RISK ----->				\$2,470.58
Management Services (8% of Total Operation Expenses)			124.47	
TOTAL OWNERSHIP COST	298.55		460.57	
TOTAL COST	\$1,854.36		\$2,016.38	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$2,508.14		
RETURNS TO RISK (PROFITS) ----->				\$2,346.12
Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST ( PER Lb )		\$2.49		\$2.49
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$0.48		\$0.74
BREAK-EVEN PRICE TO COVER TOTAL COST		\$2.97		\$3.23

**Table 16C. Variable Operating Costs; Spring Cantaloupe, 2001**

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop  
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam  
 AREA: Parker CRIR YIELD: 625.0 Ct / Acre PREVIOUS CROP: Cotton, Upland DATE: 8/22/01

No.	First Month	Operation	---- Hours * ----		---- Operating Costs (\$/ACRE *) Per Operation ----					Tot. Cash Expenses	Class	
			Machine	Labor	Fuel/Rps.	Labor	Cust/Serv.	Materials	Total			Times
1	Feb	Rip	0.450	0.500	7.84	4.39			12.23	1.0	12.23	L
2	Feb	Disk	0.150	0.167	3.15	1.47			4.61	2.0	9.22	L
3	Feb	Laser Level	0.450	1.000	7.38	8.22			15.60	1.0	15.60	L
4	Feb	Soil Fertility					3.00		3.00	1.0	3.00	G
5	Feb	Apply Fert/Ground	0.180	0.200	1.49	1.75		52.47	55.72	1.0	55.72	G
6	Mar	List	0.225	0.250	2.10	2.19			4.29	1.0	4.29	L
7	Mar	Plant	0.360	0.800	5.18	6.58		20.06	31.81	1.0	31.81	L
8	Mar	Buck Rows	0.023	0.025	0.10	0.22			0.32	1.0	0.32	G
9	Mar	Irrigate		0.667		5.12			5.12	9.0	46.04	G
10	Mar	Cultivate	0.225	0.250	1.55	2.19			3.74	7.0	26.18	G
11	Mar	Apply Fert/Ground	0.257	0.286	3.02	2.51		63.83	69.36	2.0	138.71	G
12	Apr	Apply Insecticide/Air					4.75	15.91	20.66	2.0	41.32	G
13	Apr	Apply Fungicide/Air					4.75	0.18	4.93	1.0	4.93	G
14	Apr	Hand Weeding					75.00		75.00	2.0	150.00	G
15	Apr	Pollinate					15.00		15.00	1.0	15.00	G
16	May	Harvest 625 Ct					968.75		968.75	1.0	968.75	H
17	May	Disk Residue 625 Ct	0.180	0.200	3.78	1.75			5.53	1.0	5.53	L
		Pickup Use 50 Mi/Acre	1.667		13.69						13.69	
		Operating Interest at 10.0					13.46				13.46	
TOTAL CASH OPERATING EXPENSES (includes all times over):											1555.82	T

\*NOTES: Machine and labor hours and operating cost are for one time over the designated acreage. The "Tot. Cash Expense" column and the "TOTAL CASH OPERATING EXPENSES" row include all operations, all times over. Classes are defined below. A water assessment charge of \$19.25 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS		SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE)						
		Prices ->	- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Land Preparation (L)	78.68	Yields	\$5.24	\$6.28	\$6.98	\$7.68	\$8.73	Break-even Price
Growing (G)	481.24	- 25%	468.8	994.24	1,485.02	1,812.21	2,139.40	2,630.18
Harvest (H)	968.75	- 10%	562.5	1,339.71	1,928.65	2,321.27	2,713.90	3,302.83
Post Harvest (P)	0.00	Budgeted	625.0	1,570.02	2,224.40	2,660.65	3,096.90	3,751.27
Marketing (M)	0.00	+ 10%	687.5	1,800.33	2,520.15	3,000.02	3,479.90	4,199.71
Operating Overhead (O)	27.15	+ 25%	781.3	2,145.80	2,963.77	3,509.08	4,054.40	4,872.37
Total (T)	\$1,555.82	Break-even Yield		198.94	154.92	135.01	119.63	102.17

**Table 16D. Resource and Cash Flow Requirements; Spring Cantaloupe, 2001**

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop  
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam  
 AREA: Parker CRIR YIELD: 625.0 Ct / Acre PREVIOUS CROP: Cotton, Upland DATE: 8/22/01

Month *	Number Irrigations	Water Applied (inches)	Total Labor (Hrs)	Operating Costs (\$/ACRE *)						
				Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total
FEB C			2.03		23.00	17.29	52.47		3.00	95.76
MAR C	3.0	18.0	4.11		15.04	33.42	63.83	20.06		132.35
APR C	3.0	18.0	3.04		7.66	24.43	79.93		174.50	286.52
MAY C	3.0	18.0	2.25		1.55	17.54	15.91		489.13	524.13
JUN C			0.20		3.78	1.75			484.38	489.91
Pickup Use 50 Mi/Acre					13.69					13.69
Operating Interest at 10.0 Water Assessment				**					13.46	13.46
<b>Total</b>	<b>9.0</b>	<b>54.0</b>	<b>11.63</b>		<b>64.72</b>	<b>94.43</b>	<b>212.14</b>	<b>20.06</b>	<b>1164.47</b>	<b>1555.82</b>
<b>%</b>					<b>4.16</b>	<b>6.07</b>	<b>13.64</b>	<b>1.29</b>	<b>74.85</b>	<b>100.00</b>

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 149.6  
 Total P 206.2  
 Total K 31.1  
 Total Labor 11.6  
 Total Water 54.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 26.6 Gal  
 Unleaded Gas 5.0 Gal  
 All Direct Energy 4.3 M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.36 Hr	Cultivator, Sweep, 4 Rw	1.57 Hr	Drag Scraper, 10'	0.45 Hr
Fertilizer Broadcaster,	0.18 Hr	Fertilizer Injector, 4 Row	0.51 Hr	Laser, Complete System	0.45 Hr
Lister, 5 Bottom	0.22 Hr	Offset Disk, 18'	0.48 Hr	Pickup Truck, 1/2 Ton	1.67 Hr
Planter, Drill Type, 4 Row	0.36 Hr	Rowbuck, 10'	0.02 Hr	Tractor, 50 PTO HP,	0.02 Hr
Tractor, 70 PTO HP,	1.57 Hr	Tractor, 100 PTO HP,	1.28 Hr	Tractor, 200 PTO HP, 4WD	1.38 Hr
V-Ripper, 5 Shnk	0.45 Hr				

MATERIALS REQUIREMENT (per Acre)

11-48-00, Dry	300.00 Lb	15-08-04, Lqd	70.00 Ga	Cantaloupe Sd	2.00 Lb
Endosulfan	3.00 Pt	Esfenvalerate	1.00 Pt	Sulfur	0.25 Lb
Water, District	54.00 Al				

LABOR REQUIREMENT (per Acre)

Irrigators	6.00 Hr	Other	0.90 Hr	Tractor	4.73 Hr
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\*NOTE: P = Previous Year C = Current Year N = Next Year

\*\* A water assessment charge of \$19.25 per Acre is included as an ownership cost in Table B.

**Table 16E. Schedule of Operations; Spring Cantaloupe, 2001**

COUNTY: La Paz      FARM: La Paz County      WATER SOURCE: CRIR Irrigation Project      TILLAGE: Double Crop  
 CROP: Cantaloupes      ACRES: 1.0      IRRIGATION SYSTEM: Flood Furrow      SOIL: Sandy-Loam  
 AREA: Parker CRIR      YIELD: 625.0 Ct / Acre      PREVIOUS CROP: Cotton, Upland      DATE: 8/22/01

First No.	Month	Times	Operation	Equipment/ Custom Oper		Job Rate	Material Use and Cost				Service Cost	Labor Type
				HP	Self-Prop./ Implement		Acres/Hr	Name	Appl. Rate	\$ / Unit		
Feb	1.0	Rip	200 V-Ripper, 5 Shnk		2.00							Tractor
Feb	2.0	Disk	200 Offset Disk, 18'		6.00							Tractor
Feb	1.0	Laser Level	200 Drag Scraper, 10'		2.00							Tractor
			Laser, Complete System									Other
Feb	1.0	Soil Fertility	CST Soil Analysis (Surface)							3.00	Ac	
Feb	1.0	Apply Fert/Ground	100 Fertilizer Broadcaster,		5.00	11-48-00, Dry	300.00	Lb	330.00	Tn		Tractor
Mar	1.0	List	100 Lister, 5 Bottom		4.00							Tractor
Mar	1.0	Plant	100 Planter, Drill Type, 4 Row		2.50	Cantaloupe Sd	2.00	Lb	9.46	Lb		Tractor
			Bed Shaper, 4 Rw									Other
Mar	1.0	Buck Rows	50 Rowbuck, 10'		40.00							Tractor
Mar	9.0	Irrigate			1.50	Water, District	6.00	Al	0.00	AF		Irrigators
Mar	7.0	Cultivate	70 Cultivator, Sweep, 4 Rw		4.00							Tractor
Mar	2.0	Apply Fert/Ground	100 Fertilizer Injector, 4 Row		3.50	15-08-04, Lqd	35.00	Ga	310.00	Tn		Tractor
Apr	2.0	Apply Insecticide/Air	CST Air Spray, 5 Gal Mix			Esfenvalerate	0.50	Pt	140.69	Ga	4.75	Ac
						Endosulfan	1.50	Pt	33.17	Ga		
						Sulfur	0.25	Lb	0.69	Lb		
Apr	1.0	Apply Fungicide/Air	CST Air Spray, 5 Gal Mix								4.75	Ac
Apr	2.0	Hand Weeding	CST Hand Weeding								75.00	Ac
Apr	1.0	Pollinate	CST Bee Hive Rental								15.00	Ac
May	1.0	Harvest	CST Harv/pack/haul Melons								1.55	Ct
May	1.0	Disk Residue	200 Offset Disk, 18'		5.00							Tractor
		Pickup use 50 Mi/Ac	Pickup Truck, 1/2 Ton		0.60							

\*NOTES: Machine times, labor times, and material rates are for one time over the designated acreage.

**Table 16F Operations Calendar; Spring Cantaloupe, 2001**

COUNTY: La Paz      FARM: Western Arizona Vegetables      WATER SOURCE: CRIR      TILLAGE: Double Crop  
 CROP: Cantaloupes      ACRES: 1      IRRIGATION SYSTEM: Flood Furrow      SOIL: Sandy-Loam  
 AREA: Parker      YIELD: 625 Ct/Acre      PREVIOUS CROP: Cotton, Upland      DATE: 03/25/2001

No.	Operation	Month and Times Operation Performed											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip		1 C										
2	Disk		2 C										
3	Laser Level		1 C										
4	Soil Fertility		1 C										
5	Apply Fert/Ground		1 C										
6	List			1 C									
7	Plant			1 C									
8	Buck Rows			1 C									
9	Irrigate			3 C	3 C	3 C							
10	Cultivate			3 C	3 C	1 C							
11	Apply Fert/Ground			1 C	1 C								
12	Apply Insecticide/Air					1 C	1 C						
13	Apply Fungicide/Air				1 C								
14	Hand Weeding				2 C								
15	Pollinate				1 C								
16	Harvest					.5 C	.5 C						
17	Disk Residue						1 C						

\* NOTE: P = Previous Year    C = Current Year    N = Next Year