

**Table 15A. Income and Cash Operating Summary; Fall Cantaloupe, 1998**

COUNTY: La Paz                      FARM: LaPaz County 98                      WATER SOURCE: CRIR Irrigation Project                      TILLAGE: Double Crop  
 CROP: Cantaloupes                      ACRES: 1.0                      IRRIGATION SYSTEM: Flood Furrow                      SOIL: Sandy-Loam  
 AREA: Parker CRIR                      YIELD: 167.0 Ct / Acre                      PREVIOUS CROP: Alfalfa Hay                      DATE: 12/14/98

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget	
INCOME	Melons	Crtn	167.00	\$18.77	\$3,134.59	\$3,134.59	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)							
Paid Labor (including benefits)					87.13	_____	
Tractor/Self Propelled					46.57	_____	
Irrigation					37.73	_____	
Other/ Contract					2.83	_____	
Chemicals and Custom Applications					301.99	_____	
Fertilizer					105.36	_____	
Insecticide					146.12	_____	
Herbicide					50.51	_____	
Farm Machinery and Vehicles					54.74	_____	
Diesel Fuel					21.00	_____	
Repairs and Maintenance					33.74	_____	
Irrigation Water (excluding labor)					51.67	_____	
Water Assessment (See Note Below) **						_____	
Other Purchased Inputs &					189.04	_____	
Seed/Transplants					15.04	_____	
Other Services and Rentals					174.00	_____	
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					684.56	_____	
CASH HARVEST AND POST HARVEST EXPENSES							
Custom Harvest/Post Harvest					300.60	_____	
Other Materials					123.91	_____	
TOTAL HARVEST AND POST HARVEST EXPENSE					424.51	_____	
OPERATING OVERHEAD PICKUP USE					7.69	_____	
OPERATING INTEREST AT 10.0%					8.66	_____	
TOTAL CASH OPERATING EXPENSES					\$1,125.42	=====	
RETURNS OVER CASH OPERATING EXPENSES					\$2,009.17	_____	

Notes: The above figures do not include ownership costs, see table B for detailed cost allocation.

\*\* A water assessment charge of \$17.25 per Acre is included as an ownership cost in Table B.

**Table 15B. Allocations of Ownership Costs; Fall Cantaloupe, 1998**

COUNTY: La Paz      FARM: LaPaz County 98      WATER SOURCE: CRIR Irrigation Project      TILLAGE: Double Crop  
 CROP: Cantaloupes      ACRES: 1.0      IRRIGATION SYSTEM: Flood Furrow      SOIL: Sandy-Loam  
 AREA: Parker CRIR      YIELD: 167.0 Ct / Acre      PREVIOUS CROP: Alfalfa Hay      DATE: 12/14/98

Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$18.77 / Ct	\$3,134.59		\$3,134.59	
TOTAL OPERATING EXPENSES	\$1,125.42		\$1,125.42	
RETURN OVER CASH OPERATING EXPENSES		\$2,009.17		\$2,009.17
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	5.01		5.01	
General and Office Overhead (5.0% of Total Operating Exp.)	56.27		56.27	
General Farm Maintenance (3.0% of Total Operating Exp.)	33.76		33.76	
Total Cash Overhead Expenses	95.04		95.04	
Total Cash Operating and Overhead Cost	1,220.47		1,220.47	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		\$1,914.12		\$1,914.12
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			29.03	
Interest on Equity, Machinery and Vehicles			12.06	
Total Capital Allocations			41.09	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->		\$1,914.12		
RETURNS TO LAND, MANAGEMENT AND RISK ----->				\$1,873.04
Land Cost / Rent or Lease	150.00		150.00	
Water Assessment	17.25		17.25	
Total Land Costs	167.25		167.25	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$1,746.87		
RETURNS TO MANAGEMENT AND RISK ----->				\$1,705.79
Management Services ( 8% of Total Operation Expenses)			90.03	
TOTAL OWNERSHIP COST	262.29		393.42	
TOTAL COST	\$1,387.72		\$1,518.84	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$1,746.87		
RETURNS TO RISK (PROFITS) ----->				\$1,615.75
BREAK-EVEN PRICE TO COVER OPERATING COST ( PER Lb )		\$6.74		\$6.74
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$1.57		\$2.36
BREAK-EVEN PRICE TO COVER TOTAL COST		\$8.31		\$9.09

**Table 15C. Variable Operating Costs; Fall Cantaloupe, 1998**

COUNTY: La Paz FARM: LaPaz County 98 WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop  
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam  
 AREA: Parker CRIR YIELD: 167.0 Ct / Acre PREVIOUS CROP: Alfalfa Hay DATE: 12/14/98

No.	First Month	Operation	--- Hours * ---		--- Operating Costs (\$/ACRE *) Per Operation ---					Tot. Cash Expense	Class	
			Machine	Labor	Fuel/Rps.	Labor	Cust/Serv.	Materials	Total			Times
1	Jun	Rip	0.225	0.250	3.55	2.12			5.67	0.5	2.84	L
2	Jun	Disk	0.150	0.167	2.75	1.42			4.16	2.0	8.32	L
3	Jun	Plow	0.450	0.500	7.89	4.24			12.12	1.0	12.12	L
4	Jun	Laser Level	0.450	0.500	5.97	4.24			10.21	0.5	5.10	L
5	Jun	Soil Fertility					3.00		3.00	1.0	3.00	G
6	Jun	Apply Fert/Ground	0.180	0.200	1.82	1.69		34.98	38.50	1.0	38.50	G
7	Jun	List	0.225	0.250	3.11	2.12			5.23	1.0	5.23	L
8	Jul	Plant	0.360	0.800	5.84	6.22		15.04	27.10	1.0	27.10	L
9	Jul	Apply Herbicide/Ground	0.225	0.250	1.75	2.12		50.51	54.38	1.0	54.38	G
10	Jul	Apply Insect./Ground	0.180	0.200	1.36	1.69		24.50	27.56	1.0	27.56	G
11	Jul	Buck Rows	0.045	0.050	0.30	0.42			0.73	5.0	3.64	G
12	Jul	Irrigate		0.667		4.72		6.46	11.17	7.0	78.22	G
13	Jul	Cultivate	0.225	0.250	1.74	2.12			3.86	9.0	34.73	G
14	Jul	Plant Fertility					6.00		6.00	1.0	6.00	G
15	Jul	Irrigate/Run Fertilizer		0.667		4.72		36.88	41.60	1.0	41.60	G
16	Jul	Thinning					75.00		75.00	1.0	75.00	G
17	Aug	Apply Insecticide/Air					4.23	56.58	60.81	2.0	121.62	G
18	Aug	Hand Weeding					75.00		75.00	1.0	75.00	G
19	Aug	Apply Fert/Ground	0.257	0.286	3.49	2.42		39.96	45.88	1.0	45.88	G
20	Aug	Pollinate					15.00		15.00	1.0	15.00	G
21	Sep	Pick and Load 167 Ct					258.85	123.91	382.76	1.0	382.76	H
22	Sep	Haul, Custom 167 Ct					41.75		41.75	1.0	41.75	H
23	Sep	Disk Residue 167 Ct	0.180	0.200	3.30	1.69			4.99	1.0	4.99	L
		Pickup Use30 Mi/Acre	1.000		7.69				7.69		7.69	
		Operating Interest at 10.0					8.66		8.66		8.66	
TOTAL CASH OPERATING EXPENSES (includes all times over):					63.06	86.49	491.72	484.15			1125.42	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 \$17.25 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS

Land Preparation (L)	65.71
Growing (G)	618.85
Harvest (H)	424.51
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	16.35
Total (T)	\$1,125.42

SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE)

		Prices	- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields			\$14.08	\$16.89	\$18.77	\$20.65	\$23.46	Break-even Price
- 25%	125.3	742.67	1,095.31	1,330.40	1,565.50	1,918.14	8.15	
- 10%	150.3	1,031.63	1,454.80	1,736.92	2,019.03	2,442.20	7.21	
Budgeted	167.0	1,224.28	1,694.46	2,007.92	2,321.38	2,791.57	6.75	
+ 10%	183.7	1,416.92	1,934.13	2,278.93	2,623.74	3,140.94	6.36	
Break-even Yield			60.87	48.93	43.27	38.78	33.56	

**Table 15D. Resource and Cash Flow Requirements; Fall Cantaloupe, 1998**

COUNTY: La Paz FARM: LaPaz County 98 WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop  
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam  
 AREA: Parker CRIR YIELD: 167.0 Ct / Acre PREVIOUS CROP: Alfalfa Hay DATE: 12/14/98

Month *	Number Irrigations	Water Applied (inches)	Total Labor (Hrs)	Operating Costs (\$/ACRE *)						
				Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total
JUN C			1.66		24.49	33.40	34.98		3.00	95.87
JUL C	4.0	20.0	4.77	25.83	20.54	39.60	105.43	15.04	81.00	287.44
AUG C	4.0	20.0	3.85	25.83	5.42	9.68	96.54		94.23	231.70
SEP C			0.95		4.92	3.81	56.58	123.91	304.83	494.06
Pickup Use30 Mi/Acre					7.69					7.69
Operating Interest at 10.0									8.66	8.66
Water Assessment				**						
<b>Total</b>	<b>8.0</b>	<b>40.0</b>	<b>11.23</b>	<b>51.66</b>	<b>63.06</b>	<b>86.49</b>	<b>293.53</b>	<b>138.95</b>	<b>491.72</b>	<b>1125.41</b>
<b>%</b>				<b>4.59</b>	<b>5.60</b>	<b>7.69</b>	<b>26.08</b>	<b>12.35</b>	<b>43.69</b>	<b>100.00</b>

TOTAL RESOURCE REQUIREMENTS ( per Acre)

Total N 158.2  
 Total P 126.0  
 Total K 15.0  
 Total Labor 11.2  
 Total Water 40.0

TOTAL ENERGY REQUIREMENTS ( per Acre)

Diesel Fuel 25.6 Gal  
 Unleaded Gas 3.0 Gal  
 All Direct Energy 3.9 MBTU

EQUIPMENT REQUIREMENTS ( per Acre)

Bed Shaper, 4 Rw 0.36 Hr	Cultivator, Sweep, 4 Rw 2.02 Hr	Directed Spray Rig, 8 0.18 Hr
Drag Scraper, 14' 0.22 Hr	Fertilizer Broadcaster, 0.18 Hr	Fertilizer Injector, 4 Row 0.26 Hr
Laser, Complete System 0.22 Hr	Lister, 5 Bottom 0.22 Hr	Moldboard Plow, 4-16 2 0.45 Hr
Offset Disk, 13.5' 0.00 Hr	Offset Disk, 16.5' 0.48 Hr	Pickup Truck, 1/2 Ton 1.00 Hr
Planter, Drill Type, 4 Row 0.36 Hr	Rowbuck, 10' 0.23 Hr	Saddle Tk Sprayer, 2 Tk 8 0.22 Hr
Tractor, 70 PTO HP 2.65 Hr	Tractor, 100 PTO HP 0.80 Hr	Tractor, 125 PTO HP 0.45 Hr
Tractor, 150 PTO HP 1.04 Hr	V-Ripper, 5 Shnk 0.11 Hr	

MATERIALS REQUIREMENT ( per Acre)

10-10-05, Lqd 30.00 Ga	11-48-00, Dry 200.00 Lb	32-00-00, URAN 32, Lqd 30.00 Ga
Abamectin 10.00 Oz	Bensulide 10.00 Pt	Bifenthrin 10.00 Oz
Cantaloupe Cartons 167.00 Ct	Cantaloupe Sd 1.50 Lb	Endosulfan 2.00 Pt
Imidacloprid 5.00 Oz	Water, District 40.00 Al	

LABOR REQUIREMENT ( per Acre)

Irrigators 5.34 Hr	Other 0.40 Hr	Tractor 5.49 Hr
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\*NOTE: P = Previous Year C = Current Year N = Next Year

\*\* A water assessment charge of \$17.25 per Acre is included as an ownership cost in Table B.

**Table 15E. Schedule of Operations; Fall Cantaloupe, 1998**

COUNTY: La Paz FARM: LaPaz County 98 WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop  
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam  
 AREA: Parker CRIR YIELD: 167.0 Ct / Acre PREVIOUS CROP: Alfalfa Hay DATE: 12/14/98

First No.	Month	Times	Operation	Equipment/ Custom Oper		Job Rate Acre/Hr	Material Use and Cost				Service Cost \$ / Unit	Labor Type
				HP	Self-Prop./ Implement		Name	Appl. Rate	\$ / Unit			
1	Jun	0.5	Rip	150	V-Ripper, 5 Shnk	4.00						Tractor
2	Jun	2.0	Disk	150	Offset Disk, 16.5'	6.00						Tractor
3	Jun	1.0	Plow	150	Moldboard Plow, 4-16 2	2.00						Tractor
4	Jun	0.5	Laser Level	125	Drag Scraper, 14' Laser, Complete System	2.00						Tractor
5	Jun	1.0	Soil Fertility		CST Soil Analysis (Surface)						3.00 Ac	
6	Jun	1.0	Apply Fert/Ground	100	Fertilizer Broadcaster,	5.00	11-48-00, Dry	200.00	Lb	330.00	Tn	Tractor
7	Jun	1.0	List	125	Lister, 5 Bottom	4.00						Tractor
8	Jul	1.0	Plant	100	Planter, Drill Type, 4 Row Bed Shaper, 4 Rw	2.50	Cantaloupe Sd	1.50	Lb	9.46	Lb	Tractor Other
9	Jul	1.0	Apply Herbicide/Ground	70	Saddle Tk Sprayer, 2 Tk 8	4.00	Bensulide	10.00	Pt	38.12	Ga	Tractor
10	Jul	1.0	Apply Insect./Ground	70	Directed Spray Rig, 8 Row	5.00	Imidacloprid	5.00	Oz	591.67	Ga	Tractor
11	Jul	5.0	Buck Rows	70	Rowbuck, 10'	20.00						Tractor
12	Jul	7.0	Irrigate			1.50	Water, District	5.00	Al	15.50	AF	Irrigators
13	Jul	9.0	Cultivate	70	Cultivator, Sweep, 4 Rw	4.00						Tractor
14	Jul	1.0	Plant Fertility		CST Plant Tissue Anal.(Petiole)						6.00 Ac	
15	Jul	1.0	Irrigate/Run Fertilizer			1.50	Water, District 32-00-00, URAN 32,	5.00	Al	15.50	AF	Irrigators
								30.00	Ga	173.00	Tn	
16	Jul	1.0	Thinning		CST Thinning						75.00 Ac	
17	Aug	2.0	Apply Insecticide/Air		CST Air Spray, 3 Gal Mix		Bifenthrin	5.00	Oz	549.00	Ga	4.23 Ac
							Endosulfan	1.00	Pt	34.80	Ga	
							Abamectin	5.00	Oz	706.00	Ga	
18	Aug	1.0	Hand Weeding		CST Hand Weeding						75.00 Ac	
19	Aug	1.0	Apply Fert/Ground	100	Fertilizer Injector, 4 Row	3.50	10-10-05, Lqd	30.00	Ga	251.33	Tn	Tractor
20	Aug	1.0	Pollinate		CST Bee Hive Rental						15.00 Ac	
21	Sep	1.0	Pick and Load		CST Cut & Load Melons		Cantaloupe Cartons	167.00	Ct	0.70	Ct	1.55 Ct
22	Sep	1.0	Haul, Custom		CST Haul Melons						0.25 Ct	
23	Sep	1.0	Disk Residue	150	Offset Disk, 16.5'	5.00						Tractor
			Pickup use 30 Mi/Ac		Pickup Truck, 1/2 Ton	1.00						

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