

Table 15A. Income and Cash Operating Summary; Fall Honeydews, 2001

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop
 CROP: Honeydew Melons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 514.0 Ct / Acre PREVIOUS CROP: Cantaloupes DATE: 8/22/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Melons	Crtm	514.00	\$3.33	\$1,711.62	\$1,711.62	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					91.10	_____
Tractor/Self Propelled				47.11		_____
Irrigation				40.92		_____
Other/ Contract				3.07		_____
Chemicals and Custom Applications					304.31	_____
Fertilizer				104.98		_____
Insecticide				142.91		_____
Herbicide				56.42		_____
Farm Machinery and Vehicles					52.28	_____
Diesel Fuel				24.95		_____
Repairs and Maintenance				27.33		_____
Irrigation Water (excluding labor)					0.00	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs &					206.23	_____
Seed/Transplants				32.23		_____
Other Services and Rentals				174.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					653.92	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					773.45	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					773.45	_____
OPERATING OVERHEAD -> PICKUP USE					13.69	_____
OPERATING INTEREST AT 10.0%					5.49	_____
TOTAL CASH OPERATING EXPENSES					\$1,446.55	_____
RETURNS OVER CASH OPERATING EXPENSES					\$265.07	_____

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 15B. Allocations of Ownership Costs; Fall Honeydews, 2001

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop
 CROP: Honeydew Melons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 514.0 Ct / Acre PREVIOUS CROP: Cantaloupes DATE: 8/22/01

88

Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$3.33 / Ct	\$1,711.62		\$1,711.62	
TOTAL OPERATING EXPENSES	\$1,446.55		\$1,446.55	
RETURN OVER CASH OPERATING EXPENSES		\$265.07		\$265.07
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	4.98		4.98	
General and Office Overhead (5.0%of Total Operating Exp.)	72.33		72.33	
General Farm Maintenance (3.0% of Total Operating Exp.)	43.40		43.40	
Total Cash Overhead Expenses	120.71		120.71	
Total Cash Operating and Overhead Cost	1,567.26		1,567.26	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		\$144.36		\$144.36
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			28.25	
Interest on Equity, Machinery and Vehicles			10.17	
Total Capital Allocations			38.42	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->		\$144.36		
RETURNS TO LAND, MANAGEMENT AND RISK ----->				\$105.94
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 ----->		(\$24.89)		
RETURNS TO MANAGEMENT AND RISK ----->				(\$63.31)
Management Services (8% of Total Operation Expenses)			115.72	
TOTAL OWNERSHIP COST	289.96		444.10	
TOTAL COST	\$1,736.51		\$1,890.65	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		(\$24.89)		
RETURNS TO RISK (PROFITS) ----->				(\$179.03)
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)		\$2.81		\$2.81
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$0.56		\$0.86
BREAK-EVEN PRICE TO COVER TOTAL COST		\$3.38		\$3.68

Table 15C. Variable Operating Costs; Fall Honeydews, 2001

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop
 CROP: Honeydew Melons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 514.0 Ct / Acre PREVIOUS CROP: Cantaloupes DATE: 8/22/01

68

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	Jun	Rip	0.225	0.250	3.92	2.19			6.11	1.0	6.11	L
2	Jun	Disk	0.150	0.167	3.15	1.47			4.61	2.0	9.22	L
3	Jun	Laser Level	0.450	0.500	7.38	4.39			11.77	1.0	11.77	L
4	Jun	Soil Fertility					3.00		3.00	1.0	3.00	G
5	Jun	Apply Fert/Ground	0.180	0.200	1.49	1.75		34.98	38.23	1.0	38.23	G
6	Jun	List	0.225	0.250	2.10	2.19			4.29	1.0	4.29	L
7	Jul	Plant	0.360	0.800	5.18	6.58		32.23	43.99	1.0	43.99	L
8	Jul	Apply Herbicide/Ground	0.225	0.250	1.24	2.19		56.42	59.85	1.0	59.85	G
9	Jul	Apply Insect./Ground	0.180	0.200	0.95	1.75		24.36	27.07	1.0	27.07	G
10	Jul	Buck Rows	0.045	0.050	0.20	0.44			0.64	5.0	3.20	G
11	Jul	Irrigate		0.667		5.12			5.12	7.0	35.81	G
12	Jul	Cultivate	0.225	0.250	1.55	2.19			3.74	9.0	33.67	G
13	Jul	Plant Fertility					6.00		6.00	1.0	6.00	G
14	Jul	Irrigate/Run Fertilizer	0.600	0.667	2.00	5.12		30.04	37.15	1.0	37.15	G
15	Jul	Thinning					75.00		75.00	1.0	75.00	G
16	Aug	Apply Insecticide/Air					4.24	55.03	59.27	2.0	118.54	G
17	Aug	Hand Weeding					75.00		75.00	1.0	75.00	G
18	Aug	Apply Fert/Ground	0.257	0.286	3.02	2.51		39.96	45.49	1.0	45.49	G
19	Aug	Pollinate					15.00		15.00	1.0	15.00	G
20	Sep	Harvest 499 Ct					773.45		773.45	1.0	773.45	H
21	Sep	Disk Residue 499 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					5.49				5.49	
TOTAL CASH OPERATING EXPENSES (includes all times over):											1446.55	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

Land Preparation (L)	80.91
Growing (G)	573.01
Harvest (H)	773.45
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	19.18
Total (T)	\$1,446.55

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

Prices ->	Yields		- 25%	- 10%	Budgeted	+ 10%	+ 25%	Break-even Price
			\$2.50	\$3.00	\$3.33	\$3.66	\$4.16	
- 25%	385.5		-293.39	-100.83	27.54	155.91	348.47	3.26
- 10%	462.6		-216.85	14.22	168.26	322.31	553.38	2.97
Budgeted	514.0		-165.82	90.92	262.08	433.24	689.99	2.82
+ 10%	565.4		-114.80	167.62	355.90	544.18	826.59	2.70
Break-even Yield			681.04	453.07	370.41	313.26	254.39	

Table 15D. Resource and Cash Flow Requirements; Fall Honeydews, 2001

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop
 CROP: Honeydew Melons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 514.0 Ct / Acre PREVIOUS CROP: Cantaloupes 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
JUN C			1.53		21.18	13.46	34.98		3.00	72.62
JUL C	4.0	20.0	4.77		14.42	38.44	110.82	32.23	81.00	276.91
AUG C	4.0	20.0	3.85		8.26	30.87	95.00		94.24	228.37
SEP C			0.95		8.42	8.33	55.03		777.69	849.47
Pickup Use 50 Mi/Acre					13.69					13.69
Operating Interest at 10.0									5.49	5.49
Water Assessment				**						
Total	8.0	40.0	11.11		65.97	91.10	295.83	32.23	961.42	1446.55
%					4.56	6.30	20.45	2.23	66.46	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 158.2
 Total P 126.0
 Total K 15.0
 Total Labor 11.1
 Total Water 40.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 27.1 Gal
 Unleaded Gas 5.0 Gal
 All Direct Energy 4.4 M BTU

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, 10'	0.45 Hr	Fertilizer Broadcaster,	0.18 Hr	Fertilizer Injector, 4 Row	0.26 Hr
Laser, Complete System	0.45 Hr	Lister, 5 Bottom	0.22 Hr	Offset Disk, 13.5'	0.00 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'	0.23 Hr	Saddle Tk Sprayer, 2 Tk 8	0.22 Hr	Tractor, 35 PTO HP	0.60 Hr
Tractor, 50 PTO HP,	0.63 Hr	Tractor, 70 PTO HP,	2.02 Hr	Tractor, 100 PTO HP,	1.02 Hr
Tractor, 200 PTO HP, 4WD	1.15 Hr	V-Ripper, 5 Shnk	0.22 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
Endosulfan	2.00 Pt	Honeydew Seeds	1.50 Th	Imidacloprid	5.00 Oz
Water, District	40.00 Al				

LABOR REQUIREMENT (per Acre)

Irrigators	5.34 Hr	Other	0.40 Hr	Tractor	5.37 Hr
------------	---------	-------	---------	---------	---------

*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 15E. Schedule of Operations; Fall Honeydews, 2001

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop
 CROP: Honeydew Melons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 514.0 Ct / Acre PREVIOUS CROP: Cantaloupes DATE: 8/22/01

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				
Jun	1.0	Rip	200	V-Ripper, 5 Shnk	4.00						Tractor	
Jun	2.0	Disk	200	Offset Disk, 18'	6.00						Tractor	
Jun	1.0	Laser Level	200	Drag Scraper, 10'	2.00						Tractor	
Jun	1.0	Soil Fertility		Laser, Complete System CST Soil Analysis (Surface)						3.00	Ac	
Jun	1.0	Apply Fert/Ground	100	Fertilizer Broadcaster,	5.00	11-48-00, Dry	200.00	Lb	330.00	Tn	Tractor	
Jun	1.0	List	100	Lister, 5 Bottom	4.00						Tractor	
Jul	1.0	Plant	100	Planter, Drill Type, 4 Row Bed Shaper, 4 Rw	2.50	Honeydew Seeds	1.50	Th	20.27	Th	Tractor Other	
Jul	1.0	Apply Herbicide/Ground	50	Saddle Tk Sprayer, 2 Tk 8	4.00	Bensulide	10.00	Pt	42.58	Ga	Tractor	
Jul	1.0	Apply Insect./Ground	50	Directed Spray Rig, 8 Row	5.00	Imidacloprid	5.00	Oz	588.40	Ga	Tractor	
Jul	5.0	Buck Rows	50	Rowbuck, 10'	20.00						Tractor	
Jul	7.0	Irrigate	1.50	Water, District	5.00		5.00	Al	0.00	AF	Irrigators	
Jul	9.0	Cultivate	70	Cultivator, Sweep, 4 Rw	4.00						Tractor	
Jul	1.0	Plant Fertility		CST Plant Tissue Anal.(Petiole)						6.00	Ac	
Jul	1.0	Irrigate/Run Fertilizer		Tractor, 35 PTO HP	1.50	Water, District	5.00	Al	0.00	AF	Irrigators	
Jul	1.0	Thinning		CST Thinning		32-00-00, URAN 32,	30.00	Ga	170.80	Tn	75.00	Ac
Aug	2.0	Apply Insecticide/Air		CST Air Spray, 3 Gal Mix		Bifenthrin	5.00	Oz	490.00	Ga	4.24	Ac
						Endosulfan	1.00	Pt	33.17	Ga		
						Abamectin	5.00	Oz	732.91	Ga		
Aug	1.0	Hand Weeding		CST Hand Weeding						75.00	Ac	
Aug	1.0	Apply Fert/Ground	100	Fertilizer Injector, 4 Row	3.50	10-10-05, Lqd	30.00	Ga	251.33	Tn	Tractor	
Aug	1.0	Pollinate		CST Bee Hive Rental						15.00	Ac	
Sep	1.0	Harvest		CST Harv/pack/haul Melons						1.55	Ct	
Sep	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 15F Operations Calendar; Fall Honeydews, 2001

COUNTY: La Paz FARM: Western Arizona Vegetables WATER SOURCE: CRIR TILLAGE: Double Crop
 CROP: Honeydews ACRES: 1 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker YIELD: 499 Ct/Acre PREVIOUS CROP: Cantaloupe 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	Apply Herbicide/Ground							1 C					
9	Apply Insect/Ground								1 C				
10	Buck Rows							2 C	3 C				
11	Irrigate							3 C	4 C				
12	Cultivate							3 C	3 C	3 C			
13	Plant Fertility							1 C					
14	Irrigate/Run Fertilizer							1 C					
15	Thinning							1 C					
16	Apply Insecticide/Air									1 C	1 C		
17	Hand Weeding								1 C				
18	Apply Fert/Ground								1 C				
19	Pollinate								1 C				
20	Harvest										1 C		
21	Disk Residue										1 C		

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