

Table 8A. Income and Cash Operating Summary; Spring Cantaloupe, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 811.0 Ct / Acre PREVIOUS CROP: Lettuce, Iceberg DATE: 8/13/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Melons	Crtm	811.00	\$6.98	\$5,660.78	\$5,660.78	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					89.20	_____
Tractor/Self Propelled				50.35		_____
Irrigation				38.86		_____
Chemicals and Custom Applications					381.12	_____
Fertilizer				180.13		_____
Insecticide				98.29		_____
Herbicide				56.42		_____
Other Chemicals				46.28		_____
Farm Machinery and Vehicles					59.79	_____
Diesel Fuel				25.72		_____
Repairs and Maintenance				34.07		_____
Irrigation Water (excluding labor)					0.00	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs &					263.06	_____
Seed/Transplants				20.06		_____
Other Services and Rentals				243.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					793.17	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					3392.00	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					3392.00	_____
OPERATING OVERHEAD -> PICKUP USE					13.17	_____
OPERATING INTEREST AT 10.0%					28.31	_____
TOTAL CASH OPERATING EXPENSES					\$4,226.65	_____
RETURNS OVER CASH OPERATING EXPENSES					\$1,434.13	_____

Notes: The above figures do not include ownership costs, see table B for detailed cost allocation.
 ** A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

Table 8B. Allocations of Ownership Costs; Spring Cantaloupe, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 811.0 Ct / Acre PREVIOUS CROP: Lettuce, Iceberg DATE: 8/13/01

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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	\$5,660.78		\$5,660.78	
TOTAL OPERATING EXPENSES	\$4,226.65		\$4,226.65	
RETURN OVER CASH OPERATING EXPENSES		\$1,434.13		\$1,434.13
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	5.38		5.38	
General and Office Overhead (5.0% of Total Operating Exp.)	211.33		211.33	
General Farm Maintenance (3.0% of Total Operating Exp.)	126.80		126.80	
Total Cash Overhead Expenses	343.51		343.51	
Total Cash Operating and Overhead Cost	4,570.17		4,570.17	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		\$1,090.61		\$1,090.61
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			31.42	
Interest on Equity, Machinery and Vehicles			12.48	
Total Capital Allocations			43.89	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->		\$1,090.61		
RETURNS TO LAND, MANAGEMENT AND RISK ----->				\$1,046.72
Land Cost / Rent or Lease	550.00		550.00	
Water Assessment **	31.00		31.00	
Total Land Costs	581.00		581.00	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$509.61		
RETURNS TO MANAGEMENT AND RISK ----->				\$465.72
Management Services (8% of Total Operation Expenses)			338.13	
TOTAL OWNERSHIP COST	924.51		1,306.54	
TOTAL COST	\$5,151.17		\$5,533.20	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$509.61		
RETURNS TO RISK (PROFITS) ----->				\$127.58
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)		\$5.21		\$5.21
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$1.14		\$1.61
BREAK-EVEN PRICE TO COVER TOTAL COST		\$6.35		\$6.82

Table 8C. Variable Operating Costs; Spring Cantaloupe, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 811.0 Ct / Acre PREVIOUS CROP: Lettuce, Iceberg DATE: 8/13/01

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	Disk	0.150	0.167	2.85	1.47			4.31	1.0	4.31	L
2	Feb	Rip	0.450	0.500	7.23	4.39			11.62	1.0	11.62	L
3	Feb	Laser Level	0.450	0.500	6.59	4.39			10.98	1.0	10.98	L
4	Feb	Soil Fertility					3.00		3.00	1.0	3.00	G
5	Feb	Apply Fert/Ground	0.180	0.200	1.84	1.75		52.47	56.06	1.0	56.06	G
6	Feb	Apply Herbicide/Ground	0.225	0.250	2.43	2.19		56.42	61.04	1.0	61.04	G
7	Feb	Incorporate Herbicide	0.225	0.250	3.22	2.19			5.41	1.0	5.41	G
8	Feb	List	0.225	0.250	2.53	2.19			4.72	1.0	4.72	L
9	Mar	Shape Beds	0.180	0.200	2.62	1.75		77.97	82.34	1.0	82.34	L
10	Mar	Plant	0.360	0.400	4.43	3.51		20.06	28.00	1.0	28.00	L
11	Mar	Irrigate		0.667		5.11			5.11	2.0	10.23	G
12	Mar	Irrigate		0.267		2.05			2.05	14.0	28.63	G
13	Mar	Cultivate	0.225	0.250	1.75	2.19			3.95	6.0	23.69	G
14	Mar	Spike Furrows	0.225	0.250	1.69	2.19			3.89	3.0	11.66	G
15	Mar	Apply Fert/Ground	0.257	0.286	3.51	2.51		63.83	69.85	2.0	139.70	G
16	Mar	Thinning					75.00		75.00	1.0	75.00	G
17	Apr	Hand Weeding					75.00		75.00	2.0	150.00	G
18	Apr	Pollinate					15.00		15.00	1.0	15.00	G
19	Apr	Apply Insecticide/Air					4.75	22.79	27.54	2.0	55.08	G
20	May	Apply Insecticide/Air					4.75	6.78	11.53	1.0	11.53	G
21	May	Harvest 848 Ct						3392.00	3392.00	1.0	3392.00	H
22	Jun	Disk Residue 848 Ct	0.180	0.200	3.42	1.75			5.17	1.0	5.17	L
		Pickup Use 50 Mi/Acre	1.667		13.17						13.17	
		Operating Interest at 10.0					28.31				28.31	
TOTAL CASH OPERATING EXPENSES (includes all times over):											4226.65	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 \$31.00 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS

Land Preparation (L)	147.15
Growing (G)	646.02
Harvest (H)	3,392.00
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	41.48
Total (T)	\$4,226.65

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

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	Break-even Price
Yields		\$5.24	\$6.28	\$6.98	\$7.68	\$8.73	
- 25%	608.3	-325.65	311.19	735.74	1,160.30	1,797.14	5.77
- 10%	729.9	-197.61	566.59	1,076.06	1,585.53	2,349.74	5.51
Budgeted	811.0	-112.26	736.86	1,302.94	1,869.02	2,718.13	5.37
+ 10%	892.1	-26.90	907.13	1,529.82	2,152.50	3,086.53	5.27
Break-even Yield		917.66	460.03	345.25	276.31	212.62	

Table 8D. Resource and Cash Flow Requirements; Spring Cantaloupe, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 811.0 Ct / Acre PREVIOUS CROP: Lettuce, Iceberg DATE: 8/13/01

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			2.12		26.68	18.57	108.89		3.00	157.14
MAR C	5.0	18.0	4.02		17.53	32.90	141.80	20.06	75.00	287.29
APR C	6.0	12.0	2.64		8.72	21.36	86.62		169.74	286.44
MAY C	5.0	10.0	1.83		3.45	14.61	29.57		1705.50	1753.13
JUN C			0.20		3.42	1.75			1696.00	1701.17
Pickup Use 50 Mi/Acre					13.17					13.17
Operating Interest at 10.0									28.31	28.31
Water Assessment				**						
Total	16.0	40.0	10.81		72.97	89.19	366.88	20.06	3677.55	4226.65
%					1.73	2.11	8.68	0.47	87.01	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 149.6
 Total P 206.2
 Total K 31.1
 Total Labor 10.8
 Total Water 40.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 29.0 Gal
 Unleaded Gas 5.0 Gal
 All Direct Energy 4.7 M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw 0.18 Hr	Cultivator, Sweep, 4 Rw 1.35 Hr	Directed Spray Rig, 8 0.22 Hr
Disk-Lister, 4 Rw 0.22 Hr	Drag Scraper, 10' 0.45 Hr	Fertilizer Broadcaster, 0.18 Hr
Fertilizer Injector, 4 Row 0.51 Hr	Furrow Spike, 4 Rw 0.67 Hr	Laser, Complete System 0.45 Hr
Lister, 5 Bottom 0.22 Hr	Offset Disk, 18' 0.33 Hr	Pickup Truck, 1/2 Ton 1.67 Hr
Planter, Drill Type, 4 Row 0.36 Hr	Saddle Tk Sprayer, 2 Tk 8 0.18 Hr	Tractor, 70 PTO HP 2.38 Hr
Tractor, 100 PTO HP 1.37 Hr	Tractor, 125 PTO HP 0.18 Hr	Tractor, 175 PTO HP, 0.33 Hr
Tractor, 235 Eng HP, Art. 0.90 Hr	V-Ripper, 7 Shnk 0.45 Hr	

MATERIALS REQUIREMENT (per Acre)

11-48-00, Dry 300.00 Lb	15-08-04, Lqd 70.00 Ga	Benomyl 2.00 Lb
Bensulide 10.00 Pt	Cantaloupe Sd 2.00 Lb	Endosulfan 3.00 Pt
Esfenvalerate 2.00 Oz	Imidacloprid 16.00 Oz	Water, District 40.00 AI

LABOR REQUIREMENT (per Acre)

Irrigators 5.07 Hr Tractor 5.74 Hr

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

** A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

Table 8E. Schedule of Operations; Spring Cantaloupe, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 811.0 Ct / Acre PREVIOUS CROP: Lettuce, Iceberg DATE: 8/13/01

First No. Month Times	Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acres/Hr	Material Use and Cost Name	Appl. Rate \$ / Unit	Service Cost \$ / Unit	Labor Type
Feb 1.0	Disk	175 Offset Disk, 18'	6.00				Tractor
Feb 1.0	Rip	175 V-Ripper, 7 Shnk	2.00				Tractor
Feb 1.0	Laser Level	175 Drag Scraper, 10' Laser, Complete System	2.00				Tractor
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
Feb 1.0	Apply Herbicide/Ground	100 Directed Spray Rig, 8	4.00	Bensulide	10.00 Pt	42.58 Ga	Tractor
Feb 1.0	Incorporate Herbicide	100 Disk-Lister, 4 Rw	4.00				Tractor
Feb 1.0	List	100 Lister, 5 Bottom	4.00				Tractor
Mar 1.0	Shape Beds	125 Bed Shaper, 4 Rw Saddle Tk Sprayer, 2 Tk 8 Row	5.00	Imidaclopid	16.00 Oz	588.40 Ga	Tractor
Mar 1.0	Plant	70 Planter, Drill Type, 4 Row	2.50	Cantaloupe Sd	2.00 Lb	9.46 Lb	Tractor
Mar 2.0	Irrigate		1.50	Water, District	6.00 Al	0.00 AF	Irrigators
Mar 14.0	Irrigate		3.75	Water, District	2.00 Al	0.00 AF	Irrigators
Mar 6.0	Cultivate	70 Cultivator, Sweep, 4 Rw	4.00				Tractor
Mar 3.0	Spike Furrows	70 Furrow Spike, 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
Mar 1.0	Thinning	CST Thinning				75.00 Ac	
Apr 2.0	Hand Weeding	CST Hand Weeding				75.00 Ac	
Apr 1.0	Pollinate	CST Bee Hive Rental				15.00 Ac	
Apr 2.0	Apply Insecticide/Air	CST Air Spray, 5 Gal Mix		Benomyl	1.00 Lb	17.35 Lb	4.75 Ac
				Endosulfan	1.00 Pt	33.17 Ga	
May 1.0	Apply Insecticide/Air	CST Air Spray, 5 Gal Mix		Endosulfan	1.00 Pt	33.17 Ga	4.75 Ac
				Esfenvalerate	2.00 Oz	144.04 Ga	
May 1.0	Harvest	CST Harv/pack/haul Melons				4.00 Ct	
Jun 1.0	Disk Residue	175 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 8F Operations Calendar; Spring Cantaloupe, 2001

COUNTY: Yuma FARM: Western Arizona Vegetables WATER SOURCE: YCWUA TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 848 Ct/Acre PREVIOUS CROP: Carrots DATE: 03/25/2001

No.	Operation	Month and Times Operation Performed											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Disk		1 C										
2	Rip		1 C										
3	Laser Level		1 C										
4	Soil Fertility		1 C										
5	Apply Fert/Ground		1 C										
6	Apply Herbicide/Ground		1 C										
7	Incorporate Herbicide		1 C										
8	List		1 C										
9	Bed Shaping/Admire				1 C								
10	Plant			1 C									
11	Irrigate			2 C									
12	Irrigate			3 C	6 C	5 C							
13	Cultivate			3 C	2 C	1 C							
14	Spike Furrows			1 C	1 C	1 C							
15	Apply Fert/Ground			1 C	1 C								
16	Thinning			1 C									
17	Hand Weeding				2 C								
18	Pollinate				1 C								
19	Apply Insecticide/Air					1 C	1 C						
20	Apply Insecticide/Air						1 C						
21	Harvest					.5 C	.5 C						
22	Disk Residue						1 C						

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