

Table 9A. Income and Cash Operating Summary; Spring Honeydews, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Honeydew Melons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 473.0 Ct / Acre PREVIOUS CROP: Safflower DATE: 8/13/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Melons	Crtm	473.00	\$6.63	\$3,135.99	\$3,135.99	_____
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					361.93	_____
Fertilizer				180.13		_____
Insecticide				102.24		_____
Herbicide				56.42		_____
Other Chemicals				23.14		_____
Farm Machinery and Vehicles					57.08	_____
Diesel Fuel				24.12		_____
Repairs and Maintenance				32.96		_____
Irrigation Water (excluding labor)					0.00	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs &					285.97	_____
Seed/Transplants				42.97		_____
Other Services and Rentals				243.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					794.19	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					1812.00	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					1812.00	_____
OPERATING OVERHEAD -> PICKUP USE					13.17	_____
OPERATING INTEREST AT 10.0%					166.47	_____
TOTAL CASH OPERATING EXPENSES					\$2,785.83	_____
RETURNS OVER CASH OPERATING EXPENSES					\$350.16	_____

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 9B. Allocations of Ownership Costs; Spring Honeydews, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Honeydew Melons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 473.0 Ct / Acre PREVIOUS CROP: Safflower DATE: 8/13/01

Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$6.63 / Ct	\$3,135.99		\$3,135.99	
TOTAL OPERATING EXPENSES	\$2,785.83		\$2,785.83	
RETURN OVER CASH OPERATING EXPENSES		\$350.16		\$350.16
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	5.28		5.28	
General and Office Overhead (5.0% of Total Operating Exp.)	139.29		139.29	
General Farm Maintenance (3.0% of Total Operating Exp.)	83.58		83.58	
Total Cash Overhead Expenses	228.15		228.15	
Total Cash Operating and Overhead Cost	3,013.98		3,013.98	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		\$122.01		\$122.01
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			30.85	
Interest on Equity, Machinery and Vehicles			12.36	
Total Capital Allocations			43.21	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->		\$122.01		
RETURNS TO LAND, MANAGEMENT AND RISK ----->				\$78.80
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 ----->		(\$458.99)		
RETURNS TO MANAGEMENT AND RISK ----->				(\$502.20)
Management Services (8% of Total Operation Expenses)			222.87	
TOTAL OWNERSHIP COST	809.15		1,075.22	
TOTAL COST	\$3,594.98		\$3,861.06	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		(\$458.99)		
RETURNS TO RISK (PROFITS) ----->				(\$725.07)
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)		\$5.89		\$5.89
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$1.71		\$2.27
BREAK-EVEN PRICE TO COVER TOTAL COST		\$7.60		\$8.16

Table 9C. Variable Operating Costs; Spring Honeydews, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Honeydew Melons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 473.0 Ct / Acre PREVIOUS CROP: Safflower 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	6.78	4.39			11.17	1.0	11.17	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	1.55	2.19		56.42	60.16	1.0	60.16	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	2.14	1.75		77.97	81.86	1.0	81.86	L
10	Mar	Plant	0.360	0.400	4.43	3.51		42.97	50.92	1.0	50.92	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	1.58	2.19			3.78	6.0	22.67	G
14	Mar	Spike Furrows	0.225	0.250	1.52	2.19			3.72	3.0	11.15	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 Fungicide/Air					4.75	18.39	23.14	1.0	23.14	G
20	May	Apply Insecticide/Air					4.75	19.53	24.28	1.0	24.28	G
21	May	Harvest 453 Ct						1812.00	1812.00	1.0	1812.00	H
22	Jun	Disk Residue 453 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					166.47				166.47	
TOTAL CASH OPERATING EXPENSES (includes all times over):											2785.83	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)	169.77
Growing (G)	624.42
Harvest (H)	1,812.00
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	179.64
Total (T)	\$2,785.83

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

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		\$4.97	\$5.97	\$6.63	\$7.29	\$8.29	Break-even Price
- 25%	354.8	-552.37	-199.57	35.63	270.83	623.63	6.53
- 10%	425.7	-471.37	-48.01	234.23	516.47	939.82	6.08
Budgeted	473.0	-417.37	53.03	366.63	680.23	1,150.62	5.85
+ 10%	520.3	-363.37	154.07	499.03	843.98	1,361.42	5.67
Break-even Yield		838.59	448.18	342.02	276.52	214.82	

Table 9D. Resource and Cash Flow Requirements; Spring Honeydews, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Honeydew Melons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 473.0 Ct / Acre PREVIOUS CROP: Safflower 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		25.99	18.57	108.89		3.00	156.45
MAR C	5.0	18.0	4.02		16.36	32.90	141.80	42.97	75.00	309.03
APR C	6.0	12.0	2.64		8.21	21.36	82.22		169.75	281.54
MAY C	5.0	10.0	1.83		3.11	14.61	19.53		910.75	948.00
JUN C			0.20		3.42	1.75			906.00	911.17
Pickup Use 50 Mi/Acre					13.17					13.17
Operating Interest at 10.0									166.47	166.47
Water Assessment				**						
Total	16.0	40.0	10.81		70.26	89.19	352.44	42.97	2230.97	2706.57
%					2.52	3.20	12.65	1.54	80.08	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 27.2 Gal
 Unleaded Gas 5.0 Gal
 All Direct Energy 4.4 M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.18 Hr	Blade Scraper, 10'	0.45 Hr	Cultivator, Sweep, 4 Rw	1.35 Hr
Directed Spray Rig, 8	0.22 Hr	Disk-Lister, 4 Rw	0.22 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, 60 PTO HP	2.25 Hr
Tractor, 70 PTO HP	0.36 Hr	Tractor, 100 PTO HP	1.32 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	1.00 Lb
Bensulide	10.00 Pt	Endosulfan	2.00 Pt	Esfenvalerate	9.00 Oz
Honeydew Seeds	2.00 Th	Imidacloprid	16.00 Oz	Water, District	40.00 Al

LABOR REQUIREMENT (per Acre)

Irrigators	5.07 Hr	Tractor	5.74 Hr
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*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 9E. Schedule of Operations; Spring Honeydews, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Honeydew Melons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 473.0 Ct / Acre PREVIOUS CROP: Safflower DATE: 8/13/01

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			
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 Blade Scraper, 10'	2.00					Tractor	
			Laser, Complete System							
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		60 Directed Spray Rig, 8 Row	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		100 Bed Shaper, 4 Rw	5.00	Imidacloprid	16.00 Oz	588.40 Ga		Tractor	
			Saddle Tk Sprayer, 2 Tk 8 Row							
Mar 1.0	Plant		70 Planter, Drill Type, 4 Row	2.50	Honeydew Seeds	2.00 Th	20.27 Th		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		60 Cultivator, Sweep, 4 Rw	4.00					Tractor	
Mar 3.0	Spike Furrows		60 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 1.0	Apply Fungicide/Air		CST Air Spray, 5 Gal Mix		Benomyl	1.00 Lb	17.35 Lb		4.75 Ac	
May 1.0	Apply Insecticide/Air		CST Air Spray, 5 Gal Mix		Esfenvalerate	9.00 Oz	144.04 Ga		4.75 Ac	
					Endosulfan	2.00 Pt	33.17 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 9F Operations Calendar; Spring Honeydews, 2001

COUNTY: Yuma FARM: Western Arizona Vegetables WATER SOURCE: YCWUA TILLAGE: Double Crop
 CROP: Honeydew Melons ACRES: 1 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 453 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 Fungicide/Air				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