

Table 14A. Income and Cash Operating Summary; Fall Cantaloupe, 2001

COUNTY: Pinal FARM: Southern AZ Veg WATER SOURCE: Maricopa-Stanfield Irrig. TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Maricopa YIELD: 260.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 10/9/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Melons	Crtm	260.00	\$13.10	\$3,406.00	\$3,406.00	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					92.20	_____
Tractor/Self Propelled				48.21		_____
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					48.48	_____
Diesel Fuel				20.80		_____
Repairs and Maintenance				27.68		_____
Irrigation Water (excluding labor)					0.00	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs & Seed/Transplants				15.04	189.04	_____
Other Services and Rentals				174.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					634.04	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					403.00	_____
Other Materials					192.92	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					595.92	_____
OPERATING OVERHEAD -> PICKUP USE					7.66	_____
OPERATING INTEREST AT 10.0%					5.43	_____
TOTAL CASH OPERATING EXPENSES					\$1,243.05	_____
RETURNS OVER CASH OPERATING EXPENSES					\$2,162.95	_____

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

** A water assessment charge of \$12.50 per Acre is included as an ownership cost in Table B.

Table 14C. Variable Operating Costs; Fall Cantaloupe, 2001

COUNTY: Pinal FARM: Southern AZ Veg WATER SOURCE: Maricopa-Stanfield Irrig. TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Maricopa YIELD: 260.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 10/9/01

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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	2.88	2.19			5.07	0.5	2.53	L
2	Jun	Disk	0.150	0.167	2.45	1.47			3.92	2.0	7.83	L
3	Jun	Plow	0.450	0.500	6.53	4.39			10.92	1.0	10.92	L
4	Jun	Laser Level	0.450	0.500	5.58	4.39			9.97	0.5	4.98	L
5	Jun	Soil Fertility					3.00		3.00	1.0	3.00	G
6	Jun	Apply Fert/Ground	0.180	0.200	1.44	1.75		34.98	38.17	1.0	38.17	G
7	Jun	List	0.225	0.250	2.03	2.19			4.23	1.0	4.23	L
8	Jul	Plant	0.360	0.800	5.08	6.58		15.04	26.70	1.0	26.70	L
9	Jul	Apply Herbicide/Ground	0.225	0.250	1.21	2.19		56.42	59.82	1.0	59.82	G
10	Jul	Apply Insect./Ground	0.180	0.200	0.92	1.75		24.36	27.04	1.0	27.04	G
11	Jul	Buck Rows	0.045	0.050	0.20	0.44			0.63	5.0	3.17	G
12	Jul	Irrigate		0.667		5.12			5.12	7.0	35.81	G
13	Jul	Cultivate	0.225	0.250	1.50	2.19			3.70	9.0	33.26	G
14	Jul	Plant Fertility					6.00		6.00	1.0	6.00	G
15	Jul	Irrigate/Run Fertilizer	0.600	0.667	1.94	5.12		30.04	37.09	1.0	37.09	G
16	Jul	Thinning					75.00		75.00	1.0	75.00	G
17	Aug	Apply Insecticide/Air					4.24	55.03	59.27	2.0	118.54	G
18	Aug	Hand Weeding					75.00		75.00	1.0	75.00	G
19	Aug	Apply Fert/Ground	0.257	0.286	2.94	2.51		39.96	45.41	1.0	45.41	G
20	Aug	Pollinate					15.00		15.00	1.0	15.00	G
21	Sep	Harvest, Load & Haul 260					403.00	192.92	595.92	1.0	595.92	H
22	Sep	Disk Residue 260 Ct	0.180	0.200	2.76	1.75			4.51	1.0	4.51	L
		Pickup Use 30 Mi/Acre	1.000		7.66						7.66	
		Operating Interest at 10.0					5.43				5.43	
TOTAL CASH OPERATING EXPENSES (includes all times over):											1,243.05	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 \$12.50 per Acre is included as an ownership cost in Table B.

No.	First Month	Operation	---- Hours * ----		---- Operating Costs (\$/ACRE *) Per Operation ----					Tot. Cash	Class	
			Machine	Labor	Fuel/Rps.	Labor	Cust/Serv.	Materials	Total			Times
OPERATING COST SUMMARY BY CLASS												
SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE)												
Land Preparation (L)		61.71			Prices ->	- 25%	- 10%	Budgeted	+ 10%	+ 25%		
Growing (G)		572.33			Yields	\$9.83	\$11.79	\$13.10	\$14.41	\$16.38	Break-even Price	
Harvest (H)		595.92										
Post Harvest (P)		0.00			- 25%	195.0	818.76	1,201.93	1,457.38	1,712.83	2,096.01	5.63
Marketing (M)		0.00			- 10%	234.0	1,112.55	1,572.36	1,878.90	2,185.44	2,645.25	5.07
Operating Overhead (O)		13.09			Budgeted	260.0	1,308.40	1,819.30	2,159.90	2,500.50	3,011.40	4.79
					+ 10%	286.0	1,504.26	2,066.25	2,440.91	2,815.57	3,377.56	4.57
Total (T)		\$1,243.05										
Break-even Yield							86.31	68.45	60.16	53.65	46.17	

Table 14D. Resource and Cash Flow Requirements; Fall Cantaloupe, 2001

COUNTY: Pinal FARM: Southern AZ Veg WATER SOURCE: Maricopa-Stanfield Irrig. TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Maricopa YIELD: 260.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 10/9/01

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			1.66		19.14	14.56	34.98		3.00	71.68
JUL C	4.0	20.0	4.77		14.05	38.44	110.82	15.04	81.00	259.35
AUG C	4.0	20.0	3.85		8.04	30.87	95.00		94.24	228.15
SEP C			0.95		7.26	8.33	55.03	192.92	407.24	670.78
Pickup Use 30 Mi/Acre					7.66					7.66
Operating Interest at 10.0 Water Assessment				**					5.43	5.43
Total	8.0	40.0	11.23		56.15	92.20	295.83	207.96	590.91	1243.05
%					4.52	7.42	23.80	16.73	47.54	100.00

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 24.1 Gal
 Unleaded Gas 3.0 Gal
 All Direct Energy 3.7 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, 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, 16.5'	0.18 Hr	Offset Disk, 18'	0.30 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, 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, 150 PTO HP,	1.27 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	260.00 Ct	Cantaloupe Sd	1.50 Lb	Endosulfan	2.00 Pt
Imidacloprid	5.00 Oz	Water, Pump	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 \$12.50 per Acre is included as an ownership cost in Table B.

Table 14E. Schedule of Operations; Fall Cantaloupe, 2001

COUNTY: Pinal FARM: Southern AZ Veg WATER SOURCE: Maricopa-Stanfield Irrig. TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Maricopa YIELD: 260.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 10/9/01

First No. Month Times	Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acre/Hr	Material Use and Cost Name	Appl. Rate \$ / Unit	Service Cost \$ / Unit	Labor Type
Jun 0.5	Rip	150 V-Ripper, 5 Shnk	4.00				Tractor
Jun 2.0	Disk	150 Offset Disk, 18'	6.00				Tractor
Jun 1.0	Plow	150 Moldboard Plow, 4-16 2	2.00				Tractor
Jun 0.5	Laser Level	150 Drag Scraper, 14' Laser, Complete System	2.00				Tractor
Jun 1.0	Soil Fertility	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	Cantaloupe Sd	1.50 Lb	9.46 Lb	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, Pump	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, Pump 32-00-00, URAN 32,	5.00 Al 30.00 Ga	0.00 AF 170.80 Tn	Irrigators
Jul 1.0	Thinning	CST Thinning				75.00 Ac	
Aug 2.0	Apply Insecticide/Air	CST Air Spray, 3 Gal Mix		Bifenthrin Endosulfan Abamectin	5.00 Oz 1.00 Pt 5.00 Oz	490.00 Ga 33.17 Ga 732.91 Ga	4.24 Ac
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, Load & Haul	CST Harv/pack/haul Melons		Cantaloupe Cartons	260.00 Ct	0.70 Ct	1.55 Ct
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.

Table 14F Operations Calendar; Fall Cantaloupe, 2001

COUNTY: Pinal FARM: Southern Vegetables WATER SOURCE: MSID TILLAGE: Conventional
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Maricopa YIELD: 260 Ct/Acre PREVIOUS CROP: Wheat, Winter DATE: 10/09/01

No.	Operation	Month and Times Operation Performed											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip						0.5 C						
2	Disk						2.0 C						
3	Plow						1.0 C						
4	Laser Level						0.5 C						
5	Soil Fertility						1.0 C						
6	Apply Fert/Ground						1.0 C						
7	List						1.0 C						
8	Plant							1.0 C					
9	Apply Herbicide/Ground							1.0 C					
10	Apply Insect/Ground							1.0 C					
11	Buck Rows							2.0 C	3.0 C				
12	Irrigate							3.0 C	4.0 C				
13	Cultivate							3.0 C	3.0 C	3.0 C			
14	Plant Fertility							1.0 C					
15	Irrigate/Run Fertilizer							1.0 C					
16	Thinning							1.0 C					
17	Apply Insecticide/Air								1.0 C	1.0 C			
18	Hand Weeding								1.0 C				
19	Apply Fert/Ground								1.0 C				
20	Pollinate								1.0 C				
21	Harvest, Load & Haul									1.0 C			
22	Disk Residue									1.0 C			

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