Table 17A. Income and Cash Operating Summary; Spring Cantaloupe, 2001

FARM: Southern AZ Veg ACRES: 1.0 TILLAGE: Double Crop COUNTY: Pinal WATER SOURCE: Maricopa-Stanfield Irrig. IRRIGATION SYSTEM: Flood Furrow Sandy-Loam CROP: Cantaloupes SOIL: 360.0 Ct / Acre 10/8/01 AREA: Maricopa YIELD: PREVIOUS CROP: Cotton, Upland DATE:

ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Melons	Crtn	360.00	\$13.10	\$4,716.00	\$4,716.00	
CASH LAND PREPARATION AND C Paid Labor (including benefits) Tractor/Self Propelled Irrigation Other/ Contract	GROWING EXPENSES (inc	luding sales tax)		43.92 51.15 4.98	100.06	
Chemicals and Custom Application Fertilizer Herbicide	ons			129.65 56.42	186.07	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				18.45 25.86	44.30	
Irrigation Water (excluding labor) Water Assessment (See Note Bel	low) **				111.67	
Other Purchased Inputs & Seed/Transplants Other Services and Rentals				20.06 243.00	263.06	
CASH HARVEST AND POST HARV	TOTAL CASH LAND PRE EST EXPENSES	PARATION AND GROWI	NG EXPENSES		705.15	
Custom Harvest/Post Harvest Other Materials					558.00 267.12	
OPERATING OVERHEAD -> PICKU OPERATING INTEREST AT 10.0%	TOTAL HARVEST AND P P USE	OST HARVEST EXPENS	E		825.12 7.66 9.19	
TOTAL CASH OPERATING EXPENS RETURNS OVER CASH OPER					\$1,547.12 \$3,168.88	

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 17B. Allocations of Ownership Costs; Spring 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: 360.0 Ct / Acre PREVIOUS CROP: Cotton, Upland DATE: 10/8/01

	CASH COST BASIS	S (\$/ACRE)	TOTAL COST BA	SIS (\$/ACRE)
ltem	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$13.10 / Ct TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$4,716.00 \$1,547.12	\$3.168.88	\$4,716.00 \$1,547.12	\$3.168.88
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead (5.0% of Total Operating Exp.) General Farm Maintenance (3.0% of Total Operating Exp.)	4.99 77.36 46.41	φο, 100.00	4.99 77.36 46.41	4 0, 180.80
Total Cash Overhead Expenses Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles	128.76 1,675.88	\$3,040.12	128.76 1,675.88 27.64 12.08	\$3,040.12
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK	>	\$3,040.12	39.72	\$3,000.40
Land Cost / Rent or Lease Water Assessment **	100.00 12.50		100.00 12.50	
Total Land Costs RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK	112.50	\$2,927.62	112.50	\$2,887.90
Management Services (8% of Total Operation Expenses)			123.77	
TOTAL OWNERSHIP COST	241.26		404.75	
TOTAL COST RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO RISK (PROFITS)	\$1,788.38 >	\$2,927.62	\$1,951.87	\$2,764.13
Item	CASH COST BASIS Income and Costs	S (\$/ACRE) Net Returns	TOTAL COST BAS Income and Costs	SIS (\$/ACRE) Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$4.30 \$0.67 \$4.97		\$4.30 \$1.12 \$5.42

Table 17C. Variable Operating Costs; Spring Cantaloupe, 2001

FARM: Southern AZ Veg COUNTY: Pinal WATER SOURCE: Maricopa-Stanfield Irrig. TILLAGE: Double Crop CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Maricopa YIELD: 360.0 Ct / Acre PREVIOUS CROP: Cotton, Upland DATE: 10/8/01

	First		Hour	Hours * Operating Costs (\$/ACRE *) Per Operation							Tot. Cash	
No.	Montl	n Operation	Machine	Labor	Fuel/Rps.	Labor C	ust/Serv.	Materials	Total	Times	Expenses	Class
1	Feb	Disk	0.150	0.167	2.45	1.47			3.92	2.0	7.83	L
2	Feb	Plow	0.450	0.500	6.53	4.39			10.92	1.0	10.92	L
3	Feb	Laser Level	0.450	1.000	4.52	8.22			12.74	0.5	6.37	L
4	Feb	Soil Fertility					3.00		3.00	1.0	3.00	G
5	Feb	Apply Fert/Ground	0.180	0.200	1.44	1.75		34.98	38.17	1.0	38.17	G
6	Feb	Apply Herbicide/Ground	0.225	0.250	1.46	2.19		56.42	60.08	1.0	60.08	G
7	Feb	Incorporate Herbicide	0.225	0.250	2.31	2.19			4.50	1.0	4.50	G
8	Feb	List	0.225	0.250	2.03	2.19			4.23	1.0	4.23	L
9	Mar	Plant	0.360	0.800	5.08	6.58		20.06	31.71	1.0	31.71	L
10	Mar	Buck Rows	0.023	0.025	0.10	0.22			0.32	6.0	1.92	G
11	Mar	Irrigate		0.667		5.12		11.17	16.28	10.0	162.82	G
12	Mar	Disk Ends	0.023	0.025	0.14	0.22			0.36	6.0	2.15	G
13	Mar	Cultivate	0.225	0.250	1.50	2.19			3.70	6.0	22.18	G
14	Mar	Apply Fert/Ground	0.257	0.286	2.94	2.51		54.71	60.17	1.0	60.17	G
15	Mar	Thinning					75.00		75.00	1.0	75.00	G
16	Apr	Hand Weeding					75.00		75.00	2.0	150.00	G
17	Apr	Apply Fert/Ground	0.257	0.286	2.94	2.51		39.96	45.41	1.0	45.41	G
18	Apr	Pollinate					15.00		15.00	1.0	15.00	G
19	May	Harvest, Load & Haul 360					558.00	267.12	825.12	1.0	825.12	Н
20	May	Disk Residue 360 Ct	0.180	0.200	1.95	1.75			3.70	1.0	3.70	L
		Pickup Use 30 Mi/Acre	1.000		7.66						7.66	
		Operating Interest at 10.0					9.19				9.19	
		TOTAL CASH OPERATING	EXPENSE	S (include:	s all times over):						1547.12	Т

*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.

OPERATING COST SUMMARY	SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE)										
Land Preparation (L)	64.76	Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%			
Growing (G)	640.39	Yields		\$9.83	\$11.79	\$13.10	\$14.41	\$16.38	Break-even Price		
Harvest (H)	825.12										
Post Harvest (P)	0.00	- 25%	270.0	1,171.09	1,701.64	2,055.34	2,409.04	2,939.59	5.49		
Marketing (M)	0.00	- 10%	324.0	1,577.88	2,214.54	2,638.98	3,063.42	3,700.08	4.96		
Operating Overhead (O)	16.85	Budgeted	360.0	1,849.06	2,556.46	3,028.06	3,499.67	4,207.06	4.69		
		+ 10%	396.0	2,120.25	2,898.39	3,417.15	3,935.91	4,714.05	4.47		
Total (T)	\$1,547.12	+ 25%	450.0	2,527.03	3,411.28	4,000.78	4,590.29	5,474.53	4.21		
		Break-even \	Break-even Yield		90.84	79.83	71.20	61.27			

Table 17D. Resource and Cash Flow Requirements; Spring Cantaloupe, 2001

FARM: Southern AZ Veg COUNTY: Pinal WATER SOURCE: Maricopa-Stanfield Irrig. TILLAGE: Double Crop CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow Sandy-Loam SOIL: YIELD: 10/8/01 AREA: Maricopa 360.0 Ct / Acre PREVIOUS CROP: Cotton, Upland DATE:

		Water									
Month *	Number Irrigations	Applied (inches)	Total Labor (Hrs)	Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total	
MOUTH	irrigations	(inches)	Labor (Hrs)	vvater	and Repairs	Labor	Chemicais	Purchases	Services	TOTAL	
FEB C			2.28		20.95	19.76	91.40		3.00	135.11	
MAR C	4.0	16.0	4.58	44.67	12.87	36.78	54.71	20.06	75.00	244.09	
APR C	3.0	12.0	2.91	33.50	6.56	23.34	39.96		165.00	268.36	
MAY C	3.0	12.0	2.35	33.50	1.98	18.42				53.90	
JUN C			0.20	ļ	1.95	1.75		267.12	558.00	828.82	
Pickup Use					7.66				0.40	7.66	
Operating In Water Asses	iterest at 10.0			**					9.19	9.19	
water Asses	ssmem										
Total	10.0	40.0	12.33	111.67	51.97	100.05	186.07	287.18	810.19	1547.12	
%				7.22	3.36	6.47	12.03	18.56	52.37	100.00	
Total P Total K Total Labo Total Wate		152.6 28.3 12.3 40.0		Unleaded All Direct		3.0 Ga 3.3 M I	I BTU				
	T REQUIREM										
Bed Shap			36 Hr	Cultivator, Sweep,		5 Hr		Spray Rig, 8	0.22 Hr		
Drag Scra			22 Hr 22 Hr	Fertilizer Broadcast Lister. 5 Bottom		8 Hr 2 Hr		njector, 4 Row d Plow, 4-16 2	0.51 Hr 0.45 Hr		
Offset Dis	mplete Syster		22 FI 14 Hr	Offset Disk, 12'		2 Hr	Offset Dis	,	0.45 Hr		
Offset Dis			30 Hr	Pickup Truck, 1/2 T		0 Hr		rill Type, 4 Row			
Rowbuck	, -		14 Hr	Tractor, 50 PTO H		28 Hr		O PTO HP,	1.57 Hr		
Tractor, 1	00 PTO HP,	1.	68 Hr	Tractor, 125 PTO H	IP, 0.2	2 Hr	Tractor, 1	50 PTO HP,	0.75 Hr		
MATERIALS	REQUIREMI	ENT (per Acı	re)								
10-10-05,			00 Ga	11-48-00, Dry	200.0	0 Lb	15-08-04,	Lqd	30.00 Ga		
Bensulide			00 Pt	Cantaloupe Cartons	360.0	0 Ct	Cantaloup	e Sd	2.00 Lb		
Water, Di	strict	40.	00 AI								
LABOR REC	QUIREMENT (per Acre)									
Irrigators		6.	67 Hr	Other	0.6	55 Hr	Tractor		5.01 Hr		

^{*}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 17E. Schedule of Operations; Spring Cantaloupe, 2001

FARM: Southern AZ Veg COUNTY: Pinal WATER SOURCE: Maricopa-Stanfield Irrig. TILLAGE: Double Crop CROP: Cantaloupes ACRES: IRRIGATION SYSTEM: Flood Furrow Sandy-Loam 1.0 SOIL: YIELD: 360.0 Ct / Acre PREVIOUS CROP: 10/8/01 AREA: Maricopa Cotton, Upland DATE:

First		Equipment/ Custom Oper	Job Rate	Materia	I Use and Cost		5	Service Cost	Labor
No. Month	Times Operation	HP Self-Prop./ Implement	Acre/Hr	Name	Appl. Ra	te \$/U	nit	\$ / Unit	Туре
Feb	2.0 Disk	150 Offset Disk, 18'	6.00						Tractor
Feb	1.0 Plow	150 Moldboard Plow, 4-16 2	2.00						Tractor
Feb	0.5 Laser Level	125 Drag Scraper, 10'	2.00						Tractor
		Laser, Complete System							Other
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	200.00 Lb	330.00	Tn		Tractor
Feb	1.0 Apply Herbicide/Ground	70 Directed Spray Rig, 8 Row	4.00	Bensulide	10.00 Pt	42.58	Ga		Tractor
Feb	1.0 Incorporate Herbicide	100 Offset Disk, 12'	4.00						Tractor
Feb	1.0 List	100 Lister, 5 Bottom	4.00						Tractor
Mar	1.0 Plant	100 Planter, Drill Type, 4 Row	2.50	Cantaloupe Sd	2.00 Lb	9.46	Lb		Tractor
		Bed Shaper, 4 Rw							Other
Mar	6.0 Buck Rows	50 Rowbuck, 10'	40.00						Tractor
Mar	10.0 Irrigate		1.50	Water, District	4.00 AI	33.50	AF		Irrigators
Mar	6.0 Disk Ends	50 Offset Disk, 10.5'	40.00						Tractor
Mar	6.0 Cultivate	70 Cultivator, Sweep, 4 Rw	4.00						Tractor
Mar	1.0 Apply Fert/Ground	100 Fertilizer Injector, 4 Row	3.50	15-08-04, Lqd	30.00 Ga	310.00	Tn		Tractor
Mar	1.0 Thinning	CST Thinning						75.00 Ac	
Apr	2.0 Hand Weeding	CST Thinning						75.00 Ac	
Apr	1.0 Apply Fert/Ground	100 Fertilizer Injector, 4 Row	3.50	10-10-05, Lqd	30.00 Ga	251.33	Tn		Tractor
Apr	1.0 Pollinate	CST Bee Hive Rental						15.00 Ac	
May	1.0 Harvest, Load & Haul	CST Harv/pack/haul Melons	(Cantaloupe Cartons	360.00 Ct	0.70	Ct	1.55 Ct	
May	1.0 Disk Residue	100 Offset Disk, 13.5'	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 17F Operations Calendar; Spring Cantaloupe, 2001

COUNT CROP:	Y: Pinal Cantaloupes	FARM: ACRES:		egetables		R SOURCE ATION SYS		MSID Flood F	- urrow		TILLAC SOIL:	GE:	Conver Sandy-		
AREA:	Maricopa	YIELD:				PREVIOUS CROP:			Wheat,Winter				10/08/01		
No.	Operation		Já	an Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	Disk			2.0 C											
2	Plow			1.0 C											
3	Laser Level			0.5 C											
4	Soil Fertility			1.0 C											
5	Apply Fert/Ground			1.0 C											
6	Apply Herbicide/Ground			1.0 C											
7	Incorporate Herbicide			1.0 C											
8	List			1.0 C											
9	Plant				1.0 C										
10	Buck Rows				2.0 C	2.0 C	2.0 C								
11	Irrigate				4.0 C	3.0 C	3.0 C								
12	Disk Ends				1.0 C	3.0 C	2.0 C								
13	Cultivate				3.0 C	2.0 C	1.0 C								
14	Apply Fert/Ground				1.0 C										
15	Thinning				1.0 C										
16	Hand Weeding					2.0 C									
17	Apply Fert/Ground					1.0 C									
18	Pollinate					1.0 C									
19	Harvest, Load & Haul							1.0 C							
20	Disk Residue							1.0 C							

^{*} NOTE: P = Previous Year C = Current Year N = Next Year