

Table 22A. Income and Cash Operating Summary; Generic Squash, 1999

COUNTY: Maricopa FARM: Maricopa Vegetable WATER SOURCE: Roosevelt Water TILLAGE: Conventional
 CROP: Squash, Summer ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Roosevelt WCD YIELD: 125.0 Ct / Acre PREVIOUS CROP: Watermelons DATE: 8/9/99

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget	
INCOME	Squash	Crt	125.00	\$12.39	\$1,548.75	\$1,548.75	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)							
Paid Labor (including benefits)					307.90	_____	
Tractor/Self Propelled					67.43	_____	
Irrigation					233.96	_____	
Other/ Contract					6.50	_____	
Chemicals and Custom Applications					93.70	_____	
Fertilizer					52.58	_____	
Insecticide					5.17	_____	
Herbicide					35.96	_____	
Farm Machinery and Vehicles					45.00	_____	
Diesel Fuel					16.19	_____	
Repairs and Maintenance					28.81	_____	
Irrigation Water (excluding labor)					62.50	_____	
Water Assessment (See Note Below) **						_____	
Other Purchased Inputs &					634.00	_____	
Seed/Transplants					484.00	_____	
Other Services and Rentals					150.00	_____	
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					1143.09	_____	
CASH HARVEST AND POST HARVEST EXPENSES							
Farm Machinery and Vehicles					96.92	_____	
Diesel Fuel					27.83	_____	
Repairs and Maintenance					69.08	_____	
Other Materials					321.48	_____	
TOTAL HARVEST AND POST HARVEST EXPENSE					418.40	_____	
OPERATING OVERHEAD PICKUP USE					2.55	_____	
OPERATING INTEREST AT 10.0%					38.18	_____	
TOTAL CASH OPERATING EXPENSES					\$1,602.22	_____	
RETURNS OVER CASH OPERATING EXPENSES					(\$53.47)	_____	

Notes: The above figures do not include ownership costs, see table B for detailed cost allocation.
 ** A water assessment charge of \$17.00 per Acre is included as an ownership cost in Table B.

Table 22B. Allocations of Ownership Costs; Generic Squash, 1999

COUNTY: Maricopa FARM: Maricopa Vegetable WATER SOURCE: Roosevelt Water TILLAGE: Conventional
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 AREA: Roosevelt WCD YIELD: 125.0 Ct / Acre PREVIOUS CROP: Watermelons DATE: 8/9/99

Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$12.39 / Ct	\$1,548.75		\$1,548.75	
TOTAL OPERATING EXPENSES	\$1,602.22		\$1,602.22	
RETURN OVER CASH OPERATING EXPENSES		(\$53.47)		(\$53.47)
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	18.39		18.39	
General and Office Overhead (5.0% of Total Operating Exp.)	80.11		80.11	
General Farm Maintenance (3.0% of Total Operating Exp.)	48.07		48.07	
Total Cash Overhead Expenses	146.56		146.56	
Total Cash Operating and Overhead Cost	1,748.78		1,748.78	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		(\$200.03)		(\$200.03)
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			97.83	
Interest on Equity, Machinery and Vehicles			54.66	
Total Capital Allocations			152.49	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->		(\$200.03)		
RETURNS TO LAND, MANAGEMENT AND RISK ----->				(\$352.53)
Land Cost / Rent or Lease	160.00		160.00	
Water Assessment	17.00		17.00	
Total Land Costs	177.00		177.00	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		(\$377.03)		
RETURNS TO MANAGEMENT AND RISK ----->				(\$529.53)
Management Services (8% of Total Operation Expenses)			128.18	
TOTAL OWNERSHIP COST	323.56		604.23	
TOTAL COST	\$1,925.78		\$2,206.45	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		(\$377.03)		
RETURNS TO RISK (PROFITS) ----->				(\$657.70)
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		\$12.82		\$12.82
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$2.59		\$4.83
BREAK-EVEN PRICE TO COVER TOTAL COST		\$15.41		\$17.65

Table 22C. Variable Operating Costs; Generic Squash, 1999

COUNTY: Maricopa FARM: Maricopa Vegetable WATER SOURCE: Roosevelt Water TILLAGE: Conventional
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 AREA: Roosevelt WCD YIELD: 125.0 Ct / Acre PREVIOUS CROP: Watermelons DATE: 8/9/99

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	Rip	0.450	0.500	2.38	4.87			7.25	0.5	3.63	L
2	Feb	Plow	0.900	1.000	7.40	9.75			17.15	1.0	17.15	L
3	Feb	Disk	0.180	0.200	1.17	1.95			3.12	3.0	9.37	L
4	Feb	Laser Level	0.450	0.500	5.60	4.87			10.48	0.5	5.24	L
5	Feb	Apply Fert/Ground	0.090	0.100	0.70	0.97		22.68	24.35	1.0	24.35	G
6	Mar	List	0.300	0.333	2.03	3.25			5.28	1.0	5.28	L
7	Mar	Plant	0.600	1.334	8.30	13.00		484.00	505.30	1.0	505.30	L
8	Apr	Apply Herbicide/Ground	0.225	0.250	1.13	2.44		35.96	39.52	1.0	39.52	G
9	Apr	Buck Rows	0.045	0.050	0.19	0.49			0.68	1.0	0.68	G
10	Apr	Irrigate		4.000		38.99		10.42	49.41	6.0	296.46	G
11	Apr	Cultivate	0.900	1.000	4.14	9.75			13.89	2.0	27.78	G
12	Apr	Thinning					75.00		75.00	1.0	75.00	G
13	Apr	Apply Insect./Ground	0.225	0.250	1.13	2.44		5.17	8.73	1.0	8.73	G
14	Apr	Hand Weeding					75.00		75.00	1.0	75.00	G
15	Apr	Apply Fert/Ground	0.900	1.000	7.35	9.75		29.90	47.00	1.0	47.00	G
16	May	Harvest, Load & Haul	12.857	28.57	96.92			321.48	418.40	1.0	418.40	H
17	Jun	Disk Residue	0.150	0.167	0.98	1.63			2.61	1.0	2.61	L
		Pickup Use10 Mi/Acre	0.333		2.55						2.55	
		Operating Interest at 10.0					38.18				38.18	
TOTAL CASH OPERATING EXPENSES (includes all times over):												
=====												
1602.22 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 \$17.00 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS

Land Preparation (L)	548.57
Growing (G)	594.52
Harvest (H)	418.40
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	40.73
Total (T)	=====
	\$1,602.22

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

		Prices	- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields			\$9.29	\$11.15	\$12.39	\$13.63	\$15.49	Break-even Price
- 25%	93.8		-626.57	-452.34	-336.18	-220.03	-45.79	15.98
- 10%	112.5		-515.10	-306.02	-166.63	-27.24	181.84	13.87
Budgeted	125.0		-440.78	-208.47	-53.59	101.28	333.59	12.82
+ 10%	137.5		-366.46	-110.92	59.44	229.80	485.35	11.96
+ 25%	156.3		-254.99	35.40	228.99	422.59	712.98	10.92
Break-even Yield			199.14	151.71	130.93	115.15	97.52	

Table 22D. Resource and Cash Flow Requirements; Generic Squash, 1999

COUNTY: Maricopa FARM: Maricopa Vegetable WATER SOURCE: Roosevelt Water TILLAGE: Conventional
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 AREA: Roosevelt WCD YIELD: 125.0 Ct / Acre PREVIOUS CROP: Watermelons DATE: 8/9/99

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			2.00		14.43	19.50	22.68			56.61
MAR C			1.87		11.51	18.20		484.00		513.71
APR C	3.0	15.0	15.55	31.25	18.08	151.59	71.02		150.00	421.93
MAY C	3.0	15.0	17.66	31.25	19.38	116.98		64.30		231.91
JUN C			22.80		78.51	1.63		257.18		337.32
Pickup Use10 Mi/Acre					2.55					2.55
Operating Interest at 10.0 Water Assessment				**					38.18	38.18
Total	6.0	30.0	59.87	62.50	144.46	307.90	93.70	805.48	188.18	1602.22
%				3.90	9.02	19.22	5.85	50.27	11.75	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)		TOTAL ENERGY REQUIREMENTS (per Acre)	
Total N	115.5	Diesel Fuel	54.5 Gal
Total P	62.4	Unleaded Gas	1.0 Gal
Total K	0.0	All Direct Energy	7.7 M BTU
Total Labor	59.9		
Total Water	30.0		

EQUIPMENT REQUIREMENTS (per Acre)			
Bed Shaper, 4 Rw	0.60 Hr	Cultivator, Sweep, 3 Rw	1.80 Hr
Drag Scraper, 14'	0.22 Hr	Fert. Side Dress Unit,	0.90 Hr
Flat Trailer	12.86 Hr	Laser Trailer	0.22 Hr
Lister, 5 Bottom	0.30 Hr	Moldboard Plow, 3-16 2	0.90 Hr
Pickup Truck, 1/2 Ton	0.33 Hr	Planter, Drill Type, 4 Row	0.60 Hr
Tractor, 50 PTO HP	12.86 Hr	Tractor, 50 PTO HP,	3.42 Hr
Tractor, 100 PTO HP,	0.69 Hr	Tractor, 150 PTO HP,	0.22 Hr
		Directed Spray Rig, 8	0.45 Hr
		Fertilizer Broadcaster,	0.09 Hr
		Laser, Complete System	0.22 Hr
		Offset Disk, 8'	0.69 Hr
		Rowbuck, 10'	0.05 Hr
		Tractor, 70 PTO HP,	1.89 Hr
		V-Ripper, 5 Shnk	0.22 Hr

MATERIALS REQUIREMENT (per Acre)			
11-48-00, Dry	130.00 Lb	46-00-00, Urea 46	220.00 Lb
Diazinon	1.50 Pt	Summer Squash	12.00 Lb
Wirebound Crates	190.00 Ct	DCPA	5.00 Lb
		Water, District	30.00 AI

LABOR REQUIREMENT (per Acre)			
Cutter	14.00 Hr	Irrigators	24.00 Hr
Tractor	6.92 Hr	Truck Driver	14.29 Hr
		Other	0.67 Hr

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

** A water assessment charge of \$17.00 per Acre is included as an ownership cost in Table B.

Table 22E. Schedule of Operations; Generic Squash, 1999

COUNTY: Maricopa FARM: Maricopa Vegetable WATER SOURCE: Roosevelt Water TILLAGE: Conventional
 CROP: Squash, Summer ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Roosevelt WCD YIELD: 125.0 Ct / Acre PREVIOUS CROP: Watermelons DATE: 8/9/99

First No.	Month	Times	Operation	Equipment/ Custom Oper		Job Rate Acres/Hr	Material Use and Cost			Service Cost \$ / Unit	Labor Type	
				HP	Self-Prop./ Implement		Name	Appl. Rate	\$ / Unit			\$ / Unit
1	Feb	0.5	Rip	50	V-Ripper, 5 Shnk	2.00					Tractor	
2	Feb	1.0	Plow	70	Moldboard Plow, 3-16 2	1.00					Tractor	
3	Feb	3.0	Disk	70	Offset Disk, 8'	5.00					Tractor	
4	Feb	0.5	Laser Level	150	Drag Scraper, 14' Laser, Complete System Laser Trailer	2.00					Tractor	
5	Feb	1.0	Apply Fert/Ground	100	Fertilizer Broadcaster,	10.00	11-48-00, Dry	130.00	Lb	330.00	Tn	Tractor
6	Mar	1.0	List	70	Lister, 5 Bottom	3.00						Tractor
7	Mar	1.0	Plant	100	Planter, Drill Type, 4 Row Bed Shaper, 4 Rw	1.50	Summer Squash	12.00	Lb	38.14	Lb	Tractor Other
8	Apr	1.0	Apply Herbicide/Ground	50	Directed Spray Rig, 8 Row	4.00	DCPA	5.00	Lb	6.80	Lb	Tractor
9	Apr	1.0	Buck Rows	50	Rowbuck, 10'	20.00						Tractor
10	Apr	6.0	Irrigate			0.25	Water, District	5.00	Al	25.00	AF	Irrigators
11	Apr	2.0	Cultivate	50	Cultivator, Sweep, 3 Rw	1.00						Tractor
12	Apr	1.0	Thinning		CST Thinning							75.00 Ac
13	Apr	1.0	Apply Insect./Ground	50	Directed Spray Rig, 8 Row	4.00	Diazinon	1.50	Pt	26.06	Ga	Tractor
14	Apr	1.0	Hand Weeding		CST Hand Weeding							75.00 Ac
15	Apr	1.0	Apply Fert/Ground	50	Fert. Side Dress Unit, 4Row	1.00	46-00-00, Urea 46	220.00	Lb	257.00	Tn	Tractor
16	May	1.0	Harvest, Load & Haul	50	Flat Trailer	0.07	Wirebound Crates	190.00	Ct	1.60	Ct	Truck Cutter Tractor
17	Jun	1.0	Disk Residue Pickup use 10 Mi/Ac	70	Offset Disk, 8' Pickup Truck, 1/2 Ton	6.00 3.00						

*NOTES: Machine times, labor times, and material rates are for one time over the designated acreage.

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