

Table 13A. Income and Cash Operating Summary; Green Onions, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop
 CROP: Onions, Green ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Salt River Project YIELD: 1,400.0 Ct / Acre PREVIOUS CROP: Honeydew Melons DATE: 9/11/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Onions	Crtn	1,400.00	\$9.25	\$12,950.00	\$12,950.00	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					164.33	_____
Tractor/Self Propelled				87.59		_____
Irrigation				70.24		_____
Other/ Contract				6.50		_____
Chemicals and Custom Applications					162.41	_____
Fertilizer				95.89		_____
Insecticide				27.33		_____
Herbicide				39.19		_____
Farm Machinery and Vehicles					58.53	_____
Diesel Fuel				23.16		_____
Repairs and Maintenance				35.37		_____
Irrigation Water (excluding labor)					17.50	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs &					570.52	_____
Seed/Transplants				492.52		_____
Other Services and Rentals				78.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					973.29	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Paid Labor (including benefits)					0.49	_____
Tractor/Self Propelled				0.49		_____
Farm Machinery and Vehicles					0.24	_____
Diesel Fuel				0.09		_____
Repairs and Maintenance				0.14		_____
Custom Harvest/Post Harvest					7000.00	_____
Other Materials					1997.73	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					8998.46	_____
OPERATING OVERHEAD -> PICKUP USE					7.63	_____
OPERATING INTEREST AT 10.0%					19.76	_____
TOTAL CASH OPERATING EXPENSES					\$9,999.13	_____
RETURNS OVER CASH OPERATING EXPENSES					\$2,950.87	_____

Notes: The above figures do not include ownership costs, see table B for detailed cost allocation.
 ** A water assessment charge of \$10.14 per Acre is included as an ownership cost in Table B.

Table 13B. Allocations of Ownership Costs; Green Onions, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop
 CROP: Onions, Green ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Salt River Project YIELD: 1,400.0 Ct / Acre PREVIOUS CROP: Honeydew Melons DATE: 9/11/01

Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$9.25 / Ct	\$12,950.00		\$12,950.00	
TOTAL OPERATING EXPENSES	\$9,999.13		\$9,999.13	
RETURN OVER CASH OPERATING EXPENSES		\$2,950.87		\$2,950.87
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	6.47		6.47	
General and Office Overhead (5.0% of Total Operating Exp.)	499.96		499.96	
General Farm Maintenance (3.0% of Total Operating Exp.)	299.97		299.97	
Total Cash Overhead Expenses	806.40		806.40	
Total Cash Operating and Overhead Cost	10,805.53		10,805.53	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		\$2,144.47		\$2,144.47
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			36.28	
Interest on Equity, Machinery and Vehicles			14.44	
Total Capital Allocations			50.73	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->		\$2,144.47		
RETURNS TO LAND, MANAGEMENT AND RISK ----->				\$2,093.74
Land Cost / Rent or Lease	200.00		200.00	
Water Assessment **	10.14		10.14	
Total Land Costs	210.13		210.13	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$1,934.34		
RETURNS TO MANAGEMENT AND RISK ----->				\$1,883.61
Management Services (8% of Total Operation Expenses)			799.93	
TOTAL OWNERSHIP COST	1,016.54		1,867.19	
TOTAL COST	\$11,015.66		\$11,866.32	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$1,934.34		
RETURNS TO RISK (PROFITS) ----->				\$1,083.68
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)		\$7.14		\$7.14
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$0.73		\$1.33
BREAK-EVEN PRICE TO COVER TOTAL COST		\$7.87		\$8.48

Table 13C. Variable Operating Costs; Green Onions, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop
 CROP: Onions, Green ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Salt River Project YIELD: 1,400.0 Ct / Acre PREVIOUS CROP: Honeydew Melons DATE: 9/11/01

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	May	Plow	0.900	1.000	11.25	9.75				21.00	1.0	21.00	L
2	May	Disk	0.600	0.667	4.01	6.50				10.51	4.0	42.04	L
3	Jun	Laser Level	0.450	0.500	4.72	4.87				9.60	0.5	4.80	L
4	Jul	Soil Fertility					3.00			3.00	1.0	3.00	G
5	Aug	Apply Fert/Ground	0.450	0.500	3.73	4.87		26.48		35.08	1.0	35.08	G
6	Aug	List	0.300	0.333	2.08	3.25				5.33	1.0	5.33	L
7	Aug	Mulch	0.300	0.333	2.53	3.25				5.78	1.0	5.78	L
8	Sep	Plant	0.600	1.334	4.04	13.00		492.52		509.56	1.0	509.56	L
9	Sep	Apply Herbicide/Ground	0.225	0.250	1.15	2.44		39.19		42.78	1.0	42.78	G
10	Sep	Buck Rows	0.045	0.050	0.19	0.49				0.68	1.0	0.68	G
11	Sep	Irrigate		1.000		9.75		2.50		12.25	6.0	73.49	G
12	Sep	Disk Ends	0.045	0.050	0.24	0.49				0.73	4.0	2.91	G
13	Sep	Apply Insect./Ground	0.180	0.200	0.92	1.95		13.66		16.53	2.0	33.06	G
14	Oct	Cultivate	0.600	0.667	2.83	6.50				9.33	2.0	18.65	G
15	Oct	Hand Weeding					75.00			75.00	1.0	75.00	G
16	Oct	Apply Fert/Ground	0.450	0.500	3.73	4.87		63.42		72.02	1.0	72.02	G
17	Nov	Irrigate/Run Fertilizer		1.205		11.75		8.49		20.24	1.0	20.24	G
18	Dec	Prepare Ends	0.045	0.050	0.24	0.49				0.73	1.0	0.73	H
19	Dec	Harvest, Load & Haul					7000.00	1997.73		8997.73	1.0	8997.73	H
20	Jan	Disk Residue	0.450	0.500	3.01	4.87				7.88	1.0	7.88	L
		Pickup Use 30 Mi/Acre	1.000		7.63							7.63	
		Operating Interest at 10.0						19.76				19.76	
TOTAL CASH OPERATING EXPENSES (includes all times over):											9999.13	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 \$10.14 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS		SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE)							
		Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Land Preparation (L)	596.37	Yields		\$6.94	\$8.32	\$9.25	\$10.18	\$11.56	Break-even Price
Growing (G)	376.91								
Harvest (H)	8,998.46								
Post Harvest (P)	0.00	- 25%	1,050.0	-445.38	1,011.49	1,982.74	2,953.99	4,410.87	7.36
Marketing (M)	0.00	- 10%	1,260.0	-338.28	1,409.97	2,575.47	3,740.97	5,489.22	7.21
Operating Overhead (O)	27.38	Budgeted	1,400.0	-266.87	1,675.63	2,970.63	4,265.63	6,208.13	7.13
		+ 10%	1,540.0	-195.47	1,941.28	3,365.78	4,790.28	6,927.03	7.06
Total (T)	\$9,999.13	+ 25%	1,750.0	-88.36	2,339.76	3,958.51	5,577.26	8,005.39	6.99
		Break-even Yield		1,923.25	516.94	347.53	261.75	191.02	

Table 13D. Resource and Cash Flow Requirements; Green Onions, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop
 CROP: Onions, Green ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Salt River Project YIELD: 1,400.0 Ct / Acre PREVIOUS CROP: Honeydew Melons DATE: 9/11/01

Month *	Number Irrigations	Water Applied (inches)	Total Labor (Hrs)	Operating Costs (\$/ACRE *)						
				Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total
MAY C			1.67		15.26	16.25				31.51
JUN C			0.92		6.37	8.94				15.31
JUL C			0.67		4.01	6.50			3.00	13.51
AUG C			1.83		12.34	17.87	26.48			56.69
SEPC	3.0	21.0	4.93		6.78	48.10	52.86	492.52		600.25
OCT C	2.0	14.0	3.47	9.17	7.95	33.80	77.08		75.00	203.00
NOV C	2.0	10.0	2.87	8.33	2.83	28.00	5.99			45.15
DEC C			0.05		0.24	0.49		1997.73	7000.00	8998.46
JAN N			0.50		3.01	4.87				7.88
Pickup Use 30 Mi/Acre					7.63					7.63
Operating Interest at 10.0									19.76	19.76
Water Assessment				**						
Total	7.0	45.0	16.91	17.50	66.40	164.82	162.41	2490.25	7097.78	9999.13
%				0.18	0.66	1.65	1.62	24.90	70.98	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 177.0
 Total P 40.0
 Total Labor 16.9
 Total Water 45.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 27.3 Gal
 Unleaded Gas 3.0 Gal
 All Direct Energy 4.2 M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.60 Hr	Cultivator, Sweep, 3 Rwd	1.20 Hr	Directed Spray Rig, 8	0.59 Hr
Drag Scraper, 14'	0.22 Hr	Fert. Side Dress Unit,	0.90 Hr	Laser, Complete System	0.22 Hr
Lister, 5 Bottom	0.30 Hr	Moldboard Plow, 3-16 2	0.90 Hr	Offset Disk, 8'	3.08 Hr
Pickup Truck, 1/2 Ton	1.00 Hr	Planter, Planet Jr, 4	0.60 Hr	Power Mulcher, 4 Rw	0.30 Hr
Rowbuck, 10'	0.05 Hr	Tractor, 50 PTO HP,	2.96 Hr	Tractor, 70 PTO HP,	4.05 Hr
Tractor, 100 PTO HP	1.13 Hr				

MATERIALS REQUIREMENT (per Acre)

16-20-00, Dry	200.00 Lb	32-00-00, URAN 32, Lqd	6.00 Ga	33-00-00, Amm. Nitrate,	375.00 Lb
DCPA	6.00 Lb	Green Onion Seed	22.00 Lb	Methomyl	3.00 Pt
Methyl Parathion	2.00 Pt	Water, District	45.00 Al	Waxed Cartons	1400.00 Ct

LABOR REQUIREMENT (per Acre)

Irrigators	7.20 Hr	Other	0.67 Hr	Tractor	9.03 Hr
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*NOTE: P = Previous Year C = Current Year N = Next Year

** A water assessment charge of \$10.14 per Acre is included as an ownership cost in Table B.

Table 13E. Schedule of Operations; Green Onions, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop
 CROP: Onions, Green ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Salt River Project YIELD: 1,400.0 Ct / Acre PREVIOUS CROP: Honeydew Melons DATE: 9/11/01

First No. Month Times	Operation	Equipment/ Custom Oper		Job Rate	Material Use and Cost				Service Cost	Labor
		HP	Self-Prop./ Implement		Name	Appl. Rate	\$ / Unit			
May	1.0 Plow	100	Moldboard Plow, 3-16 2	1.00						Tractor
May	4.0 Disk	70	Offset Disk, 8'	1.50						Tractor
Jun	0.5 Laser Level	100	Drag Scraper, 14'	2.00						Tractor
			Laser, Complete System							
Jul	1.0 Soil Fertility		CST Soil Analysis (Surface)						3.00 Ac	
Aug	1.0 Apply Fert/Ground	50	Fert. Side Dress Unit, 4Row	2.00	16-20-00, Dry	200.00 Lb	250.50 Tn			Tractor
Aug	1.0 List	70	Lister, 5 Bottom	3.00						Tractor
Aug	1.0 Mulch	70	Power Mulcher, 4 Rw	3.00						Tractor
Sep	1.0 Plant	70	Planter, Planet Jr, 4 Unit/2R	1.50	Green Onion Seed	22.00 Lb	21.18 Lb			Tractor
			Bed Shaper, 4 Rw							Other
Sep	1.0 Apply Herbicide/Ground	50	Directed Spray Rig, 8 Row	4.00	DCPA	6.00 Lb	6.18 Lb			Tractor
Sep	1.0 Buck Rows	50	Rowbuck, 10'	20.00						Tractor
Sep	6.0 Irrigate			1.00	Water, District	7.00 Al	4.29 AF			Irrigators
Sep	4.0 Disk Ends	50	Offset Disk, 8'	20.00						Tractor
Sep	2.0 Apply Insect./Ground	50	Directed Spray Rig, 8 Row	5.00	Methomyl	1.50 Pt	48.94 Ga			Tractor
					Methyl Parathion	1.00 Pt	30.00 Ga			
Oct	2.0 Cultivate	50	Cultivator, Sweep, 3 Rw	1.50						Tractor
Oct	1.0 Hand Weeding		CST Hand Weeding						75.00 Ac	
Oct	1.0 Apply Fert/Ground	50	Fert. Side Dress Unit, 4Row	2.00	33-00-00, Amm. Nitrate,	375.00 Lb	320.00 Tn			Tractor
Nov	1.0 Irrigate/Run Fertilizer			0.83	Water, District	3.00 Al	10.00 AF			Irrigators
					32-00-00, URAN 32,	6.00 Ga	170.80 Tn			
Dec	1.0 Prepare Ends	50	Offset Disk, 8'	20.00						Tractor
Dec	1.0 Harvest, Load & Haul		CST Harvest Green Onions		Waxed Cartons	1400.00 Ct	1.35 Ct		5.00 Ct	
Jan	1.0 Disk Residue	70	Offset Disk, 8'	2.00						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 13F. Operations Calendar; Green Onions, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: SRP TILLAGE: Double Crop
 CROP: Green Onions ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Salt River Project YIELD: 1400 Ct./Acre PREVIOUS CROP: Honeydew Melons DATE: 09/17/2001

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

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