

**Table 8A. Income and Cash Operating Summary; Fall Cabbage, 2001**

COUNTY: Maricopa                      FARM: Maricopa Veg                      WATER SOURCE: Salt River Project                      TILLAGE: Double Crop  
 CROP: Cabbage                      ACRES: 1.0                      IRRIGATION SYSTEM: Flood Furrow                      SOIL: Sandy-Loam  
 AREA: Salt River Project                      YIELD: 746.0 Ct / Acre                      PREVIOUS CROP: Watermelons                      DATE: 9/11/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Cabbage	Crtn	746.00	\$3.64	\$2,715.44	\$2,715.44	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					152.98	_____
Tractor/Self Propelled				78.24		_____
Irrigation				68.24		_____
Other/ Contract				6.50		_____
Chemicals and Custom Applications					315.16	_____
Fertilizer				180.45		_____
Insecticide				131.41		_____
Herbicide				3.30		_____
Farm Machinery and Vehicles					62.28	_____
Diesel Fuel				23.86		_____
Repairs and Maintenance				38.43		_____
Irrigation Water (excluding labor)					15.00	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs &					469.63	_____
Seed/Transplants				241.63		_____
Other Services and Rentals				228.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					1015.06	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					2685.60	_____
Other Materials					749.10	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					3434.70	_____
OPERATING OVERHEAD -> PICKUP USE					12.71	_____
OPERATING INTEREST AT 10.0%					18.67	_____
TOTAL CASH OPERATING EXPENSES					\$4,481.13	_____
RETURNS OVER CASH OPERATING EXPENSES					(\$1,765.69)	_____

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 8B. Allocations of Ownership Costs; Fall Cabbage, 2001**

COUNTY: Maricopa      FARM: Maricopa Veg      WATER SOURCE: Salt River Project      TILLAGE: Double Crop  
 CROP: Cabbage      ACRES: 1.0      IRRIGATION SYSTEM: Flood Furrow      SOIL: Sandy-Loam  
 AREA: Salt River Project      YIELD: 746.0 Ct / Acre      PREVIOUS CROP: Watermelons      DATE: 9/11/01

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Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$3.64 / Ct	\$2,715.44		\$2,715.44	
TOTAL OPERATING EXPENSES	\$4,481.13		\$4,481.13	
RETURN OVER CASH OPERATING EXPENSES		(\$1,765.69)		(\$1,765.69)
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	7.39		7.39	
General and Office Overhead ( 5.0% of Total Operating Exp.)	224.06		224.06	
General Farm Maintenance ( 3.0% of Total Operating Exp.)	134.43		134.43	
Total Cash Overhead Expenses	365.88		365.88	
Total Cash Operating and Overhead Cost	4,847.01		4,847.01	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		(\$2,131.57)		(\$2,131.57)
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			41.18	
Interest on Equity, Machinery and Vehicles			16.75	
Total Capital Allocations			57.92	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->		(\$2,131.57)		
RETURNS TO LAND, MANAGEMENT AND RISK ----->				(\$2,189.49)
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 ----->		(\$2,341.70)		
RETURNS TO MANAGEMENT AND RISK ----->				(\$2,399.62)
Management Services ( 8% of Total Operation Expenses)			358.49	
TOTAL OWNERSHIP COST	576.01		992.42	
TOTAL COST	\$5,057.14		\$5,473.55	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		(\$2,341.70)		
RETURNS TO RISK (PROFITS) ----->				(\$2,758.11)
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 )		\$6.01		\$6.01
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$0.77		\$1.33
BREAK-EVEN PRICE TO COVER TOTAL COST		\$6.78		\$7.34

**Table 8C. Variable Operating Costs; Fall Cabbage, 2001**

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop  
 CROP: Cabbage ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam  
 AREA: Salt River Project YIELD: 746.0 Ct / Acre PREVIOUS CROP: Watermelons 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	Aug	Rip	0.225	0.250	2.86	2.44			5.29	0.5	2.65	L
2	Aug	Plow	0.450	0.500	6.50	4.87			11.37	1.0	11.37	L
3	Aug	Disk	0.225	0.250	3.43	2.44			5.86	3.0	17.59	L
4	Aug	Laser Level	0.450	0.500	5.54	4.87			10.42	0.5	5.21	L
5	Sep	Soil Fertility					3.00		3.00	1.0	3.00	G
6	Sep	Apply Herbicide/Ground	0.225	0.250	1.02	2.44		3.30	6.75	1.0	6.75	G
7	Sep	List	0.225	0.250	2.02	2.44			4.46	1.0	4.46	L
8	Sep	Plant	0.600	1.334	5.82	13.00		241.63	260.45	1.0	260.45	L
9	Sep	Apply Insect./Ground	0.150	0.167	0.90	1.63		77.75	80.28	1.0	80.28	G
10	Sep	Buck Rows	0.045	0.050	0.19	0.49			0.68	5.0	3.41	G
11	Sep	Irrigate		1.000		9.75		2.14	11.89	7.0	83.24	G
12	Sep	Disk Ends	0.045	0.050	0.27	0.49			0.76	5.0	3.79	G
13	Sep	Apply Insect./Ground	0.150	0.167	0.86	1.62		30.21	32.69	1.0	32.69	G
14	Sep	Thinning					75.00		75.00	1.0	75.00	G
15	Sep	Cultivate/Side Dress	0.180	0.200	2.17	1.95		29.95	34.07	2.0	68.13	G
16	Sep	Apply Fert/Ground	0.450	0.500	3.73	4.87		32.37	40.97	2.0	81.94	G
17	Sep	Hand Weeding					75.00		75.00	2.0	150.00	G
18	Sep	Apply Insect./Ground	0.225	0.250	1.15	2.44		9.70	13.29	1.0	13.29	G
19	Sep	Cultivate	0.563	0.625	3.39	6.09			9.49	2.0	18.97	G
20	Oct	Apply Fert/Ground	0.450	0.500	2.04	4.87		27.90	34.82	2.0	69.64	G
21	Nov	Apply Insect./Ground	0.225	0.250	1.15	2.44		13.76	17.34	1.0	17.34	G
22	Dec	Harvest/Field Pack 746 Ct					2424.50	749.10	3173.60	1.0	3173.60	H
23	Dec	Haul, Custom 746 Ct					261.10		261.10	1.0	261.10	H
24	Dec	Disk Residue 746 Ct	0.225	0.250	3.43	2.44			5.86	1.0	5.86	L
		Pickup Use 50 Mi/Acre	1.667		12.71						12.71	
		Operating Interest at 10.0					18.67				18.67	
TOTAL CASH OPERATING EXPENSES (includes all times over):											4481.13	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

Land Preparation (L)	307.59
Growing (G)	707.47
Harvest (H)	3,434.70
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	31.38
Total (T)	\$4,481.13

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

Prices ->	- 25%	- 10%	Budgeted	+ 10%	+ 25%	Break-even Price
Yields	\$2.73	\$3.28	\$3.64	\$4.00	\$4.55	
- 25%	559.5	-2,226.36	-1,920.87	-1,717.21	-1,513.55	6.71
- 10%	671.4	-2,436.07	-2,069.49	-1,825.10	-1,580.71	6.36
Budgeted	746.0	-2,575.88	-2,168.57	-1,897.02	-1,625.48	6.18
+ 10%	820.6	-2,715.70	-2,267.65	-1,968.95	-1,670.25	6.04
Break-even Yield		-628.43	-886.77	-1,221.56	-1,962.46	-21,750.1

**Table 8D. Resource and Cash Flow Requirements; Fall Cabbage, 2001**

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop  
 CROP: Cabbage ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam  
 AREA: Salt River Project YIELD: 746.0 Ct / Acre PREVIOUS CROP: Watermelons 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
JUL C			0.13		1.43	1.22				2.65
AUG C			1.25		16.12	12.19				28.31
SEP C	3.0	18.0	6.32		20.86	61.59	173.57	241.63	153.00	650.65
OCT C	3.0	18.0	6.45	10.00	19.03	62.88	127.83		75.00	294.74
NOV C	1.0	6.0	1.30	5.00	1.42	12.67	13.76			32.85
DEC C			0.25		3.43	2.44		749.10	2685.60	3440.57
Pickup Use 50 Mi/Acre					12.71					12.71
Operating Interest at 10.0									18.67	18.67
Water Assessment				**						
<b>Total</b>	<b>7.0</b>	<b>42.0</b>	<b>15.69</b>	<b>15.00</b>	<b>75.00</b>	<b>152.99</b>	<b>315.16</b>	<b>990.73</b>	<b>2932.27</b>	<b>4481.15</b>
<b>%</b>				<b>0.33</b>	<b>1.67</b>	<b>3.41</b>	<b>7.03</b>	<b>22.11</b>	<b>65.44</b>	<b>100.00</b>

**TOTAL RESOURCE REQUIREMENTS (per Acre)**

Total N 411.3  
 Total P 230.0  
 Total Labor 15.7  
 Total Water 42.0

**TOTAL ENERGY REQUIREMENTS (per Acre)**

Diesel Fuel 28.0 Gal  
 Unleaded Gas 5.0 Gal  
 All Direct Energy 4.6 M BTU

**EQUIPMENT REQUIREMENTS (per Acre)**

Bed Shaper, 4 Rw	0.60 Hr	Cultivator, Sweep, 4 Rw	1.49 Hr	Directed Spray Rig, 8	0.45 Hr
Directed Spray Rig, 16	0.15 Hr	Drag Scraper, 14'	0.22 Hr	Fert. Side Dress Unit,	1.26 Hr
Fertilizer Broadcaster,	1.13 Hr	High Clearance Sprayer,	0.15 Hr	Laser, Complete System	0.22 Hr
Lister, 5 Bottom	0.22 Hr	Moldboard Plow, 4-16 2	0.45 Hr	Offset Disk, 10.5'	0.23 Hr
Offset Disk, 16.5'	0.90 Hr	Pickup Truck, 1/2 Ton	1.67 Hr	Planter, Stanhay, 2 Row	0.60 Hr
Rowbuck, 10'	0.23 Hr	Tractor, 50 PTO HP,	3.08 Hr	Tractor, 60 PTO HP,	1.13 Hr
Tractor, 70 PTO HP,	0.60 Hr	Tractor, 80 PTO HP,	0.36 Hr	Tractor, 100 PTO HP,	0.22 Hr
Tractor, 150 PTO HP,	1.69 Hr	V-Ripper, 5 Shnk	0.11 Hr		

**MATERIALS REQUIREMENT (per Acre)**

18-46-00, Dry	500.00 Lb	32-00-00, URAN 32, Lqd	60.00 Ga	33-00-00, Amm. Nitrate,	330.00 Lb
Boxes & Supplies	746.00 Ct	BT	4.00 Lb	Cabbage Seed (Hybrid)	90.00 Th
Imidacloprid	16.00 Oz	Methomyl	3.00 Pt	Spinosad	6.00 Oz
Trifluralin	1.00 Pt	Water, District	42.00 Al		

**LABOR REQUIREMENT ( per Acre)**

Irrigators 7.00 Hr Other 0.67 Hr Tractor 8.03 Hr

\*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 8E. Schedule of Operations; Fall Cabbage, 2001**

COUNTY: Maricopa      FARM: Maricopa Veg      WATER SOURCE: Salt River Project      TILLAGE: Double Crop  
 CROP: Cabbage      ACRES: 1.0      IRRIGATION SYSTEM: Flood Furrow      SOIL: Sandy-Loam  
 AREA: Salt River Project      YIELD: 746.0 Ct / Acre      PREVIOUS CROP: Watermelons      DATE: 9/11/01

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		
Aug	0.5	Rip	150	V-Ripper, 5 Shnk	4.00					Tractor
Aug	1.0	Plow	150	Moldboard Plow, 4-16 2	2.00					Tractor
Aug	3.0	Disk	150	Offset Disk, 16.5'	4.00					Tractor
Aug	0.5	Laser Level	150	Drag Scraper, 14' Laser, Complete System	2.00					Tractor
Sep	1.0	Soil Fertility		CST Soil Analysis (Surface)					3.00	Ac
Sep	1.0	Apply Herbicide/Ground	50	Fertilizer Broadcaster, Trifluralin	4.00		1.00	Pt	24.95	Ga
Sep	1.0	List	100	Lister, 5 Bottom	4.00					Tractor
Sep	1.0	Plant	70	Planter, Stanhay, 2 Row Cabbage Seed (Hybrid)	1.50		90.00	Th	2.54	Th
				Bed Shaper, 4 Rw						Other
Sep	1.0	Apply Insect./Ground	50	Directed Spray Rig, 16 Row Imidacloprid	6.00		16.00	Oz	588.40	Ga
Sep	5.0	Buck Rows	50	Rowbuck, 10'	20.00					Tractor
Sep	7.0	Irrigate		Water, District	1.00		6.00	Al	4.29	AF
Sep	5.0	Disk Ends	50	Offset Disk, 10.5'	20.00					Tractor
Sep	1.0	Apply Insect./Ground		High Clearance Sprayer, 18 Spinosad	6.00		6.00	Oz	609.67	Ga
Sep	1.0	Thinning		CST Thinning					75.00	Ac
Sep	2.0	Cultivate/Side Dress	80	Cultivator, Sweep, 4 Rw Fert. Side Dress Unit, 4Row	5.00		30.00	Ga	170.80	Tn
Sep	2.0	Apply Fert/Ground	50	Fert. Side Dress Unit, 4Row	2.00		250.00	Lb	245.00	Tn
Sep	2.0	Hand Weeding		CST Hand Weeding					75.00	Ac
Sep	1.0	Apply Insect./Ground	50	Directed Spray Rig, 8 Row Methomyl	4.00		1.50	Pt	48.94	Ga
Sep	2.0	Cultivate	60	Cultivator, Sweep, 4 Rw	1.60					Tractor
Oct	2.0	Apply Fert/Ground	50	Fertilizer Broadcaster, 33-00-00, Amm. Nitrate,	2.00		165.00	Lb	320.00	Tn
Nov	1.0	Apply Insect./Ground	50	Directed Spray Rig, 8 Row Methomyl	4.00		1.50	Pt	48.94	Ga
				BT			4.00	Lb	0.96	Lb
Dec	1.0	Harvest/Field Pack		CST Harvest Cabbage Boxes & Supplies			746.00	Ct	0.95	Ct
Dec	1.0	Haul, Custom		CST Haul Cabbage					0.35	Ct
Dec	1.0	Disk Residue	150	Offset Disk, 16.5'	4.00					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 8F. Operations Calendar; Fall Cabbage, 2001**

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: SRP TILLAGE: Conventional  
 CROP: Cabbage ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam  
 AREA: Salt River Project YIELD: 746 Ct./Acre PREVIOUS CROP: Watermelons 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							0.5 C					
2	Plow								1.0 C				
3	Disk								2.0 C	1.0 C			
4	Laser Level								0.5 C				
5	Soil Fertility									1.0 C			
6	Apply Herbicide/Ground									1.0 C			
7	List									1.0 C			
8	Plant									1.0 C			
9	Apply Insect/Ground									1.0 C			
10	Buck Rows									2.0 C	3.0 C		
11	Irrigate									3.0 C	3.0 C	1.0 C	
12	Disk Ends									2.0 C	2.0 C	1.0 C	
13	Apply Insect/Ground									1.0 C			
14	Thinning									1.0 C			
15	Cultivate/Side Dress									1.0 C	1.0 C		
16	Apply Fert/Ground									1.0 C	1.0 C		
17	Hand Weeding									1.0 C	1.0 C		
18	Apply Insect/Ground										1.0 C		
19	Cultivate										2.0 C		
20	Apply Fert/Ground										2.0 C		
21	Apply Insect/Ground											1.0 C	
22	Harvest/Field Pack												1.0 C
23	Haul, Custom												1.0 C
24	Disk Residue												1.0 C

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