

COUNTY: Maricopa FARM: Maricopa Vegetables WATER SOURCE: SRP TILLAGE: Conventional
 CROP: Onions, Dry ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Salt River Project YIELD: 966.0 Sk/Acre PREVIOUS CROP: Cantaloups DATE: 08/20/95

Item	Unit	Quantity	Price /Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Onions	Sack	966.00	\$5.3800	\$5,197.08	\$5,197.08	
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					119.07	
Tractor/Self Propelled				50.48		
Irrigation				58.80		
Other/Contract				9.80		
Chemicals & Custom Applications					180.74	
Fertilizers				113.20		
Insecticides				7.40		
Herbicides				60.13		
Farm Machinery and Vehicles					48.42	
Diesel Fuel				16.70		
Repairs & Maint.				31.72		
Irrigation Water (excluding labor)					17.55	
Water Assessment (See Note Below) **					**	
Other Purchased Inputs & Services					969.00	
Seed/Transplants				966.00		
Other Services & Rentals				3.00		
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					1,334.78	
CASH HARVEST AND POST HARVEST EXPENSES						
Paid Labor (including benefits)					0.49	
Tractor/Self Propelled				0.49		
Farm Machinery and Vehicles					0.45	
Diesel Fuel				0.15		
Repairs & Maint.				0.30		
Custom Harvest/Post Harvest					3,178.14	
Other Materials					1,673.60	
TOTAL HARVEST AND POST HARVEST EXPENSE					4,852.67	
OPERATING OVERHEAD->PICKUP USE						13.81
OPERATING INTEREST AT 9.0%						56.79
TOTAL CASH OPERATING EXPENSES					\$6,258.05	
RETURNS OVER CASH OPERATING EXPENSES					(\$1,060.97)	

Notes: The above figures do not include ownership costs, see Table 11B on Next Page for detailed cost allocation.

** A water assessment charge of \$20.36/Acre is included in the ownership costs of Table 11B.

COUNTY: Maricopa FARM: Maricopa Vegetables WATER SOURCE: SRP TILLAGE: Conventional
 CROP: Onions, Dry ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Salt River Project YIELD: 966.0 Sk/Acre PREVIOUS CROP: Cantaloups DATE: 08/20/95

Item	- CASH COST BASIS (\$/ACRE) --		- TOTAL COST BASIS (\$/ACRE) -	
	Income & Costs	Net Returns	Income & Costs	Net Returns
TOTAL INCOME at \$ 5.3800/Sk	\$5,197.08		\$5,197.08	
TOTAL OPERATING EXPENSES	6,258.05		6,258.05	
RETURN OVER CASH OPERATING EXPENSES		(\$1,060.97)		(\$1,060.97)
CASH OVERHEAD EXPENSES				
Taxes, Housing & Insur., Farm Machinery	6.45		6.45	
Gen. & Off. Overhead (5% of Tot. Oper. Exp.)	312.90		312.90	
General Farm Maint. (3% of Tot. Oper. Exp.)	187.74		187.74	
Total Cash Overhead Expenses	507.09		507.09	
Total Cash Oper. & Over. Cost	6,765.14		6,765.14	
RETURNS OVER CASH OPER. & OVER. EXPENSES.		(1,568.06)		(1,568.06)
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery & Vehicles			35.43	
Interest on Equity, Machinery & Vehicles			16.97	
Total Capital Allocations			52.40	
RETURNS TO LAND, CAPITAL, MANAGEMENT & RISK		(1,568.06)		
RETURNS TO LAND, MANAGEMENT & RISK				(1,620.47)
Land Cost / Rent or Lease	200.00		200.00	
Water Assessment **	20.36		20.36	
Total Land Costs	220.36		220.36	
RETURNS TO MANAGEMENT, CAPITAL & RISK		(1,788.42)		
RETURNS TO MANAGEMENT & RISK				(1,840.83)
Management Services (8% of Tot. Oper. Exp.)			500.64	
TOTAL OWNERSHIP COST	727.45		1,280.50	
TOTAL COST	\$6,985.50		\$7,538.55	
RETURN TO MANAGEMENT, CAPITAL & RISK		(\$1,788.42)		
RETURN TO RISK (PROFITS)				(\$2,341.47)
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Sk)		\$6.47		\$6.47
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$0.75		\$1.32
BREAK-EVEN PRICE TO COVER TOTAL COST		\$7.23		\$7.80

Table 11C. Variable Operating Costs; Dry Onions, 1995

COUNTY: Maricopa FARM: Maricopa Vegetables WATER SOURCE: SRP TILLAGE: Conventional
 CROP: Onions, Dry ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Salt River Project YIELD: 966.0 Sk/Acre PREVIOUS CROP: Cantaloups DATE: 08/20/95

No.	Month	First Operation	Hours		Operating Costs (\$/Acre*)					Tot. Cash Expense	Class	
			Machine	Labor	Fuel/Rps.	Labor	Cust/Ser.	Materials	Total			
1	Jul	Rip	0.450	0.500	4.79	4.90			9.69	0.5	4.84	L
2	Jul	Disk	0.150	0.167	2.18	1.64			3.82	4.0	15.26	L
3	Aug	Plow	0.450	0.500	6.68	4.90			11.58	1.0	11.58	L
4	Aug	Laser Level	0.450	0.500	4.96	4.90			9.86	0.5	4.93	L
5	Oct	Soil Fertility					3.00		3.00	1.0	3.00	G
6	Nov	Apply Fert/Ground	0.180	0.200	0.93	1.96		47.88	50.77	1.0	50.77	G
7	Nov	List	0.225	0.250	1.89	2.45			4.34	1.0	4.34	L
8	Nov	Plant	0.900	2.000	11.36	19.60		966.00	996.96	1.0	996.96	L
9	Nov	Apply Herbicide/Ground	0.225	0.250	1.03	2.45		53.03	56.51	1.0	56.51	G
10	Nov	Buck Rows	0.045	0.050	0.16	0.49			0.65	2.0	1.31	G
11	Nov	Irrigate		0.400		3.92		1.17	5.09	15.0	76.35	G
12	Nov	Disk Ends	0.045	0.050	0.24	0.49			0.73	2.0	1.47	G
13	Nov	Apply Herbicide/Ground	0.225	0.250	1.03	2.45		7.11	10.59	1.0	10.59	G
14	Dec	Cultivate	0.225	0.250	1.37	2.45			3.82	2.0	7.65	G
15	Feb	Apply Fert/Ground	0.300	0.333	3.09	3.26		32.66	39.01	2.0	78.03	G
16	Mar	Apply Insecticide/Air					3.60	3.80	7.40	1.0	7.40	G
17	Apr	Prepare Ends	0.045	0.050	0.45	0.49			0.94	1.0	0.94	H
18	May	Harvest	966.0 Sk				2,096.22	557.87	2,654.09	1.0	2,654.09	H
19	May	Field Grade	966.0 Sk				966.00	1,115.73	2,081.73	1.0	2,081.73	H
20	May	Haul, Custom	966.0 Sk				115.92		115.92	1.0	115.92	H
21	Jun	Disk Residue	0.150	0.167	2.18	1.64			3.82	1.0	3.82	L
		Pickup Use 60 Mi/Ac	2.000		13.81						13.81	O
		Operating Interest at 9.00%					56.77				56.77	O
TOTAL CASH OPERATING EXPENSES:					\$62.68	\$119.58	\$3,241.51	\$2,834.29			\$6,258.06	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 \$20.36/Acre included as ownership cost in Table 11B.

OPERATING COST SUMMARY BY CLASS		SENSITIVITY OF NET REVENUES OVER TOTAL CASH EXPENSES (\$/Acre)							
		Prices ->		-25%	-10%	Budgeted	+10%	+25%	
Land Preparation (L)	\$1,041.73								
Growing (G)	293.06								
Harvest (H)	4,852.67	Yields		\$4.03	\$4.84	\$5.38	\$5.91	\$6.72	
Post Harvest (P)	0.00							Break-even	
Marketing (M)	0.00	-25%	724.5	-2,121.53	-1,536.86	-1,147.08	-757.30	-172.62	6.96
Operating Overhead (O)	70.58	-10%	869.4	-2,264.76	-1,563.15	-1,095.42	-627.68	73.92	6.63
		Budgeted	966.0	-2,360.25	-1,580.68	-1,060.98	-541.27	238.28	6.47
Total (T)	\$6,258.06	+10%	1,062.6	-2,455.73	-1,598.22	-1,026.54	-454.86	402.65	6.34
		+25%	1,207.5	-2,598.96	-1,624.51	-974.88	-325.24	649.20	6.18
		Break-even Yield		-1,421.76	-7,744.18	3,941.90	1,571.09	825.95	

COUNTY: Maricopa FARM: Maricopa Vegetables WATER SOURCE: SRP TILLAGE: Conventional
 CROP: Onions, Dry ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Salt River Project YIELD: 966.0 Sk/Acre PREVIOUS CROP: Cantaloups DATE: 08/20/95

Month *	Number Irrig.	Water Applied (Inches)	Total Labor (Hrs)	Operating Cost (\$/Acre)							
				Purchased Water	Fuel, Oil & Repairs	Labor	Chemicals	Other Purchases	Services	Total	
JUL P			0.58		6.74	5.72					12.47
AUG P			0.75		9.16	7.35					16.51
OCT P			0.16		2.18	1.64					3.81
NOV P	3.0	9.0	4.41		18.82	43.28	108.02	966.00			1,136.12
DEC P	3.0	9.0	1.50		1.54	14.70					16.24
JAN C	2.0	6.0	1.05		1.37	10.29					11.66
FEB C	2.0	6.0	1.18	5.00	3.34	11.59	32.66				52.59
MAR C	2.0	6.0	1.13	5.00	3.09	11.10	36.46		3.60		59.26
APR C	3.0	9.0	1.25	7.50	0.45	12.25					20.20
MAY C								1,673.60	3,178.14		4,851.74
JUN C			0.16		2.18	1.64					3.81
OCT C									3.00		3.00
Pickup Use 60 Mi/Ac						13.81					13.81
Operating Interest at 9.0%									56.56		56.56
Water Assessment				**							
Total	15.0	45.0	12.20	17.50	62.68	119.56	177.14	2,639.60	3,241.30		6,257.78
%				0.28	1.00	1.91	2.83	42.18	51.79		100.00

TOTAL RESOURCES REQUIREMENTS(/Acre)		TOTAL ENERGY REQUIREMENTS(/Acre)	
Total N	252.4 lbs	Diesel Fuel	24.7 Gal
Total P	212.0 lbs	Regular Gas	0.0 Gal
Total K	0.0 lbs	NonLead Gas	6.0 Gal
Total Labor	12.2 Hrs		
Total Water	45.0 AI	All Direct Energy	4.1 M BTU

EQUIPMENT REQUIREMENTS(/Acre)			
Tractor, 150 PTO HP, MFWD	1.65 Hrs	V-Ripper, 5 Shnk	0.23 Hrs Offset Disk, 18' 0.75 Hrs
Moldboard Plow, 4-16 2 Way	0.45 Hrs	Drag Scraper, 14'	0.23 Hrs Laser Receiver, Mast System 0.23 Hrs
Laser Trailer	0.23 Hrs	Tractor, 70 PTO HP, MFWD	0.63 Hrs Fertilizer Broadcaster, Towed 0.18 Hrs
Tractor, 100 PTO HP, MFWD	1.77 Hrs	Lister, 5 Bottom	0.23 Hrs Planter/Gramor, 4 Bd,8 Line/Be 0.90 Hrs
Bed Shaper, 4 Rw	0.90 Hrs	Tractor, 50 PTO HP, MFWD	0.63 Hrs Directed Spray Rig, 8 Row 0.45 Hrs
Rowbuck, 10'	0.09 Hrs	Offset Disk, 10.5'	0.09 Hrs Cultivator, Sweep, 4 Rw 0.45 Hrs
Fertilizer Injector, 4 Row	0.60 Hrs	Offset Disk, 13.5'	0.05 Hrs Pickup Truck, 1/2 Ton 2.00 Hrs

MATERIALS REQUIREMENTS(/Acre)			
10-53-00, Dry	400.00 Lb	Onion Seed (Pelletized)	1,000.00 Th DCPA 10.00 Lb
Water, District	45.00 AI	Bromoxynil	1.00 Pt 32-00-00, URAN 32, Lqd 60.00 Ga
Methyl Parathion	1.00 Pt	Burlap Sacks	966.00 Sk Onion Bags 966.00 Sk

LABOR REQUIREMENTS(/Acre)			
Tractor	5.20 Hrs	Other	1.00 Hrs Irrigators 6.00 Hrs

* NOTE: P = Previous Year C = Current Year N = Next Year
 ** A water assessment charge of \$20.36/Acre included as ownership cost in Table 11B.

COUNTY: Maricopa FARM: Maricopa Vegetables WATER SOURCE: SRP TILLAGE: Conventional
 CROP: Onions, Dry ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Salt River Project YIELD: 966.0 Sk/Acre PREVIOUS CROP: Cantaloups DATE: 08/20/95

No.	First Month	Times	Operation	Equipment/Custom Oper. HP Self-Prop./Implem.	Job Rate Acres/Hr	Material Use & Cost Name Appl. Rate	Service Cost \$/Unit	Labor \$/Unit	Labor Type
1	Jul	0.5	Rip	150 V-Ripper, 5 Shnk	2.00				Tractor
2	Jul	4.0	Disk	150 Offset Disk, 18'	6.00				Tractor
3	Aug	1.0	Plow	150 Moldboard Plow, 4-16 2	2.00				Tractor
4	Aug	0.5	Laser Level	150 Drag Scraper, 14' Laser Receiver, Mast Sy Laser Trailer	2.00				Tractor
5	Oct	1.0	Soil Fertility	CST Soil Analysis (Surf)				3.00 Ac	
6	Nov	1.0	Apply Fert/Ground	70 Fertilizer Broadcaster,	5.00	10-53-00, Dry 400.00 Lb	228.00 Tn		Tractor
7	Nov	1.0	List	100 Lister, 5 Bottom	4.00				Tractor
8	Nov	1.0	Plant	100 Planter/Gramor, 4 Bd,8 Bed Shaper, 4 Rw	1.00	Onion Seed (Pellet)1000.00 Th	0.92 Th		Tractor Other
9	Nov	1.0	Apply Herbicide/Groun	50 Directed Spray Rig, 8	4.00	DCPA 10.00 Lb	5.05 Lb		Tractor
10	Nov	2.0	Buck Rows	50 Rowbuck, 10'	20.00				Tractor
11	Nov	15.0	Irrigate		2.50	Water, District 3.00 AI	0.00 AF		Irrigator
12	Nov	2.0	Disk Ends	50 Offset Disk, 10.5'	20.00				Tractor
13	Nov	1.0	Apply Herbicide/Groun	50 Directed Spray Rig, 8	4.00	Bromoxynil 1.00 Pt	54.17 Ga		Tractor
14	Dec	2.0	Cultivate	70 Cultivator, Sweep, 4 Rw	4.00				Tractor
15	Feb	2.0	Apply Fert/Ground	100 Fertilizer Injector, 4	3.00	32-00-00, URAN 32, 30.00 Ga	187.50 Tn		Tractor
16	Mar	1.0	Apply Insecticide/Air	CST Air Spray, 3 Gal Mi		Methyl Parathion 1.00 Pt	28.93 Ga	3.60 Ac	
17	Apr	1.0	Prepare Ends	100 Offset Disk, 13.5'	20.00				Tractor
18	May	1.0	Harvest	CST Cut/Top/Field Sack		Burlap Sacks 966.00 Sk	0.55 Sk	2.17 Sk	
19	May	1.0	Field Grade	CST Grade/Size/Pack Oni		Onion Bags 966.00 Sk	1.10 Sk	1.00 Sk	
20	May	1.0	Haul, Custom	CST Field Haul Dry Onio				0.12 Sk	
21	Jun	1.0	Disk Residue	150 Offset Disk, 18'	6.00				Tractor
			Pickup Use 60 Mi/Ac	Pickup Truck, 1/2 Ton	0.50				

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

** A water assessment charge of \$20.36/Acre included as ownership cost in Table 11B.