

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

COUNTY: Pinal FARM: Pinal Vegetables WATER SOURCE: Maricopa-Stanfield Irrig. TILLAGE: Conventional
 CROP: Onions, Dry ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Maricopa YIELD: 404.0 Sk / Acre PREVIOUS CROP: Cotton, Upland DATE: 10/8/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Onions	Sack	404.00	\$9.33	\$3,769.32	\$3,769.32	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					80.66	_____
Tractor/Self Propelled				39.24		_____
Irrigation				33.74		_____
Other/ Contract				7.67		_____
Chemicals and Custom Applications					239.42	_____
Fertilizer				108.41		_____
Herbicide				131.02		_____
Farm Machinery and Vehicles					45.27	_____
Diesel Fuel				17.31		_____
Repairs and Maintenance				27.96		_____
Irrigation Water (excluding labor)					122.83	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs & Seed/Transplants				943.40	946.40	_____
Other Services and Rentals				3.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					1434.58	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Paid Labor (including benefits)					0.44	_____
Tractor/Self Propelled				0.44		_____
Farm Machinery and Vehicles					0.49	_____
Diesel Fuel				0.19		_____
Repairs and Maintenance				0.29		_____
Custom Harvest/Post Harvest					1329.16	_____
Other Materials					376.85	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					1706.94	_____
OPERATING OVERHEAD -> PICKUP USE					15.32	_____
OPERATING INTEREST AT 10.0%					61.38	_____
TOTAL CASH OPERATING EXPENSES					\$3,218.22	_____
RETURNS OVER CASH OPERATING EXPENSES					\$551.10	_____

Notes: The above figures do not include ownership costs, see table B for detailed cost allocation.

** A water assessment charge of \$25.00 per Acre is included as an ownership cost in Table B.

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

COUNTY: Pinal FARM: Pinal Vegetables WATER SOURCE: Maricopa-Stanfield Irrig. TILLAGE: Conventional
 CROP: Onions, Dry ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Maricopa YIELD: 404.0 Sk / Acre PREVIOUS CROP: Cotton, Upland DATE: 10/8/01

Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$9.33 / Sk	\$3,769.32		\$3,769.32	
TOTAL OPERATING EXPENSES	\$3,218.22		\$3,218.22	
RETURN OVER CASH OPERATING EXPENSES		\$551.10		\$551.10
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	5.76		5.76	
General and Office Overhead (5.0%of Total Operating Exp.)	160.91		160.91	
General Farm Maintenance (3.0% of Total Operating Exp.)	96.55		96.55	
Total Cash Overhead Expenses	263.22		263.22	
Total Cash Operating and Overhead Cost	3,481.44		3,481.44	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		\$287.88		\$287.88
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			31.43	
Interest on Equity, Machinery and Vehicles			13.49	
Total Capital Allocations			44.93	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->		\$287.88		
RETURNS TO LAND, MANAGEMENT AND RISK ----->				\$242.95
Land Cost / Rent or Lease	100.00		100.00	
Water Assessment **	25.00		25.00	
Total Land Costs	125.00		125.00	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$162.88		
RETURNS TO MANAGEMENT AND RISK ----->				\$117.95
Management Services (8% of Total Operation Expenses)			257.46	
TOTAL OWNERSHIP COST	388.22		690.60	
TOTAL COST	\$3,606.44		\$3,908.82	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$162.88		
RETURNS TO RISK (PROFITS) ----->				(\$139.50)
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)		\$7.97		\$7.97
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$0.96		\$1.71
BREAK-EVEN PRICE TO COVER TOTAL COST		\$8.93		\$9.68

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

COUNTY: Pinal FARM: Pinal Vegetables WATER SOURCE: Maricopa-Stanfield Irrig. TILLAGE: Conventional
 CROP: Onions, Dry ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Maricopa YIELD: 404.0 Sk / Acre PREVIOUS CROP: Cotton, Upland DATE: 10/8/01

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	Oct	Disk	0.225	0.250	2.81	2.19			5.00	3.0	15.01	L
2	Oct	Plow	0.321	0.357	4.11	3.13			7.25	1.0	7.25	L
3	Nov	List	0.300	0.333	2.71	2.92			5.63	1.0	5.63	L
4	Nov	Buck Rows	0.045	0.050	0.23	0.44			0.67	3.0	2.01	G
5	Nov	Preirrigate		0.800		6.14			22.33	1.0	28.47	G
6	Nov	Soil Fertility					3.00		3.00	1.0	3.00	G
7	Nov	Disk Ends	0.045	0.050	0.27	0.44			0.71	2.0	1.43	G
8	Nov	Apply Fert/Ground	0.180	0.200	0.96	1.75		48.34	51.05	1.0	51.05	G
9	Nov	Plant	0.900	2.000	13.27	16.44		943.40	973.11	1.0	973.11	L
10	Nov	Apply Herbicide/Ground	0.225	0.250	1.38	2.19		65.51	69.08	2.0	138.16	G
11	Nov	Irrigate		0.400		3.07		11.17	14.23	9.0	128.11	G
12	Dec	Cultivate	0.225	0.250	2.47	2.19			4.66	1.0	4.66	G
13	Feb	Apply Fert/Ground	0.300	0.333	3.44	2.92		30.04	36.39	2.0	72.79	G
14	Apr	Prepare Ends	0.045	0.050	0.49	0.44			0.93	1.0	0.93	H
15	May	Harvest 404 Sk					876.68	214.12	1090.80	1.0	1090.80	H
16	May	Field Grade 404 Sk					404.00	162.73	566.73	1.0	566.73	H
17	May	Haul, Custom 404 Sk					48.48		48.48	1.0	48.48	H
18	Jun	Disk Residue 404 Sk	0.150	0.167	2.45	1.47			3.92	1.0	3.92	L
		Pickup Use 60 Mi/Acre	2.000		15.32						15.32	
		Operating Interest at 10.0					61.38				61.38	
TOTAL CASH OPERATING EXPENSES (includes all times over):											3218.22	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 \$25.00 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS

Land Preparation (L)	1,004.92
Growing (G)	429.67
Harvest (H)	1,706.94
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	76.70
Total (T)	\$3,218.22

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

Prices ->	Yields					Break-even Price
	- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields	\$7.00	\$8.40	\$9.33	\$10.26	\$11.66	9.01
- 25%	303.0	-609.86	-185.82	96.88	379.58	803.63
- 10%	363.6	-441.86	67.00	406.24	745.48	1,254.34
Budgeted	404.0	-329.85	235.55	612.48	989.41	1,554.81
+ 10%	444.4	-217.84	404.09	818.72	1,233.34	1,855.28
+ 25%	505.0	-49.84	656.91	1,128.08	1,599.24	2,305.99
Break-even Yield		522.98	347.54	284.02	240.13	194.95

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

COUNTY: Pinal FARM: Pinal Vegetables WATER SOURCE: Maricopa-Stanfield Irrig. TILLAGE: Conventional
 CROP: Onions, Dry ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Maricopa YIELD: 404.0 Sk / Acre PREVIOUS CROP: Cotton, Upland DATE: 10/8/01

Month *	Number Irrigations	Water Applied (inches)	Total Labor (Hrs)	Operating Costs (\$/ACRE *)							
				Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total	
OCT P			0.86		9.74	7.52					17.25
NOV P	2.0	12.0	4.33	33.50	21.63	35.56	113.84	943.40	3.00		1150.93
DEC P	1.0	4.0	0.95	11.17	4.08	7.89	65.51				88.65
JAN C	1.0	4.0	0.50	11.17	0.50	3.94					15.61
FEB C	1.0	4.0	0.73	11.17	3.44	5.99	30.04				50.64
MAR C	2.0	8.0	1.13	22.33	3.44	9.06	30.04				64.87
APR C	3.0	12.0	1.25	33.50	0.49	9.64					43.63
MAY C								376.85	1329.16		1706.01
JUN C			0.17		2.45	1.47					3.92
Pickup Use 60 Mi/Acre					15.32						15.32
Operating Interest at 10.0									61.38		61.38
Water Assessment				**							
Total	10.0	44.0	9.92	122.84	61.09	81.07	239.43	1320.25	1393.54		3218.22
%				3.82	1.90	2.52	7.44	41.02	43.30		100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)		TOTAL ENERGY REQUIREMENTS (per Acre)	
Total N	252.4	Diesel Fuel	20.3 Gal
Total P	212.0	Unleaded Gas	6.0 Gal
Total Labor	9.9	All Direct Energy	3.6 M BTU
Total Water	44.0		

EQUIPMENT REQUIREMENTS (per Acre)			
Bed Shaper, 4 Rw	0.90 Hr	Cultivator, Sweep, 4 Rw	0.22 Hr
Fertilizer Injector, 4 Row	0.60 Hr	Lister, 5 Bottom	0.30 Hr
Offset Disk, 12'	0.67 Hr	Offset Disk, 13.5'	0.05 Hr
Offset Disk, 8'	0.09 Hr	Pickup Truck, 1/2 Ton	2.00 Hr
Rowbuck, 10'	0.14 Hr	Saddle Tk Sprayer, 2 Tk 8	0.45 Hr
Tractor, 100 PTO HP,	1.84 Hr	Tractor, 125 PTO HP,	1.22 Hr
		Fertilizer Broadcaster,	0.18 Hr
		Moldboard Plow, 4-16 2	0.32 Hr
		Offset Disk, 18'	0.15 Hr
		Planter/Gramor, 4 Bd,8	0.90 Hr
		Tractor, 60 PTO HP,	0.86 Hr
		Tractor, 150 PTO HP,	0.15 Hr

MATERIALS REQUIREMENT (per Acre)			
10-53-00, Dry	400.00 Lb	32-00-00, URAN 32, Lqd	60.00 Ga
D CPA	20.00 Lb	Onion Bags 50# Mesh	404.00 Sk
Water, District	44.00 Al	Burlap Sacks	404.00 Sk
		Onion Seed (Pelletized)	1000.00 Th

LABOR REQUIREMENT (er Acre)			
Irrigators	4.40 Hr	Other	1.00 Hr
		Tractor	4.52 Hr

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

** A water assessment charge of \$25.00 per Acre is included as an ownership cost in Table B.

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

COUNTY: Pinal FARM: Pinal Vegetables WATER SOURCE: Maricopa-Stanfield Irrig. TILLAGE: Conventional
 CROP: Onions, Dry ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Maricopa YIELD: 404.0 Sk / Acre PREVIOUS CROP: Cotton, Upland DATE: 10/8/01

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			
Oct	3.0	Disk	125	Offset Disk, 12'	4.00						Tractor
Oct	1.0	Plow	125	Moldboard Plow, 4-16 2	2.80						Tractor
Nov	1.0	List	100	Lister, 5 Bottom	3.00						Tractor
Nov	3.0	Buck Rows	60	Rowbuck, 10'	20.00						Tractor
Nov	1.0	Preirrigate			1.25	Water, District	8.00	Al	33.50	AF	Irrigators
Nov	1.0	Soil Fertility		CST Soil Analysis (Surface)							3.00 Ac
Nov	2.0	Disk Ends	60	Offset Disk, 8'	20.00						Tractor
Nov	1.0	Apply Fert/Ground	60	Fertilizer Broadcaster,	5.00	10-53-00, Dry	400.00	Lb	228.00	Tn	Tractor
Nov	1.0	Plant	100	Planter/Gramor, 4 Bd,8 Bed Shaper, 4 Rw	1.00	Onion Seed (Pelletized)	1000.00	Th	0.89	Th	Tractor Other
Nov	2.0	Apply Herbicide/Ground	60	Saddle Tk Sprayer, 2 Tk 8	4.00	DCPA	10.00	Lb	6.18	Lb	Tractor
Nov	9.0	Irrigate			2.50	Water, District	4.00	Al	33.50	AF	Irrigators
Dec	1.0	Cultivate	125	Cultivator, Sweep, 4 Rw	4.00						Tractor
Feb	2.0	Apply Fert/Ground	100	Fertilizer Injector, 4 Row	3.00	32-00-00, URAN 32,	30.00	Ga	170.80	Tn	Tractor
Apr	1.0	Prepare Ends	100	Offset Disk, 13.5'	20.00						Tractor
May	1.0	Harvest		CST Cut/Top/Field Sack Dry		Burlap Sacks	404.00	Sk	0.50	Sk	2.17 Sk
May	1.0	Field Grade		CST Grade/Size/Pack Onions		Onion Bags 50# Mesh	404.00	Sk	0.38	Sk	1.00 Sk
May	1.0	Haul, Custom		CST Field Haul Dry Onions							0.12 Sk
Jun	1.0	Disk Residue	150	Offset Disk, 18'	6.00						Tractor
		Pickup use 60 Mi/Ac		Pickup Truck, 1/2 Ton	0.50						

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

Table 13F Operations Calendar; Dry Onions, 2001

COUNTY: Pinal FARM: Southern Vegetables WATER SOURCE: MSID TILLAGE: Conventional
 CROP: Onions, Dry ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Maricopa YIELD: 404 Sk/Acre PREVIOUS CROP: Cantaloupe DATE: 10/08/01

No.	Operation	Month and Times Operation Performed											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Disk										2.0 P	1.0 P	
2	Plow										1.0 P		
3	List											1.0 P	
4	Buck Rows											1.0 P	1.0 P
5	Preirrigate											1.0 P	
6	Soil Fertility											1.0 P	
7	Disk Ends	1.0 C										1.0 P	
8	Apply Fert/Ground											1.0 P	
9	Plant											1.0 P	
10	Apply Herbicide/Ground											1.0 P	1.0 P
11	Irrigate	1.0 C	1.0 C	2.0 C	3.0 C							1.0 P	1.0 P
12	Cultivate												1.0 P
13	Apply Fert/Ground		1.0 C	1.0 C									
14	Prepare Ends				1.0 C								
15	Harvest												1.0 C
16	Field Grade												1.0 C
17	Haul, Custom												1.0 C
18	Disk Residue												1.0 C

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