

Table 12A. Income and Cash Operating Summary; Green Chiles, 2001

COUNTY: Pinal FARM: Southern AZ Veg WATER SOURCE: Maricopa-Stanfield Irrig. TILLAGE: Conventional
 CROP: Chile, Green ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Maricopa YIELD: 2.3 Tn / Acre PREVIOUS CROP: Wheat, Winter DATE: 10/9/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Gr. Chile	Ton	2.28	\$366.33	\$835.23	\$1,304.23	_____
Rd. Chile	Pound	700.00	\$0.67	\$469.00		_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					66.54	_____
Tractor/Self Propelled Irrigation				35.48		_____
				31.06		_____
Chemicals and Custom Applications					197.54	_____
Fertilizer				98.59		_____
Insecticide				32.57		_____
Herbicide				32.44		_____
Other Chemicals				33.94		_____
Farm Machinery and Vehicles					53.09	_____
Diesel Fuel				20.22		_____
Repairs and Maintenance				32.86		_____
Irrigation Water (excluding labor)					161.92	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs & Seed/Transplants				181.42	256.42	_____
Other Services and Rentals				75.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					735.50	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Paid Labor (including benefits)					1.82	_____
Tractor/Self Propelled				1.82		_____
Farm Machinery and Vehicles					2.15	_____
Diesel Fuel				0.86		_____
Repairs and Maintenance				1.29		_____
Custom Harvest/Post Harvest					246.30	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					250.27	_____
OPERATING OVERHEAD -> PICKUP USE					20.43	_____
OPERATING INTEREST AT 10.0%					21.61	_____
TOTAL CASH OPERATING EXPENSES					\$1,027.81	_____
RETURNS OVER CASH OPERATING EXPENSES					\$276.42	_____

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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 12B. Allocations of Ownership Costs; Green Chiles, 2001

COUNTY: Pinal FARM: Southern AZ Veg WATER SOURCE: Maricopa-Stanfield Irrig. TILLAGE: Conventional
 CROP: Chile, Green ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Maricopa YIELD: 2.3 Tn / Acre PREVIOUS CROP: Wheat, Winter DATE: 10/9/01

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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 \$366.33 / Tn	\$1,304.23		\$1,304.23	
TOTAL OPERATING EXPENSES	\$1,027.81		\$1,027.81	
RETURN OVER CASH OPERATING EXPENSES		\$276.42		\$276.42
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	5.11		5.11	
General and Office Overhead (5.0%of Total Operating Exp.)	51.39		51.39	
General Farm Maintenance (3.0% of Total Operating Exp.)	30.83		30.83	
Total Cash Overhead Expenses	87.34		87.34	
Total Cash Operating and Overhead Cost	1,115.15		1,115.15	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		\$189.09		\$189.09
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			29.66	
Interest on Equity, Machinery and Vehicles			14.20	
Total Capital Allocations			43.86	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->		\$189.09		
RETURNS TO LAND, MANAGEMENT AND RISK ----->				\$145.23
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 ----->		\$64.09		
RETURNS TO MANAGEMENT AND RISK ----->				\$20.23
Management Services (8% of Total Operation Expenses)			82.22	
TOTAL OWNERSHIP COST	212.34		338.42	
TOTAL COST	\$1,240.15		\$1,366.23	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$64.09		
RETURNS TO RISK (PROFITS) ----->				(\$62.00)
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)		\$245.09		\$245.09
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$93.13		\$148.43
BREAK-EVEN PRICE TO COVER TOTAL COST		\$338.22		\$393.52

Table 12C. Variable Operating Costs; Green Chiles, 2001

COUNTY: Pinal FARM: Southern AZ Veg WATER SOURCE: Maricopa-Stanfield Irrig. TILLAGE: Conventional
 CROP: Chile, Green ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Maricopa YIELD: 2.3 Tn / Acre PREVIOUS CROP: Wheat, Winter DATE: 10/9/01

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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	Jan	Plow	0.321	0.357	5.62	3.13			8.75	1.0	8.75	L
2	Feb	Disk	0.225	0.250	4.11	2.19			6.30	2.0	12.61	L
3	Feb	Laser Level	0.900	1.000	13.25	8.77			22.02	0.3	6.61	L
4	Feb	Landplane	0.225	0.250	2.49	2.19			4.69	0.5	2.34	L
5	Feb	List	0.180	0.200	2.93	1.75			4.69	1.0	4.69	L
6	Mar	Apply Herbicide/Ground	0.150	0.167	1.98	1.47		32.44	35.88	1.0	35.88	G
7	Mar	Buck Rows	0.023	0.025	0.22	0.22			0.44	5.0	2.21	G
8	Mar	Preirrigate		0.424		3.25		16.75	20.00	1.0	20.00	G
9	Mar	Disk Ends	0.023	0.025	0.29	0.22			0.51	4.0	2.04	G
10	Mar	Apply Fert/Ground	0.150	0.167	2.07	1.47		37.63	41.17	1.0	41.17	G
11	Mar	Mulch	0.225	0.250	2.84	2.19			5.03	1.0	5.03	L
12	Apr	Plant	0.225	0.250	4.60	2.19		181.42	188.21	1.0	188.21	L
13	Apr	Irrigate		0.279		2.14		11.17	13.31	12.0	159.67	G
14	May	Cultivate	0.200	0.222	2.27	1.95			4.22	5.0	21.09	G
15	Jun	Thinning						75.00	75.00	1.0	75.00	G
16	Jun	Apply Fert/Ground	0.225	0.250	3.63	2.19		35.93	41.75	1.0	41.75	G
17	Jun	Apply Fungicide/Air						5.23	6.08	3.0	33.93	G
18	Aug	Irrigate/Run Fertilizer		0.278		2.13			36.20	1.0	38.33	G
19	Aug	Apply Insecticide/Air						4.75	27.82	1.0	32.57	G
20	Sep	Prepare Ends	0.023	0.025	0.29	0.22			0.51	1.0	0.51	H
21	Sep	Pick 2.3 Tn						172.50	172.50	1.0	172.50	H
22	Sep	Load Produce 2.3 Tn						4.60	4.60	1.0	4.60	H
23	Sep	Haul, Custom 2.3 Tn						23.00	23.00	1.0	23.00	H
24	Nov	Pick .3 Tn						28.00	28.00	1.0	28.00	H
25	Nov	Load Produce .3 Tn						0.70	0.70	1.0	0.70	H
26	Nov	Haul, Custom .3 Tn						17.50	17.50	1.0	17.50	H
27	Nov	Cut Stalks .3 Tn	0.164	0.182	1.86	1.60			3.46	1.0	3.46	P
28	Nov	Disk Residue .3 Tn	0.129	0.143	2.35	1.25			3.60	1.0	3.60	L
		Pickup Use 80 Mi/Acre	2.667		20.43						20.43	
		Operating Interest at 10.0						21.61			21.61	
TOTAL CASH OPERATING EXPENSES (includes all times over):											1,027.81	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)	231.84
Growing (G)	503.66
Harvest (H)	246.81
Post Harvest (P)	3.46
Marketing (M)	0.00
Operating Overhead (O)	42.04
Total (T)	\$1,027.81

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

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	Break-even Price
Yields		\$274.75	\$329.70	\$366.33	\$402.96	\$457.91	
- 25%	1.7	-505.19	-411.23	-348.58	-285.94	-191.98	570.18
- 10%	2.1	-448.77	-336.01	-260.84	-185.67	-72.91	493.44
Budgeted	2.3	-411.15	-285.87	-202.34	-118.82	6.47	455.08
+ 10%	2.5	-373.54	-235.72	-143.85	-51.97	85.84	423.69
Break-even Yield		4.77	3.58	3.07	2.69	2.26	

Table 12D. Resource and Cash Flow Requirements; Green Chiles, 2001

COUNTY: Pinal FARM: Southern AZ Veg WATER SOURCE: Maricopa-Stanfield Irrig. TILLAGE: Conventional
 CROP: Chile, Green ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Maricopa YIELD: 2.3 Tn / Acre PREVIOUS CROP: Wheat, Winter DATE: 10/9/01

Month *	Number Irrigations	Water Applied (inches)	Total Labor (Hrs)	Operating Costs (\$/ACRE *)						
				Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total
JAN C			0.86		13.84	7.52				21.36
FEB C			0.63		8.16	5.48				13.64
MAR C	1.0	6.0	0.93	16.75	5.99	7.72	70.07			100.53
APR C	2.0	8.0	0.96	22.33	6.24	7.79		181.42		217.78
MAY C	3.0	12.0	1.11	33.50	2.78	8.81				45.09
JUN C	2.0	8.0	1.30	22.33	8.68	10.81	42.01		80.23	164.06
JUL C	2.0	8.0	1.05	22.33	5.05	8.61	6.08		5.23	47.30
AUG C	4.0	16.0	1.12	44.67		8.55	58.94		9.98	122.14
SEP C			0.03		0.29	0.22			200.10	200.61
NOV C			0.32		4.21	2.85			46.20	53.26
Pickup Use 80 Mi/Acre					20.43					20.43
Operating Interest at 10.0									21.61	21.61
Water Assessment				**						
Total	14.0	58.0	8.30	161.91	75.67	68.36	177.10	181.42	365.35	1027.81
%				15.75	7.36	6.65	17.23	17.65	35.35	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 225.5
 Total P 106.0
 Total Labor 8.3
 Total Water 58.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 24.4 Gal
 Unleaded Gas 8.0 Gal
 All Direct Energy 4.4 M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 6 Rw	0.22 Hr	Drag Scraper, 10'	0.27 Hr	Fert. Side Dress Unit,	0.38 Hr
Landplane 12'X 45'	0.11 Hr	Laser, Complete System	0.27 Hr	Lister, 7 Bottom	0.18 Hr
Moldboard Plow, 4-16 2	0.32 Hr	Offset Disk, 13.5'	0.11 Hr	Offset Disk, 16.5'	0.58 Hr
Pickup Truck, 1/2 Ton	2.67 Hr	Planter, Drill Type, 6 Row	0.22 Hr	Power Mulcher, 4 Rw	0.22 Hr
Rolling Cultivator, 6 Rw	1.38 Hr	Rotary Stalk Cutter, 4 Row	0.16 Hr	Rowbuck, 10'	0.11 Hr
Saddle Tk Sprayer, 2 Tk 8	0.15 Hr	Tractor, 100 PTO HP	2.25 Hr	Tractor, 125 PTO HP	0.22 Hr
Tractor, 150 PTO HP	1.35 Hr				

MATERIALS REQUIREMENT (per Acre)

11-53-00, Dry	200.00 Lb	32-00-00, URAN 32, Lqd	25.00 Ga	46-00-00, Urea 46	250.00 Lb
BT	2.50 Lb	Chile Pepper Sd (OP)	5.00 Lb	Copper hydroxide	6.75 Lb
Napropamide	4.00 Lb	Water, District	58.00 Al		

LABOR REQUIREMENT (per Acre)

Irrigators 4.05 Hr Tractor 4.25 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 12E. Schedule of Operations; Green Chiles, 2001

COUNTY: Pinal FARM: Southern AZ Veg WATER SOURCE: Maricopa-Stanfield Irrig. TILLAGE: Conventional
 CROP: Chile, Green ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Maricopa YIELD: 2.3 Tn / Acre PREVIOUS CROP: Wheat, Winter DATE: 10/9/01

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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			
Jan	1.0	Plow	150	Moldboard Plow, 4-16 2	2.80						Tractor
Feb	2.0	Disk	150	Offset Disk, 16.5'	4.00						Tractor
Feb	0.3	Laser Level	150	Drag Scraper, 10'	1.00						Tractor
				Laser, Complete System							
Feb	0.5	Landplane	100	Landplane 12'X 45'	4.00						Tractor
Feb	1.0	List	150	Lister, 7 Bottom	5.00						Tractor
Mar	1.0	Apply Herbicide/Ground	100	Rolling Cultivator, 6 Rw Saddle Tk Sprayer, 2 Tk 8 Row	6.00	Napropamide	4.00 Lb	7.65 Lb			Tractor
Mar	5.0	Buck Rows	100	Rowbuck, 10'	40.00						Tractor
Mar	1.0	Preirrigate			2.40	Water, District	6.00 Al	33.50 AF			Irrigators
Mar	4.0	Disk Ends	100	Offset Disk, 13.5'	40.00						Tractor
Mar	1.0	Apply Fert/Ground	100	Fert. Side Dress Unit,	6.00	11-53-00, Dry	200.00 Lb	355.00 Tn			Tractor
Mar	1.0	Mulch	100	Power Mulcher, 4 Rw	4.00						Tractor
Apr	1.0	Plant	125	Bed Shaper, 6 Rw Planter, Drill Type, 6 Row	4.00	Chile Pepper Sd (OP)	5.00 Lb	34.23 Lb			Tractor
Apr	12.0	Irrigate			3.60	Water, District	4.00 Al	33.50 AF			Irrigators
May	5.0	Cultivate	100	Rolling Cultivator, 6 Rw	4.50						Tractor
Jun	1.0	Thinning		CST Thinning					75.00 Ac		
Jun	1.0	Apply Fert/Ground	100	Rolling Cultivator, 6 Rw Fert. Side Dress Unit, 4Row	4.00	46-00-00, Urea 46	250.00 Lb	271.17 Tn			Tractor
Jun	3.0	Apply Fungicide/Air		CST Air Spray, 7 Gal Mix		Copper hydroxide	2.25 Lb	2.55 Lb		5.23 Ac	
Aug	1.0	Irrigate/Run Fertilizer			3.60	Water, District	4.00 Al	33.50 AF			Irrigators
						32-00-00, URAN 32, BT	25.00 Ga	170.80 Tn			
Aug	1.0	Apply Insecticide/Air		CST Air Spray, 5 Gal Mix			2.50 Lb	10.50 Lb		4.75 Ac	
Sep	1.0	Prepare Ends	100	Offset Disk, 13.5'	40.00						Tractor
Sep	1.0	Pick		CST Pick Green Chiles					75.00 Tn		
Sep	1.0	Load Produce		CST Load Chiles					2.00 Tn		
Sep	1.0	Haul, Custom		CST Haul Green Chiles					10.00 Tn		
Nov	1.0	Pick		CST Pick Red Chile after Green					80.00 Tn		
Nov	1.0	Load Produce		CST Load Chiles					2.00 Tn		
Nov	1.0	Haul, Custom		CST Haul Red Chiles					50.00 Tn		
Nov	1.0	Cut Stalks	100	Rotary Stalk Cutter, 4 Row	5.50						Tractor
Nov	1.0	Disk Residue	150	Offset Disk, 16.5'	7.00						Tractor
		Pickup use 80 Mi/Ac		Pickup Truck, 1/2 Ton	0.38						

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

Table 12F Operations Calendar; Green Chiles, 2001

COUNTY: Pinal FARM: Southern Vegetables WATER SOURCE: MSID TILLAGE: Conventional
 CROP: Chile, Green ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Maricopa YIELD: 2.3 Tn/Acre PREVIOUS CROP: Wheat, Winter DATE: 10/09/01

No.	Operation	Month and Times Operation Performed											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Plow	1.0 C											
2	Disk	2.0 C											
3	Laser Level		0.3 C										
4	Landplane		0.5 C										
5	List		1.0 C										
6	Apply Herbicide/Ground			1.0 C									
7	Buck Rows			1.0 C	1.0 C	1.0 C	1.0 C	1.0 C					
8	Preirrigate			1.0 C									
9	Disk Ends			1.0 C		1.0 C	1.0 C	1.0 C					
10	Apply Fert/Ground			1.0 C									
11	Mulch			0.5 C	0.5 C								
12	Plant				1.0 C								
13	Irrigate				2.0 C	3.0 C	2.0 C	2.0 C	3.0 C				
14	Cultivate					1.0 C	2.0 C	2.0 C					
15	Thinning						1.0 C						
16	Apply Fert/Ground						1.0 C						
17	Apply Fungicide/Air						1.0 C	1.0 C	1.0 C				
18	Irrigate/Run Fertilizer								1.0 C	1.0 C			
19	Apply Insecticide/Air								1.0 C				
20	Prepare Ends									1.0 C			
21	Pick, Green									1.0 C			
22	Load Produce									1.0 C			
23	Haul, Custom									1.0 C			
24	Pick, Red										1.0 C		
25	Load Produce											1.0 C	
26	Haul, Custom												1.0 C
27	Cut Stalks												1.0 C
28	Disk Residue												1.0 C

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