

**Table 12A. Income and Cash Operating Summary; Dry Onions (Processing), 2001**

COUNTY: La Paz                      FARM: La Paz County                      WATER SOURCE: CRIR Irrigation Project                      TILLAGE: Conventional  
 CROP: Dry Onions                      ACRES: 1.0                      IRRIGATION SYSTEM: Flood Furrow                      SOIL: Sandy-Loam  
 AREA: Parker CRIR                      YIELD: 18.0 Tn / Acre                      PREVIOUS CROP: Honeydew Melons                      DATE: 8/22/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Onions	Ton	18.00	\$95.00	\$1,710.00	\$1,710.00	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					83.67	_____
Tractor/Self Propelled				42.26		_____
Irrigation				33.74		_____
Other/ Contract				7.67		_____
Chemicals and Custom Applications					585.22	_____
Fertilizer				116.58		_____
Insecticide				270.42		_____
Herbicide				79.53		_____
Other Chemicals				118.69		_____
Farm Machinery and Vehicles					56.33	_____
Diesel Fuel				25.67		_____
Repairs and Maintenance				30.66		_____
Irrigation Water (excluding labor)					0.00	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs & Other Services and Rentals				3.00	3.00	_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					728.22	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Paid Labor (including benefits)					0.44	_____
Tractor/Self Propelled				0.44		_____
Farm Machinery and Vehicles					0.59	_____
Diesel Fuel				0.22		_____
Repairs and Maintenance				0.37		_____
TOTAL HARVEST AND POST HARVEST EXPENSE					1.03	_____
OPERATING OVERHEAD -> PICKUP USE					13.69	_____
OPERATING INTEREST AT 10.0%					24.20	_____
TOTAL CASH OPERATING EXPENSES					\$767.13	_____
RETURNS OVER CASH OPERATING EXPENSES					\$942.87	_____

Notes: The above figures do not include ownership costs, see table B for detailed cost allocation.  
 \*\* A water assessment charge of \$38.50 per Acre is included as an ownership cost in Table B.

**Table 12B. Allocations of Ownership Costs; Dry Onions (Processing), 2001**

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Conventional  
 CROP: Dry Onions ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam  
 AREA: Parker CRIR YIELD: 18.0 Tn / Acre PREVIOUS CROP: Honeydew Melons DATE: 8/22/01

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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 \$95.00 / Tn	\$1,710.00		\$1,710.00	
TOTAL OPERATING EXPENSES	\$767.13		\$767.13	
RETURN OVER CASH OPERATING EXPENSES		\$942.87		\$942.87
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	5.57		5.57	
General and Office Overhead (5.0% of Total Operating Exp.)	38.36		38.36	
General Farm Maintenance (3.0% of Total Operating Exp.)	23.01		23.01	
Total Cash Overhead Expenses	66.94		66.94	
Total Cash Operating and Overhead Cost	834.07		834.07	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		\$875.93		\$875.93
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			31.52	
Interest on Equity, Machinery and Vehicles			14.05	
Total Capital Allocations			45.58	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->		\$875.93		
RETURNS TO LAND, MANAGEMENT AND RISK ----->				\$830.35
Land Cost / Rent or Lease	150.00		150.00	
Water Assessment **	38.50		38.50	
Total Land Costs	188.50		188.50	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$687.43		
RETURNS TO MANAGEMENT AND RISK ----->				\$641.85
Management Services (8% of Total Operation Expenses)			61.37	
TOTAL OWNERSHIP COST	255.44		362.39	
TOTAL COST	\$1,022.57		\$1,129.52	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$687.43		
RETURNS TO RISK (PROFITS) ----->				\$580.48
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 )		\$42.62		\$42.62
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$14.19		\$20.13
BREAK-EVEN PRICE TO COVER TOTAL COST		\$56.81		\$62.75

**Table 12C. Variable Operating Costs; Dry Onions (Processing), 2001**

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Conventional  
 CROP: Dry Onions ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam  
 AREA: Parker CRIR YIELD: 18.0 Tn / Acre PREVIOUS CROP: Honeydew Melons DATE: 8/22/01

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	Jul	Rip	0.450	0.500	7.84	4.39			12.23	1.0	12.23	L
2	Jul	Disk	0.150	0.167	3.15	1.46			4.61	2.0	9.22	L
3	Aug	Laser Level	0.450	0.500	7.12	4.39			11.51	1.0	11.51	L
4	Sep	Soil Fertility					3.00		3.00	1.0	3.00	G
5	Oct	Apply Fert/Ground					8.17	48.34	56.51	1.0	56.51	G
6	Oct	List	0.225	0.250	2.10	2.19			4.29	1.0	4.29	L
7	Oct	Shape Beds	0.180	0.200	1.45	1.75			3.21	1.0	3.21	L
8	Oct	Plant	0.900	2.000	11.89	16.44			28.33	1.0	28.33	L
9	Oct	Apply Herbicide/Ground	0.225	0.250	1.99	2.19		65.51	69.69	1.0	69.69	G
10	Oct	Irrigate		0.400		3.07			3.07	11.0	33.74	G
11	Nov	Buck Rows	0.045	0.050	0.35	0.44			0.79	2.0	1.58	G
12	Nov	Apply Fungicide/Ground					4.24	41.94	46.18	1.0	46.18	G
13	Nov	Disk Ends	0.045	0.050	0.43	0.44			0.86	2.0	1.73	G
14	Nov	Apply Herbicide/Ground	0.225	0.250	1.99	2.19		14.02	18.21	1.0	18.21	G
15	Dec	Cultivate	0.225	0.250	2.03	2.19			4.22	2.0	8.45	G
16	Feb	Apply Fert/Ground	0.300	0.333	3.52	2.92		30.04	36.48	2.0	72.96	G
17	Feb	Apply Fungicide/Air					5.23	15.85	21.08	2.0	42.16	G
18	Feb	Apply Insecticide/Air					4.75	265.67	270.42	1.0	270.42	G
19	Mar	Apply Fungicide/Air					4.75	25.60	30.35	1.0	30.35	G
20	Apr	Prepare Ends	0.045	0.050	0.59	0.44			1.03	1.0	1.03	H
21	May	Harvest, Load & Haul								1.0		H
22	May	Disk Residue	0.150	0.167	2.99	1.46			4.45	1.0	4.45	L
		Pickup Use 50 Mi/Acre	1.667		13.69						13.69	
		Operating Interest at 10.0					24.20				24.20	
TOTAL CASH OPERATING EXPENSES (includes all times over):											767.13	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 \$38.50 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS

Land Preparation (L)	73.24
Growing (G)	654.98
Harvest (H)	1.03
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	37.88
Total (T)	\$767.13

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

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		\$71.25	\$85.50	\$95.00	\$104.50	\$118.75	Break-even Price
- 25%	13.5	208.73	401.11	529.36	657.61	849.98	55.79
- 10%	16.2	400.95	631.80	785.70	939.60	1,170.45	46.50
Budgeted	18.0	529.10	785.60	956.60	1,127.60	1,384.10	41.86
+ 10%	19.8	657.25	939.40	1,127.50	1,315.60	1,597.75	38.06
Break-even Yield		10.57	8.81	7.92	7.20	6.34	

**Table 12D. Resource and Cash Flow Requirements; Dry Onions (Processing), 2001**

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Conventional  
 CROP: Dry Onions ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam  
 AREA: Parker CRIR YIELD: 18.0 Tn / Acre PREVIOUS CROP: Honeydew Melons DATE: 8/22/01

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 P			0.67		10.99	5.85				16.84
AUG P			0.67		10.27	5.85				16.12
SEP P									3.00	3.00
OCT P	1.0	3.0	3.10		17.43	25.65	113.84		8.17	165.09
NOV P	1.0	3.0	0.75		2.77	6.14	55.96		4.24	69.11
DEC P	1.0	3.0	0.70		2.38	5.70				8.08
JAN C	2.0	6.0	1.05		2.03	8.33				10.36
FEB C	2.0	6.0	1.18		3.95	9.50	311.55		9.98	334.98
MAR C	2.0	6.0	1.13		3.52	9.06	71.49		9.98	94.05
APR C	2.0	6.0	0.85		0.59	6.57				7.16
MAY C			0.17		2.99	1.46				4.45
Pickup Use 50 Mi/Acre					13.69					13.69
Operating Interest at 10.0									24.20	24.20
Water Assessment				**						
<b>Total</b>	<b>11.0</b>	<b>33.0</b>	<b>10.27</b>		<b>70.61</b>	<b>84.11</b>	<b>552.84</b>		<b>59.57</b>	<b>767.13</b>
<b>%</b>					<b>9.20</b>	<b>10.96</b>	<b>72.07</b>		<b>7.77</b>	<b>100.00</b>

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 252.4  
 Total P 212.0  
 Total Labor 10.3  
 Total Water 33.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 28.1 Gal  
 Unleaded Gas 5.0 Gal  
 All Direct Energy 4.5 M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.18 Hr	Cultivator, Sweep, 4 Rw	0.45 Hr	Directed Spray Rig, 8	0.45 Hr
Drag Scraper, 14'	0.45 Hr	Fertilizer Injector, 4 Row	0.60 Hr	Laser, Complete System	0.45 Hr
Lister, 5 Bottom	0.22 Hr	Offset Disk, 10.5'	0.09 Hr	Offset Disk, 13.5'	0.05 Hr
Offset Disk, 16.5'	0.15 Hr	Offset Disk, 18'	0.30 Hr	Pickup Truck, 1/2 Ton	1.67 Hr
Planter/Gramor, 4 Bd,6	0.90 Hr	Rowbuck, 10'	0.09 Hr	Tractor, 80 PTO HP	0.18 Hr
Tractor, 100 PTO HP	0.05 Hr	Tractor, 100 PTO HP,	2.80 Hr	Tractor, 150 PTO HP	0.45 Hr
Tractor, 200 PTO HP, 4WD	0.90 Hr	V-Ripper, 5 Shnk	0.45 Hr		

MATERIALS REQUIREMENT (per Acre)

10-53-00, Dry	400.00 Lb	32-00-00, URAN 32, Lqd	60.00 Ga	Bromoxynil	1.00 Pt
Chlorothalonil	4.00 Pt	DCPA	10.00 Lb	Mancozeb	2.40 Ga
Permethrin	15.50 Lb	Processing Onions	20.50 Lb	Sulfur	35.00 Lb
Surfactant (spreader)	0.30 Pt	Water, District	33.00 Al		

LABOR REQUIREMENT (per Acre)

Irrigators	4.40 Hr	Other	1.00 Hr	Tractor	4.87 Hr
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\*NOTE: P = Previous Year C = Current Year N = Next Year

\*\* A water assessment charge of \$38.50 per Acre is included as an ownership cost in Table B.

**Table 12E. Schedule of Operations; Dry Onions (Processing), 2001**

COUNTY: La Paz      FARM: La Paz County      WATER SOURCE: CRIR Irrigation Project      TILLAGE: Conventional  
 CROP: Dry Onions      ACRES: 1.0      IRRIGATION SYSTEM: Flood Furrow      SOIL: Sandy-Loam  
 AREA: Parker CRIR      YIELD: 18.0 Tn / Acre      PREVIOUS CROP: Honeydew Melons      DATE: 8/22/01

First No. Month Times	Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acre/Hr	Material Use and Cost				Service Cost \$ / Unit	Labor Types
				Name	Appl. Rate	\$ / Unit			
Jul	1.0 Rip	200 V-Ripper, 5 Shnk	2.00					Tractor	
Jul	2.0 Disk	200 Offset Disk, 18'	6.00					Tractor	
Aug	1.0 Laser Level	150 Drag Scraper, 14' Laser, Complete System	2.00					Tractor	
Sep	1.0 Soil Fertility	CST Soil Analysis (Surface)					3.00 Ac		
Oct	1.0 Apply Fert/Ground	CST Grnd Apply Fertilizer		10-53-00, Dry	400.00 Lb	228.00 Tn	8.17 Ac		
Oct	1.0 List	100 Lister, 5 Bottom	4.00					Tractor	
Oct	1.0 Shape Beds	100 Bed Shaper, 4 Rw	5.00					Tractor	
Oct	1.0 Plant	100 Planter/Gramor, 4 Bd,6	1.00	Processing Onions	2.50 Lb	0.00 Lb		Tractor Other	
Oct	1.0 Apply Herbicide/Ground	100 Directed Spray Rig, 8	4.00	DCPA	10.00 Lb	6.18 Lb		Tractor	
Oct	11.0 Irrigate		2.50	Water, District	3.00 Al	0.00 AF		Irrigators	
Nov	2.0 Buck Rows	80 Rowbuck, 10'	20.00					Tractor	
Nov	1.0 Apply Fungicide/Ground	CST Air Spray, 3 Gal Mix		Mancozeb	2.40 Ga	16.40 Ga	4.24 Ac		
				Surfactant (spreader)	0.10 Pt	16.40 Ga			
Nov	2.0 Disk Ends	80 Offset Disk, 10.5'	20.00					Tractor	
Nov	1.0 Apply Herbicide/Ground	100 Directed Spray Rig, 8	4.00	Bromoxynil	1.00 Pt	105.81 Ga		Tractor	
Dec	2.0 Cultivate	100 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	
Feb	2.0 Apply Fungicide/Air	CST Air Spray, 7 Gal Mix		Chlorothalonil	2.00 Pt	59.00 Ga	5.23 Ac		
				Surfactant (spreader)	0.10 Pt	16.40 Ga			
Feb	1.0 Apply Insecticide/Air	CST Air Spray, 5 Gal Mix		Permethrin	15.50 Lb	16.17 Lb	4.75 Ac		
Mar	1.0 Apply Fungicide/Air	CST Air Spray, 5 Gal Mix		Sulfur	35.00 Lb	0.69 Lb	4.75 Ac		
Apr	1.0 Prepare Ends	100 Offset Disk, 13.5'	20.00					Tractor	
May	1.0 Harvest, Load & Haul	CST Harvest & Hual Onions		Processing Onions	18.00 Lb	0.00 Lb	0.00		
May	1.0 Disk Residue	200 Offset Disk, 16.5'	6.00					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 12F Operations Calendar; Dry Onions (Processing), 2001**

COUNTY: La Paz      FARM: Western Arizona Vegetables      WATER SOURCE: CRIR      TILLAGE: Conventional  
 CROP: Onions, Dry      ACRES: 1      IRRIGATION SYSTEM: Flood Furrow      SOIL: Sandy-Loam  
 AREA: Parker CRIR      YIELD: 18 Tn/Acre      PREVIOUS CROP: Wheat      DATE: 03/25/2001

No.	Operation	Month and Times Operation Performed											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip							1 P					
2	Disk							1 P	1 P				
3	Laser Level								1 P				
4	Soil Fertility									1 P			
5	Apply Fert/Ground										1 P		
6	List										1 P		
7	Shape Beds										1 P		
8	Plant										1 P		
9	Apply Herbicide/Ground										1 P		
10	Irrigate	2 C	2 C	2 C	2 C						1 P	1 P	1 P
11	Buck Rows											1 P	1 P
12	Disk Ends			1 C									1 P
13	Apply Herbicide/Ground											1 P	
14	Apply Fungicide/Ground												1 P
15	Cultivate		1 C	1 C									
16	Apply Fert/Ground		1 C	1 C									
17	Apply Fungicide/Air		1 C	1 C									
18	Apply Insecticide/Air			1 C									
19	Prepare Ends				1 C								
20	Harvest, Load & Haul					1 C							
21	Disk Residue					1 C							

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