

Table 11A. Income and Cash Operating Summary; Spring Watermelons, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Watermelons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 22.0 Tn / Acre PREVIOUS CROP: Cotton, Upland DATE: 8/13/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Melons	Ton	22.05	\$141.60	\$3,122.28	\$3,122.28	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					128.02	_____
Tractor/Self Propelled				80.97		_____
Irrigation				23.66		_____
Other/ Contract				23.40		_____
Chemicals and Custom Applications					350.99	_____
Fertilizer				143.60		_____
Insecticide				207.40		_____
Farm Machinery and Vehicles					118.71	_____
Diesel Fuel				39.58		_____
Gasoline				13.15		_____
Repairs and Maintenance				65.98		_____
Irrigation Water (excluding labor)					0.00	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs & Seed/Transplants				96.23	399.23	_____
Other Services and Rentals				303.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					996.95	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					1714.40	_____
Cotton Ginning					0.00	_____
Crop Assessment					0.00	_____
Other Materials					0.00	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					1714.40	_____
OPERATING OVERHEAD -> PICKUP USE					13.17	_____
OPERATING INTEREST AT 10.0%					30.03	_____
TOTAL CASH OPERATING EXPENSES					\$2,754.55	_____
RETURNS OVER CASH OPERATING EXPENSES					\$367.73	_____

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

** A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

Table 11C. Variable Operating Costs; Spring Watermelons, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Watermelons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 22.0 Tn / Acre PREVIOUS CROP: Cotton, Upland DATE: 8/13/01

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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	Dec	Rip	0.300	0.333	4.82	2.92			7.75	1.0	7.75	L
2	Dec	Disk	0.150	0.167	2.85	1.46			4.31	2.0	8.62	L
3	Dec	Laser Level	0.225	0.250	3.33	2.19			5.53	1.0	5.53	L
4	Jan	Soil Fertility					3.00		3.00	1.0	3.00	G
5	Jan	Apply Fert/Ground	0.225	0.250	1.77	2.19		43.46	47.42	1.0	47.42	G
6	Jan	List	0.150	0.167	2.42	1.46			3.88	1.0	3.88	L
7	Jan	Shape Beds	1.200	1.333	14.23	11.70		77.97	103.90	1.0	103.90	L
8	Jan	Apply Herbicide/Ground	0.225	0.250	1.90	2.19		8.79	12.88	1.0	12.88	G
9	Jan	Plant	0.514	0.571	7.48	5.01		107.36	119.85	1.0	119.85	L
10	Jan	Make Ditches	0.045	0.050	0.66	0.44			1.09	7.0	7.66	G
11	Jan	Dust Control	0.009	0.010	0.16	0.16			0.32	150.0	47.59	G
12	Jan	Irrigate		0.752		5.77			5.77	1.0	5.77	G
13	Jan	Knock Ditches	0.023	0.025	0.33	0.22			0.55	7.0	3.83	G
14	Jan	Cultivate	0.450	0.500	3.81	4.39			8.20	6.0	49.20	G
15	Feb	Thinning					75.00		75.00	1.0	75.00	G
16	Mar	Apply Fert/Ground	0.327	0.364	3.80	3.19		29.48	36.47	2.0	72.94	G
17	Mar	Incorporate Herbicide	0.514	0.571	6.83	5.01		8.79	20.63	1.0	20.63	G
18	Mar	Hand Weeding					75.00		75.00	1.0	75.00	G
19	Mar	Irrigate		0.333		2.56			2.56	4.0	10.23	G
20	Mar	Turn Vines					75.00		75.00	2.0	150.00	G
21	Apr	Irrigate/Run Fertilizer		0.500		3.83		15.02	18.85	2.0	37.70	G
22	Apr	Apply Insect./Ground	0.225	0.250	1.95	2.19		37.28	41.43	3.0	124.28	G
23	May	Harvest, Load & Haul 21.4					1714.40		1714.40	1.0	1714.40	H
24	Jun	Disk Residue 21.4 Tn	0.150	0.167	2.85	1.46			4.31	1.0	4.31	L
		Pickup Use 50 Mi/Acre	1.667		13.17						13.17	
		Operating Interest at 10.0					30.03				30.03	
TOTAL CASH OPERATING EXPENSES (includes all times over):											2754.55	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 \$31.00 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS

Land Preparation (L)	253.84
Growing (G)	743.11
Harvest (H)	1,714.40
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	43.20
Total (T)	\$2,754.55

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

Prices ->	Yields					Break-even Price
	- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields	\$106.20	\$127.44	\$141.60	\$155.76	\$177.00	
- 25%	16.5	-689.64	-338.38	-104.21	129.96	481.22
- 10%	19.8	-595.54	-174.03	106.97	387.98	809.49
Budgeted	22.0	-532.81	-64.47	247.76	559.99	1,028.33
+ 10%	24.3	-470.08	45.10	388.55	732.00	1,247.18
Break-even Yield		40.78	23.35	18.17	14.87	11.69

Table 11D. Resource and Cash Flow Requirements; Spring Watermelons, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Watermelons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 22.0 Tn / Acre PREVIOUS CROP: Cotton, Upland DATE: 8/13/01

Month *	Number Irrigations	Water Applied (inches)	Total Labor (Hrs)	Operating Costs (\$/ACRE *)						
				Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total
DEC P			0.92		13.85	8.04				21.89
JAN C	1.0	18.0	3.50		30.39	30.54	141.35	96.23	3.00	301.51
FEB C			1.88		17.26	18.50			75.00	110.76
MAR C	2.0	8.0	3.48		27.88	31.84	38.27		150.00	247.99
APR C	2.0	12.0	2.15		14.50	19.96	119.06		75.00	228.52
MAY C	2.0	12.0	1.53		8.75	14.58	52.30		857.20	932.83
JUN C			0.37		6.07	4.58			857.20	867.85
Pickup Use 50 Mi/Acre					13.17					13.17
Operating Interest at 10.0									30.03	30.03
Water Assessment				**						
Total	7.0	50.0	13.81		131.87	128.04	350.98	96.23	2047.43	2754.55
%					4.79	4.65	12.74	3.49	74.33	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 247.2
 Total P 183.1
 Total Labor 13.8
 Total Water 50.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 44.7 Gal
 Unleaded Gas 14.4 Gal
 All Direct Energy 8.0 M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	1.20 Hr	Blade Scraper, 10'	0.22 Hr	Dbl. Gang Disk Cult, 1 Rw	3.21 Hr
Directed Spray Rig, 8	0.22 Hr	Fert. Side Dress Unit,	0.65 Hr	Fertilizer Broadcaster,	0.22 Hr
Fertilizer Injector, 3 Row	0.51 Hr	Flexi-Planter - 4 Units	0.51 Hr	Laser, Complete System	0.22 Hr
Lister, 5 Bottom	0.15 Hr	Motor Grader, 12'	0.47 Hr	Offset Disk, 18'	0.45 Hr
Pickup Truck, 1/2 Ton	1.67 Hr	Saddle Tk Sprayer, 2 Tk 8	2.39 Hr	Section Harrow, 3 Section	0.51 Hr
Tractor, 80 PTO HP	4.48 Hr	Tractor, 100 PTO HP	2.23 Hr	Tractor, 150 PTO HP	0.15 Hr
Tractor, 175 PTO HP,	0.67 Hr	Tractor, 235 Eng HP, Art.	0.30 Hr	Truck, 5 Ton w/1000 Gal	1.35 Hr
V-Ripper, 7 Shnk	0.30 Hr				

MATERIALS REQUIREMENT (per Acre)

10-34-00, Lqd	7.00 Ga	11-52-00, Dry	300.00 Lb	20-00-00, Amm. Nitrate,	500.00 Lb
32-00-00, URAN 32, Lqd	30.00 Ga	Endosulfan	4.00 Pt	Esfenvalerate	6.00 Pt
Imidacloprid	16.00 Oz	Water, District	50.00 Al	Watermelon Seed (Hyb)	3.00 Th

LABOR REQUIREMENT (per Acre)

Irrigators	3.09 Hr	Tractor	9.23 Hr	Truck Driver	1.50 Hr
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*NOTE: P = Previous Year C = Current Year N = Next Year

** A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

Table 11E. Schedule of Operations; Spring Watermelons, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Watermelons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 22.0 Tn / Acre PREVIOUS CROP: Cotton, Upland DATE: 8/13/01

First No. Month Times	Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acre/Hr	Material Use and Cost Name	Appl. Rate \$ / Unit	Service Cost \$ / Unit	Labor Type
Dec 1.0	Rip	175 V-Ripper, 7 Shnk	3.00				Tractor
Dec 2.0	Disk	175 Offset Disk, 18'	6.00				Tractor
Dec 1.0	Laser Level	175 Blade Scraper, 10' Laser, Complete System	4.00				Tractor
Jan 1.0	Soil Fertility	CST Soil Analysis (Surface)				3.00 Ac	
Jan 1.0	Apply Fert/Ground	80 Fertilizer Broadcaster,	4.00	11-52-00, Dry	300.00 Lb 273.33 Tn		Tractor
Jan 1.0	List	150 Lister, 5 Bottom	6.00				Tractor
Jan 1.0	Shape Beds	100 Bed Shaper, 4 Rw Saddle Tk Sprayer, 2 Tk 8 Row	0.75	Imidacloprid	16.00 Oz 588.40 Ga		Tractor
Jan 1.0	Apply Herbicide/Ground	80 Directed Spray Rig, 8 Row	4.00	Endosulfan	2.00 Pt 33.17 Ga		Tractor
Jan 1.0	Plant	100 Flexi-Planter - 4 Units Fertilizer Injector, 3 Row	1.75	Watermelon Seed 10-34-00, Lqd	3.00 Th 30.26 Th 7.00 Ga 263.33 Tn		Tractor
Jan 7.0	Make Ditches	Motor Grader, 12'	20.00				Tractor
Jan 150.0	Dust Control	Truck, 5 Ton w/1000 Gal Tank	100.00				Truck
Jan 1.0	Irrigate		1.33	Water, District	18.00 Al 0.00 AF		Irrigators
Jan 7.0	Knock Ditches	Motor Grader, 12'	40.00				Tractor
Jan 6.0	Cultivate	80 Dbl. Gang Disk Cult, 1 Rw	2.00				Tractor
Feb 1.0	Thinning	CST Thinning				75.00 Ac	
Mar 2.0	Apply Fert/Ground	80 Fert. Side Dress Unit, 4Row	2.75	20-00-00, Amm. Nitrate,	250.00 Lb 222.50 Tn		Tractor
Mar 1.0	Incorporate Herbicide	100 Dbl. Gang Disk Cult, 1 Rw Section Harrow, 3 Section Saddle Tk Sprayer, 2 Tk 8 Row	1.75	Endosulfan	2.00 Pt 33.17 Ga		Tractor
Mar 1.0	Hand Weeding	CST Hand Weeding				75.00 Ac	
Mar 4.0	Irrigate		3.00	Water, District	4.00 Al 0.00 AF		Irrigators
Mar 2.0	Turn Vines	CST Hand Weeding	0.20			75.00 Ac	
Apr 2.0	Irrigate/Run Fertilizer		2.00	Water, District 32-00-00, URAN 32,	8.00 Al 0.00 AF 15.00 Ga 170.80 Tn		Irrigators
Apr 3.0	Apply Insect./Ground	80 Saddle Tk Sprayer, 2 Tk 8	4.00	Esfenvalerate	2.00 Pt 140.69 Ga		Tractor
May 1.0	Harvest, Load & Haul	CST Harv/pack/haul				80.00 Tn	
Jun 1.0	Disk Residue	175 Offset Disk, 18'	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 11F Operations Calendar; Spring Watermelons, 2001

COUNTY: Yuma FARM: Western Arizona Vegetables
 CROP: Watermelons ACRES: 1
 AREA: Yuma Valley North YIELD: 21.4 Tn/Acre

WATER SOURCE: YCWUA TILLAGE: Double Crop
 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 PREVIOUS CROP: Cotton, Upland 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												2 P
3	Laser Level												1 P
4	Soil Fertility	1 C											
5	Apply Fert/Ground	1 C											
6	List	1 C											
7	Bed Shaping/Admire		1 C										
8	Apply Herbicide/Ground	1 C											
9	Plant	1 C											
10	Make Ditches	1 C	1 C	1 C	2 C	2 C							
11	Dust Control	10 C	30 C	30 C	30 C	30 C	20 C						
12	Irrigate	1 C											
13	Knock Ditches	1 C	1 C	1 C	2 C	2 C							
14	Cultivate		3 C	3 C									
15	Thinning		1 C										
16	Apply Fert/Ground			1 C	1 C								
17	Incorporate Herbicide			1 C									
18	Hand Weeding			1 C									
19	Irrigate			2 C	1 C	1 C							
20	Turn Vines			1 C	1 C								
21	Irrigate/Run Fertilizer				1 C	1 C							
22	Apply Insect/Ground				2 C	1 C							
23	Harvest, Load & Haul						.5 C	.5 C					
24	Disk Residue							1 C					

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