Table 8A. Income and Cash Operating Summary; Watermelons, 2001

FARM: Southern AZ Veg ACRES: 1.0 COUNTY: Cochise WATER SOURCE: Ks Settlement, NG TILLAGE: Conventional CROP: Watermelons Sandy-Loam IRRIGATION SYSTEM: Flood Furrow SOIL: 10/8/01 AREA: Kansas Settlement YIELD: 16.8 Tn / Acre PREVIOUS CROP: Wheat, Winter DATE:

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Melons	Ton	16.83	\$141.60	\$2,383.13	\$2,383.13	
CASH LAND PREPARATION AN Paid Labor (including benefits Tractor/Self Propelled Irrigation	,	luding sales tax)		28.53 31.37	59.91	
Chemicals and Custom Applion Fertilizer Herbicide	cations			50.90 3.29	54.19	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance Irrigation Water (excluding lab	:			17.32 23.77	41.09 229.46	
Natural Gas/Pumping Repairs and Maintenance	,			199.84 29.62	229.40	
Other Purchased Inputs & Seed/Transplants Other Services and Renta	als			58.45 75.00	133.45	
CASH HARVEST AND POST HA	TOTAL CASH LAND PRE ARVEST EXPENSES	PARATION AND GROW	ING EXPENSES		518.10	
Paid Labor (including benefits Tractor/Self Propelled Other/Contract)			70.63 61.35	131.98	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance Other Materials				18.43 40.08	58.52 319.03	
OPERATING OVERHEAD -> PIO OPERATING INTEREST AT 10.0		OST HARVEST EXPENS	SE		509.53 15.25 44.04	
TOTAL CASH OPERATING EXF RETURNS OVER CASH C					\$1,086.91 \$1,296.22	

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

Table 8B. Allocations of Ownership Costs; Watermelons, 2001

COUNTY: Cochise FARM: Southern AZ Veg WATER SOURCE: Ks Settlement, NG TILLAGE: Conventional CROP: Watermelons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Kansas Settlement YIELD: 16.8 Tn / Acre PREVIOUS CROP: Wheat, Winter DATE: 10/8/01

Item	CASH COST BASI	S (\$/ACRE) Net Returns	TOTAL COST BA	SIS (\$/ACRE) Net Returns	
		Net Keturns		NEL RETURNS	
TOTAL INCOME at \$141.60 / Tn	\$2,383.13		\$2,383.13		
TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$1,086.91	\$1,296.22	\$1,086.91	\$1,296.22	
CASH OVERHEAD EXPENSES		ψ.,=σσ.==		¥ :,====	
Taxes, Housing and Insurance, Farm Machinery	7.59		7.59		
Wells and Irrigation System	17.46		17.46		
General and Office Overhead (5.0% of Total Operating Exp.) General Farm Maintenance (3.0% of Total Operating Exp.)	54.35 32.61		54.35 32.61		
Total Cook Operating and Overhead Cook	112.00		112.00		
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity)	1,198.92	\$1,184.21	1,198.92	\$1,184.21	
Capital Replacement, Machinery and Vehicles			51.34		
Wells and Irrigation System Interest on Equity, Machinery and Vehicles			65.01 17.10		
Wells and Irrigation System			33.15		
Total Capital Allocations			166.60		
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK					
RETURNS TO LAND, MANAGEMENT AND RISK			>	\$1,017.62	
Land Cost / Rent or Lease	75.00		75.00		
Total Land Costs	75.00	#4.400.04	75.00		
RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK	>	\$1,109.21 	>>	\$942.62	
			00.05	Ψ0 1=10=	
Management Services (8% of Total Operation Expenses)			86.95		
TOTAL OWNERSHIP COST	187.00		440.55		
TOTAL COST	\$1,273.92		\$1,527.46		
RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO RISK (PROFITS)	>	\$1,109.21 	>	\$855.66	
	CASH COST BASIS	S (\$/ACRE)	TOTAL COST BAS	SIS (\$/ACRE)	
Item	Income and Costs	Net Returns	Income and Costs	Net Returns	
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		\$64.58		\$64.58	
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$11.11		\$26.18	
BREAK-EVEN PRICE TO COVER TOTAL COST		\$75.69		\$90.76	

Table 8C. Variable Operating Costs; Watermelons, 2001

FARM: Southern AZ Veg COUNTY: Cochise WATER SOURCE: Ks Settlement, NG TILLAGE: Conventional ACRES: Sandy-Loam CROP: Watermelons 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: AREA: Kansas Settlement YIELD: 16.8 Tn / Acre PREVIOUS CROP: Wheat, Winter DATE: 10/8/01

	First		Hour	s *	Operatir	ng Costs (\$/ACRE *) Per O	peration	i	Tot. Cash		
No.	Month	Operation	Machine	Labor	Fuel/Rps.	•	ist/Serv. Materia			Expenses	Class	
1	Jan	Plow	0.321	0.357	5.83	3.13		8.9	6 1.0	8.96	L	
2	Feb	Disk	0.225	0.250	3.62	2.19		5.8	2 2.0	11.63	L	
3	Mar	Apply Fert/Ground	0.075	0.083	0.79	0.73	39.6	64 41.1	6 1.0	41.16	G	
4	Feb	Laser Level	0.900	1.000	11.81	8.77		20.5	9 0.3	6.18	L	
5	Mar	Landplane	0.225	0.250	2.59	2.19		4.7	8 0.5	2.39	L	
6	Apr	List	0.180	0.200	2.58	1.75		4.3	3 1.0	4.33	L	
7	Apr	Buck Rows	0.023	0.025	0.23	0.22		0.4	5 4.0	1.80	G	
8	Apr	Preirrigate		0.565	31.65	4.33		35.9	8 1.0	35.98	G	
9	Apr	Plant	0.333	0.370	4.77	3.25	58.4	15 66.4	7 1.0	66.47	L	
10	May	Apply Herbicide/Ground	0.150	0.167	1.70	1.47	3.2	29 6.4	5 1.0	6.45	G	
11	May	Cultivate	0.225	0.250	2.53	2.19		4.7	2 3.0	14.16	G	
12	May	Irrigate		0.279	15.82	2.14		17.9	6 2.0	35.93	G	
13	Jun	Thinning					75.00	75.0	0 1.0	75.00	G	
14	Jun	Disk Ends	0.023	0.025	0.29	0.22		0.5	1 2.0	1.01	G	
15	Jun	Irrigate		0.424	23.74	3.25		26.9	9 6.0	161.93	G	
16	Jun	Irrigate/Run Fertilizer		0.424	23.74	3.25	11.2	26 38.2	5 1.0	38.25	G	
17	Jul	Prepare Ends	0.023	0.025	0.29	0.22		0.5	1 2.0	1.01	Н	
18	Aug	Harvest, Load & Haul	3.600	8.000	28.97	65.77	159.	52 254.2		508.51	Н	
19	Sep	Disk Residue	0.225	0.250	4.26	2.19		6.4	5 1.0	6.45	L	
	•	Pickup Use 60 Mi/Acre	2.000		15.25					15.25		
		Operating Interest at 10.0					44.04			44.04		
		TOTAL CASH OPERATING	EXPENSE	S (includes	। s all times over):					1086.91	Т	

*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.

OPERATING COST SUMMARY B	Y CLASS	SENSITIVITY	OF THE N	NET REVEN	NUES OVER	R TOTAL CAS	SH EXPENS	ES (\$/ACRI	Ξ)
Land Preparation (L)	106.41	Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	<u> </u>
Growing (G)	411.69	Yields		\$106.20	\$127.44	\$141.60	\$155.76	\$177.00	Break-even Price
Harvest (H)	509.53								_
Post Harvest (P)	0.00	- 25%	12.6	425.02	693.12	871.85	1,050.59	1,318.69	72.53
Marketing (M)	0.00	- 10%	15.1	616.69	938.41	1,152.89	1,367.38	1,689.10	65.49
Operating Overhead (O)	59.29	Budgeted	16.8	744.47	1,101.94	1,340.25	1,578.57	1,936.04	61.97
		+ 10%	18.5	872.25	1,265.47	1,527.61	1,789.76	2,182.97	59.08
Total (T)	\$1,086.91	+ 25%	21.0	1,063.93	1,510.76	1,808.65	2,106.55	2,553.38	55.63
		Break-even Y	ield	7.02	5.49	4.79	4.25	3.64	

Table 8D. Resource and Cash Flow Requirements; Watermelons, 2001

COUNTY: Cochise FARM: Southern AZ Veg WATER SOURCE: Ks Settlement, NG TILLAGE: Conventional IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Kansas Settlement YIELD: 16.8 Tn / Acre PREVIOUS CROP: Wheat, Winter DATE: 10/8/01

		Water				On	oratina	Costs (\$/A	CRE *)		
	Number	Applied	Total	Purchased	 Fuel, Oil	Op	eraung	COSIS (\$/A	Other		
Month *	Irrigations	(inches)	Labor (Hrs)		d Repairs	Lak	or C	hemicals	Purchases	Services	Total
JAN C			0.36		5.83	3	3.13				8.96
FEB C			0.55		7.17		1.83				12.00
MAR C			0.46		5.71		1.02	39.64			49.37
APR C	1.0	8.0	1.16		39.23	ç	9.55		58.45		107.23
MAY C	1.0	4.0	0.70		20.05	5	5.80	3.29			29.14
JUN C	3.0	18.0	1.87		77.30		5.02	11.26		75.00	178.58
JUL C	4.0	24.0	1.72		95.24	13	3.23				108.47
AUG C	1.0	4.0	16.33		74.28		1.11		319.03		527.42
SEP C			0.25	I	4.26	2	2.19				6.45
Pickup Use					15.25						15.25
Operating In	nterest at 10.0									44.04	44.04
Total	10.0	58.0	23.39		344.32	19	1.88	54.19	377.48	119.04	1086.91
%					31.68	1	7.65	4.99	34.73	10.95	100.00
Total N Total P Total Labo Total Wate		88.0 60.0 23.4 58.0		Diesel Fuel Unleaded Ga Nat Gas/Pum All Direct Ene	ping	37.9 6.0 469.0 52.9	Gal Gal Therm M BTI				
EQUIPMEN'	T REQUIREM	IENTS (per A	Acre)								
Bed Shap			33 Hr	Drag Scraper, 10'		.27 Hr			Broadcaster,	0.08 Hr	
Landplan			11 Hr	Laser, Complete System		.27 Hr		Lister, 5 B		0.18 Hr	
	d Plow, 4-16 2		32 Hr	Offset Disk, 12'		.09 Hr		Offset Disk		0.45 Hr	
Offset Dis	- ,		22 Hr	Pickup Truck, 1/2 Ton		.00 Hr			anhay, 2 Row	0.33 Hr	
	ultivator, 4 Rw		67 Hr	Rowbuck, 10'		.09 Hr			Sprayer, 2 Tk 8		
	50 PTO HP I50 PTO HP		20 Hr 55 Hr	Tractor, 100 PTO HP Vegetable Trailer Flat E		.53 Hr .20 Hr		Tractor, 12	25 PTO HP	0.90 Hr	
				vegetable Haller Flat E	beu /	.ZV ПI					
	REQUIREM	\1	,	00 00 00 110 111 00 1		00.0		T :0 "		4.00 5:	
16-20-00,	, ,		00 Lb	32-00-00, URAN 32, Lo		.30 Ga		Trifluralin	on Cood (OD)	1.00 Pt	
Water, Ρι	ump	58.	00 AI	Watermelon Bins	33	.60 Ea		vvatermelo	on Seed (OP)	2.00 Th	
LABOR REC	QUIREMENT	· ,	09 Hr	Other	Ω	.00 Hr		Tractor		11.30 Hr	
iiigaidis		4.	09 111	Outel	0	.00 111		Hacioi		11.30 П	

^{*}NOTE: P = Previous Year C = Current Year N = Next Year

FARM: Southern AZ Veg ACRES: 1.0 COUNTY: Cochise WATER SOURCE: Ks Settlement, NG TILLAGE: Conventional CROP: Watermelons Sandy-Loam IRRIGATION SYSTEM: Flood Furrow SOIL: 10/8/01 AREA: Kansas Settlement YIELD: 16.8 Tn / Acre PREVIOUS CROP: Wheat, Winter DATE:

First No. Month	Times Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acre/Hr	Material U Name			te \$ / U		ervice Cos \$ / Unit	t Labor Type
Jan	1.0 Plow	150 Moldboard Plow, 4-16 2	2.80							Tractor
Feb	2.0 Disk	125 Offset Disk, 13.5'	4.00							Tractor
Mar	1.0 Apply Fert/Ground	100 Fertilizer Broadcaster,		16-20-00, Dry	300.00	Lb	250.50	Tn		Tractor
Feb	0.3 Laser Level	125 Drag Scraper, 10' Laser, Complete System	1.00							Tractor
Mar	0.5 Landplane	100 Landplane 12'X 45'	4.00							Tractor
Apr	1.0 List .	125 Lister, 5 Bottom	5.00							Tractor
Apr	4.0 Buck Rows	100 Rowbuck, 10'	40.00							Tractor
Apr	1.0 Preirrigate	•		Water, Pump	8.00	ΑI	47.47	AF		Irrigators
Apr	1.0 Plant	100 Bed Shaper, 4 Rw Planter, Stanhay, 2 Row	2.70	Watermelon Seed (OP)	2.00	Th	27.70	Th		Tractor
May	1.0 Apply Herbicide/Grou	nd 100 Saddle Tk Sprayer, 2 Tk 8	6.00	Trifluralin	1.00	Pt	24.95	Ga		Tractor
May	3.0 Cultivate	100 Rolling Cultivator, 4 Rw	4.00							Tractor
May	2.0 Irrigate	,	3.58	Water, Pump	4.00	ΑI	47.47	AF		Irrigators
Jun	1.0 Thinning	CST Thinning		•					75.00 A	С
Jun	2.0 Disk Ends	100 Offset Disk, 12'	40.00							Tractor
Jun	6.0 Irrigate	•	2.36	Water, Pump	6.00	ΑI	47.47	AF		Irrigators
Jun	1.0 Irrigate/Run Fertilizer		2.36	Water, Pump	6.00	ΑI	47.47	AF		Irrigators
	G		;	32-00-00, URAN 32,	11.30	Ga	170.80	Tn		ū
Jul	2.0 Prepare Ends	100 Offset Disk, 12'	40.00							Tractor
Aug	2.0 Harvest, Load & Haul	50 Vegetable Trailer Flat Bed	0.25	Watermelon Bins	16.80	Ea	9.00	Ea		Tractor
Con	1.0 Diak Dasidus	150 Offeet Diek, 16 F	4.00							Other
Sep	1.0 Disk Residue Pickup use 60 Mi/Ac	150 Offset Disk, 16.5' Pickup Truck, 1/2 Ton	4.00 0.50							Tractor

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

Table 8F Operations Calendar; Watermelons, 2001COUNTY: CochiseFARM: Southern Vegetables

COUNT\ CROP: AREA:	': Cochise Watermelons Kansas Settlement	FARM: ACRES: YIELD:				IRRIGA	WATER SOURCE: IRRIGATION SYSTEM: PREVIOUS CROP:			Ks Settlement, NG Flood Furrow Wheat, Winter			TILLAGE: SOIL: DATE:		ntional Loam na
Month and Times Ope											od			10/08/0	, 1
No.	Operation			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Plow			1.0 C											
2	Disk				1.0 C	1.0 C									
3	Laser Level				0.3. C										
4	Apply Fert/Ground					1.0 C									
5	Landplane					0.5 C									
6	List						1.0 C								
7	Buck Rows						1.0 C		2.0 C		1.0 C				
8	Preirrigate						1.0 C								
9	Plant						1.0 C								
10	Apply Herbicide/Ground							1.0 C							
11	Cultivate							1.0 C	2.0 C						
12	Irrigate							1.0 C			1.0 C				
13	Thinning								1.0 C						
14	Disk Ends								2.0 C						
15	Irrigate								2.0 C	4.0 C					
16	Irrigate/Run Fertilizer								1.0 C						
17	Prepare Ends									1.0 C	1.0 C				
18	Harvest, Load & Haul										1.0 C				
19	Disk Residue													1.0 C	

^{*} NOTE: P = Previous Year C = Current Year N = Next Year