COUNTY: Cochise FARM: SE AZ Veg 98 WATER SOURCE: TILLAGE: Conventional Ks Settlement, NG ACRES: Sandy-Loam 11/27/98 CROP: Watermelons 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Kansas Settlement YIELD: 10.0 Tn / Acre PREVIOUS CROP: DATE: AREA: Wheat, Winter

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME Melons	Ton	10.00	\$122.60	\$1,226.00	\$1,226.00	
CASH LAND PREPARATION AND G Paid Labor (including benefits) Tractor/Self Propelled Irrigation	ROWING EXPENSES (in	cluding sales tax)		26.63 27.92	54.55	
Chemicals and Custom Application Fertilizer Herbicide	ns			49.49 3.29	52.78	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				14.35 23.77	38.11	
Irrigation (excluding labor) Natural Gas/Pumping Repairs and Maintenance				173.84 29.62	203.46	
Other Purchased Inputs & Seed/Transplants Other Services and Rentals				58.45 75.00	133.45	
•	TOTAL CASH LAND PRE	PARATION AND GROW	ING EXPENSES		482.35	
CASH HARVEST AND POST HARVE	EST EXPENSES					
Paid Labor (including benefits) Tractor/Self Propelled Other/Contract				65.92 54.59	120.51	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				15.26 40.08	55.35	
Other Materials					189.90	
	TOTAL HARVEST AND F	OST HARVEST EXPEN	SE		365.76	
OPERATING OVERHEAD PICKUI	P USE				15.45	
OPERATING INTEREST AT 10.0%					6.86	
	TOTAL CASH OPERATIN				\$870.41	
	RETURNS OVER CAS	H OPERATING EXPENS	ES		\$355.59	

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

ARIZONA COOPERATIVE EXTENSION
Department of Ag and Resource Economics
University of Arizona F 10 / 213

COUNTY:Cochise FARM: SE AZ Veg 98 WATER SOURCE: TILLAGE: Conventional Ks Settlement, NG IRRIGATION SYSTEM: Flood Furrow CROP: Watermelons ACRES: SOIL: Sandy-Loam 1.0 YIELD: 10.0 Tn / Acre PREVIOUS CROP: 11/27/98 AREA: Kansas Settlement Wheat, Winter DATE:

	CACH COST DAGE	C (C(ACDE)	TOTAL COST DASIS (#/ACDE)
Item	CASH COST BASIS	Net Returns	TOTAL COST BASIS (\$/ACRE) Income and Costs Net Returns
TOTAL INCOME at \$122.60 / Tn	\$1,226.00		\$1,226.00
TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$870.41	\$355.59	\$870.41 \$355.59
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery Wells and Irrigation System General and Office Overhead (5.0% of Total Operating Exp.) General Farm Maintenance (3.0% of Total Operating Exp.)	7.59 17.46 43.52 26.11		7.59 17.46 43.52 26.11
Total Cash Overhead Expenses	94.68		94.68
Total Cash Operating and Overhead Cost	965.10		965.10
RETURNS OVER CASH OPER. AND OVER. EXPENSES		\$260.90	\$260.90
CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery and Vehicles Wells and Irrigation System Interest on Equity, Machinery and Vehicles Wells and Irrigation System			51.34 65.01 17.10 33.15
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK - RETURNS TO LAND, MANAGEMENT AND RISK	>	\$260.90	166.60 > \$94.31
Land Cost / Rent or Lease	50.00		50.00
Total Land Costs RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK	50.00	\$210.90	50.00 > \$44.31
Management Services (8% of Total Operation Expenses)			69.63
TOTAL OWNERSHIP COST	144.68		380.91
TOTAL COST RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO RISK (PROFITS)	\$1,015.10 >	\$210.90	\$1,251.33
KETUKNS TO KISK (PKOFITS)			
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$87.04 \$14.47 \$101.51	\$87.04 \$38.09 \$125.13

FARM: SE AZ Veg 98 COUNTY:Cochise WATER SOURCE: TILLAGE: Conventional Ks Settlement, NG ACRES: CROP: Watermelons IRRIGATION SYSTEM: Flood Furrow 1.0 SOIL: Sandy-Loam YIELD: 10.0 Tn / Acre PREVIOUS CROP: 11/27/98 AREA: Kansas Settlement Wheat, Winter DATE:

	First Hours * Operating Costs (\$/ACRE *) Per Operation Tot. Cash											
No.	Month	Operation	Machine	Labor	Fuel/Rps.	Labor Ci	ust/Serv. Î	Materials	Total	Times	Expense	Class
1	Jan	Plow	0.321	0.357	5.52	2.92			8.44	1.0	8.44	L
2	Feb	Disk	0.225	0.250	3.44	2.05			5.49	2.0	10.98	L
3	Mar	Apply Fert/Ground	0.075	0.083	0.74	0.68		38.09	39.51	1.0	39.51	G
4	Feb	Laser Level	0.900	1.000	11.09	8.19			19.28	0.3	5.79	L
5	Mar	Landplane	0.225	0.250	2.45	2.05			4.49	0.5	2.25	L
6	Apr	List	0.180	0.200	2.44	1.64			4.07	1.0	4.07	L
7	Apr	Buck Rows	0.023	0.025	0.22	0.20			0.42	4.0	1.69	G
8	Apr	Preirrigate		0.565	28.06	3.86			31.92	1.0	31.92	G
9	Apr	Plant	0.333	0.370	4.56	3.03		58.45	66.04	1.0	66.04	L
10	May	Apply Herbicide/Ground	0.150	0.167	1.60	1.37		3.29	6.26	1.0	6.26	G
11	May	Cultivate	0.225	0.250	2.38	2.05			4.43	3.0	13.29	G
12	May	Irrigate		0.279	14.03	1.90			15.94	2.0	31.87	G
13	Jun	Thinning					75.00		75.00	1.0	75.00	G
14	Jun	Disk Ends	0.023	0.025	0.27	0.20			0.48	2.0	0.96	G
15	Jun	Irrigate		0.424	21.05	2.89			23.94	6.0	143.64	G
16	Jun	Irrigate/Run Fertilizer		0.424	21.05	2.89		11.41	35.35	1.0	35.35	G
17	Jul	Prepare Ends	0.023	0.025	0.27	0.20			0.48	2.0	0.96	Н
18	Aug	Harvest, Load & Haul	3.600	8.000	27.82	59.63		94.95	182.40	2.0	364.80	Н
19	Sep	Disk Residue	0.225	0.250	4.04	2.05			6.09	1.0	6.09	L
-		Pickup Use60 Mi/Acre	2.000		15.45					-	15.45	
		Operating Interest at 10.0					6.86				6.86	
TOT	AL CASH	OPERATING EXPENSES	(includes a	ı (II times over	: 312.36	175.06	81.86	301.13			870.41	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 BY CLASS		SENSITIVITY	SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE)								
Land Preparation (L)	103.65	<u>Prices</u>		- 25%	- 10%	Budgeted	+ 10%	+ 25%			
Growing (G) Harvest (H)	378.69 365.76	Yields		\$91.95	\$110.34	\$122.60	\$134.86	\$153.25	Break-even Price		
Post Harvest (P)	0.00	- 25%	7.5	-90.79	47.14	139.09	231.04	368.96	104.06		
Marketing (M)	0.00	- 10%	9.0	-7.85	157.66	268.00	378.34	543.85	92.82		
Operating Overhead (O)	22.31	Budgeted	10.0	47.44	231.34	353.94	476.54	660.44	87.21		
	=========	+ 10%	11.0	102.73	305.02	439.88	574.74	777.03	82.61		
Total (T)	\$870.41	+ 25%	12.5	185.66	415.54	568.79	722.04	951.91	77.10		
		Break-even Y	ïeld	9.14	6.86	5.88	5.15	4.34			

ARIZONA COOPERATIVE EXTENSION
Department of Ag and Resource Economics
University of Arizona F 10 / 213

FARM: SE AZ Veg 98 TILLAGE: Conventional COUNTY:Cochise WATER SOURCE: Ks Settlement, NG ACRES: IRRIGATION SYSTEM: Flood Furrow CROP: Watermelons SOIL: Sandy-Loam 1.0 11/27/98 AREA: Kansas Settlement YIELD: 10.0 Tn / Acre PREVIOUS CROP: DATE: Wheat, Winter

		Water		Operating Costs (\$/ACRE *)								
Manth *	Number	Applied	Total	Purchased	Fuel, Oil			•	Other	Camilaaa	Total	
Month *	Irrigations	(inches)	Labor (Hrs)	Water	and Repairs	La	bor	Chemicals	Purchases	Services	Total	
JAN C			0.36		5.41		2.92				8.33	
FEB C			0.55		14.21	1	0.24				24.45	
MAR C			0.46		6.50		4.77	38.09			49.36	
APR C	1.0	8.0	1.16		35.14		7.71		58.45		111.30	
MAY C	1.0	4.0	0.70		25.07	1	3.17	3.29			41.53	
JUN C	3.0	18.0	1.87		65.95		5.07	11.41		75.00	177.43	
JUL C	4.0	24.0	1.72		84.46	3	6.76				121.22	
AUG C	1.0	4.0	16.33		56.21		2.36		189.90		308.47	
SEP C			0.25		3.96		2.05				6.01	
	60 Mi/Acre				15.45						15.45	
Operating Ir	nterest at 10.0)								6.86	6.86	
Total	10.0	58.0	23.39	1	312.36	1	75.05	52.79	248.35	81.86	870.41	
%					35.89	:	20.11	6.06	28.53	9.40	100.00	
TOTAL RES	SOURCE REC	QUIREMENT	S (per Acre)	TOTAL ENE	RGY REQUIRE	MENTS	(per Ad	cre)				
Total N		88.0	,	Diesel F		37.9	Gal	•				
Total P		60.0		Unleade	d Gas	6.0	Gal					
Total K		0.0		Nat Gas	/Pumping	469.0	Ther	rms				
Total Lab	or	23.4		All Direc	t Energy	52.9	M B	TU				
Total Wat	er	58.0			0,							
	IT REQUIREM			D 0 401	,					0.00.11		
Bed Shap			.33 Hr .11 Hr	Drag Scraper, 10' Laser, Complete S).27 Hr).27 Hr			Broadcaster,	0.08 Hr		
	ie 12'X 45' rd Plow, 4-16 :		. 11 П1 .32 Hr	Offset Disk, 12'		0.27 Fi 0.09 Hr		Lister, 5 B Offset Dis		0.18 Hr 0.45 Hr		
Offset Dis			.22 Hr	Pickup Truck, 1/2		2.00 Hr			tanhay, 2 Row	0.33 Hr		
	ultivator, 4 Rw		.67 Hr	Rowbuck, 10'		0.09 Hr			Sprayer, 2 Tk 8			
	50 PTO HP		.20 Hr	Tractor, 100 PTO	HP 1	1.53 Hr			25 PTO HP	0.90 Hr		
Tractor, 1	150 PTO HP	0.	.55 Hr	Vegetable Trailer I	Flat Bed 7	7.20 Hr						
MATERIAL		CNT / ^	orol									
16-20-00	S REQUIREM	\ I	cre) .00 Lb	32-00-00, URAN 3	12 Lad 44	I.30 Ga		Trifluralin		1.00 Pt		
Water, Po			.00 Lb .00 Al	Watermelon Bins).00 Ea			on Seed (OP)	2.00 Th		
-												
LABOR REG	QUIREMENT											
Irrigators		4.	.09 Hr	Other	8	3.00 Hr		Tractor		11.30 Hr		
*NOTE: E	Dua. da	/ C C.	irrant Vaar III -	Naut Vaan								

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

FARM: SE AZ Veg 98 TILLAGE: Conventional COUNTY:Cochise WATER SOURCE: Ks Settlement, NG ACRES: CROP: Watermelons IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam 1.0 11/27/98 AREA: Kansas Settlement YIELD: 10.0 Tn / Acre PREVIOUS CROP: DATE: Wheat, Winter

	First	•	0	Equipment/ Custom Oper	Job Rate						Service Cost	
No	.Month T	ımes	Operation	HP Self-Prop./ Implement	Acres/Hr	Name	Аррі	. Ka	te \$/Un	it	\$ / Unit	Туре
1	Jan	1.0	Plow	150 Moldboard Plow, 4-16 2	2.80							Tractor
2	Feb	2.0	Disk	125 Offset Disk, 13.5'	4.00							Tractor
3	Mar	1.0	Apply Fert/Ground	100 Fertilizer Broadcaster,	12.00	16-20-00, Dry	300.00	Lb	240.67	Tn		Tractor
4	Feb	0.3	Laser Level	125 Drag Scraper, 10' Laser, Complete System	1.00							Tractor
5	Mar	0.5	Landplane	100 Landplane 12'X 45'	4.00							Tractor
6	Apr	1.0	List	125 Lister, 5 Bottom	5.00							Tractor
7	Apr	4.0	Buck Rows	100 Rowbuck, 10'	40.00							Tractor
8	Apr	1.0	Preirrigate		1.77	Water, Pump	8.00	ΑI	42.09	ΑF		Irrigators
9	Apr		Plant	100 Bed Shaper, 4 Rw Planter, Stanhay, 2 Row	2.70	Watermelon Seed (OP)	2.00	Th	27.70	Th		Tractor
10	May	1.0	Apply Herbicide/Ground	100 Saddle Tk Sprayer, 2 Tk 8	6.00	Trifluralin	1.00	Pt	24.95	Ga		Tractor
11	May	3.0	Cultivate	100 Rolling Cultivator, 4 Rw	4.00							Tractor
12	May	2.0	Irrigate	_	3.58	Water, Pump	4.00	ΑI	42.09	AF		Irrigators
13	Jun	1.0	Thinning	CST Thinning							75.00 Ac	
14	Jun	2.0	Disk Ends	100 Offset Disk, 12'	40.00							Tractor
15	Jun	6.0	Irrigate		2.36	Water, Pump	6.00	ΑI	42.09	ΑF		Irrigators
16	Jun	1.0	Irrigate/Run Fertilizer		2.36	Water, Pump 32-00-00, URAN 32,			42.09 173.00			Irrigators
17	Jul	2.0	Prepare Ends	100 Offset Disk, 12'	40.00	02 00 00, OTAN 02,	11.50	Ca	170.00	• • • •		Tractor
18	Aug		Harvest, Load & Haul	50 Vegetable Trailer Flat Bed		Watermelon Bins	10.00	Ea	9.00	Ea		Tractor Other
19	Sep	1.0	Disk Residue	150 Offset Disk, 16.5'	4.00							Tractor
-	- 1	-	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.

ARIZONA COOPERATIVE EXTENSION
Department of Ag and Resource Economics
University of Arizona F 10 / 213