COUNTY: Pima CROP: Pumpkins AREA: Avra Valley FARM: Pima Vegetables 98 ACRES: 1.0 YIELD: 3.6 Tn / Acre

WATER SOURCE: Avra Valley, Electric IRRIGATION SYSTEM: Flood Furrow PREVIOUS CROP: Cotton, Upland

TILLAGE: Conventional SOIL: Sandy-Loam DATE: 11/23/98

	Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME	Pumpkins	Ton	3.60	\$102.00	\$367.20	\$367.20	
Paid Lab	or (including benefits) or/Self Propelled	GROWING EXPENSES (in	cluding sales tax)		18.63 18.32	36.95	
Fertil Insec		ions			42.69 82.76 43.46	168.91	
Diese	chinery and Vehicles el Fuel irs and Maintenance				8.16 15.48	23.64	
Pump	(excluding labor) DENERGY - Electric DIFFERENCE AND MAINTENANCE				151.35 18.01	169.37	
Seed	rchased Inputs & /Transplants r Services and Rentals				250.49 150.00	400.49	
		TOTAL CASH LAND PRE	PARATION AND GROW	/ING EXPENSES		799.36	
CASH HAR\	EST AND POST HAR	VEST EXPENSES					
Tract	or (including benefits) or/Self Propelled r/Contract				49.11 90.98	140.08	
Diese	chinery and Vehicles of Fuel irs and Maintenance				19.59 43.05	62.64	
		TOTAL HARVEST AND F	OST HARVEST EXPEN	SE		202.72	
OPERATING	OVERHEAD PICK	UP USE				4.94	
OPERATING	S INTEREST AT 10.0%	•				23.14	
		TOTAL CASH OPERATIN				\$1,030.17	
		RETURNS OVER CASI	HOPERATING EXPENS	SES		(\$662.97)	

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

FARM: Pima Vegetables 98 COUNTY:Pima WATER SOURCE: Avra Valley, Electric TILLAGE: Conventional CROP: Pumpkins ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Avra Valley YIELD: 3.6 Tn / Acre PREVIOUS CROP: Cotton, Upland DATE: 11/23/98

ltem	CASH COST BASI	S (\$/ACRE) Net Returns	TOTAL COST BAS	IS (\$/ACRE) Net Returns
TOTAL INCOME at \$102.00 / Tn	\$367.20	Het Neturns	\$367.20	NOT NOTHING
TOTAL INCOME AT \$102.00 / 111 TOTAL OPERATING EXPENSES	\$1,030.17		\$1,030.17	
RETURN OVER CASH OPERATING EXPENSES	* /	(\$662.97)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(\$662.97)
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery Wells and Irrigation System	7.16 10.19		7.16 10.19	
General and Office Overhead (5.0% of Total Operating Exp.)	51.51		51.51	
General Farm Maintenance (3.0% of Total Operating Exp.)	30.90		30.90	
Total Cash Overhead Expenses	99.76		99.76	
Total Cash Operating and Overhead Cost	1,129.93	/ *	1,129.93	(4
RETURNS OVER CASH OPER. AND OVER. EXPENSES		(\$762.73)		(\$762.73)
CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery and Vehicles			46.09	
Wells and Irrigation System			27.83	
Interest on Equity, Machinery and Vehicles			20.72	
Wells and Irrigation System			15.88	
Total Capital Allocations		(\$7C0.70)	110.52	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK - RETURNS TO LAND, MANAGEMENT AND RISK			 >	(\$873.25)
Land Cost / Rent or Lease	100.00		100.00	
Total Land Costs	100.00		100.00	
RETURNS TO CAPITAL, MANAGEMENT AND RISK				(4070.05)
RETURNS TO MANAGEMENT AND RISK			 >	(\$973.25)
Management Services (8% of Total Operation Expenses)			82.41	
TOTAL OWNERSHIP COST	199.76		392.70	
TOTAL COST	\$1,229.93		\$1,422.86	
RETURNS TO CAPITAL, MANAGEMENT AND RISK		(\$862.73)	, ,	(04.055.00)
RETURNS TO RISK (PROFITS)			 >	(\$1,055.66)
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		\$286.16		\$286.16
BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$55.49 \$341.65		\$109.08 \$205.24
BREAK-EVEN PRICE TO COVER TOTAL COST		\$341.65	-	\$395.24

COUNTY:Pima FARM: Pima Vegetables 98 TILLAGE: Conventional WATER SOURCE: Avra Valley, Electric CROP: Pumpkins ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow Sandy-Loam SOIL: AREA: Avra Valley YIELD: 3.6 Tn / Acre PREVIOUS CROP: Cotton, Upland DATE: 11/23/98

	First		Hour	s *	Operati	ng Costs	(\$/ACRE *)	Per Opera	Tot. Cash			
No.	Month	Operation	Machine	Labor	Fuel/Rps.	Labor C	ust/Serv.	Materials	Total	Times	Expense	Class
								•				
1	May	Disk	0.225	0.250	3.84	2.05			5.88	1.0	5.88	L
2	May	Landplane	0.360	0.400	3.70	3.28			6.97	1.0	6.97	L
3	May	List	0.225	0.250	3.00	2.05			5.05	1.0	5.05	L
4	May	Buck Rows	0.023	0.025	0.20	0.20			0.41	3.0	1.23	G
5	May	Preirrigate		0.565	30.33	3.86			34.18	1.0	34.18	G
6	May	Mulch	0.225	0.250	2.66	2.05			4.70	1.0	4.70	L
7	Jun	Plant	0.225	0.250	2.25	2.05		250.49	254.78	1.0	254.78	L
8	Jul	Irrigate/Run Fertilizer		0.424	30.33	2.89		8.54	41.76	5.0	208.80	G
9	Jul	Disk Ends	0.023	0.025	0.27	0.20			0.48	2.0	0.95	G
10	Jul	Cultivate	0.225	0.250	2.25	2.05			4.30	2.0	8.60	G
11	Jul	Hand Weeding					75.00		75.00	2.0	150.00	G
12	Aug	Apply Fungicide/Air					4.75	12.75	17.50	2.0	34.99	G
13	Sep	Apply Insecticide/Air					4.75	18.06	22.81	4.0	91.23	G
14	Oct	Prepare Ends	0.023	0.025	0.27	0.20			0.48	1.0	0.48	Н
15	Oct	Pick and Load	2.000	4.444	23.08	77.31			100.39	1.0	100.39	Н
16	Oct	Haul 1	3.371	3.750	39.76	62.57			102.33	1.0	102.33	H
17	Oct	Disk Residue	0.225	0.250	2.94	2.05			4.99	1.0	4.99	L
• •		Pickup Use20 Mi/Acre	0.667		4.94	2.00					4.94	_
		Operating Interest at 10.0	3.301		1.0 1		23.14				23.14	
		. 0										_
TOT	AL CASH	OPERATING EXPENSES	(includes a	ll times over)	: 274.07	158.71	201.64	390.90			1030.17	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 E	BY CLASS	SENSITIVITY	OF THE I	NET REVEN	NUES OVE	R TOTAL CAS	SH EXPENS	SES (\$/ACR	E)
Land Preparation (L)	282.39	Prices		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Growing (G) Harvest (H)	516.98 202.72	Yields		\$76.50	\$91.80	\$102.00	\$112.20	\$127.50	Break-even Price
Post Harvest (P)	0.00	- 25%	2.7	-726.07	-684.76	-657.22	-629.68	-588.37	345.42
Marketing (M)	0.00	- 10%	3.2	-703.94	-654.37	-621.32	-588.28	-538.70	293.77
Operating Overhead (O)	28.08	Budgeted	3.6	-689.19	-634.11	-597.39	-560.67	-505.59	267.94
	==========	+ 10%	4.0	-674.44	-613.85	-573.46	-533.07	-472.48	246.81
Total (T)	\$964.59	+ 25%	4.5	-652.32	-583.47	-537.57	-491.67	-422.82	221.46
		Break-even Yie	eld	20.42	14.87	12.59	10.91	9.10	

FARM: Pima Vegetables 98 COUNTY:Pima WATER SOURCE: Avra Valley, Electric TILLAGE: Conventional CROP: Pumpkins ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Avra Valley YIELD: 3.6 Tn / Acre PREVIOUS CROP: Cotton, Upland DATE: 11/23/98

	Nombre	Water	Tatal	Powel as a d	F! O''	Op	eratin	g Costs (\$/A			
Month *	Number Irrigations	Applied (inches)	Total Labor (Hrs)	Purchased Water	Fuel, Oil and Repairs	La	bor	Chemicals	Other Purchases	Services	Total
MAY C	1.0	8.0	1.74		43.51	1	3.48				56.99
JUN C			0.28		2.41		2.25		250.49		255.15
JUL C	2.0	16.0	1.15		63.34		5.35	17.08		75.00	160.77
AUG C	2.0	16.0	1.12		63.14		5.15	47.42		84.50	200.21
SEP C	1.0	8.0	0.42		31.20		2.89	80.76		19.00	133.85
OCT C			19.58		65.53	12	9.59				195.12
Pickup Usea	20 Mi/Acre				4.94						4.94
	terest at 10.0									25.49	25.49
Total	6.0	48.0	24.29		274.07		8.71	145.26	250.49	201.64	1030.17
%				<u> </u>	26.60	1	5.41	14.10	24.32	19.57	100.00
TOTAL RES	OURCE REQ	UIREMENT	S (per Acre)	TOTAL ENE	RGY REQUIRE	MENTS (per Ad	cre)			
Total N		150.4		Diesel Fu	uel	41.0	Gal				
Total P		0.0		Unleaded	d Gas	2.0	Gal				
Total K		0.0		Electric /	Pumping	2844.4	KWH	1			
Total Labo	or	24.3		All Direct		15.6	M B	TU			
Total Wate	er	48.0			0,						
EQUIDMENT.	T DEOLUDEN	IENTO /	Α \								
	T REQUIREM	\ .	Acre) 45 Hr	Diek Lieter 4 Du		.22 Hr		Clayi Dlani	ter - 4 Units	0.22 Hr	
Landplan	, Sweep, 4 Rv		45 Hr 36 Hr	Disk-Lister, 4 Rw Offset Disk, 12').22 Hr		Offset Disk		0.22 Hr 0.07 Hr	
Offset Dis			22 Hr	Pickup Truck, 1/2		0.67 Hr			lcher, 4 Rw	0.22 Hr	
Rowbuck			07 Hr	Tractor, 100 PTO I		5.99 Hr			50 PTO HP	0.22 Hr	
	50 PTO HP,		22 Hr	Vegetable Trailer F		5.37 Hr				0.22	
MATERIALO	REQUIREM	ENT (por A	oro)								
	URAN 32, Lo		50 Ga	Benomyl	(.50 Lb		Endosulfa	0	4.00 Pt	
Fenvalera			40 Oz	Pumpkin Seed (Hy		2.00 Th			(spreader)	4.00 Pt	
Triadimef			24 Lb	Water, Pump		3.00 AI		Canadani	(oproddor)	7.00 11	
		,									
	QUIREMENT		00 11-	Other	4.0	. 00 . 1.1.		T		0.07.11	
Irrigators		2.	68 Hr	Other	13	3.33 Hr		Tractor		8.27 Hr	

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

FARM: Pima Vegetables 98 COUNTY:Pima Avra Valley, Electric TILLAGE: Conventional WATER SOURCE: CROP: Pumpkins ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Avra Valley YIELD: 3.6 Tn / Acre PREVIOUS CROP: Cotton, Upland DATE: 11/23/98

NI.	First	·	Operation	Equipment/ Custom Oper	Job Rate						Service Cost Labor	
N	o.MonthT			HP Self-Prop./ Implement	Acres/Hr		Аррі.	Kate	\$/Un	Iτ	\$ / Unit Type	
1	May		Disk	150 Offset Disk, 16.5'	4.00						Tractor	
2	May		Landplane	100 Landplane 12'X 45'	2.50						Tractor	
3	May		List	100 Disk-Lister, 4 Rw	4.00						Tractor	
4	May	3.0	Buck Rows	100 Rowbuck, 10'	40.00						Tractor	
5	May	1.0	Preirrigate		1.77	Water, Pump	8.00	ΑI	45.49	ΑF	Irrigators	
6	May	1.0	Mulch	100 Power Mulcher, 4 Rw	4.00						Tractor	
7	Jun	1.0	Plant	100 Flexi-Planter - 4 Units	4.00	Pumpkin Seed (Hyb)	12.00	Th	19.88	Th	Tractor	
8	Jul	5.0	Irrigate/Run Fertilizer		2.36	Water, Pump	8.00	ΑI	45.49	ΑF	Irrigators	
						32-00-00, URAN 32,	8.50 (3a 1	73.00	Tn		
9	Jul	2.0	Disk Ends	100 Offset Disk, 13.5'	40.00						Tractor	
10	Jul	2.0	Cultivate	100 Cultivator, Sweep, 4 Rw	4.00						Tractor	
11	Jul	2.0	Hand Weeding	CST Hand Weeding							75.00 Ac	
12	Aug	2.0	Apply Fungicide/Air	CST Air Spray, 5 Gal Mix		Benomyl	0.25	Lb	19.03	Lb	4.75 Ac	
	•			, ,		Triadimefon	0.12	Lb	61.51	Lb		
13	Sep	4.0	Apply Insecticide/Air	CST Air Spray, 5 Gal Mix		Fenvalerate	9.60 (Oz 1	46.61	Ga	4.75 Ac	
	•					Endosulfan	1.00	Pt	33.47	Ga		
						Surfactant (spreader)	1.00	Pt	16.13	Ga		
14	Oct	1.0	Prepare Ends	100 Offset Disk, 13.5'	40.00	(-1					Tractor	
15	Oct		Pick and Load	100 Vegetable Trailer Flat Bed	0.45						Tractor	
				. 9							Other	
16	Oct	1.0	Haul	100 Vegetable Trailer Flat Bed	0.27						Tractor	
17	Oct		Disk Residue	150 Offset Disk, 12'	4.00						Tractor	
-	'		Pickup use 20 Mi/Ac	Pickup Truck, 1/2 Ton	1.50							

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