COUNTY: Mohave CROP: Alfalfa Hay w/Graze AREA: Mohave Valley FARM: Mohave County 98 ACRES: 1.0 YIELD: 7.5 Tn / Acre WATER SOURCE: Colorado River Pump, IRRIGATION SYSTEM: Flood Basin PREVIOUS CROP: Cotton, Upland

TILLAGE: Conventional SOIL: Sandy-Loam DATE: 2/3/99

	Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME	Alfalfa Grazing	Ton Head Days	7.50 200.00	\$96.70 \$0.09	\$725.25 \$18.00	\$743.25	
Paid Labo	or (including benefits) or/Self Propelled	GROWING EXPENSES (incl	uding sales tax)		2.20 19.35	21.56	
Chemical Fertili Insec Herbi	ticide	ons			76.22 38.83 47.38	162.42	
Diese Repa	rs and Maintenance				0.97 0.93	1.90	
Pump Repa	Water (excluding labor) Energy - Electric rs and Maintenance				17.67 2.13	19.80	
	chased Inputs & Transplants	TOTAL CASH LAND PREP	ARATION AND GROW	ING EXPENSES	11.81	11.81 217.49	
CASH HARV	EST AND POST HARV		AUGUATION AND GROW			217.10	
Tracto	r (including benefits) or/Self Propelled 'Contract				5.40 26.88	32.27	
Diese	rs and Maintenance				17.27 100.77	118.04 23.66	
Other Man		TOTAL HARVEST AND PO	ST HARVEST EXPEN	SE		173.98	
-		IP USE				15.12 49.66	
		TOTAL CASH OPERATING RETURNS OVER CASH		ES		\$456.25 \$287.00	

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

COUNTY:Mohave FARM: Mohave County 98 WATER SOURCE: Colorado River Pump, TILLAGE: Conventional RRIGATION SYSTEM: Flood Basin SOIL: Sandy-Loam PREVIOUS CROP: Cotton, Upland DATE: 2/3/99

Item	CASH COST BASI Income and Costs	S (\$/ACRE) Net Returns	TOTAL COST BASIS (\$/ACRE) Income and Costs Net Returns	
TOTAL INCOME at \$96.70 / Tn TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$743.25 \$456.25	\$287.00	\$743.25 \$456.25 \$287.00	
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.)	11.50 0.96 22.81 13.69		11.50 0.96 22.81 13.69	
Total Cash Overhead Expenses	48.96		48.96	
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES	505.21	\$238.04	505.21 \$238.04	
CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery and Vehicles Wells and Irrigation System Interest on Equity, Machinery and Vehicles Wells and Irrigation System Stand Establishment (3 year crop)	94.59		79.15 5.88 6.47 2.26 94.59	
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK - RETURNS TO LAND, MANAGEMENT AND RISK	94.59 >	\$143.45	188.35	
Land Cost / Ownership (100% Equity) Property Taxes (\$510.00 X 16.0% X 0.102) Opportunity Interest on Land (100% X 6.0 X \$510.00)	8.37		8.37 30.60	
Total Land Costs RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK	8.37 >	\$135.08	38.97	
Management Services (8% of Total Operation Expenses)			36.50	
TOTAL OWNERSHIP COST	151.93		312.79	
TOTAL COST RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO RISK (PROFITS)	\$608.17	\$135.08	\$769.03 > (\$25.78)	
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$58.43 \$20.26 \$78.69	\$58.43 \$41.71 \$100.14	

COUNTY:Mohave FARM: Mohave County 98 WATER SOURCE: Colorado River Pump, TILLAGE: Conventional CROP: Alfalfa Hay w/Graze ACRES: Sandy-Loam IRRIGATION SYSTEM: Flood Basin SOIL: 7.5 Tn / Acre PREVIOUS CROP: AREA: Mohave Valley YIELD: 2/3/99 Cotton, Upland DATE:

First Hours *						ng Costs (Tot. Cash				
No.	Month	Operation	Machine	Labor	Fuel/Rps.	Labor Cu	ust/Serv.	Materials	Total	Times	Expenses	Class
1	Jan	Irrigate		0.161	1.16	1.14			2.30	10.0	23.03	G
2	Feb	Irrigate/Run Fertilizer		0.161	1.16	1.14		10.05	12.35	6.0	74.09	G
3	Apr	Swathing	0.180	0.200	2.71	1.41			4.13	7.0	28.89	Н
4	Apr	Raking	0.129	0.143	1.48	1.01			2.49	7.0	17.45	Н
5	Apr	Baling	0.180	0.200	5.46	1.41		3.38	10.25	7.0	71.78	Н
6	Apr	Roadsiding	0.082	0.091	7.21	0.77			7.98	7.0	55.85	Н
7	Apr	Apply Herbicide/Air					4.58	19.11	23.69	2.0	47.38	G
8	Apr	Apply Insecticide/Air					4.23	18.66	22.89	1.0	22.89	G
9	Jun	Irrigate/Run Fertilizer		0.161	1.16	1.14		15.94	18.25	1.0	18.25	G
10	Jul	Rerun Borders	0.090	0.100	0.67	0.85			1.52	1.0	1.52	G
11	Sep	Apply Insecticide/Air					4.75	3.22	7.97	2.0	15.94	G
12	Oct	Renovate	0.180	0.200	1.92	1.69			3.62	0.3	1.09	G
13	Oct	Plant	0.300	0.333	2.19	2.82		39.38	44.39	0.3	13.32	L
		Pickup Use60 Mi/Acre	2.000		15.12						15.12	
		Operating Interest at 10.0					49.66				49.66	
				TOT	TAL CASH OPE	RATING E	XPENSES	(includes a	II times ove	er):	456.25	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 OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE)								
Land Preparation (L)	13.32	Prices		- 25%	- 10%	Budgeted	+ 10%	+ 25%		
Growing (G) Harvest (H)	204.17 173.98	Yields		\$72.52	\$87.03	\$96.70	\$106.37	\$120.88	Break-even Price	
Post Harvest (P)	0.00	- 25%	5.6	21.27	102.86	157.26	211.65	293.24	68.74	
Marketing (M)	0.00	- 10%	6.8	76.77	174.68	239.95	305.22	403.13	61.15	
Operating Overhead (O)	64.78	Budgeted	7.5	113.76	222.55	295.07	367.60	476.39	57.36	
	==========	+ 10%	8.3	150.76	270.42	350.20	429.98	549.65	54.25	
Total (T)	\$456.25	+ 25%	9.4	206.25	342.24	432.89	523.55	659.53	50.52	
		Break-even Yi	eld	5.19	4.01	3.49	3.08	2.62		

COUNTY:Mohave FARM: Mohave County 98 WATER SOURCE: Colorado River Pump, TILLAGE: Conventional CROP: Alfalfa Hay w/Graze AREA: Mohave Valley YIELD: 7.5 Tn / Acre PREVIOUS CROP: Cotton, Upland DATE: 2/3/99

	Water					1O	Operating Costs (\$/ACRE *)						
Number Applied Total			Purchased	- 1		Other							
Month *	Irrigations	(inches)	Labor (Hrs)	Water	and Repairs	La	bor (Chemicals	Purchases	Services	Total		
IANIC	4.0	F 0	0.46		1.10		4 4 4				2.20		
JAN C FEB C	1.0 2.0	5.0 10.0	0.16 0.32		1.16 2.33		1.14 2.28	10.05			2.30 14.65		
MAR C	2.0 1.0	5.0	0.32		2.33 1.16		2.28 1.14	10.05			2.30		
APR C	2.0	10.0	0.16		19.19		6.89	37.77	3.38	8.81	76.04		
MAY C								31.11		8.81			
JUN C	2.0	10.0 10.0	0.96 0.96		19.19 19.19		6.89 6.89	45.40	3.38 3.38	4.50	29.46 79.14		
JUL C	2.0	5.0	0.96		18.70			45.10 10.05	3.38	4.58	79.14 38.72		
	1.0						6.60						
AUG C	2.0	10.0	0.96		19.19		6.89	20.09	3.38	0.50	49.55		
SEP C	2.0	10.0	0.96		19.19		6.89	16.48	3.38	9.50	55.44		
OCT C	1.0	5.0	0.95		19.26		7.10		15.19		41.56		
NOV C	1.0	5.0	0.16		1.16		1.14				2.30		
Pickup Use					15.12						15.12		
Operating In	iterest at 10.0									49.66	49.66		
Total	17.0	85.0	7.43	1	154.86	Ę	53.83	139.53	35.47	72.55	456.25		
%					33.94	•	11.80	30.58	7.77	15.90	100.00		
Total N Total P Total K Total Labo Total Wate		223.8 38.8 0.0 7.4 85.0		Diesel Fu Unleader Electric / All Direct	d Gas Pumping	21.8 6.0 310.0 4.8	Gal Gal KWH M BT						
EQUIPMEN	T REQUIREM	MENTS (per	Acre)										
Bale Wag	on, SP PRC	0.	57 Hr	Baler, 3 wire w/mo	tor '	1.26 Hr		Border Dis	k, 6' Disk	0.09 Hr			
Offset Dis	sk, 13.5'	0.	05 Hr	Pickup Truck, 1/2	Ton 2	2.00 Hr		Rake, 9.5'	LH AND RH	0.90 Hr			
Seeder, E	Broadcast	0.	09 Hr	Tractor, 100 PTO I	HP, 2	2.40 Hr		Windrowe	r, 14.0', HS, SC	1.26 Hr			
MATERIALS	S REQUIREM	ENT (per A	cre)										
10-34-00			00 Ga	32-00-00, URAN 3	2. Lad 60	0.00 Ga		Alfalfa Sd.	Cert	4.50 Lb			
Disulfotor			00 Pt	Methomyl		1.00 Pt		Trifluralin		40.00 Lb			
	astic, 6500 '		43 TF	Water, Pump		5.00 AI							
LABOR REG	QUIREMENT	(per Acre)											
Harvest	ZO.I. CIVILIVI	\ I	80 Hr	Irrigators	2	2.74 Hr		Tractor		0.90 Hr			
*NOTE: F	P = Previous Y	ear C = Cu	rrent Year N =	Next Year									

COUNTY:Mohave FARM: Mohave County 98 WATER SOURCE: Colorado River Pump, TILLAGE: Conventional CROP: Alfalfa Hay w/Graze ACRES: IRRIGATION SYSTEM: Flood Basin Sandy-Loam SOIL: 7.5 Tn / Acre PREVIOUS CROP: YIELD: AREA: Mohave Valley Cotton, Upland DATE: 2/3/99

No	First o.Month	Times Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acres/Hr		Ise and Co Appl. I		\$ / Unit	Service (
1	Jan	10.0 Irrigate		6.20	Water, Pump	5.00	AI	2.79 A	١F	Irrigators
2	Feb	6.0 Irrigate/Run Fertilizer		6.20	Water, Pump 32-00-00, URAN 32,	5.00 A 10.00 G		2.79 <i>A</i>		Irrigators
3	Apr	7.0 Swathing	Windrower, 14.0', HS, SC	5.00						Harvest
4	Apr	7.0 Raking	100 Rake, 9.5' LH AND RH	7.00						Harvest
5	Apr	7.0 Baling	100 Baler, 3 wire w/motor	5.00	Twine, Plastic, 6500 '	0.49 T	F	6.57	ΓF	Harvest
6	Apr	7.0 Roadsiding	Bale Wagon, SP PRC	11.00						Tractor
7	Apr	2.0 Apply Herbicide/Air	CST Air Apply Granules 50lbs		Trifluralin	20.00 L	_b	0.91	Lb 4.5	8 Ac
8	Apr	1.0 Apply Insecticide/Air	CST Air Spray, 3 Gal Mix		Disulfoton	2.00 I	Pt 7	71.08	3a 4.2	3 Ac
9	Jun	1.0 Irrigate/Run Fertilizer		6.20	Water, Pump 10-34-00, Lqd	5.00 A	AI Sa 26	2.79 <i>A</i> 66.40		Irrigators
10	Jul	1.0 Rerun Borders	100 Border Disk, 6' Disk	10.00						Tractor
11	Sep	2.0 Apply Insecticide/Air	CST Air Spray, 5 Gal Mix		Methomyl	0.50 I	Pt 4	19.05	3a 4.7	5 Ac
12	Oct	0.3 Renovate	100 Offset Disk, 13.5'	5.00	-					Tractor
13	Oct	0.3 Plant Pickup use 60 Mi/Ac	100 Seeder, Broadcast Pickup Truck, 1/2 Ton	3.00 0.50	Alfalfa Sd, Cert	15.00 L	.b 25	50.00 C	W	Tractor

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