YIELD:

COUNTY: Maricopa CROP: Alfalfa Silage/Graze AREA: Salt River Project FARM: Maricopa County 98 ACRES: 1.0

20.0 Tn / Acre

WATER SOURCE: Salt River Project IRRIGATION SYSTEM: Flood Basin PREVIOUS CROP: Alfalfa Hay

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

	Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME	Silage	Ton	20.00	\$35.00	\$700.00	\$718.00	
	Sheep	Head Days	200.00	\$0.09	\$18.00		
CASH LAND	PREPARATION AND	GROWING EXPENSES (inc	luding sales tax)				
Paid Lab Irriga	or (including benefits)				40.94	40.94	
ŭ	ls and Custom Applicat	ions			.0.0 .	50.72	
Insed	cticide				11.76		
Herb	icide				38.95		
	Water (excluding labor seessment (See Note B					96.00	
		TOTAL CASH LAND PREF	PARATION AND GROW	ING EXPENSES		187.66	
CASH HAR	EST AND POST HAR	VEST EXPENSES					
	or (including benefits)					40.94	
	or/Self Propelled r/Contract				27.30 13.65		
	chinery and Vehicles				13.03	61.05	
Diese	el Fuel				11.60	61.05	
Repa	irs and Maintenance				49.45		
		TOTAL HARVEST AND PO	OST HARVEST EXPEN	SE		102.00	
OPERATING	OVERHEAD PICK	UP USE				10.19	
OPERATING	G INTEREST AT 10.0%					17.37	
		TOTAL CASH OPERATING	G EXPENSES			\$317.22	
		RETURNS OVER CASH	OPERATING EXPENS	ES		\$400.78	

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

^{**} A water assessment charge of \$20.00 per Acre is included as an ownership cost in Table B.

COUNTY:Maricopa FARM: Maricopa County 98 WATER SOURCE: Salt River Project TILLAGE: Conventional CROP: Alfalfa Silage/Graze AREA: Salt River Project YIELD: 20.0 Tn / Acre PREVIOUS CROP: Alfalfa Hay DATE: 2/3/99

ltem	CASH COST BASI Income and Costs	S (\$/ACRE) Net Returns	TOTAL COST BAS Income and Costs	SIS (\$/ACRE) Net Returns
TOTAL INCOME at \$35.00 / Tn	\$718.00		\$718.00	
TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$317.22	\$400.78	\$317.22	\$400.78
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead (5.0% of Total Operating Exp.) General Farm Maintenance (3.0% of Total Operating Exp.)	8.91 15.86 9.52		8.91 15.86 9.52	
Total Cash Overhead Expenses	34.29		34.29	
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES	351.51	\$366.49	351.51	\$366.49
CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles Stand Establishment (3 year crop)	110.89		62.72 3.82 110.89	
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK	110.89	\$255.60	177.43	\$189.06
Land Cost / Ownership (100% Equity) Property Taxes (\$619.00 X 16.0% X 0.141) Opportunity Interest on Land (100% X 6.0 X \$619.00) Water Assessment	13.98 20.00		13.98 37.14 20.00	
Total Land Costs RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK	33.98	\$221.62	71.12	\$117.94
Management Services (8% of Total Operation Expenses)			25.38	
TOTAL OWNERSHIP COST	179.17		308.23	
TOTAL COST RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO RISK (PROFITS)	\$496.38 >	\$221.62	\$625.44	\$92.56
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$14.96 \$8.96 \$23.92		\$14.96 \$15.41 \$30.37

FARM: Maricopa County 98 WATER SOURCE: TILLAGE: Conventional COUNTY:Maricopa Salt River Project ACRES: CROP: Alfalfa Silage/Graze IRRIGATION SYSTEM: Flood Basin SOIL: Sandy-Loam AREA: Salt River Project YIELD: 20.0 Tn / Acre PREVIOUS CROP: 2/3/99 Alfalfa Hay DATE:

	First		Hour	s *	Operati	ng Costs (\$/ACRE *	Per Opera	tion		Tot. Cash	
No.	Month	Operation	Machine	Labor	Fuel/Rps.	Labor Ci	ust/Serv.	Materials	Total	Times	Expenses	Class
1	Feb	Irrigate		0.300		2.92		2.50	5.42	8.0	43.40	G
2	Mar	Irrigate/Run Herbicide		0.300		2.92		19.16	22.08	6.0	132.50	G
3	Apr	Apply Insecticide/Air					4.23	7.53	11.76	1.0	11.76	G
4	Apr	Swathing	0.180	0.200	2.69	1.95			4.64	7.0	32.51	Н
5	Apr	Chopping	0.180	0.200	3.98	1.95			5.93	7.0	41.48	Н
6	Apr	Field Transport	0.180	0.200	2.05	1.95			4.00	7.0	28.00	Н
	•	Pickup Use40 Mi/Acre	1.333		10.19						10.19	
		Operating Interest at 10.0					17.37				17.37	
				тот	AL CASH OPE	ERATING EX	XPENSES	(includes a	Il times ove	er):	317.22	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.

A water assessment charge of \$20.00 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY	CLASS
Land Preparation (L)	0.00
Growing (G)	187.66
Harvest (H)	102.00
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	27.56
Total (T)	\$317.22

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

Prices		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		\$26.25	\$31.50	\$35.00	\$38.50	\$43.75 E	Break-even Price
- 25%	15.0	105.98	184.73	237.23	289.73	368.48	19.18
- 10%	18.0	169.43	263.93	326.93	389.93	484.43	16.84
Budgeted	20.0	211.73	316.73	386.73	456.73	561.73	15.66
+ 10%	22.0	254.04	369.54	446.54	523.54	639.04	14.70
+ 25%	25.0	317.49	448.74	536.24	623.74	754.99	13.55
Break-even Y	ield	9.99	8.00	7.07	6.33	5.47	

COUNTY:Maricopa FARM: Maricopa County 98 WATER SOURCE: Salt River Project CROP: Alfalfa Silage/Graze AREA: Salt River Project YIELD: 20.0 Tn / Acre PREVIOUS CROP: Alfalfa Hay

STEM: Flood Basin SOIL: Sandy-Loam P: Alfalfa Hay DATE: 2/3/99

TILLAGE: Conventional

	Number	Water	Total		Fuel Cil	Operat	Operating Costs (\$/ACRE *)					
Month *	Number Irrigations	Applied (inches)	Labor (Hrs)	Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total		
FEB C	1.0	6.0	0.30			2.92				2.92		
MAR C	1.0	6.0	0.30	5.00		2.92	6.49			14.42		
APR C	2.0	12.0	1.20	5.00	8.72	11.70	14.03		4.23	43.68		
MAY C	1.0	6.0	0.90		8.72	8.77				17.50		
JUN C	2.0	12.0	1.20	16.50	8.72		6.49			43.41		
JUL C	2.0	12.0	1.20	21.50	8.72		6.49			48.41		
AUG C	1.0	6.0	0.90	5.00	8.72					22.50		
SEP C	2.0	12.0	1.20	21.50	8.72		6.49			48.41		
OCT C	1.0	6.0	0.90	16.50	8.72		6.49			40.49		
NOV C	1.0	6.0	0.30	5.00		2.92				7.92		
Pickup Use					10.19					10.19		
	iterest at 10.0								17.37	17.37		
Water Asses	ssment			**								
Total	14.0	84.0	8.40	96.00	71.24	81.89	46.49		21.60	317.22		
%				30.26	22.46	25.81	14.66		6.81	100.00		
TOTAL DES	OURCE REC	NIIDEMENIT	S (per Acre)	TOTAL ENE	RGY REQUIRE	EMENTS (per	Acro)					
Total N	SOUNCE INEC		3 (per Acre)	Diesel F			,					
Total P		0.0 0.0		Unleade		14.4 Ga 4.0 Ga						
Total K		0.0		All Direc			ıı BTU					
Total Labo	or	8.4		All Dilec	Lileigy	2.5 101	ыо					
Total Wat		84.0										
- Total Wat		04.0										
EOLIIDMEN	T REQUIREM	MENITS (per	Acre)									
	arvester PTO		26 Hr	Forage Wagon PT	·O	2.52 Hr	Pickup Tri	uck, 1/2 Ton	1.33 Hr			
	arvester FTO 60 PTO HP,		26 Hr	Tractor, 100 PTO		1.26 Hr		r, 14.0', HS, SC				
	00110111,		20 111	Tractor, 100 1 10	· · · · · · · · · · · · · · · · · · ·	1.20 111	villatowe	1, 14.0 , 110, 00	1.20 111			
MATERIAL	S REQUIREM	ENT (per //	ore)									
Dimethoa			50 Pt	EPTC		8.40 Pt	Water, Dis	strict	84.00 AI			
				L1 10		0.70 1 (vvater, Di	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	04.00 AI			
I AROD DE	QUIREMENT	(per Acre)										
Harvest	ZOINEIVIEIVI		40 Hr	Irrigators		4.20 Hr	Tractor		2.80 Hr			
110.7000				ga.010		5	1140.01		2.00 111			

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

^{**} A water assessment charge of \$20.00 per Acre is included as an ownership cost in Table B.

COUNTY:Maricopa FARM: Maricopa County 98 WATER SOURCE: Salt River Project TILLAGE: Conventional CROP: Alfalfa Silage/Graze AREA: Salt River Project YIELD: 20.0 Tn / Acre PREVIOUS CROP: Alfalfa Hay DATE: 2/3/99

N	First o.Month1	Times	Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acres/Hr				 \$	Service Cost \$ / Unit	t Labor Type
1	Feb	8.0	Irrigate		3.33	Water, District	6.00	ΑI	5.00 A	F	Irrigators
2	Mar	6.0	Irrigate/Run Herbicide		3.33	Water, District EPTC		AI Pt	25.33 A 35.08 G		Irrigators
3	Apr	1.0	Apply Insecticide/Air	CST Air Spray, 3 Gal Mix		Dimethoate	1.50	Pt	38.00 G	ia 4.23 A	С
4	Apr	7.0	Swathing	Windrower, 14.0', HS, SC	5.00						Harvest
5	Apr	7.0	Chopping	100 Forage Harvester PTO Forage Wagon PTO Unloader	5.00						Tractor
6	Apr		Field Transport Pickup use 40 Mi/Ac	60 Forage Wagon PTO Pickup Truck, 1/2 Ton	5.00 0.75						Tractor

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