COUNTY: Graham FARM: Graham County 98 WATER SOURCE: Surface/Pump TILLAGE: Conventional CROP: Alfalfa Hay ACRES: 1.0 IRRIGATION SYSTEM: Flood Basin SOIL: Sandy-Loam AREA: Safford Valley YIELD: 6.3 Tn / Acre PREVIOUS CROP: Cotton, Upland DATE: 2/4/99

NCOME Hay Ton 6.30 \$96.70 \$609.21 \$609.21	ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
Paid Labor (including benefits)	INCOME Hay	Ton	6.30	\$96.70	\$609.21	\$609.21	
Insecticide	Paid Labor (including benefits) Tractor/Self Propelled Irrigation	·	cluding sales tax)				
Diesel Fuel Repairs and Maintenance 0.68 Repairs and Maintenance 23.36		113			7.76	7.70	
Pump Energy - Electric Repairs and Maintenance 1.77	Diesel Fuel					1.50	
CASH HARVEST AND POST HARVEST EXPENSES Paid Labor (including benefits) 32.63 Tractor/Self Propelled 15.56 Other/Contract 17.07 Farm Machinery and Vehicles 121.67 Diesel Fuel 13.68 Repairs and Maintenance 107.99 Other Materials 22.46 TOTAL HARVEST AND POST HARVEST EXPENSE 176.76 OPERATING OVERHEAD PICKUP USE 10.09 OPERATING INTEREST AT 10.0% 20.37 TOTAL CASH OPERATING EXPENSES	Pump Energy - Electric Repairs and Maintenance	ow) **				23.36	
Paid Labor (including benefits) 32.63 Tractor/Self Propelled 15.56 Other/Contract 17.07 Farm Machinery and Vehicles 121.67 Diesel Fuel 13.68 Repairs and Maintenance 107.99 Other Materials 22.46 TOTAL HARVEST AND POST HARVEST EXPENSE 176.76 OPERATING OVERHEAD PICKUP USE 10.09 OPERATING INTEREST AT 10.0% 20.37 TOTAL CASH OPERATING EXPENSES \$285.79		TOTAL CASH LAND PRE	PARATION AND GROW	ING EXPENSES		78.57	
Tractor/Self Propelled Other/Contract 15.56 Other/Contract 17.07 Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance Other Materials 13.68 Other Materials 107.99 Other Materials 22.46 OTHERATING OVERHEAD PICKUP USE OPERATING INTEREST AT 10.0% 176.76 OTHERATING OVERHEAD PICKUP USE OPERATING INTEREST AT 10.0% 10.09 OTHERATING OVERHEAD PICKUP USE OTHERATING EXPENSES	CASH HARVEST AND POST HARVI	EST EXPENSES					
Diesel Fuel Repairs and Maintenance Other Materials 13.68 107.99	Tractor/Self Propelled					32.63	
TOTAL HARVEST AND POST HARVEST EXPENSE 176.76 OPERATING OVERHEAD PICKUP USE 10.09 OPERATING INTEREST AT 10.0% 20.37 TOTAL CASH OPERATING EXPENSES \$285.79	Diesel Fuel Repairs and Maintenance					-	
OPERATING OVERHEAD PICKUP USE 10.09 OPERATING INTEREST AT 10.0% 20.37 TOTAL CASH OPERATING EXPENSES \$285.79							
OPERATING INTEREST AT 10.0% TOTAL CASH OPERATING EXPENSES \$285.79		TOTAL HARVEST AND P	OST HARVEST EXPEN	SE		176.76	
TOTAL CASH OPERATING EXPENSES \$285.79		P USE					
· · · · · · · · · · · · · · · · · · ·						=========	
				ES		•	

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

^{**} A water assessment charge of \$25.00 per Acre is included as an ownership cost in Table B.

COUNTY:Graham FARM: Graham County 98 WATER SOURCE: Surface/Pump TILLAGE: Conventional CROP: Alfalfa Hay ACRES: 1.0 IRRIGATION SYSTEM: Flood Basin SOIL: Sandy-Loam AREA: Safford Valley YIELD: 6.3 Tn / Acre PREVIOUS CROP: Cotton, Upland DATE: 2/4/99

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ltem	CASH COST BASI Income and Costs	IS (\$/ACRE) Net Returns	TOTAL COST BASIS (\$/ACRE) Income and Costs Net Returns
TOTAL INCOME at \$96.70 / Tn	\$609.21		\$609.21
TOTAL OPERATING EXPENSES	\$285.79		\$285.79
RETURN OVER CASH OPERATING EXPENSES		\$323.42	\$323.42
CASH OVERHEAD EXPENSES			
Taxes, Housing and Insurance, Farm Machinery	10.42		10.42
Wells and Irrigation System General and Office Overhead (5.0% of Total Operating Exp.)	8.42 14.29		8.42 14.29
General Farm Maintenance (3.0% of Total Operating Exp.)	8.57		8.57
Total Cash Overhead Expenses	41.70		41.70
Total Cash Operating and Overhead Cost	327.49		327.49
RETURNS OVER CASH OPER. AND OVER. EXPENSES		\$281.72	\$281.72
CAPITAL ALLOCATIONS (100% Equity)			20.00
Capital Replacement, Machinery and Vehicles Wells and Irrigation System			69.38 15.86
Interest on Equity, Machinery and Vehicles			5.93
Wells and Irrigation System			5.75
Stand Establishment (3 year crop)	98.47		98.47
Total Capital Allocations	98.47		195.40
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK - RETURNS TO LAND, MANAGEMENT AND RISK	>	> \$183.25 	\$86.32
RETORNO TO LAND, MANAGEMENT AND MOR			ψ00.02
Land Cost / Ownership (100% Equity)	0.00		0.00
Property Taxes (\$600.00 X 16.0% X 0.093) Opportunity Interest on Land (100% X 6.0 X \$600.00)	8.93		8.93 36.00
Water Assessment	25.00		25.00
Total Land Costs	33.93		69.93
RETURNS TO CAPITAL, MANAGEMENT AND RISK	>	\$149.32	00.00
RETURNS TO MANAGEMENT AND RISK			> \$16.39
Management Services (8% of Total Operation Expenses)			22.86
TOTAL OWNERSHIP COST	174.11		329.89
TOTAL COST	\$459.89		\$615.68
RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO RISK (PROFITS)	>	\$149.32	/fig. 47\
KETUKNO TO KIOK (PKOFITO)			> (\$6.47)
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		\$45.36	\$45.36
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$27.64	\$52.36
BREAK-EVEN PRICE TO COVER TOTAL COST		\$73.00	\$97.73

COUNTY:Graham FARM: Graham County 98 WATER SOURCE: Surface/Pump TILLAGE: Conventional ACRES: CROP: Alfalfa Hay 1.0 IRRIGATION SYSTEM: Flood Basin SOIL: Sandy-Loam AREA: Safford Valley YIELD: 6.3 Tn / Acre PREVIOUS CROP: Cotton, Upland DATE: 2/4/99

	First		Hours	s *	Operati	ng Costs (\$	ACRE *) Per Opera	ion		Tot. Cash	
No.	Month	Operation	Machine	Labor	Fuel/Rps.	Labor Cus	st/Serv. Materials	Total	Times	Expenses	Class
1	Feb	Irrigate		0.403		2.75		2.75	9.8	26.95	G
2	Feb	Irrigate		0.606	5.56	4.14		9.70	4.2	40.73	G
3	Mar	Apply Insect./Ground	0.180	0.200	1.50	1.64	7.76	10.89	1.0	10.89	G
4	May	Swathing	0.225	0.250	3.33	1.71		5.04	6.0	30.23	Н
5	Jul	Raking	0.180	0.200	1.49	1.64		3.13	2.0	6.26	Н
6	May	Baling	0.225	0.250	3.32	2.05	3.74	9.11	6.0	54.67	Н
7	Apr	Roadsiding	0.150	0.167	13.13	1.14		14.27	6.0	85.59	Н
		Pickup Use40 Mi/Acre	1.333		10.09					10.09	
		Operating Interest at 10.0					20.37			20.37	
				тот	TAL CASH OPE	RATING EX	PENSES (includes al	l times ove	er):	285.79	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 \$25.00 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY	BY CLASS	SENSITIVITY	OF THE N	NET REVEN	IUES OVE	R TOTAL CAS	SH EXPENS	SES (\$/ACR	E)
Land Preparation (L)	0.00	Prices		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Growing (G)	78.57	Yields		\$72.52	\$87.03	\$96.70	\$106.37	\$120.88	Break-even Price
Harvest (H)	176.76								
Post Harvest (P)	0.00	- 25%	4.7	107.62	176.16	221.85	267.54	336.08	49.75
Marketing (M)	0.00	- 10%	5.7	149.65	231.89	286.72	341.55	423.79	46.13
Operating Overhead (O)	30.46	Budgeted	6.3	177.66	269.04	329.96	390.88	482.27	44.32
	=========	+ 10%	6.9	205.68	306.20	373.21	440.22	540.74	42.85
Total (T)	\$285.79	+ 25%	7.9	247.70	361.93	438.08	514.23	628.45	41.07
		Break-even Yi	eld	2.30	1.74	1.49	1.31	1.10	

COUNTY:Graham FARM: Graham County 98 WATER SOURCE: Surface/Pump TILLAGE: Conventional ACRES: YIELD: IRRIGATION SYSTEM: Flood Basin CROP: Alfalfa Hay 1.0 SOIL: Sandy-Loam 6.3 Tn / Acre PREVIOUS CROP: 2/4/99 AREA: Safford Valley Cotton, Upland DATE:

		Water		1		Or	erating	Costs (\$/A	J. ()		
Month *	Number Irrigations	Applied (inches)	Total Labor (Hrs)	Purchased Water	Fuel, Oil and Repairs	la	bor (Chemicals	Other Purchases	Services	Total
WOITH	irrigations	(IIICIICS)	Labor (1113)	Water	and Repairs	La	DOI (Cileillicais	Turchases	Jei vices	Total
FEB C	1.0	6.0	0.46		1.67		3.17				4.83
MAR C	1.0	6.0	0.66		3.16		4.80	7.76			15.73
APR C	1.0	6.0	0.46		1.67		3.17				4.83
MAY C	2.0	12.0	1.59		23.12	1	1.22		3.74		38.08
JUN C	2.0	12.0	1.59		23.12	1	1.22		3.74		38.08
JUL C	2.0	12.0	1.79		24.61	1	2.86		3.74		41.21
AUG C	2.0	12.0	1.79		24.61		2.86		3.74		41.21
SEP C	2.0	12.0	1.59		23.12		1.22		3.74		38.08
OCT C	1.0	6.0	1.13		21.45		8.06		3.74		33.25
	40 Mi/Acre			I	10.09						10.09
	nterest at 10.0	1								20.37	20.37
Water Asse	ssment			**							
Total	14.0	84.0	11.10	1	156.62	-	78.59	7.76	22.46	20.37	285.79
%					54.80	2	27.50	2.72	7.86	7.13	100.00
Total N Total P Total K Total Lab Total Wat		0.0 0.0 0.0 11.1 84.0	3 (per Acre)	Diesel F Unleade Electric		18.8 4.0 278.8 4.1	Gal Gal KWH M BT	,			
EQUIPMEN	IT REQUIREM	MENTS (per	Acre)								
	gon, SP PRC			Baler, 2 Wire Auto		1.35 Hr			ıck, 1/2 Ton	1.33 Hr	
Rake, 9.5 Windrow	5' LH er, 14.0', HS, 3		36 Hr 35 Hr	Saddle Tk Spraye	r, 2 Tk 8	0.18 Hr		Tractor, 10	00 PTO HP,	1.89 Hr	
	S REQUIREM	\ !	,					-			
Baling Tv Water, P	vine (6500') ump		24 TF 20 AI	Malathion		2.00 Pt		Water, Dis	trict	58.80 AI	
LABOR RE	QUIREMENT	(per Acre)									
Harvest			50 Hr	Irrigators		6.49 Hr		Tractor		2.10 Hr	
*NOTE: F	D	/ C C:	urrent Vear N - N	aut Vaan							

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

^{**} A water assessment charge of \$25.00 per Acre is included as an ownership cost in Table B.

COUNTY:Graham FARM: Graham County 98 WATER SOURCE: Surface/Pump TILLAGE: Conventional CROP: Alfalfa Hay ACRES: IRRIGATION SYSTEM: Flood Basin 1.0 SOIL: Sandy-Loam AREA: Safford Valley YIELD: 6.3 Tn / Acre PREVIOUS CROP: Cotton, Upland DATE: 2/4/99

N	First o.Month	Times	Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acres/Hr				 \$/Ur		Service Cost \$ / Unit	Labor Type
1	Feb	9.8	Irrigate		2.48	Water, District	6.00	ΑI	0.00	AF		Irrigators
2	Feb	4.2	Irrigate		1.65	Water, Pump	6.00	ΑI	11.12	ΑF		Irrigators
3	Mar	1.0	Apply Insect./Ground	100 Saddle Tk Sprayer, 2 Tk 8	5.00	Malathion	2.00	Pt	29.42	Ga		Tractor
4	May	6.0	Swathing	Windrower, 14.0', HS, SC	4.00							Harvest
5	Jul	2.0	Raking	100 Rake, 9.5' LH	5.00							Tractor
6	May	6.0	Baling	100 Baler, 2 Wire Auto PTO	4.00	Baling Twine (6500')	0.54	TF	6.57	TF		Tractor
7	Apr	6.0	Roadsiding Pickup use 40 Mi/Ac	Bale Wagon, SP PRC Pickup Truck, 1/2 Ton	6.00 0.75	C , ,						Harvest

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