FARM: Graham County Farm ACRES: 1.0 COUNTY: Graham WATER SOURCE: Both TILLAGE: Conventional IRRIGATION SYSTEM: Flood Furrow Cotton, Pima CROP: SOIL: Sandy-Loam YIELD: 698.0 Lb/Acre DATE: 10/14/96 AREA: Safford Valley PREVIOUS CROP: Cotton, Upland

Item	Unit	Quantity	Price /Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Lint	Pound	698.00	\$0.9400	\$656.12		
CottonSeed	Ton	0.65	114.6000	74.49	\$730.61	
CASH LAND PREPARATION AND GROWING	EXPENSES (including sale	s tax)				
Paid Labor (including benefits	3)				121.30	
Tractor/Self Propelled				54.97		
Hand				35.52		
Irrigation				30.81		
Chemicals & Custom Application	ns				113.38	
Fertilizers				49.88		
Insecticides				46.80		
Herbicides				16.71		
Farm Machinery and Vehicles					59.99	
Diesel Fuel				30.15		
Repairs & Maint.				29.84		
Irrigation (excluding labor)					21.01	
Pump Energy - Elect.				19.75		
Repairs & Maint.				1.26		
Water Assessment (See Note Bel	.ow) **				**	
Other Purchased Inputs & Servi	.ces				23.64	
Seed/Transplants				17.64		•
Other Services & Rental	.s			6.00		
TOTAL CAS	SH LAND PREPARATION AND G	ROWING EXPENSES	5		339.33	
CASH HARVEST AND POST HARVEST EXPE	INSES					
Paid Labor (including benefits	3)				19.25	
Tractor/Self Propelled	•			8.50		•
Other/Contract				10.75		
Chemicals & Custom Application	ıs				12.77	-
Other Chemicals				12.77		
Farm Machinery and Vehicles					64.74	
Diesel Fuel				12.50		-
Repairs & Maint.				52.24		-
Custom Harvest/Post Harvest					2.14	
Cotton Ginning					61.59	-
Crop Assessments					8.33	-
Other Materials					1.32	
TOTAL HAP	RVEST AND POST HARVEST EX	PENSE		-	170.14	
OPERATING OVERHEAD->PICKUP USE		-			14.86	
OPERATING INTEREST AT 8.0%					10.49	
				=	=======	
TOTAL CAS	SH OPERATING EXPENSES				\$534.83	
	OVER CASH OPERATING EXP	PNCPC			\$195.78	

Notes: The above figures do not include ownership costs, see Table 7B on Next Page for detailed cost allocation.

** A water assessment charge of \$35.00/Acre is included in the ownership costs of Table 7B.

FARM: Graham County Farm COUNTY: Graham WATER SOURCE: Both TILLAGE: Conventional CROP: Cotton, Pima ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam Safford Valley YIELD: 698.0 Lb/Acre 10/14/96 AREA: PREVIOUS CROP: Cotton, Upland DATE:

AREA: Salioid Valley ILLD: 696.0 LD/ACTE	PREVIOUS	CROP. COLLOII	, opiand DATE:	10/14/96
Item	- CASH COST BASI Income & Costs	S (\$/ACRE) - Net Returns	- TOTAL COST BAS Income & Costs	SIS (\$/ACRE) - Net Returns
TOTAL INCOME at \$ 0.9400/Lb + 2nd Crop TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$730.61 534.82	\$195.78	\$730.61 534.82	\$195.78
CASH OVERHEAD EXPENSES Taxes, Housing & Insur., Farm Machinery Wells & Irrig. System Gen. & Off. Overhead (5% of Tot. Oper. Exp.) General Farm Maint. (3% of Tot. Oper. Exp.)	11.40 6.14 26.74 16.04		11.40 6.14 26.74 16.04	
Total Cash Overhead Expenses	60.32		60.32	
Total Cash Oper. & Over. Cost RETURNS OVER CASH OPER. & OVER. EXPENSES.	595.14	135.46	595.14	135.46
CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery & Vehicles Wells & Irrig. System Interest on Equity, Machinery & Vehicles Wells & Irrig. System			78.85 10.97 31.46 4.17	
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT & RISK ———— RETURNS TO LAND, MANAGEMENT & RISK ————————————————————————————————————		> 135.46	125.44	-> 10.01
LAND COSTS / OWNERSHIP (100% Equity) Property Taxes (\$660 X 16% X .10016) Opport. Inter. on Land (100% X 6.0% X \$660) Water Assessment ** Total Land Costs RETURNS TO MANAGEMENT, CAPITAL & RISK	10.57 35.00 45.57	> 89.88	10.57 39.60 35.00 	
RETURNS TO MANAGEMENT & RISK			1	->(75.16)
Management Services (8% of Tot. Oper. Exp.)			42.78 	
TOTAL OWNERSHIP COST	105.89		313.73	
TOTAL COST RETURN TO MANAGEMENT, CAPITAL & RISK	\$640.72	> \$89.88	\$848.55 	->(\$117.94)
		40 6505		
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$0.6595 \$0.1517 \$0.8112	 	\$0.6595 \$0.4494 \$1.1089

Table 7C. Variable Operating Costs; Pima (ELS) Cotton, 1996

COUNTY: Graham FARM: Graham County Farm WATER SOURCE: Both TILLAGE: Conventional Sandy-Loam 10/14/96 CROP: Cotton, Pima ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: AREA: Safford Valley YIELD: 698.0 Lb/Acre PREVIOUS CROP: Cotton, Upland DATE:

	First		— Hours * - —							Tot. Cash		
No.	Month	Operation	Machine	Labor	Fuel/Rps.		Cust/Ser.			Times	Expense	Class
1	Jan	Plow	0.900	1.000	10.54	8.41			18.95	1.0	18.95	L
2	Feb	Landplane	0.273	0.300	2.74	2.52			5.26	0.7	3.69	L
3	Feb	Laser Level	0.300	0.333	2.83	2.80			5.63	0.3	1.69	L
4	Feb	Apply Herbicide/Ground	0.225	0.250	2.26	2.10		3.95	8.31	1.0	8.31	G
5	Feb	Disk	0.225	0.250	2.77	2.10			4.87	1.0	4.87	L
6	Feb	List	0.225	0.250	2.35	2.10			4.45	1.0	4.45	L
7	Feb	Disk Ends	0.030	0.033	0.36	0.28			0.64	9.0	5.75	G
8	Feb	Buck Rows	0.030	0.033	0.26	0.28			0.54	7.0	3.79	G
9	Feb	Preirrigate		1.000	ĺ	7.01			7.01	0.7	4.91	G
10	Feb	Preirrigate		1.500	21.01	10.51			31.52	0.3	9.46	G
11	Mar	Mulch	0.300	0.333	3.51	2.80			6.31	2.0	12.62	L
12	Apr	Plant		0.333	ĺ	2.80		17.64	20.44	1.0	20.44	L
13	Apr	Remove Cap	0.180	0.200	1.54	1.68			3.22	1.0	3.22	G
14	Apr	Apply Fert/Ground	0.150	0.167	1.81	1.40		49.88	53.09	1.0	53.09	G
15	Apr	Cultivate	0.450	0.500	4.50	4.20			8.70	2.0	17.41	G
16	May	Hand Weeding		3.333	ĺ	22.20			22.20	1.0	22.20	G
17	Jun	Irrigate		0.269	ĺ	1.89			1.89	6.3	11.91	G
18	Jun	Irrigate		0.403	4.67	2.82			7.49	2.7	20.22	G
19	Jun	Cultivate	0.300	0.333	3.00	2.80			5.80	3.0	17.41	G
20	Jun	Hand Weeding		2.000	ĺ	13.32			13.32	1.0	13.32	G
21	Jul	Apply Herbicide/Ground	0.225	0.250	2.26	2.10		12.76	17.12	1.0	17.12	G
22	Jul	Field Scouting			ĺ		6.00		6.00	1.0	6.00	G
23	Aug	Apply Insecticide/Air					6.00	9.60	15.60	3.0	46.80	G
24	Sep	Irrigate		0.403		2.82			2.82	0.7	1.97	G
25	Sep	Irrigate		0.606	7.00	4.25			11.25	0.3	3.38	G
26	Sep	Prepare Ends	0.045	0.050	0.40	0.42			0.82	1.0	0.82	H
27	Sep	Apply Defoliant/ NOT FOUND			İ			12.77	12.77	1.0	12.77	H
28	Nov	Cotton, First Pick	0.900	1.000	34.88	7.01			41.89	1.0	41.89	Н
29	Nov	Cotton, Make Modules	0.375	0.417	5.00	3.51		1.13	9.64	1.0	9.64	H

^{*} NOTES: See next page for notes.

Page 27

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0

0

Т

6.39

14.85

10.65

\$535.02

Table 7C. Variable Operating Costs; Pima (ELS) Cotton, 1996

0.300

2.000

0.333 |

37

Dec

Disk Residue

Pickup Use 60 Mi/Ac

Operating Interest at 8.00%

TOTAL CASH OPERATING EXPENSES:

COUNTY: CROP: AREA:	Cotton, Pima ACE	ARM: Graham Cou CRES: 1.0 CELD: 698.0	•	WATER SOURCE: IRRIGATION SYSTEM PREVIOUS CROP:	Both : Flood Furrow Cotton, Upland	TILLAGE: SOIL: DATE:	Conventional Sandy-Loam 10/14/96
Firs No. Mon		— Hour Machine		Operating Costs (\$ Labor Cust/Ser.			Cash ense Class
30 Nov 31 Nov	Cotton, Second Pick Cotton, Make Modules	0.600 0.265	0.667 23.25 0.294 3.54	4.67 2.47	27.92 0.20 6.21	1.0 6	.34 н .21 н
32 Nov 33 Nov 34 Dec	Cotton Ginning 20.5	1 Mu 5 Cs 4 Ba		61.59 2.14	0.00 61.59 2.14	1.0 61	.00 H .59 P .14 M
35 Dec 36 Dec	Crop Assessment 1.4 Cut Stalks	4 Ba 0.225	0.250 2.33	8.33 2.10	8.33 4.43		.33 M .43 P

\$160.61 \$140.57

3.59

14.85

2.80

10.65

\$106.71

OPERATING COST SUMMARY BY Land Preparation (L)	\$73.09	 Prices ->	SENSIT	IVITY 	7 OF NET -25%	REVENUES O	VER TOTAL C Budgeted	CASH EXPENSES +10%	5 (\$/Acr +25%	:e)
Growing (G) Harvest (H) Post Harvest (P)	266.26 93.6 66.01	 Yields		<u> </u>	\$0.70	\$0.84	\$0.94	\$1.03	\$1.17	Break-even
Marketing (M) Operating Overhead (O)	10.47 25.50	' −25% −10%	523.5 628.2	į	-123.41 -75.11	-49.59 13.45	-0.38 72.50	48.82 131.55	122.63 220.13	0.94 0.82
Total (T)	\$535.01	Budgeted +10%	698.0 767.8	İ	-42.92 -10.73	55.49 97.52	121.10 169.70	186.71 241.87	285.13 350.13	0.76 0.71
• •	•	+25% Break-even	872.5 Yield	į I	37.56 791.06	160.58 605.85	242.59 524.05	324.61 461.71	447.63 391.80	0.66

ARIZONA COOPERATIVE EXTENSION Department of Ag & Resource Economics The University of Arizona F 9/13

6.39

\$127.13

1.0

^{*} 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 \$35.00/Acre included as ownership cost in Table 7B.

COUNTY: CROP: AREA:	Graham Cotton, Safford		FARM: Gr ACRES: YIELD:	1	county Farm0 8.0 Lb/Acre	IRRI	R SOUR GATION IOUS (N SYSTI	EM: Fl	th ood Fu tton,	rrow Upland	TILLAGE: SOIL: DATE:	Conventiona Sandy-Loam 10/14/96
	Number	Water Applied	Total	ļ	Purchased	Fuel, Oil	– o <u>r</u>	perati	ng Cos	t (\$/A	cre) ——		
Month *	Irrig.		Labor (Hrs)	i	Water	& Repairs	Lal	oor	Chem	icals	Purchases	Service	es Total
JAN C			1.00	ı		10.54		. 41					18.95
FEB C	0.3	5.4	1.31			11.27		. 55		.16			24.98
MAR C	0.7	12.6	1.09	ļ		7.21		.10		. 79			16.10
APR C			1.74	ļ		13.65		. 71	49	. 88	17.64		95.88
MAY C	0 0		3.84	!		4.68		. 55					31.23
JUN C	2.0	8.0	3.08	!		7.05		. 57	10			6 00	28.61
JUL C	3.0	12.0	1.64	!		10.71		. 51		.77		6.00	41.99
AUG C	4.0	16.0	1.70	!		9.85		. 58		.20		12.00	53.63
SEP C NOV C	1.0	6.0	0.54 2.11	ļ.		2.86 57.37		. 95	22	. 37	1 20	6.00	35.18
				!				. 79 . 84			1.32	49.27	123.75 39.19
DEC C	TT 60 N	: /3 -	0.71	ı		10.57	Э.	. 84				22.79	
	Use 60 M		^ 0.			14.85						10 65	14.85 10.65
	ng intere ssessment	st at 8.0	06		**							10.65	10.65
Total	11.0	60.0	18.81	1		160.61	140	. 55	108	.17	18.96	106.71	535.00
8				i		30.01	26	. 27	20	. 22	3.54	19.94	100.00
	P	100.0 lbs 0.0 lbs 0.0 lbs 18.8 Hrs 60.0 AI			Diesel Fuel Regular Gas NonLead Gas Electricity/ All Direct E		39.0 0.0 6.0 199.1 6.8	Gal Gal KWH	ru				
		EMENTS (/Ac:	D 5.86	Hrs	Moldboard Pl	ow, 3-16 2 Wa	У				ane 12'X 45'	1	0.19 Hr
Drag	Scraper,	10'	0.00	Uma	Toson Dosois	on Moot Coot					Trailer		0.09 Hr
Saddl	e Tk Spra	yer, 2 Tk	8 Row 0.45	Hrs	Dbl. Offset	Disk, 13'					, 5 Bottom		0.23 Hr
	t Disk, 1		0.57	1113	NOWDUCK, IO			0.21	Hrs	Power 1	Mulcher, 4 F	₹w	0.60 Hr
Plant	er, 4 Row	•	0.00	Hrs	Section Harr	ow, 3 Section		0.18	Hrs	Fert.	Side Dréss U	Jnit, 4Row	
Culti	vator, Sw	eep, 4 Rw	1.80	Hrs	Blade Scrape	r, 10' er					Picker, 2 F		1.38 Hr
Tract	or, 80 F	TO HP, MFW	D 0.64	Hrs	Module Build	er		0.64	Hrs	Rotary	Stalk Cutte	er, 4 Row	0.23 Hr
Picku	p Truck,	1/2 Ton	2.00	Hrs									
		EMENTS (/Ac:									_		4
	uralin	=	1.00		Water, Distr			42.00		Water,	Pump		18.00 AI
		l + Fung	28.00		20-00-00, Am	m. Nitrate, D	ry :	500.00			~1.7 .		1.75 Qt
Prome Modul	tryn e Tarps		1.20 25.22	CW	Lambdacynalo	thrin		15.00	Oz	Soaium	Chlorate		2.00 Ga
LABOR R	EOUIREMEN	TS (/Acre)											
Tract		- (, 2)	7.55	Hrs	Irrigators			4.40	Hrs	Hand W	eeders		5.33 Hr
Harve			1.53		g -			• •					
_													

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

^{**} A water assessment charge of \$35.00/Acre included as ownership cost in Table 7B.

COUNTY: Graham TILLAGE: Conventional FARM: Graham County Farm WATER SOURCE: Both CROP: Cotton, Pima ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: YIELD: 698.0 Lb/Acre PREVIOUS CROP: 10/14/96 Safford Valley Cotton, Upland DATE: Service Cost First Equipment/Custom Oper. Job Rate — Material Use & Cost — Labor Appl. Rate \$/Unit No. Month Times Operation Self-Prop./Implem. Acres/Hr Name \$/Unit Type Jan 1.0 Plow 1.00 Tractor 1 100 Moldboard Plow, 3-16 2 2 Feb 0.7 Landplane 100 Landplane 12'X 45' 3.30 Tractor 3 Feb 0.3 Laser Level 100 Drag Scraper, 10' 3.00 Tractor Laser Receiver, Mast Sv Laser Trailer Feb 1.0 Apply Herbicide/Groun100 Saddle Tk Sprayer, 2 Tk 4.00 Trifluralin 1.00 Pt 30.06 Ga 4 Tractor 5 Feb 1.0 Disk 100 Dbl. Offset Disk, 13' 4.00 Tractor 6 Feb 1.0 List 100 Lister, 5 Bottom 4.00 Tractor 7 Feb 9.0 Disk Ends 100 Offset Disk, 13.5 30.00 Tractor 8 Feb 7.0 Buck Rows 100 Rowbuck, 10' 30.00 Tractor 9 Feb 0.7 Preirrigate 1.00 Water, District 18.00 AI 0.00 AF Irrigator 10 Feb 0.3 Preirrigate 0.67 Water, Pump 18.00 AI 14.00 AF Irrigator 2.0 Mulch 11 Mar 100 Power Mulcher, 4 Rw 3.00 Tractor 12 Apr 1.0 Plant 100 Planter, 4 Row Pima Cotton Sd + F 28.00 Lb 60.00 CW Tractor 13 1.0 Remove Cap 100 Section Harrow, 3 Secti 5.00 Apr Tractor 1.0 Apply Fert/Ground 6.00 20-00-00, Amm. Nit 500.00 Lb 190.00 Tn 14 Apr 100 Fert. Side Dress Unit, Tractor 15 Apr 2.0 Cultivate 100 Cultivator, Sweep, 4 Rw 2.00 Tractor 16 May 1.0 Hand Weeding 0.30 Hand Weed 17 Jun 3.72 Water, District 4.00 AI 0.00 AF 6.3 Irrigate Irrigator 18 Jun 2.7 Irrigate 2.48 Water, Pump 4.00 AI 14.00 AF Irrigator 100 Cultivator, Sweep, 4 Rw 19 Jun 3.0 Cultivate 3.00 Tractor 20 Jun 1.0 Hand Weeding 0.50 Hand Weed 21 Jul 1.0 Apply Herbicide/Groun100 Saddle Tk Sprayer, 2 Tk 4.00 1.75 Qt 17.50 Ga Tractor 1.20 Pt 30.00 Ga Prometryn 22 Jul 1.0 Field Scouting 6.00 Ac CST Scout For Insects 23 Aug 3.0 Apply Insecticide/Air CST Air Spray, 3 Gal Mi Lambdacyhalothrin 5.00 Oz 234.04 Ga 6.00 Ac Sep 24 0.7 Irrigate 2.48 Water, District 6.00 AI 0.00 AF Irrigator 25 0.3 Irrigate 6.00 AI 14.00 AF Sep 1.65 Water, Pump Irrigator 26 Sep 1.0 Prepare Ends 100 Blade Scraper, 10' 20.00 Tractor 27 1.0 Apply Defoliant/Air Sodium Chlorate 2.00 Ga 6.08 Ga 0.00 Sep CST 28 Nov 1.0 Cotton, First Pick Cotton Picker, 2 Row 1.00 Harvest 29 Nov 1.0 Cotton, Make Modules 80 Module Builder 2.40 Module Tarps 21.45 CW 0.05 CW Tractor 1.50 30 Nov 0.8 Cotton, Second Pick Cotton Picker, 2 Row Harvest 31 Nov 1.0 Cotton, Make Modules 80 Module Builder 3.40 Module Tarps 3.77 CW 0.05 CW Tractor 32 Nov 0.00 Mu 1.0 Haul, Custom CST Haul Cotton Modules 33 Nov 1.0 Cotton Ginning 3.00 Cs CST Gin Upland Cotton 34 Dec 1.0 Cotton Classing CST Class Cotton, HVI 1.50 Ba 35 Dec 1.0 Crop Assessment CST Pima (High Elev) 5.85 Ba 36 Dec 1.0 Cut Stalks 100 Rotary Stalk Cutter, 4 4.00 Tractor 37 Dec 1.0 Disk Residue 3.00 100 Offset Disk, 13.5' Tractor Pickup Use 60 Mi/Ac Pickup Truck, 1/2 Ton 0.50

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

^{**} A water assessment charge of \$35.00/Acre included as ownership cost in Table 7B.