COUNTY: Pinal

FARM: Pinal County 98

1.0

WATER SOURCE: Maricopa-Stanfield Irrig. IRRIGATION SYSTEM: Flood Furrow

Cotton, Upland

TILLAGE: Conventional SOIL:

Sandy-Loam 2/18/99

CROP: Corn Grain AREA: Maricopa

ACRES: YIELD:

8,400.0 Lb / Acre

PREVIOUS CROP:

DATE:

I	tem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME Grai	n	Pound	8,400.00	\$0.05	\$445.20	\$445.20	
CASH LAND PREP Paid Labor (inclu Tractor/Self Hand Irrigation	uding benefits)	OWING EXPENSES (inc	cluding sales tax)		20.41 4.33 13.16	37.90	
Chemicals and 0 Fertilizer Insecticide Herbicide	Custom Applications	8			107.76 68.74 15.79	192.29	
Farm Machinery Diesel Fuel Repairs and	and Vehicles Maintenance				10.78 17.73	28.51	
Irrigation Water Water Assessme	(excluding labor) ent (See Note Belov	v) **				120.04	
Other Purchased Seed/Transp					27.90	27.90	
	T	OTAL CASH LAND PRE	PARATION AND GROW	ING EXPENSES		406.65	
CASH HARVEST A	ND POST HARVES	ST EXPENSES					
Paid Labor (inclu Tractor/Self Irrigation					2.15 0.18	2.33	
Farm Machinery Diesel Fuel Repairs and	and Vehicles Maintenance				1.32 2.34	3.66	
Custom Harvest	/Post Harvest					84.50	
	T	OTAL HARVEST AND P	OST HARVEST EXPEN	SE		90.49	
OPERATING OVER OPERATING INTER		USE				7.71 14.62	
		OTAL CASH OPERATIN RETURNS OVER CASH		ES		\$519.46 (\$74.26)	

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

<sup>\*\*</sup> A water assessment charge of \$25.00 per Acre is included as an ownership cost in Table B.

COUNTY:Pinal FARM: Pinal County 98 WATER SOURCE: Maricopa-Stanfield Irrig. Conventional RRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Maricopa YIELD: 8,400.0 Lb / Acre PREVIOUS CROP: Cotton, Upland DATE: 2/18/99

	- CASH COST BASI	ASH COST BASIS (\$/ACRE) TOTAL COST BASIS (\$/ACRE)						
ltem	Income and Costs	Net Returns	Income and Costs Net Returns					
TOTAL INCOME at \$0.05 / Lb	\$445.20		\$445.20					
TOTAL OPERATING EXPENSES	\$519.46		\$519.46					
RETURN OVER CASH OPERATING EXPENSES		(\$74.26)	(\$74.26)					
CASH OVERHEAD EXPENSES	2.40		2.40					
Taxes, Housing and Insurance, Farm Machinery General and Office Overhead (5.0% of Total Operating Exp.)	3.40 25.97		3.40 25.97					
General Farm Maintenance (3.0% of Total Operating Exp.)	15.58		15.58					
Total Cash Overhead Expenses	44.95		44.95					
Total Cash Operating and Overhead Cost	564.41		564.41					
RETURNS OVER CASH OPER. AND OVER. EXPENSES		(\$119.21)	(\$119.21)					
CAPITAL ALLOCATIONS (100% Equity)								
Capital Replacement, Machinery and Vehicles			19.15					
Interest on Equity, Machinery and Vehicles			7.65 					
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK -		(\$110.01)	26.80					
RETURNS TO LAND, MANAGEMENT AND RISK		· (\$119.21)	> (\$146.01)					
Land Cost / Ownership (100% Equity)								
Property Taxes (\$447.00 X 16.0% X 0.169)	12.15		12.15					
Opportunity Interest on Land (100% X 6.0 X \$447.00)			26.82					
Water Assessment	25.00		25.00					
Total Land Costs	37.15	(4	63.97					
RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK			(\$209.98)					
			,					
Management Services (8% of Total Operation Expenses)			41.56 					
TOTAL OWNERSHIP COST	82.10 		177.28 					
TOTAL COST	\$601.56	(4	\$696.74					
RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO RISK (PROFITS)			> (\$251.54)					
KETOKING TO KISK (FROFITS)			(φ201.04)					
BREAK-EVEN PRICE TO COVER OPERATING COST ( PER Lb )		\$0.06	\$0.06					
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$0.01	\$0.02					
BREAK-EVEN PRICE TO COVER TOTAL COST		\$0.07	\$0.08					

COUNTY:Pinal FARM: Pinal County 98 WATER SOURCE: Maricopa-Stanfield Irrig. TILLAGE: Conventional CROP: Corn Grain ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Maricopa YIELD: 8,400.0 Lb / Acre PREVIOUS CROP: Cotton, Upland DATE: 2/18/99

	First		Hours	s *	Operati	ng Costs (	First Hours * Operating Costs (\$/ACRE *) Per Operation							
No.	Month	Operation	Machine	Labor	Fuel/Rps.	Labor Ci	ust/Serv. N	/laterials	Total	Times	Expenses	Class		
1	Jan	Disk	0.188	0.208	3.27	1.70			4.97	3.0	14.92	L		
2	Jan	Rip	0.265	0.294	3.95	2.41			6.36	1.0	6.36	L		
3	Feb	Apply Herbicide/Ground	0.090	0.100	0.81	0.82		15.79	17.42	1.0	17.42	G		
4	Feb	List	0.225	0.250	3.48	2.05			5.53	1.0	5.53	L		
5	Feb	Apply Fert/Ground	0.113	0.125	1.43	1.02		33.66	36.11	1.0	36.11	G		
6	Feb	Mulch	0.162	0.180	1.42	1.47			2.89	1.0	2.89	L		
7	Feb	Disk Ends	0.011	0.013	0.12	0.11			0.23	3.0	0.68	G		
8	Feb	Make Borders	0.022	0.025	0.16	0.20				3.0	1.09	G		
9	Feb	Block Borders	0.011	0.013	0.08	0.11				3.0	0.56	G		
10	Feb	Preirrigate		0.129		0.88		33.16	34.04	1.0	34.04	G		
11	Feb	Knock Borders	0.022	0.025	0.13	0.20				3.0	0.99	G		
12	Feb	Plant	0.180	0.200	2.52	1.64		27.90	32.06	1.0	32.06	L		
13	Mar	Remove Cap	0.082	0.091	0.48	0.75			1.22	1.0	1.22	G		
14	Mar	Cultivate	0.200	0.222	1.75	1.82			3.57	1.0	3.57	G		
15	Mar	Irrigate/Run Fertilizer		0.200		1.36		17.89	19.25	9.0	173.27	G		
16	Apr	Cultivate	0.161	0.179	1.41	1.47			2.88	1.0	2.88	G		
17	Apr	Hand Weeding		0.667		4.33			4.33	1.0	4.33	G		
18	May	Apply Insecticide/Air					4.23	11.77	16.00	1.0	16.00	G		
19	May	Apply Insecticide/Air					4.23	22.14	26.37	2.0	52.73	G		
20	Jul	Prepare Ends	0.011	0.013	0.17	0.09			0.26	2.0	0.51	Н		
21	Jul	Combine Harvest					61.00		61.00	1.0	61.00	Н		
22	Jul	Haul 50					23.50		23.50	1.0	23.50	Н		
23	Aug	Cut Stalks 94 CW	0.237	0.263	3.33	2.15			5.48	1.0	5.48	Р		
	ŭ	Pickup Use30 Mi/Acre	1.000		7.71						7.71			
		Operating Interest at 10.0					14.62				14.62			
				ТОТ	AL CASH OPE	RATING EX	XPENSES	(includes a	I times ove	er):	519.46	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 SI

 Land Preparation (L)
 61.76

 Growing (G)
 344.89

 Harvest (H)
 85.01

 Post Harvest (P)
 5.48

 Marketing (M)
 0.00

 Operating Overhead (O)
 22.33

 Total (T)
 \$519.46

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

Prices		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		\$0.04	\$0.05	\$0.05	\$0.06	\$0.07	Break-even Price
- 25%	6,300.0	-241.30	-191.21	-157.82	-124.43	-74.35	0.08
- 10%	7,560.0	-204.79	-144.69	-104.62	-64.55	-4.45	0.07
Budgeted	8,400.0	-180.45	-113.67	-69.15	-24.63	42.15	0.06
+ 10%	9,240.0	-156.11	-82.65	-33.68	15.30	88.75	0.06
Break-even Yield		14,627.2	11,478.1	10,037.5	8,918.16	7,640.17	

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COUNTY:Pinal FARM: Pinal County 98 WATER SOURCE: Maricopa-Stanfield Irrig. TILLAGE: Conventional CROP: Corn Grain ACRES: IRRIGATION SYSTEM: Flood Furrow 1.0 SOIL: Sandy-Loam AREA: Maricopa YIELD: 8,400.0 Lb / Acre PREVIOUS CROP: Cotton, Upland DATE: 2/18/99

		Water			Operating Costs (\$/ACRE *)							
	Number	Applied	Total	Purchased	Fuel, Oil			Other				
Month *	Irrigations	(inches)	Labor (Hrs)	Water	and Repairs	Labor	Chemicals	Purchases	Services	Total		
14110			0.74		40.40	5.04				40.00		
JAN C	4.0	7.0	0.71	40.54	10.49	5.81	00.07	07.00		16.30		
FEB C	1.0	7.0	1.27	19.54	13.41	10.21	63.07	27.90		134.13		
MAR C	2.0	8.0	0.79	22.33	2.71	5.91	13.44			44.40		
APR C	2.0	8.0	1.32	22.33	1.90	9.14	13.44			46.81		
MAY C	2.0	8.0	0.40	22.33		2.73	47.35		8.46	80.87		
JUN C	2.0	8.0	0.41	22.33	0.17	2.82	35.58		4.23	65.12		
JUL C	1.0	4.0	2.73	11.17	0.17	1.45	6.72		84.50	80.51		
AUG C			0.26		3.33	2.15				5.48		
Pickup Use:	30 Mi/Acre				7.71					7.71		
Operating In	nterest at 10.0								14.62	14.62		
Water Asses	ssment			**								
Total	10.0	43.0	7.90	120.04	39.88	40.24	179.60	27.90	111.81	519.46		
%	10.0	40.0	7.00	23.11	7.68	7.75		5.37	21.52	100.00		
Total P Total K Total Labo Total Wate		90.0 0.0 7.9 43.0		Unleaded All Direct E		3.0 Ga 2.6 M	al BTU					
EQUIPMEN	T REQUIREM	1ENTS ( per	Acre)									
Blade Sc	raper, 10'	0.	10 Hr	Border Disk, 6' Disk	0.0	7 Hr	Dbl. Offse	t Disk, 13'	0.03 Hr			
Directed	Spray Rig, 16	0.	09 Hr	Fertilizer Spreader, 2	28' 0.1	1 Hr		Cutter, 4 Row	0.24 Hr			
Lister, 7 E	Bottom	0.	22 Hr	Offset Disk, 13.5'	0.0	2 Hr	Offset Dis	k, 16.5'	0.56 Hr			
	ruck, 1/2 Ton		00 Hr	Planter, Drill Type, 6	Row 0.1	8 Hr	Rolling Cu	ıltivator, 6 Rw	0.52 Hr			
Section F	larrow, 4 Sect	ion 0.	08 Hr	Tractor, 80 PTO HP	P, 0.1	5 Hr	Tractor, 1	00 PTO HP,	1.04 Hr			
Tractor, 1	125 PTO HP	0.	26 Hr	Tractor, 150 PTO H	P 1.0	5 Hr	V-Ripper,	5 Shnk	0.26 Hr			
MATERIALS	S REQUIREM	ENT ( per Ad	cre)									
	, Treble Supe		00 Lb	46-00-00, Urea 46	100.0	0 Lb	82-00-00,	Anhyd.	360.00 Lb			
Atrazine			00 Lb	Field Corn Sd		0 Th	Methomyl		5.00 Pt			
Permethr	in	-	00 Oz	Water, District		0 AI	,					
LABOR REC	QUIREMENT	( per Acre)										
Hand We			67 Hr	Irrigators	1.9	6 Hr	Tractor		2.76 Hr			

<sup>\*</sup>NOTE: P = Previous Year C = Current Year N = Next Year

<sup>\*\*</sup> A water assessment charge of \$25.00 per Acre is included as an ownership cost in Table B.

COUNTY:Pinal FARM: Pinal County 98 WATER SOURCE: Maricopa-Stanfield Irrig. TILLAGE: Conventional CROP: Corn Grain ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Maricopa YIELD: 8,400.0 Lb / Acre PREVIOUS CROP: Cotton, Upland DATE: 2/18/99

	First			Equipment/ Custom Oper	Job Rate	Materia	al Use and Cos	t	_	Service Cost	Labor
No	o.Month	Times	Operation	HP Self-Prop./ Implement	Acres/Hr			ate \$/Ur	_	\$ / Unit	Туре
				ти сем тери инфизичения				<del></del>		<del>*</del> , • · · · · · · · · · · · · · · · · · ·	-71
1	Jan	3.0	Disk	150 Offset Disk, 16.5'	4.80					-	Tractor
2	Jan	1.0	Rip	150 V-Ripper, 5 Shnk	3.40					-	Tractor
3	Feb	1.0	Apply Herbicide/Ground	d 100 Directed Spray Rig, 16	10.00	Atrazine	5.00 Lb	2.98	Lb	-	Tractor
4	Feb	1.0	List	150 Lister, 7 Bottom	4.00					-	Tractor
5	Feb	1.0	Apply Fert/Ground	100 Fertilizer Spreader, 28'	8.00	00-45-00, Treble	200.00 Lb	317.50	Tn	-	Tractor
6	Feb	1.0	Mulch	100 Rolling Cultivator, 6 Rw	5.60					-	Tractor
7	Feb	3.0	Disk Ends	100 Dbl. Offset Disk, 13'	80.00					-	Tractor
8	Feb	3.0	Make Borders	100 Blade Scraper, 10'	40.00					-	Tractor
9	Feb	3.0	Block Borders	100 Blade Scraper, 10'	76.90					-	Tractor
10	Feb	1.0	Preirrigate	•	7.80	Water, District	7.00 A	33.50	ΑF	I	rrigators
			_			46-00-00, Urea 46	100.00 Lb	257.00	Tn		-
11	Feb	3.0	Knock Borders	80 Border Disk, 6' Disk	40.00					-	Tractor
12	Feb	1.0	Plant	100 Planter, Drill Type, 6 Row	5.00	Field Corn Sd	28.00 Th	0.94	Th	-	Tractor
13	Mar	1.0	Remove Cap	80 Section Harrow, 4 Section	11.00					-	Tractor
14	Mar	1.0	Cultivate	100 Rolling Cultivator, 6 Rw	4.50					-	Tractor
15	Mar	9.0	Irrigate/Run Fertilizer	•	5.00	Water, District	4.00 A	33.50	AF	I	rrigators
			-			82-00-00, Anhyd.	40.00 Lb	317.00	Tn		•
16	Apr	1.0	Cultivate	100 Rolling Cultivator, 6 Rw	5.60					-	Tractor
17	Apr	1.0	Hand Weeding		1.50					ŀ	Hand
18	May	1.0	Apply Insecticide/Air	CST Air Spray, 3 Gal Mix		Permethrin	8.00 Oz	177.72	Ga	4.23 Ac	
19	May	2.0	Apply Insecticide/Air	CST Air Spray, 3 Gal Mix		Permethrin	4.00 Oz	177.72	Ga	4.23 Ac	
						Methomyl	2.50 Pt	49.05	Ga		
20	Jul	2.0	Prepare Ends	125 Offset Disk, 13.5'	80.00					I	rrigators
21	Jul	1.0	Combine Harvest	CST Combine Corn	2.00					37.50 Ac	
22	Jul	1.0	Haul	CST Haul Grain						0.25 C	
23	Aug	1.0	Cut Stalks	125 Flail Stalk Cutter, 4 Row	3.80					-	Tractor
	J		Pickup use 30 Mi/Ac	Pickup Truck, 1/2 Ton	1.00						

<sup>\*</sup>NOTES: Machine times, labor times, and material rates are for one time over the designated acreage.

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