COUNTY: Pinal CROP: Barley AREA: Maricopa	ACRES:	1.0 1.0 ,100.0 Lb/Acre		WATER SOURCE: IRRIGATION SYSTEM: PREVIOUS CROP:	CAID Flood Furrow Cotton, Upland	SOIL:	Conventional Sandy-Loam 10/08/96
Item		Unit	Quantity	y Price /Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Grain		Pound	5,100.00	\$0.0567	\$289.17	\$289.17	
CASH LAND PREPARATION AND G	ROWING EXPENSE	S (including sal	les tax)				
Paid Labor (including b	enefits)					27.30	
Tractor/Self Pro	pelled				9.43		
Irrigation					17.87		
Chemicals & Custom Appl	ications					69.77	
Fertilizers					69.77		
Farm Machinery and Vehi	cles					10.12	
Diesel Fuel					4.29		
Repairs & Maint.					5.83		
Irrigation Water (exclu	ding labor)					101.33	
Water Assessment (See N	ote Below) **					**	
Other Purchased Inputs	& Services					25.20	
Seed/Transplants					25.20		
TO	TAL CASH LAND	PREPARATION AND	GROWING EX	XPENSES .		233.72	
CASH HARVEST AND POST HARVE	ST EXPENSES						
Paid Labor (including b	enefits)					0.21	
Tractor/Self Pro	pelled				0.21		
Farm Machinery and Vehi	cles					0.25	
Diesel Fuel					0.10		
Repairs & Maint.					0.14		
Custom Harvest/Post Har	vest					48.10	
TO	TAL HARVEST AN	D POST HARVEST E	EXPENSE			48.56	
OPERATING OVERHEAD->PICKUP	USE					7.69	
OPERATING INTEREST AT 8.0	000					5.11	
TO	TAL CASH OPERA	TING EXPENSES			===	====== \$295.08	========
:	RETURNS OVER C	ASH OPERATING EX	KPENSES		(\$5.91)	

Notes: The above figures do not include ownership costs, see Table 9B on Next Page for detailed cost allocation.

^{**} A water assessment charge of \$18.75/Acre is included in the ownership costs of Table 9B.

COUNTY: Pinal FARM: Pinal County Farm WATER SOURCE: CAID TILLAGE: Conventional CROP: Barley ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam

AREA: Maricopa YIELD: 5,100.0 Lb/Acre PREVIOUS CROP: Cotton, Upland DATE: 10/08/96

AREA: Maricopa 11ELD: 5,100.0 LD/AC1	re PREVIOUS	CROP: Cotton,	Opiand DATE:	10/08/96
Item	- CASH COST BASIS		- TOTAL COST BASI	
			,	
TOTAL INCOME at \$ 0.0567/Lb	\$289.17		\$289.17	
TOTAL OPERATING EXPENSES	295.07		295.07	
RETURN OVER CASH OPERATING EXPENSES	(\$5.90)		(\$5.90)
CASH OVERHEAD EXPENSES			! 	
Taxes, Housing & Insur., Farm Machinery	1.22		i 1.22	
Gen. & Off. Overhead (5% of Tot. Oper. Exp.)	14.75		I 14.75	
General Farm Maint. (3% of Tot. Oper. Exp.)	8.85		8.85	
Total Cash Overhead Expenses	24.82			
Total Cash Oper. & Over. Cost	319.90		 319.90	
RETURNS OVER CASH OPER. & OVER. EXPENSES.	(30.73)		(30.73)
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery & Vehicles			I 6.92	
Interest on Equity, Machinery & Vehicles			6.92 3.68	
interest on Equity, Machinery a venicies			I 3.00	
Total Capital Allocations			10.60	
RETURNS TO LAND, CAPITAL, MANAGEMENT & RISK	>(30.73)	İ	
RETURNS TO LAND, MANAGEMENT & RISK		·	·	(41.33)
LAND COSTS / OWNERSHIP (100% Equity)	_		¦ ¦	
Property Taxes (\$372 X 16% X .16455)	9.79		i 9.79	
Opport. Inter. on Land (100% X 6.0% X \$372)			22.32	
Water Assessment **	18.75		18.75	
			i —	
Total Land Costs	28.54		I 50.86	
RETURNS TO MANAGEMENT, CAPITAL & RISK -		59.27)	İ	
RETURNS TO MANAGEMENT & RISK	·	,	·	(92.19)
Management Services (8% of Tot. Oper. Exp.)			l 1 23.60	
Management Services (0% of 10t. Oper. Exp.,			İ	
TOTAL OWNERSHIP COST	53.36		109.89	
TOTAL COST	\$348 44			
RETURN TO MANAGEMENT, CAPITAL & RISK —	·>(\$59.27)	i	
RETURN TO RISK (PROFITS) —	·	· · · · · · · · · · · · · · · · · · ·	·	(\$115.80)
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		\$0.0578		\$0.0578
BREAK-EVEN PRICE TO COVER OFFRATING COST (FER ED)		\$0.0378	 	\$0.0376
BREAK-EVEN PRICE TO COVER TOTAL COST		\$0.0104	i	\$0.0213
		70.000		

Table 9C. Variable Operating Costs; Barley, 1996

COUNTY:	Pinal	FARM: Pi	inal County Farm	WATER SOURCE:	CAID	TILLAGE:	Conventional
CROP:	Barley	ACRES:	1.0	IRRIGATION SYSTEM:	Flood Furrow	SOIL:	Sandy-Loam
AREA:	Maricopa	YIELD:	5,100.0 Lb/Acre	PREVIOUS CROP:	Cotton, Upland	DATE:	10/08/96

	First — Hours *					Tot. Cash						
No.	Month	Operation	Machine	Labor	Fuel/Rps	. Labor	Cust/Ser.	Materials	Total	Times	Expense	Class
1	Nov	Apply Fert/Ground	0.075	0.083	0.46	0.70		33.55	34.71	1.0	34.71	G
2	Nov	Disk	0.225	0.250	2.54	2.10			4.64	1.0	4.64	L
3	Nov	List	0.237	0.263	2.31	2.21			4.52	1.0	4.52	L
4	Dec	Plant	0.225	0.250	2.15	2.10		25.20	29.45	1.0	29.45	L
5	Dec	Buck Rows	0.022	0.025	0.13	0.21			0.34	1.0	0.34	G
6	Dec	Irrigate		0.750		5.26		25.33	30.59	1.0	30.59	G
7	Feb	Irrigate/Run Fertilizer		0.450		3.15		37.11	40.26	2.0	80.52	G
8	Mar	Irrigate		0.450		3.15		19.00	22.15	2.0	44.30	G
9	May	Prepare Ends	0.022	0.025	0.25	0.21			0.46	1.0	0.46	н
10	May	Combine Harvest		i			35.35		35.35	1.0	35.35	н
11	May	Haul, Custom 51.0 CW		i			12.75		12.75	1.0	12.75	Н
12	Jun	Disk Residue	0.225	0.250	2.54	2.10			4.64	1.0	4.64	L
		Pickup Use 30 Mi/Ac	1.000		7.68						7.68	0
		Operating Interest at 8.00	8				5.10				5.10	0
		TOTAL CASH OPERATING EXPENS	ES:		\$18.06	\$27.49	\$53.20	\$196.30			\$295.05	T

^{*} 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 \$18.75/Acre included as ownership cost in Table 9B.

OPERATING COST SUMMARY BY	CLASS	1		S	ENSIT	IVITY OF NE	T REVENUES	OVER TOTAL	L CASH EXE	ENSES (\$/Ad	cre)
Land Preparation (L)	\$43.25	-	Prices ->	•	- 1	-25%	-10%	Budgeted	+10%	+25%	
Growing (G)	190.45	-									
Harvest (H)	48.55	-	Yields		- 1	\$0.04	\$0.05	\$0.05	\$0.06	\$0.07	Break-even
Post Harvest (P)	0.00	-			1.						
Marketing (M)	0.00	-	-25%	3,825.	0	-120.25	-87.72	-66.03	-44.34	-11.81	0.07
Operating Overhead (O)	12.78	1	-10%	4,590.	0	-95.00	-55.96	-29.94	-3.91	35.12	0.06
		-	Budgeted	5,100.	0	-78.17	-34.79	-5.88	23.03	66.41	0.05
Total (T)	\$295.05	-	+10%	5,610.	0	-61.34	-13.62	18.18	49.98	97.70	0.05
		1	+25%	6,375.	0	-36.09	18.12	54.27	90.41	144.63	0.04
		1	Break-eve	n Yield	l j	7,468.59	5,938.30	5,224.63	4,664.10	4,017.55	

COUNTY: CROP: AREA:	Pinal Barley Maricopa	ı	FARM: Pina ACRES: YIELD: 5		ounty Farm 1.0 0.0 Lb/Acre	I	ATER SO RRIGATIOUS	ON S	SYSTE		ood Fu	rrow Upland	TILLAGE: SOIL: DATE:	San	ventional dy-Loam 08/96
		Water		1				Oper	ratino	a Cos	t (\$/A	cre) —			
Month '	Number Irrig.	Applied	Total Labor (Hrs)	į	Purchased Water	Fuel, Oil & Repairs		bor		hemic		Other Purchases	Servi	ces	Total
NOV P			0.29	1		2.65	2	. 51		16.7	7				21.93
DEC P	0.4	3.2	0.72	i	10.13	3.73	5	. 66		16.7	7	12.60			48.89
JAN C	0.6	4.8	0.58	i	15.20	1.14	4	. 31				12.60			33.25
FEB C	1.0	6.0	0.45	i	19.00			.15		18.1	1				40.26
MAR C	1.5	9.0	0.67	i	28.50		_	. 73		18.1					51.34
APR C	1.5	9.0	0.67	i	28.50		_	.73			_				33.23
MAY C	2.0	3.0	0.02	i	20.00	0.25		.21					5	00	5.46
JUN C			0.25	i i		2.54		.10					25.		29.89
DEC C			0.01	-		0.06		.11					25.	23	0.17
	Use 30 M	ii /7.a	0.01	1		7.68	U								7.68
		st at 8.0%				7.00							5	10	5.10
	Assessment				**								٥.	10	3.10
Total %	5.0	32.0	3.69		101.33 36.55	18.06 6.51		. 51 . 92		69.7 25.1		25.20 9.09	35. 12.		277.21 100.00
			(/2)												
		REQUIREMENTS	(/Acre)	T	OTAL ENERGY RI	EQUIREMENTS	• • •	_							
Total		183.8 lbs			Diesel Fuel		4.6		Gal						
Total		95.4 lbs			Regular Gas		0.0		Gal						
Total		0.0 lbs			NonLead Gas		3.0	G	Gal						
	L Labor	3.6 Hrs													
Total	L Water	32.0 AI			All Direct E	nergy	1.0	N	4 BTU						
EQUIPME	ENT REQUIR	EMENTS (/Acre)												
Tract	tor, 70 P	TO HP, MFWD	0.32 H	Irs	Fertilizer B	roadcaster,	Towed	(0.08	Hrs '	Tracto	r, 100 PTO	HP, MFWD		0.71 Hrs
Offse	et Disk, 1	3.5'	0.47 H	Irs	Lister, 5 Bot	ttom			0.24		Grain	Drill, 16'			0.23 Hrs
Rowbu	ick, 10'		0.02 H	Irs	Pickup Truck	, 1/2 Ton		1	L.00 1	Hrs					
MATERIA	ALS REQUIR	EMENTS (/Acre)												
	3-00, Dry	•••	, 180.00 I	ďb	Barley Sd, Co	ert		100	0.00	Lb i	Water.	District			32.00 AI
		d. Ammmonia	200.00 I	-						-					- · · · ·
LABOR I	REQUIREMEN	TS (/Acre)													
Tract	-	•	1.15 H	Irs	Irrigators			2	2.55 1	Hrs					

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

^{**} A water assessment charge of \$18.75/Acre included as ownership cost in Table 9B.

COU CRO ARE	P:	Pinal Barley Maricopa	FARM: ACRES: YIELD:		WATER SOURCE: IRRIGATION SYST PREVIOUS CROP:	CAID TEM: Flood Furro Cotton, Up		SOIL:	Conventional Sandy-Loam 10/08/96
No.	Firs	t :h Times Operation	E HP	quipment/Custom Oper. Self-Prop./Implem.	Job Rate — Ma	terial Use & Co			st Labor Type
NO.	MOIIC	in Times Operation	nr	Sell-Flop./Implem.	ACTES/HI Name	Appi. Race	\$/ UIII C	. 5/01110	Type
1	Nov	1.0 Apply Fert/Ground	i 70	Fertilizer Broadcaster,	12.00 11-53-00, Dry	180.00 Lb	355.00	Tn	Tractor
2	Nov	1.0 Disk		Offset Disk, 13.5'	4.00				Tractor
3	Nov	1.0 List	100	Lister, 5 Bottom	3.80				Tractor
4	Dec	1.0 Plant	70	Grain Drill, 16'	4.00 Barley Sd, Cer	t 100.00 Lb	24.00	CW	Tractor
5	Dec	1.0 Buck Rows	70	Rowbuck, 10'	40.00				Tractor
6	Dec	1.0 Irrigate			1.33 Water, Distric	t 8.00 AI	38.00	AF	Irrigator
7	Feb	2.0 Irrigate/Run Fer	tiliz		2.22 Water, Distric	t 6.00 AI	38.00	AF	Irrigator
					82-00-00, Anhy	d. A 100.00 Lb	345.00	Tn	
8	Mar	2.0 Irrigate			2.22 Water, Distric	t 6.00 AI	38.00	AF	Irrigator
9	May	1.0 Prepare Ends	100	Offset Disk, 13.5'	40.00				Tractor
10	May	1.0 Combine Harvest		CST Combine Barley				17.50 A	3
11	May	1.0 Haul, Custom		CST Haul Grain				0.25 CV	v .
12	Jun	1.0 Disk Residue	100	Offset Disk, 13.5'	4.00				Tractor

1.00

Pickup Truck, 1/2 Ton

Pickup Use 30 Mi/Ac

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

^{**} A water assessment charge of \$18.75/Acre included as ownership cost in Table 9B.