COUNTY: Pinal FARM: Pinal County 98 WATER SOURCE: Central Arizona TILLAGE: Conventional Sandy-Loam 2/18/99 CROP: Barley ACRES: IRRIGATION SYSTEM: Flood Furrow SOIL: 1.0 YIELD: AREA: Maricopa 4,900.0 Lb / Acre PREVIOUS CROP: Cotton, Upland DATE:

ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME Grain	Pound	4,900.00	\$0.06	\$308.70	\$308.70	
CASH LAND PREPARATION AN Paid Labor (including benefits Tractor/Self Propelled Irrigation		cluding sales tax)		9.18 17.40	26.58	
Chemicals and Custom Applic Fertilizer	cations			67.47	67.47	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				4.80 8.90	13.71	
Irrigation Water (excluding lab Water Assessment (See Note					96.00	
Other Purchased Inputs & Seed/Transplants				34.34	34.34	
	TOTAL CASH LAND PRE	PARATION AND GROW	ING EXPENSES		238.10	
CASH HARVEST AND POST HA	RVEST EXPENSES					
Paid Labor (including benefits) Tractor/Self Propelled)			0.20	0.20	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				0.14 0.25	0.39	
Custom Harvest/Post Harvest					68.10	
	TOTAL HARVEST AND P	OST HARVEST EXPEN	SE		68.70	
OPERATING OVERHEAD PIC	CKUP USE				7.71	
OPERATING INTEREST AT 10.0	0%				9.76	
	TOTAL CASH OPERATIN				\$324.26	
	RETURNS OVER CASH	I OPERATING EXPENS	ES		(\$15.56)	

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

^{**} A water assessment charge of \$19.80 per Acre is included as an ownership cost in Table B.

COUNTY:Pinal FARM: Pinal County 98 WATER SOURCE: Central Arizona TILLAGE: Conventional CROP: Barley ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Maricopa YIELD: 4,900.0 Lb / Acre PREVIOUS CROP: Cotton, Upland DATE: 2/18/99

ltem	CASH COST BASI	S (\$/ACRE) Net Returns	TOTAL COST BASIS (\$/ACRE) Income and Costs Net Returns
TOTAL INCOME at \$0.06 / Lb TOTAL OPERATING EXPENSES	\$308.70 \$324.26		\$308.70 \$324.26
RETURN OVER CASH OPERATING EXPENSES		(\$15.56)	(\$15.56)
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.)	1.53 16.21 9.73		1.53 16.21 9.73
Total Cash Overhead Expenses	27.47		27.47
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES	351.73	(\$43.03)	351.73 (\$43.03)
CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles			8.78 4.58
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK - RETURNS TO LAND, MANAGEMENT AND RISK	>	(\$43.03)	13.36 > (\$56.39)
Land Cost / Ownership (100% Equity) Property Taxes (\$447.00 X 16.0% X 0.169) Opportunity Interest on Land (100% X 6.0 X \$447.00) Water Assessment	12.15 19.80		12.15 26.82 19.80
Total Land Costs RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK	31.95 >	(\$74.98)	 58.77 > (\$115.16)
Management Services (8% of Total Operation Expenses)			25.94
TOTAL OWNERSHIP COST	59.42		125.54
TOTAL COST RETURNS TO CAPITAL, MANAGEMENT AND RISK	\$383.68 >	(\$74.98)	\$449.80
RETURNS TO RISK (PROFITS)			(\$141.10)
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$0.07 \$0.01	\$0.07 \$0.03
BREAK-EVEN PRICE TO COVER TOTAL COST		\$0.08	\$0.09

COUNTY:Pinal FARM: Pinal County 98 WATER SOURCE: Central Arizona TILLAGE: Conventional ACRES: Sandy-Loam CROP: Barley IRRIGATION SYSTEM: Flood Furrow SOIL: YIELD: 4,900.0 Lb / Acre PREVIOUS CROP: 2/18/99 AREA: Maricopa Cotton, Upland DATE:

	First		Hour	s *	Operating Costs (\$/ACRE *) Per Operation					Tot. Cash		
No.	Month	Operation	Machine	Labor	Fuel/Rps.	Labor Cu	ıst/Serv. N	laterials	Total	Times	Expenses	Class
1	Nov	Apply Fert/Ground	0.075	0.083	0.42	0.68		33.87	34.97	1.0	34.97	G
2	Nov	Disk	0.225	0.250	3.92	2.05			5.97	1.0	5.97	L
3	Nov	List	0.237	0.263	3.10	2.15			5.26	1.0	5.26	L
4	Dec	Plant	0.225	0.250	2.22	2.05		34.34	38.61	1.0	38.61	L
5	Dec	Buck Rows	0.022	0.025	0.12	0.20			0.32	1.0	0.32	G
6	Dec	Irrigate		0.750		5.12		24.00	29.12	1.0	29.12	G
7	Feb	Irrigate/Run Fertilizer		0.450		3.07		34.80	37.87	2.0	75.74	G
8	Mar	Irrigate		0.450		3.07		18.00	21.07	2.0	42.14	G
9	May	Prepare Ends	0.023	0.025	0.39	0.20			0.60	1.0	0.60	Н
10	May	Combine Harvest					55.35		55.35	1.0	55.35	Н
11	May	Haul, Custom 51 CW					12.75		12.75	1.0	12.75	Н
12	Jun	Disk Residue 51 CW	0.225	0.250	3.92	2.05			5.97	1.0	5.97	L
		Pickup Use30 Mi/Acre	1.000		7.71						7.71	
		Operating Interest at 10.0					9.76				9.76	
				ТОТ	AL CASH OPE	RATING EX	KPENSES ((includes a	I times ove	er):	324.26	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 \$19.80 per Acre is included as an ownership cost in Table B.

OPERATING COST SUM	SENSITIVIT	SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE)								
Land Preparation (L)	55.81	Prices		- 25%	- 10%	Budgeted	+ 10%	+ 25%		
Growing (G) Harvest (H)	182.29 68.70	Yields		\$0.05	\$0.06	\$0.06	\$0.07	\$0.08	Break-even Price	
Post Harvest (P)	0.00	- 25%	3,675.0	-134.45	-99.73	-76.57	-53.42	-18.69	0.08	
Marketing (M)	0.00	- 10%	4,410.0	-110.03	-68.36	-40.57	-12.79	28.88	0.07	
Operating Overhead	(O) 17.47	Budgeted	4,900.0	-93.75	-47.44	-16.57	14.30	60.60	0.07	
		+ 10%	5,390.0	-77.47	-26.53	7.43	41.38	92.32	0.06	
Total (T)	\$324.26	+ 25%	6,125.0	-53.04	4.84	43.43	82.02	139.90	0.06	
		Break-even	Yield	7,721.17	6,011.59	5,238.36	4,641.37	3,963.77		

COUNTY:Pinal FARM: Pinal County 98 WATER SOURCE: Central Arizona TILLAGE: Conventional CROP: Barley ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Maricopa YIELD: 4,900.0 Lb / Acre PREVIOUS CROP: Cotton, Upland DATE: 2/18/99

Water				Operating Costs (\$/ACRE *)							
Month *	Number Irrigations	Applied (inches)	Total Labor (Hrs)	Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total	
WOITH	irrigations	(inches)	Labor (HIS)	vvaler	and Repairs	Labor	Chemicais	Purchases	Services	1 Otal	
NOV P			0.30		3.72	2.44	16.93			23.10	
DEC P	0.4	3.2	0.72	9.60	4.83	5.51	16.93	17.17		54.05	
JAN C	0.6	4.8	0.59	14.40	1.17	4.20		17.17		36.94	
FEB C	1.0	6.0	0.45	18.00		3.07	16.80			37.87	
MAR C	1.5	9.0	0.67	27.00		4.61	16.80			48.41	
APR C	1.5	9.0	0.67	27.00		4.61				31.61	
MAY C			0.03		0.39	0.20			7.80	8.40	
JUN C			0.25		3.92	2.05			60.05	44.97	
DEC C			0.01		0.06	0.10				0.16	
Pickup Use	30 Mi/Acre		0.0.	•	7.71	00				7.71	
	iterest at 10.0)							9.76	9.76	
Water Asses				**							
				1							
Total	5.0	32.0	3.70	96.00	21.81	26.79		34.34	77.85	324.26	
%				29.61	6.73	8.26	20.81	10.59	24.01	100.00	
TOTAL RES Total N Total P Total K Total Labo Total Wate		QUIREMENT 183.8 95.4 0.0 3.7 32.0	S (per Acre)	TOTAL ENE Diesel Fu Unleaded All Direct	d Gas	6.5 Ga 3.0 Ga	al				
FOLIIPMEN	T REQUIREM	MENTS (ner	Acre)								
	Broadcaster,		.08 Hr	Grain Drill, 14'	0	22 Hr	Lister, 5 B	Sottom	0.24 Hr		
Offset Dis			.47 Hr	Pickup Truck, 1/2		.00 Hr	Rowbuck,		0.02 Hr		
	70 PTO HP,		.32 Hr	Tractor, 125 PTO I		24 Hr		50 PTO HP	0.47 Hr		
MATERIAI S	S REQUIREM	ENT (per A	cre)								
11-53-00			.00 Lb	82-00-00, Anhyd.	200.	00 Lb	Barley Sd	, Cert	135.00 Lb		
Water, Di			.00 AI	, , , , , , , , , , , , , , , , , , ,				•			
LABOR REG	QUIREMENT		.55 Hr	Tractor	1.	.15 Hr					

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

^{**} A water assessment charge of \$19.80 per Acre is included as an ownership cost in Table B.

COUNTY:Pinal FARM: Pinal County 98 WATER SOURCE: Central Arizona TILLAGE: Conventional CROP: Barley ACRES: IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam 2/18/99 YIELD: AREA: Maricopa 4,900.0 Lb / Acre PREVIOUS CROP: Cotton, Upland DATE:

No	First o.MonthTi	imes Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acres/Hr		al Use and Cost Appl. Rate \$ / Unit	Service Cost Labor \$ / Unit Type
1	Nov	1.0 Apply Fert/Ground	70 Fertilizer Broadcaster,	12.00	11-53-00, Dry	180.00 Lb 355.00 T	n Tractor
2	Nov	1.0 Disk	150 Offset Disk, 16.5'	4.00			Tractor
3	Nov	1.0 List	125 Lister, 5 Bottom	3.80			Tractor
4	Dec	1.0 Plant	70 Grain Drill, 14'	4.00	Barley Sd, Cert	135.00 Lb 24.00 CV	V Tractor
5	Dec	1.0 Buck Rows	70 Rowbuck, 10'	40.00			Tractor
6	Dec	1.0 Irrigate		1.33	Water, District	8.00 AI 36.00 A	F Irrigators
7	Feb	2.0 Irrigate/Run Fertilizer		2.22	Water, District 82-00-00, Anhyd.	6.00 AI 36.00 A 100.00 Lb 317.00 T	
8	Mar	2.0 Irrigate		2.22	Water, District	6.00 Al 36.00 A	• •
9	May	1.0 Prepare Ends	150 Offset Disk, 16.5'	40.00	•		Tractor
10	May	1.0 Combine Harvest	CST Combine Barley				37.50 Ac
11	May	1.0 Haul, Custom	CST Haul Grain				0.25 C
12	Jun	1.0 Disk Residue	150 Offset Disk, 16.5'	4.00			Tractor
		Pickup use 30 Mi/Ac	Pickup Truck, 1/2 Ton	1.00			

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