COUNTY: Maricopa FARM: Maricopa County 98 WATER SOURCE: Salt River Project TILLAGE: Conventional CROP: Barley ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt Řiver Project YIELD: 4,600.0 Lb / Acre PREVIOUS CROP: Cotton, Upland DATE: 2/2/99

Item	Unit	Quantity	Price/	Budgeted	Total	Your Farm
			Unit	/Acre	/Acre	Budget
INCOME Grain	Pound	4,600.00	\$0.06	\$289.80	\$289.80	
CASH LAND PREPARATION AND (Paid Labor (including benefits) Tractor/Self Propelled Irrigation Other/ Contract	GROWING EXPENSES (in	cluding sales tax)		10.94 15.60 0.24	26.78	
Chemicals and Custom Application Fertilizer Herbicide	ons			68.23 18.43	86.67	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				4.46 5.97	10.43	
Irrigation Water (excluding labor) Water Assessment (See Note Be					6.67	
Other Purchased Inputs & Seed/Transplants				22.84	22.84	
	TOTAL CASH LAND PRE	PARATION AND GROW	/ING EXPENSES		153.38	
CASH HARVEST AND POST HARV	EST EXPENSES					
Paid Labor (including benefits) Tractor/Self Propelled				0.49	0.49	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				0.18 0.29	0.47	
Custom Harvest/Post Harvest					66.90	
	TOTAL HARVEST AND F	POST HARVEST EXPEN	SE		67.86	
OPERATING OVERHEAD PICKL	JP USE				7.64	
OPERATING INTEREST AT 10.0%					6.02	
	TOTAL CASH OPERATIN				\$234.91	
	RETURNS OVER CAS	H OPERATING EXPENS	ES		\$54.89	

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

^{**} A water assessment charge of \$20.00 per Acre is included as an ownership cost in Table B.

COUNTY:Maricopa FARM: Maricopa County 98 WATER SOURCE: Salt River Project TILLAGE: Conventional CROP: Barley ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project YIELD: 4,600.0 Lb / Acre PREVIOUS CROP: Cotton, Upland DATE: 2/2/99

OAGU COOT DAGIO (\$\frac{1}{2} \text{ODE}\) TOTAL COOT DAGIO (\$\frac{1}{2} \text{ODE}\)									
ltem	CASH COST BASIS Income and Costs	S (\$/ACRE) Net Returns	TOTAL COST BASIS (\$/ACRE) Income and Costs Net Returns						
TOTAL INCOME at \$0.06 / Lb	\$289.80		\$289.80						
TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$234.91	\$54.89	\$234.91 \$54.89						
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.)	1.29 11.75 7.05		1.29 11.75 7.05						
Total Cash Overhead Expenses	20.09		20.09						
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES	255.00	\$34.80	255.00 \$34.80						
CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles			7.03 3.88						
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK	>	\$34.80	10.91 \$23.89						
Land Cost / Ownership (100% Equity) Property Taxes (\$619.00 X 16.0% X 0.141) Opportunity Interest on Land (100% X 6.0 X \$619.00) Water Assessment	13.98 20.00		13.98 37.14 20.00						
Total Land Costs RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK	33.98	\$0.82	71.12 (\$47.23)						
Management Services (8% of Total Operation Expenses)			18.79						
TOTAL OWNERSHIP COST	54.07		120.91						
TOTAL COST RETURNS TO CAPITAL, MANAGEMENT AND RISK	\$288.98 >	\$0.82	\$355.82						
RETURNS TO RISK (PROFITS)			(\$66.02)						
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$0.05 \$0.01 \$0.06	\$0.05 \$0.03 \$0.08						

COUNTY: Maricopa FARM: Maricopa County 98 TILLAGE: Conventional WATER SOURCE: Salt River Project CROP: Barley ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project YIELD: 4,600.0 Lb / Acre PREVIOUS CROP: Cotton, Upland 2/2/99 DATE:

	First		Hour	s *	Operati	ng Costs (\$/ACRE *) Per Opera	tion		Tot. Cash	
No.	Month	Operation	Machine	Labor	Fuel/Rps.	Labor Co	ust/Serv.	Materials	Total	Times	Expenses	Class
1	Dec	Apply Fert/Ground	0.180	0.200	1.39	1.95		31.81	35.15	1.0	35.15	G
2	Dec	Disk	0.170	0.189	2.71	1.84			4.55	1.0	4.55	L
3	Dec	Make Borders	0.113	0.125	1.07	1.22			2.29	1.0	2.29	G
4	Dec	Plant	0.225	0.250	2.70	2.44		22.84	27.98	1.0	27.98	L
5	Dec	Buck Rows	0.022	0.050	0.13	0.49			0.62	1.0	0.62	G
6	Dec	Irrigate		0.400		3.90			3.90	1.0	3.90	G
7	Jan	Apply Herbicide/Air					4.75	13.68	18.43	1.0	18.43	G
8	Feb	Irrigate/Run Fertilizer		0.300		2.92		18.21	21.14	2.0	42.27	G
9	Apr	Irrigate		0.300		2.92		3.33	6.26	2.0	12.52	G
10	May	Prepare Ends	0.045	0.050	0.47	0.49			0.96	1.0	0.96	Н
11	May	Combine Harvest					54.65		54.65	1.0	54.65	Н
12	May	Haul, Custom 49 CW					12.25		12.25	1.0	12.25	Н
13	Jun	Disk Residue 49 CW	0.300	0.333	2.42	3.25			5.67	1.0	5.67	L
		Pickup Use30 Mi/Acre	1.000		7.64						7.64	
		Operating Interest at 10.0					6.02				6.02	
	TOTAL CASH OPERATING EXPENSES (includes all times over): 234.91 T											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 \$20.00 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY	BY CLASS	SEN
Land Preparation (L)	38.20	Price
Growing (G)	115.19	Yield
Harvest (H)	67.86	
Post Harvest (P)	0.00	- 25°
Marketing (M)	0.00	- 10°
Operating Overhead (O)	13.66	Budg
Total (T)	\$234.91	+ 10 + 25

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

Prices		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		\$0.05	\$0.06	\$0.06	\$0.07	\$0.08	Break-even Price
- 25%	3,450.0	-54.13	-21.53	0.20	21.94	54.54	0.06
- 10%	4,140.0	-31.71	7.41	33.49	59.58	98.70	0.05
Budgeted	4,600.0	-16.76	26.71	55.69	84.67	128.14	0.05
+ 10%	5,060.0	-1.81	46.00	77.88	109.76	157.58	0.05
+ 25%	5,750.0	20.61	74.95	111.17	147.40	201.74	0.04
Break-even Yield		5,115.77	3,963.28	3,445.77	3,047.80	2,597.75	

COUNTY:Maricopa FARM: Maricopa County 98 WATER SOURCE: Salt River Project TILLAGE: Conventional CROP: Barley ACRES: IRRIGATION SYSTEM: Flood Furrow 1.0 SOIL: Sandy-Loam AREA: Salt River Project YIELD: 4,600.0 Lb / Acre PREVIOUS CROP: Cotton, Upland DATE: 2/2/99

		Water		Operating Costs (\$/ACRE *)							
Month *	Number Irrigations	Applied (inches)	Total Labor (Hrs)	Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total	
DEC P	1.0	8.0	1.21		8.01	11.83	31.81	22.84		74.50	
JAN C	1.0	0.0	1.21		0.01	11.03	13.68	22.04	4.75	18.43	
FEB C	1.0	6.0	0.30			2.92	18.21			21.14	
MAR C	1.0	6.0	0.30			2.92	18.21			21.14	
APR C	2.0	12.0	0.60	6.67		5.85				12.52	
MAY C			0.05		0.47	0.49			7.95	8.91	
JUN C	00 11/4		0.33		2.42	3.25			58.95	64.62	
Pickup Use					7.64				6.02	7.64	
Water Asse	nterest at 10.0			**					6.02	6.02	
Water Asse	SSITIETIL										
Total	5.0	32.0	2.80	6.67	18.55	27.27	81.92	22.84	77.67	234.91	
%				2.84	7.90	11.61	34.87	9.72	33.06	100.00	
TOTAL RES	SOURCE REC	QUIREMENT	S (per Acre)		RGY REQUIREI	MENTS (per	Acre)				
Total N		167.4		Diesel Fu		5.7 Ga					
Total P		50.0		Unleaded		3.0 Ga					
Total K		0.0		All Direct	t Energy	1.2 M	BTU				
Total Lab		2.8 32.0									
Total Wat	ei	32.0									
	T REQUIREM			Cautilinas Duagalaga		40 11-	Onein Duil	. 44!	0.00 11		
Offset Dis	isk, Heavy Du		11 Hr 05 Hr	Fertilizer Broadcas Offset Disk, 18'		.18 Hr .17 Hr	Grain Dril	ı, 14 uck, 1/2 Ton	0.22 Hr 1.00 Hr		
Rotary H		-	30 Hr	Rowbuck, 10'	-	.17 FI .02 Hr		30 PTO HP,	0.02 Hr		
	100 PTO HP,	-	75 Hr	Tractor, 125 PTO I		.11 Hr		50 PTO HP,	0.02 TII 0.17 Hr		
	,	<u> </u>			,		1140101, 1		0.17 111		
MATERIAL	S REQUIREM	ENT (per 1	ore)								
16-20-00			00 Lb	32-00-00, URAN 3	2. Lad 36	.00 Ga	Barley Sd	Cert	90.00 Lb		
Dicamba			00 Pt	Water, District		.00 Al	Daney Ou	, 55.0	00.00 LD		
				•							
LABOR REG	QUIREMENT	(per Acre)									
Irrigators			60 Hr	Other	0	.03 Hr	Tractor		1.17 Hr		

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

^{**} A water assessment charge of \$20.00 per Acre is included as an ownership cost in Table B.

Table 6E. Schedule of Operations; Barley, 1998

COUNTY:Maricopa FARM: Maricopa County 98 WATER SOURCE: Salt River Project TILLAGE: Conventional CROP: Barley ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project YIELD: 4,600.0 Lb / Acre PREVIOUS CROP: Cotton, Upland DATE: 2/2/99

	First Month	Times	Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acres/Hr		Jse and Co Appl. I		 \$/Un		Service Cost \$ / Unit	Labor Type
1 I	Dec	1.0	Apply Fert/Ground	100 Fertilizer Broadcaster,	5.00	16-20-00, Dry	250.00 L	b 2	240.67	Tn		Tractor
2 I	Dec		Disk	150 Offset Disk, 18'	5.30	•						Tractor
3 I	Dec	1.0	Make Borders	125 Border Disk, Heavy Duty	8.00							Tractor
4 I	Dec	1.0	Plant	100 Grain Drill, 14'	4.00	Barley Sd, Cert	90.00 L	_b	24.00	CW		Tractor
5 I	Dec	1.0	Buck Rows	80 Rowbuck, 10'	40.00	•						Tractor
												Other
6 I	Dec	1.0	Irrigate		2.50	Water, District	8.00	ΑI	0.00	ΑF		Irrigators
7,	Jan	1.0	Apply Herbicide/Air	CST Air Spray, 5 Gal Mix		Dicamba	1.00 I	Pt '	103.50	Ga	4.75 Ac	:
8 I	Feb	2.0	Irrigate/Run Fertilizer	, ,	3.33	Water, District	6.00	ΑI	0.00	ΑF		Irrigators
			-			32-00-00, URAN 32,	18.00 G	a ′	173.00	Tn		•
9 /	Apr	2.0	Irrigate		3.33	Water, District	6.00	ΑI	6.67	ΑF		Irrigators
10 I	May	1.0	Prepare Ends	100 Offset Disk, 13.5'	20.00							Tractor
11 I	May	1.0	Combine Harvest	CST Combine Barley							37.50 Ac	
12 I	May	1.0	Haul, Custom	CST Haul Grain							0.25 C	
13 .	Jun	1.0	Disk Residue	100 Rotary Hoe, 4 Rw	3.00							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.