COUNTY: Yuma FARM: Yuma County 98 WATER SOURCE: Yuma County Water TILLAGE: Double Cropped Sandy-Loam 1/25/99 CROP: Barley ACRES: IRRIGATION SYSTEM: Flood Furrow SOIL: 1.0 Yuma Valley North AREA: YIELD: 5,000.0 Lb / Acre PREVIOUS CROP: Cotton, Upland DATE:

ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME Grain	Pound	5,000.00	\$0.06	\$315.00	\$315.00	
CASH LAND PREPARATION AND GRO Paid Labor (including benefits) Tractor/Self Propelled Irrigation	OWING EXPENSES (inc	luding sales tax)		11.37 13.86	25.23	
Chemicals and Custom Applications Fertilizer Herbicide	·			77.06 24.75	101.81	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				4.41 6.69	11.10	
Irrigation Water (excluding labor) Water Assessment (See Note Below	/) **				0.00	
Other Purchased Inputs & Seed/Transplants				25.44	25.44	
TC	OTAL CASH LAND PRE	PARATION AND GROW	/ING EXPENSES		163.58	
CASH HARVEST AND POST HARVES	T EXPENSES					
Custom Harvest/Post Harvest					66.30	
TC	OTAL HARVEST AND PO	OST HARVEST EXPEN	SE		66.30	
OPERATING OVERHEAD PICKUP	USE				7.56	
OPERATING INTEREST AT 10.0%					5.61	
	OTAL CASH OPERATIN				\$243.05	
I	RETURNS OVER CASH	OPERATING EXPENS	ES		\$71.95	

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

^{**} A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

COUNTY:Yuma FARM: Yuma County 98 WATER SOURCE: Yuma County Water TILLAGE: Double Cropped CROP: Barley ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Yuma Valley North YIELD: 5,000.0 Lb / Acre PREVIOUS CROP: Cotton, Upland DATE: 1/25/99

ltem	CASH COST BASI Income and Costs	S (\$/ACRE) Net Returns	TOTAL COST BASIS (\$/ACRE) Income and Costs Net Returns	
TOTAL INCOME at \$0.06 / Lb	\$315.00		\$315.00	
TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$243.05	\$71.95	\$243.05 \$71.95	
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.)	1.36 12.15 7.29		1.36 12.15 7.29	
Total Cash Overhead Expenses	20.81		20.81	
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES	263.86	\$51.14	263.86 \$51.14	
CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles			7.64 4.26	
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK	>	÷ \$51.14	11.90	
Land Cost / Ownership (100% Equity) Property Taxes (\$1,314. X 16.0% X 0.132) Opportunity Interest on Land (100% X 6.0 X \$1,314.) Water Assessment	13.90 31.00		13.90 39.42 31.00	
Total Land Costs RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK	44.90 >	\$6.25	84.32 > (\$45.08)	
Management Services (8% of Total Operation Expenses)			19.44	
TOTAL OWNERSHIP COST	65.70		136.47	
TOTAL COST RETURNS TO CAPITAL, MANAGEMENT AND RISK	\$308.75 ************************************	\$6.25	\$379.52	
RETURNS TO RISK (PROFITS)				
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:Yuma FARM: Yuma County 98 WATER SOURCE: Yuma County Water TILLAGE: Double Cropped ACRES: Sandy-Loam CROP: Barley IRRIGATION SYSTEM: Flood Furrow SOIL: AREA: Yuma Valley North YIELD: 5,000.0 Lb / Acre PREVIOUS CROP: 1/25/99 Cotton, Upland DATE:

	First		Hour	s *	Operati	ng Costs (\$/ACRE *) Per Oper				
No.	Month	Operation	Machine	Labor	Fuel/Rps.	Labor Cu	ıst/Serv. Materials	Total	Times	Expenses	Class
1	Dec	Disk	0.300	0.333	2.95	2.60		5.55	1.0	5.55	L
2	Dec	Apply Fert/Ground	0.180	0.200	1.36	1.56	46.64	49.56	1.0	49.56	G
3	Dec	Plant	0.225	0.250	2.04	1.95	25.44	29.43	1.0	29.43	L
4	Dec	Make Borders	0.113	0.125	0.59	0.97		1.56	1.0	1.56	G
5	Dec	Irrigate		0.267		1.74		1.74	2.0	3.47	G
6	Jan	Apply Herbicide/Ground	0.150	0.167	0.93	1.30	21.59	23.82	1.0	23.82	G
7	Feb	Irrigate/Run Fertilizer		0.267		1.74	30.42	32.16	1.0	32.16	G
8	Feb	Apply Herbicide/Ground	0.150	0.167	0.93	1.30	10.52	12.75	0.3	3.83	G
9	Mar	Irrigate		0.333		2.16		2.16	4.0	8.66	G
10	Jun	Combine Harvest					54.30	54.30	1.0	54.30	Н
11	Jun	Haul, Custom 48 CW					12.00	12.00	1.0	12.00	Н
12	Jun	Disk Residue 48 CW	0.300	0.333	2.95	2.60		5.55	1.0	5.55	L
		Pickup Use30 Mi/Acre	1.000		7.56					7.56	
		Operating Interest at 10.0					5.61			5.61	
	TOTAL CASH OPERATING EXPENSES (includes all times over):										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 \$31.00 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS		SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE)								
Land Preparation (L)	40.53	Prices		- 25%	- 10%	Budgeted	+ 10%	+ 25%		
Growing (G) Harvest (H)	123.06 66.30	Yields		\$0.05	\$0.06	\$0.06	\$0.07	\$0.08	Break-even Price	
Post Harvest (P)	0.00	- 25%	3,750.0	-49.35	-13.91	9.71	33.34	68.77	0.06	
Marketing (M)	0.00	- 10%	4,500.0	-23.86	18.67	47.02	75.37	117.89	0.05	
Operating Overhead (C) 13.20	Budgeted	5,000.0	-6.86	40.39	71.89	103.39	150.64	0.05	
		+ 10%	5,500.0	10.13	62.11	96.76	131.41	183.38	0.05	
Total (T)	\$243.05	+ 25%	6,250.0	35.62	94.69	134.06	173.44	232.50	0.04	
		Break-even	Yield	5,201.93	4,070.29	3,554.76	3,155.13	2,699.86		

COUNTY:Yuma FARM: Yuma County 98 WATER SOURCE: Yuma County Water TILLAGE: Double Cropped CROP: Barley ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Yuma Valley North YIELD: 5,000.0 Lb / Acre PREVIOUS CROP: Cotton, Upland DATE: 1/25/99

Number Irrigations Irrig	Water			Operating Costs (\$/ACRE *)									
DEC P 1.0 5.0 0.55	Month *						Labor	Chemicals		Services	Total		
JAN C 1.0 5.0 0.72	Month	irrigutions	(mones)	Edbor (1113)	Water	una repairs	Luboi	Onemidais	1 di onascs	CCIVICCS	Total		
FEB C	DEC P	1.0	5.0	0.55		2.00	3.98	23.32	12.72		42.01		
MAR C 2.0 10.0 0.67		1.0	5.0	0.72		2.93	5.28	44.91	12.72		65.84		
APR C 2.0 10.0 0.67	FEB C	1.0	5.0	0.32		0.28	2.13	33.58			35.98		
JUN C 0.33 2.95 2.60 66.30 71.85 DEC C 0.33 2.95 2.60 55.5 Pickup Use30 Mi/Acre													
DEC C		2.0	10.0										
Pickup Use30 Mi/Acre										66.30			
Total 7.0 35.0 3.59 18.66 25.23 101.81 25.44 71.91 243.05 7.68 10.38 41.89 10.47 29.59 100.00				0.33			2.60						
Total 7.0 35.0 3.59 18.66 25.23 101.81 25.44 71.91 243.05 7.68 10.38 41.89 10.47 29.59 100.00					'	7.56							
Total 7.0 35.0 3.59 18.66 25.23 101.81 25.44 71.91 243.05 7.68 10.38 41.89 10.47 29.59 100.00			1							5.61	5.61		
7.68 10.38 41.89 10.47 29.59 100.00	Water Asses	ssment			**								
7.68 10.38 41.89 10.47 29.59 100.00	Total	7.0	35.0	3.59	I	18.66	25.23	101.81	25.44	71.91	243.05		
Total N 196.9 Diesel Fuel 5.7 Gal Total P 0.0 Unleaded Gas 3.0 Gal Total K 0.0 All Direct Energy 1.2 M BTU EQUIPMENT REQUIREMENTS (per Acre) Border Disk, 6' Disk 0.11 Hr Offset Disk, 12' 0.60 Hr Fickup Truck, 1/2 Ton 1.00 Hr Tractor, 70 PTO HP, 0.53 Hr Tractor, 100 PTO HP, 0.78 Hr MATERIALS REQUIREMENT (per Acre) 32-00-00, URAN 32, Lqd 30.00 Ga 33-00-00, Amm. Nitrate, 275.00 Lb Barley Sd, Cert 100.00 Lb Bromoxynil 0.45 Pt Diclofop Methyl 2.67 Pt Water, District 35.00 Al													
Border Disk, 6' Disk 0.11 Hr Directed Spray Rig, 8 0.20 Hr Fertilizer Broadcaster, 0.18 Hr Grain Drill, 12' 0.22 Hr Offset Disk, 12' 0.60 Hr Tractor, 70 PTO HP, 0.53 Hr Tractor, 100 PTO HP, 0.78 Hr MATERIALS REQUIREMENT (per Acre) 32-00-00, URAN 32, Lqd 30.00 Ga 33-00-00, Amm. Nitrate, 275.00 Lb Bromoxynil 0.45 Pt Diclofop Methyl 2.67 Pt Water, District 35.00 Al	Total K Total Labo		0.0 3.6										
Grain Drill, 12' 0.22 Hr Offset Disk, 12' 0.60 Hr Pickup Truck, 1/2 Ton 1.00 Hr MATERIALS REQUIREMENT (per Acre) 32-00-00, URAN 32, Lqd 30.00 Ga 33-00-00, Amm. Nitrate, Diclofop Methyl 275.00 Lb Barley Sd, Cert 100.00 Lb Bromoxynil 0.45 Pt Diclofop Methyl 2.67 Pt Water, District 35.00 Al													
MATERIALS REQUIREMENT (per Acre) 32-00-00, URAN 32, Lqd 30.00 Ga 33-00-00, Amm. Nitrate, Diclofop Methyl 275.00 Lb Barley Sd, Cert 100.00 Lb Bromoxynil 0.45 Pt Diclofop Methyl 2.67 Pt Water, District 35.00 Al													
MATERIALS REQUIREMENT (per Acre) 32-00-00, URAN 32, Lqd 30.00 Ga 33-00-00, Amm. Nitrate, 275.00 Lb Barley Sd, Cert 100.00 Lb Bromoxynil 0.45 Pt Diclofop Methyl 2.67 Pt Water, District 35.00 Al LABOR REQUIREMENT (per Acre)								Pickup Tru	uck, 1/2 Ton	1.00 Hr			
32-00-00, URAN 32, Lqd 30.00 Ga 33-00-00, Amm. Nitrate, 275.00 Lb Barley Sd, Cert 100.00 Lb Bromoxynil 0.45 Pt Diclofop Methyl 2.67 Pt Water, District 35.00 Al LABOR REQUIREMENT (per Acre)	Tractor, 7	70 PTO HP,	0.	53 Hr	Tractor, 100 PTO	HP, 0	.78 Hr						
Bromoxynil 0.45 Pt Diclofop Methyl 2.67 Pt Water, District 35.00 Al LABOR REQUIREMENT (per Acre)													
LABOR REQUIREMENT (per Acre)													
	Bromoxyr	nil	0.	45 Pt	Diclofop Methyl	2	.67 Pt	Water, Dis	strict	35.00 AI			
Irrigators 2.13 Hr Tractor 1.46 Hr	LABOR REC	QUIREMENT	(per Acre)										
	Irrigators		2.	13 Hr	Tractor	1	.46 Hr						

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

^{**} A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

COUNTY:Yuma FARM: Yuma County 98 WATER SOURCE: Yuma County Water TILLAGE: Double Cropped CROP: Barley ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Yuma Valley North YIELD: 5,000.0 Lb / Acre PREVIOUS CROP: Cotton, Upland DATE: 1/25/99

No	First MonthTi	mes Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acres/Hr				 e \$ / Unit	Service Cost \$ / Unit	Labor Type
1	Dec	1.0 Disk	100 Offset Disk, 12'	3.00					***	Tractor
2	Dec	1.0 Apply Fert/Ground	100 Fertilizer Broadcaster.		33-00-00, Amm. Nitrate,	275.00	Ιb	320.00 Tr	1	Tractor
3	Dec	1.0 Plant	70 Grain Drill. 12'		Barley Sd, Cert	100.00		24.00 CW		Tractor
4	Dec	1.0 Make Borders	70 Border Disk. 6' Disk	8.00	2a, 3a, 3a		_~			Tractor
5	Dec	2.0 Irrigate			Water, District	5.00	ΑI	0.00 AF	=	Irrigators
6	Jan	9	nd70 Directed Spray Rig, 8 Row		Diclofop Methyl	2.67	Pt	61.03 Ga		Tractor
7	Feb	1.0 Irrigate/Run Fertilizer	1 , 3,	3.75	Water, District	5.00	ΑI	0.00 AF	-	Irrigators
		· ·	32-00-00, URAN 32,		30.00	Ga1	73.0	00 Tn		· ·
8	Feb	0.3 Apply Herbicide/Grou	nd70 Directed Spray Rig, 8 Row	6.00	Bromoxynil	1.50	Pt	52.93 Ga	ì	Tractor
9	Mar	4.0 Irrigate	, , -	3.00	Water, District	5.00	ΑI	0.00 AF	-	Irrigators
10	Jun	1.0 Combine Harvest	CST Combine Barley						37.50 Ac	;
11	Jun	1.0 Haul, Custom	CST Haul Grain						0.25 C	
12	Jun	1.0 Disk Residue	100 Offset Disk, 12'	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.