

Table 8A. Income and Cash Operating Cost Summary, Wheat, 1996

COUNTY: Mohave FARM: Mohave County Farm WATER SOURCE: ColPum TILLAGE: Conventional
 CROP: Wheat, Winter ACRES: 1.0 IRRIGATION SYSTEM: Flood Basin SOIL: Sandy-Loam
 AREA: Mohave Valley YIELD: 4,800.0 Lb/Acre PREVIOUS CROP: Cotton, Upland DATE: 10/03/96

Item	Unit	Quantity	Price /Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Grain	Pound	4,800.00	\$0.0581	\$278.88	\$278.88	
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					21.72	
Tractor/Self Propelled				14.15		
Irrigation				7.56		
Chemicals & Custom Applications					60.25	
Fertilizers				51.27		
Herbicides				8.98		
Farm Machinery and Vehicles					21.77	
Diesel Fuel				10.90		
Repairs & Maint.				10.87		
Irrigation (excluding labor)					8.78	
Pump Energy - Elect.				7.91		
Repairs & Maint.				0.88		
Other Purchased Inputs & Services					15.12	
Seed/Transplants				15.12		
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					127.63	
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					46.30	
TOTAL HARVEST AND POST HARVEST EXPENSE					46.30	
OPERATING OVERHEAD->PICKUP USE					7.63	
OPERATING INTEREST AT 8.0%					3.50	
TOTAL CASH OPERATING EXPENSES					\$185.07	
RETURNS OVER CASH OPERATING EXPENSES					\$93.81	

Notes: The above figures do not include ownership costs, see Table 8B on Next Page for detailed cost allocation.

Table 8B. Allocation of Ownership Costs; Wheat, 1996

COUNTY: Mohave	FARM: Mohave County Farm	WATER SOURCE: ColPum	TILLAGE: Conventional
CROP: Wheat, Winter	ACRES: 1.0	IRRIGATION SYSTEM: Flood Basin	SOIL: Sandy-Loam
AREA: Mohave Valley	YIELD: 4,800.0 Lb/Acre	PREVIOUS CROP: Cotton, Upland	DATE: 10/03/96

Item	- CASH COST BASIS (\$/ACRE) -		- TOTAL COST BASIS (\$/ACRE) -	
	Income & Costs	Net Returns	Income & Costs	Net Returns
TOTAL INCOME at \$ 0.0581/Lb	\$278.88		\$278.88	
TOTAL OPERATING EXPENSES	185.06		185.06	
RETURN OVER CASH OPERATING EXPENSES		\$93.81		\$93.81
CASH OVERHEAD EXPENSES				
Taxes, Housing & Insur., Farm Machinery	2.40		2.40	
Wells & Irrig. System	0.39		0.39	
Gen. & Off. Overhead (5% of Tot. Oper. Exp.)	9.25		9.25	
General Farm Maint. (3% of Tot. Oper. Exp.)	5.55		5.55	
Total Cash Overhead Expenses	<u>17.59</u>		<u>17.59</u>	
Total Cash Oper. & Over. Cost	202.66		202.66	
RETURNS OVER CASH OPER. & OVER. EXPENSES.		76.21		76.21
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery & Vehicles			13.10	
Wells & Irrig. System			2.38	
Interest on Equity, Machinery & Vehicles			6.25	
Wells & Irrig. System			0.92	
Total Capital Allocations			<u>22.64</u>	
RETURNS TO LAND, CAPITAL, MANAGEMENT & RISK		76.21		
RETURNS TO LAND, MANAGEMENT & RISK				53.56
LAND COSTS / OWNERSHIP (100% Equity)				
Property Taxes (\$510 X 16% X .10038)	8.19		8.19	
Opport. Inter. on Land (100% X 6.0% X \$510)			30.60	
Total Land Costs	<u>8.19</u>		<u>38.79</u>	
RETURNS TO MANAGEMENT, CAPITAL & RISK		68.02		
RETURNS TO MANAGEMENT & RISK				14.77
Management Services (8% of Tot. Oper. Exp.)			14.80	
TOTAL OWNERSHIP COST	<u>25.78</u>		<u>93.83</u>	
TOTAL COST	<u>=====</u>		<u>=====</u>	
TOTAL COST	\$210.85		\$278.90	
RETURN TO MANAGEMENT, CAPITAL & RISK		\$68.02		
RETURN TO RISK (PROFITS)				>(\$0.02)
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		\$0.0385		\$0.0385
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$0.0053		\$0.0195
BREAK-EVEN PRICE TO COVER TOTAL COST		\$0.0439		\$0.0581

Table 8C. Variable Operating Costs; Wheat, 1996

COUNTY: Mohave FARM: Mohave County Farm WATER SOURCE: ColPum TILLAGE: Conventional
 CROP: Wheat, Winter ACRES: 1.0 IRRIGATION SYSTEM: Flood Basin SOIL: Sandy-Loam
 AREA: Mohave Valley YIELD: 4,800.0 Lb/Acre PREVIOUS CROP: Cotton, Upland DATE: 10/03/96

No.	First Month	Operation	— Hours * —		Operating Costs (\$/Acre*)				Tot. Cash Expense	Class		
			Machine	Labor	Fuel/Rps.	Labor	Cust/Ser.	Materials			Total	Times
1	Dec	Disk	0.225	0.250	3.58	2.10			5.68	2.0	11.35	L
2	Dec	Landplane	0.209	0.233	3.48	1.96			5.44	1.0	5.44	L
3	Dec	Plant	0.180	0.200	2.25	1.68		15.12	19.05	1.0	19.05	L
4	Dec	Apply Fert/Ground	0.090	0.100	0.81	0.84		13.23	14.88	1.0	14.88	G
5	Dec	Apply Herbicide/Ground	0.090	0.100	0.81	0.84		15.59	17.24	0.3	5.17	G
6	Dec	Disk	0.225	0.250	3.58	2.10			5.68	1.0	5.68	L
7	Dec	Make Borders	0.090	0.100	0.80	0.84			1.64	1.0	1.64	G
8	Jan	Irrigate		0.130	1.00	0.91			1.91	5.0	9.55	G
9	Jan	Irrigate/Run Fertilizer		0.143	1.25	1.00		12.68	14.93	3.0	44.79	G
10	Mar	Apply Herbicide/Ground	0.090	0.100	0.86	0.84		6.15	7.85	0.7	5.49	G
11	Jun	Combine Harvest						34.30	34.30	1.0	34.30	H
12	Jun	Haul, Custom 48.0 CW						12.00	12.00	1.0	12.00	H
13	Jul	Disk Residue	0.180	0.200	2.86	1.68			4.54	1.0	4.54	L
		Pickup Use 30 Mi/Ac	1.000		7.63						7.63	O
		Operating Interest at 8.00%						3.68			3.68	O
TOTAL CASH OPERATING EXPENSES:					\$38.15	\$21.69	\$49.98	\$75.37			\$185.19	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.

OPERATING COST SUMMARY BY CLASS		SENSITIVITY OF NET REVENUES OVER TOTAL CASH EXPENSES (\$/Acre)						
		Prices ->		-25%	-10%	Budgeted	+10%	+25%
Land Preparation (L)	\$46.05							
Growing (G)	81.52							
Harvest (H)	46.30	Yields		\$0.04	\$0.05	\$0.05	\$0.06	\$0.07
Post Harvest (P)	0.00							
Marketing (M)	0.00							
Operating Overhead (O)	11.31							
		Budgeted	4,800.0	23.96	65.79	93.68	121.57	163.40
Total (T)	\$185.19	+10%	5,280.0	40.25	86.26	116.94	147.62	193.63
		+25%	6,000.0	64.68	116.97	151.83	186.69	238.98
		Break-even Yield		4,093.64	3,257.04	2,866.49	2,559.58	2,205.39

Table 8D. Resource and Cash Flow Requirements; Wheat, 1996

COUNTY: Mohave FARM: Mohave County Farm WATER SOURCE: ColPum TILLAGE: Conventional
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 AREA: Mohave Valley YIELD: 4,800.0 Lb/Acre PREVIOUS CROP: Cotton, Upland DATE: 10/03/96

Month *	Number Irrig.	Water Applied (Inches)	Total Labor (Hrs)	Operating Cost (\$/Acre)						
				Purchased Water	Fuel, Oil & Repairs	Labor	Chemicals	Other Purchases	Services	Total
DEC P			1.41		18.31	11.88	17.91	15.12		63.22
JAN C	1.0	4.0	0.13		1.00	0.91				1.91
FEB C	1.0	5.0	0.14		1.25	1.00	12.68			14.93
MAR C	2.0	9.0	0.27		2.25	1.91	12.68			16.84
APR C	3.0	13.0	0.47		3.85	3.41	16.98			24.24
MAY C	1.0	4.0	0.13		1.00	0.91				1.91
JUN C									29.50	29.50
JUL C			0.20		2.86	1.68				4.54
Pickup Use 30 Mi/Ac					7.63					7.63
Operating Interest at 8.0%									3.66	3.66
Total	8.0	35.0	2.76		38.15	21.72	60.25	15.12	33.16	168.40
%					22.65	12.89	35.78	8.97	19.69	100.00

TOTAL RESOURCES REQUIREMENTS (/Acre)		TOTAL ENERGY REQUIREMENTS (/Acre)	
Total N	181.0 lbs	Diesel Fuel	10.1 Gal
Total P	41.6 lbs	Regular Gas	0.0 Gal
Total K	0.0 lbs	NonLead Gas	3.0 Gal
Total Labor	2.7 Hrs	Electricity/Pumping	127.6 KWH
Total Water	35.0 AI	All Direct Energy	2.2 M BTU

EQUIPMENT REQUIREMENTS (/Acre)			
Tractor, 150 PTO HP, MFWD	1.06 Hrs	Offset Disk, 13.5'	0.86 Hrs
Tractor, 100 PTO HP, MFWD	0.45 Hrs	Grain Drill, 16'	0.18 Hrs
Blade Scraper, 10'	0.09 Hrs	Directed Spray Rig, 8 Row	0.06 Hrs
			Landplane 14' X 60' 0.21 Hrs
			Fertilizer Broadcaster, Towed 0.12 Hrs
			Pickup Truck, 1/2 Ton 1.00 Hrs

MATERIALS REQUIREMENTS (/Acre)			
Milling Wheat Sd, Cert	120.00 Lb	11-52-00, Dry	80.00 Lb
Water, Pump	35.00 AI	82-00-00, Anhyd. Ammonia	210.00 Lb
			Trifluralin 4.50 Lb
			2,4-d 2.80 Pt

LABOR REQUIREMENTS (/Acre)			
Tractor	1.68 Hrs	Irrigators	1.08 Hrs

* NOTE: P = Previous Year C = Current Year N = Next Year

Table 8E Schedule of Operations; Wheat, 1996

COUNTY: Mohave FARM: Mohave County Farm WATER SOURCE: ColPum TILLAGE: Conventional
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 AREA: Mohave Valley YIELD: 4,800.0 Lb/Acre PREVIOUS CROP: Cotton, Upland DATE: 10/03/96

No.	Month	First Times	Operation	Equipment/Custom Oper.		Job Rate Acres/Hr	Material Use & Cost			Service Cost \$/Unit	Labor Type
				HP	Self-Prop./Implem.		Name	Appl. Rate	\$/Unit		
1	Dec	2.0	Disk	150	Offset Disk, 13.5'	4.00					Tractor
2	Dec	1.0	Landplane	150	Landplane 14'X 60'	4.30					Tractor
3	Dec	1.0	Plant	100	Grain Drill, 16'	5.00	Milling Wheat Sd, 120.00 Lb	12.00	CW		Tractor
4	Dec	1.0	Apply Fert/Ground	100	Fertilizer Broadcaster,	10.00	11-52-00, Dry	80.00 Lb	315.00 Tn		Tractor
5	Dec	0.3	Apply Herbicide/Groun	100	Fertilizer Broadcaster,	10.00	Trifluralin	15.00 Lb	0.99 Lb		Tractor
6	Dec	1.0	Disk	150	Offset Disk, 13.5'	4.00					Tractor
7	Dec	1.0	Make Borders	100	Blade Scraper, 10'	10.00					Tractor
8	Jan	5.0	Irrigate			7.70	Water, Pump	4.00 AI	3.01 AF		Irrigator
9	Jan	3.0	Irrigate/Run Fertiliz			7.00	Water, Pump	5.00 AI	3.01 AF		Irrigator
							82-00-00, Anhyd. A	70.00 Lb	345.00 Tn		
10	Mar	0.7	Apply Herbicide/Groun	100	Directed Spray Rig, 8	10.00	2,4-d	4.00 Pt	11.71 Ga		Tractor
11	Jun	1.0	Combine Harvest		CST Combine Wheat					17.50 Ac	
12	Jun	1.0	Haul, Custom		CST Haul Grain					0.25 CW	
13	Jul	1.0	Disk Residue	150	Offset Disk, 13.5'	5.00					Tractor
			Pickup Use 30 Mi/Ac		Pickup Truck, 1/2 Ton	1.00					

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