YIELD:

COUNTY: Greenlee CROP: Wheat, Winter AREA: Duncan Valley

ACRES:

FARM: Greenlee County 98 1.0

4,500.0 Lb / Acre

WATER SOURCE: IRRIGATION SYSTEM: Flood Furrow PREVIOUS CROP:

Duncan East, Nat Gas Cotton, Upland

TILLAGE: Conventional SOIL:

Sandy-Loam DATE: 2/4/99

ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME Grain	Pound	4,500.00	\$0.06	\$261.45	\$261.45	
CASH LAND PREPARATION AND Paid Labor (including benefits) Tractor/Self Propelled Irrigation Other/ Contract	O GROWING EXPENSES (in	cluding sales tax)		19.95 19.70 2.27	41.92	
Chemicals and Custom Applica Fertilizer Insecticide	ations			58.42 4.82	63.24	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				8.25 13.02	21.27	
Irrigation Water (excluding labo Natural Gas/Pumping Repairs and Maintenance	or)			41.03 5.34	46.37	
Other Purchased Inputs & Seed/Transplants				29.54	29.54	
	TOTAL CASH LAND PRE	PARATION AND GROW	/ING EXPENSES		202.35	
CASH HARVEST AND POST HAR	RVEST EXPENSES					
Paid Labor (including benefits) Tractor/Self Propelled				0.27	0.27	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				0.11 0.18	0.29	
Custom Harvest/Post Harvest					64.50	
	TOTAL HARVEST AND F	OST HARVEST EXPEN	SE		65.06	
OPERATING OVERHEAD PIC	KUP USE				7.57	
OPERATING INTEREST AT 10.09	%				7.20	
	TOTAL CASH OPERATIN	IG EXPENSES			\$282.18	
	RETURNS OVER CASI	H OPERATING EXPENS	ES		(\$20.73)	

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

ARIZONA COOPERATIVE EXTENSION Department of Ag and Resource Economics University of Arizona F 9 / 214

BREAK-EVEN PRICE TO COVER OWNERSHIP COST

BREAK-EVEN PRICE TO COVER TOTAL COST

COUNTY: Greenlee CROP: Wheat, Winter FARM: Greenlee County 98 ACRES: 1.0

WATER SOURCE: IRRIGATION SYSTEM: Flood Furrow

Duncan East, Nat Gas

\$0.01

\$0.07

TILLAGE: Conventional SOIL: Sandy-Loam

YIELD: 4,500.0 Lb / Acre PREVIOUS CROP: 2/4/99 AREA: Duncan Valley Cotton, Upland DATE: -- CASH COST BASIS (\$/ACRE) ---- TOTAL COST BASIS (\$/ACRE) --**Income and Costs Net Returns Income and Costs Net Returns** Item TOTAL INCOME at \$0.06 / Lb \$261.45 \$261.45 TOTAL OPERATING EXPENSES \$282.18 \$282.18 RETURN OVER CASH OPERATING EXPENSES (\$20.73)(\$20.73)CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery 2.64 2.64 Wells and Irrigation System 3.17 3.17 General and Office Overhead (5.0% of Total Operating Exp.) 14.11 14.11 General Farm Maintenance (3.0% of Total Operating Exp.) 8.47 8.47 Total Cash Overhead Expenses 28.39 28.39 Total Cash Operating and Overhead Cost 310.57 310.57 RETURNS OVER CASH OPER. AND OVER. EXPENSES (\$49.12)(\$49.12)CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery and Vehicles 14.44 Wells and Irrigation System 32.57 Interest on Equity, Machinery and Vehicles 6.51 Wells and Irrigation System 8.37 **Total Capital Allocations** 61.89 RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ------(\$49.12)RETURNS TO LAND, MANAGEMENT AND RISK ------(\$111.01)Land Cost / Ownership (100% Equity) Property Taxes (\$400.00 X 16.0% X 0.084) 5.44 5.44 Opportunity Interest on Land (100% X 6.0 X \$400.00) 24.00 **Total Land Costs** 5.44 29.44 RETURNS TO CAPITAL, MANAGEMENT AND RISK ------(\$54.56)RETURNS TO MANAGEMENT AND RISK -----(\$140.44)Management Services (8% of Total Operation Expenses) 22.57 TOTAL OWNERSHIP COST 33.82 142.28 TOTAL COST \$316.01 \$424.47 RETURNS TO CAPITAL, MANAGEMENT AND RISK -----> (\$54.56)RETURNS TO RISK (PROFITS) ------(\$163.02)BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) \$0.06 \$0.06

\$0.03

\$0.09

COUNTY:Greenlee FARM: Greenlee County 98 WATER SOURCE: Duncan East, Nat Gas TILLAGE: Conventional ACRES: CROP: Wheat, Winter 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Duncan Valley YIELD: 4,500.0 Lb / Acre PREVIOUS CROP: Cotton, Upland DATE: 2/4/99

Na	First Hours * Month Operation Machine Labor				Operating Costs (\$/ACRE *) Per Operation Fuel/Rps. Labor Cust/Serv. Materials Total					Times	Tot. Cash	Class
No.	WONTH	Operation	wacnine	Labor	Fuel/Rps.	Labor Ci	ust/Serv.	Materials	Total	Times	Expenses	Class
1	Nov	Disk	0.180	0.200	1.76	1.64			3.40	2.0	6.80	L
2	Nov	Plow	0.600	0.667	5.99	5.46			11.45	1.0	11.45	L
3	Dec	Landplane	0.257	0.286	2.18	2.34			4.53	1.0	4.53	L
4	Jan	List	0.225	0.250	1.92	2.05			3.97	1.0	3.97	L
5	Jan	Plant	0.300	0.666	3.47	5.00		67.63	76.10	1.0	76.10	L
6	Jan	Buck Rows	0.030	0.033	0.22	0.27			0.49	1.0	0.49	G
7	Jan	Irrigate		0.314	6.05	2.57			8.62	5.0	43.10	G
8	Mar	Apply Fert/Ground	0.060	0.067	0.45	0.55		20.34	21.33	1.0	21.33	G
9	Mar	Irrigate		0.209	4.03	1.71			5.74	4.0	22.97	G
10	May	Apply Insecticide/Air					4.58	11.50	16.08	0.3	4.82	G
11	Jul	Prepare Ends	0.030	0.033	0.29	0.27			0.56	1.0	0.56	Н
12	Jul	Combine Harvest					53.25		53.25	1.0	53.25	Н
13	Jul	Haul, Custom 45 CW					11.25		11.25	1.0	11.25	Н
14	Jul	Disk Residue 45 CW	0.180	0.200	1.76	1.64			3.40	2.0	6.80	L
		Pickup Use30 Mi/Acre	1.000		7.57						7.57	
		Operating Interest at 10.0					7.20				7.20	
	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.

Land Preparation (L)	109.63	Prices		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Growing (G) Harvest (H)	92.72 65.06	Yields		\$0.04	\$0.05	\$0.06	\$0.06	\$0.07	Break-even Price
Post Harvest (P)	0.00	- 25%	3,375.0	-118.88	-89.47	-69.86	-50.25	-20.84	0.08
Marketing (M)	0.00	- 10%	4,050.0	-99.23	-63.93	-40.40	-16.87	18.43	0.07
Operating Overhead (O)	14.77	Budgeted	4,500.0	-86.12	-46.91	-20.76	5.38	44.60	0.06
	=========	+ 10%	4,950.0	-73.02	-29.88	-1.12	27.64	70.77	0.06
Total (T)	\$282.18	+ 25%	5,625.0	-53.37	-4.35	28.33	61.02	110.04	0.05
		Break-even	Yield	7,457.95	5,739.91	4,975.75	4,391.16	3,733.23	

ARIZONA COOPERATIVE EXTENSION
Department of Ag and Resource Economics
University of Arizona F 9 / 214

COUNTY:Greenlee FARM: Greenlee County 98 WATER SOURCE: Duncan East, Nat Gas TILLAGE: Conventional ACRES: IRRIGATION SYSTEM: Flood Furrow CROP: Wheat, Winter 1.0 SOIL: Sandy-Loam AREA: Duncan Valley YIELD: 4,500.0 Lb / Acre PREVIOUS CROP: Cotton, Upland DATE: 2/4/99

Water				Operating Costs (\$/ACRE *)								
Month *	Number Irrigations	Applied (inches)	Total Labor (Hrs)	Purchased Water	Fuel, Oil and Repair	s	Labor	Chemicals	Other Purchases	Services	Total	
NOV P			1.07		9.5	1	8.74				18.24	
DEC P			0.29		2.1		2.34				4.53	
JAN C	2.0	12.0	1.58		17.7		12.46	38.09	29.54		97.80	
MAR C	2.0	8.0	0.49		8.5	1	3.97	20.34			32.82	
APR C	2.0	10.0	0.52		10.0		4.28				14.36	
MAY C	2.0	12.0	0.63		12.1		5.14	3.45		1.37	22.06	
JUN C	1.0	4.0	0.21		4.0		1.71				5.74	
JUL C			0.43		3.8		3.55			67.71	71.86	
Pickup Use					7.5	7					7.57	
Operating Ir	iterest at 10.0									7.20	7.20	
Total	9.0	46.0	5.21		75.51		42.19	61.87	29.54	73.07	282.18	
%					26.76	;	14.95	21.93	10.47	25.89	100.00	
Total N Total P Total K Total Lab Total Wat	er T REQUIREM	117.0 60.0 0.0 5.2 46.0	Acre)	Diesel Fi Unleade Nat Gas/ All Direct	d Gas Pumping t Energy	11 3 99 11	.0 Ga 3.0 Ga 0.4 Th .8 M l	I I erms BTU				
	Broadcaster,	-	06 Hr	Grain Drill 12' W/F		0.30 H		Landplane		0.26 Hr		
Lister, 5 l	ruck, 1/2 Ton	-	22 Hr 00 Hr	Moldboard Plow, 3	3-16 2	0.60 H		Offset Dis	k, 12 Sprayer, 2 Tk 8	0.75 Hr 0.00 Hr		
	00 PTO HP,		22 Hr	Rowbuck, 10'		0.03 F	11	Saddle 1k	. Sprayer, 2 Tk 6	0.00 HI		
	S REQUIREM						_					
16-20-00	, Dry		00 Lb	46-00-00, Urea 46		50.00 L		Milling Wh	eat Sd, Cert	200.00 Lb		
Phorate		1.	50 Lb	Water, Pump		46.00 A	d .					
	QUIREMENT											
Irrigators		2.	41 Hr	Other		0.33 H	lr	Tractor		2.47 Hr		
********			rront Voor N -									

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

ARIZONA COOPERATIVE EXTENSION
Department of Ag and Resource Economics
University of Arizona F 9 / 214

COUNTY:Greenlee FARM: Greenlee County 98 WATER SOURCE: Duncan East, Nat Gas TILLAGE: Conventional ACRES: CROP: Wheat, Winter 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Duncan Valley YIELD: 4,500.0 Lb / Acre PREVIOUS CROP: Cotton, Upland DATE: 2/4/99

No	First o.Month	Times Operation	Equipment/ Custom Oper on HP Self-Prop./ Implement	Job Rate Acres/Hr		Ise and Cost Appl. Ra	 nte \$ / Unit	Service Cost \$ / Unit	Labor Type
1	Nov	2.0 Disk	100 Offset Disk, 12'	5.00					Tractor
2	Nov	1.0 Plow	100 Moldboard Plow, 3-16 2	1.50					Tractor
3	Dec	1.0 Landplane	100 Landplane 12'X 45'	3.50					Tractor
4	Jan	1.0 List	100 Lister, 5 Bottom	4.00					Tractor
5	Jan	1.0 Plant	100 Grain Drill 12' W/Fert Box	3.00	Milling Wheat Sd, Cert	200.00 Lb	14.00 CV	V	Tractor
					16-20-00, Dry	300.00 Lb	240.67 T	n Other	
6	Jan	1.0 Buck Rows	100 Rowbuck, 10'	30.00					Tractor
7	Jan	5.0 Irrigate	·	3.18	Water, Pump	6.00 AI	12.10 Al	F	Irrigators
8	Mar	1.0 Apply Fert/Gro	und 100 Fertilizer Broadcaster,	15.00	46-00-00, Urea 46	150.00 Lb	257.00 T	n	Tractor
9	Mar	4.0 Irrigate	,	4.78	Water, Pump	4.00 AI	12.10 A	F	Irrigators
10	May	0.3 Apply Insecticion	de/Air CST Air Apply Granules 50lbs		Phorate	5.00 Lb	2.18 L		•
11	Jul	1.0 Prepare Ends	100 Offset Disk, 12'	30.00					Tractor
12	Jul	1.0 Combine Harve	•					37.50 Ac	
13	Jul	1.0 Haul, Custom	CST Haul Grain					0.25 C	
14	Jul	2.0 Disk Residue	100 Offset Disk, 12'	5.00					Tractor
		Pickup use 30	· · · · · · · · · · · · · · · · · · ·	1.00					

<sup>\*</sup>NOTES: Machine times, labor times, and material rates are for one time over the designated acreage.

ARIZONA COOPERATIVE EXTENSION
Department of Ag and Resource Economics
University of Arizona F 9 / 214