| COUNTY: Maricopa CROP: Barley AREA: Salt River Project | FARM: MACRES: YIELD: | Maricopa Count 1.0 4,900.0 Lb | - | WATER SOURCE: IRRIGATION SYSTEM PREVIOUS CROP: | SRP : Flood Furrow Cotton, Upland | SOIL: | Conventional Sandy-Loam 10/03/96 |
|--|----------------------|-------------------------------------|-----------------|--|---|----------------|--|
| Item | | Unit | Quantit | ty Price /Unit | Budgeted /Acre | Total /Acre | Your Farm Budget |
| INCOME -> Grain | | Pound | 4,900.0 | \$0.0567 | \$277.83 | \$277.83 | |
| CASH LAND PREPARATION AND GR | | NSES (includi | ng sales tax) | | | | |
| Paid Labor (including be | | | | | | 20.82 | |
| Tractor/Self Prop | elled | | | | 9.44 | | |
| Irrigation | | | | | 11.21 | | |
| Other/Contract | | | | | 0.18 | | |
| Chemicals & Custom Appli | cations | | | | | 95.24 | |
| Fertilizers | | | | | 75.66 | | |
| Herbicides | | | | | 19.58 | | |
| Farm Machinery and Vehic | les | | | | | 10.48 | |
| Diesel Fuel | | | | | 4.82 | | |
| Repairs & Maint. | | | | | 5.66 | | |
| Irrigation Water (exclud | ing labor) | | | | | 6.66 | |
| Water Assessment (See No | | | | | | ** | |
| Other Purchased Inputs & | | | | | | 22.68 | |
| Seed/Transplants | | | | | 22.68 | | |
| occa, rramsprames | | | | | | | |
| TOT | AL CASH LA | ND PREPARATIO | N AND GROWING P | EXPENSES | _ | 155.89 | |
| CASH HARVEST AND POST HARVES | r expenses | , | | | | | |
| Paid Labor (including be | nefits) | | | | | 0.42 | |
| Tractor/Self Prop | | | | | 0.42 | | |
| Farm Machinery and Vehic | | | | | | 0.49 | |
| Diesel Fuel | | | | | 0.19 | | |
| Repairs & Maint. | | | | | 0.30 | | |
| Custom Harvest/Post Harve | est | | | | | 48.15 | |
| TOT | AL HARVEST | AND POST HAR | VEST EXPENSE | | _ | 49.06 | |
| OPERATING OVERHEAD->PICKUP U | SE | | | | | 7.43 | |
| OPERATING INTEREST AT 8.0% | - | | | | | 4.89 | |
| поп | אז. ראפש ספ | PERATING EXPEN | CTC | | = | \$217.27 | |
| | | R CASH OPERAT | | | | \$60.56 | |
| K | FIOKNO OAF | R CASH OPERAT | ING EXPENSES | | | 300.30 | |

Notes: The above figures do not include ownership costs, see Table 9B on Next Page for detailed cost allocation. ** A water assessment charge of \$20.34/Acre is included in the ownership costs of Table 9B.

COUNTY: Maricopa FARM: Maricopa County Farm WATER SOURCE: SRP TILLAGE: Conventional CROP: Barley ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam 4,900.0 Lb/Acre 10/03/96 AREA: Salt River Project YIELD: Cotton, Upland DATE: PREVIOUS CROP:

| AREA. Sait River Project Tiend. 4,900.0 hb/Acre | FREVIOUS | chor. coccon | , opiand DATE. | 10/03/90 |
|---|-------------------|--------------|------------------|------------------------|
| | - CASH COST BASIS | | - TOTAL COST BAS | |
| Item | Income & Costs | Net Returns | Income & Costs | Net Returns |
| TOTAL INCOME at \$ 0.0567/Lb | \$277.83 | | \$277.83 | |
| TOTAL OPERATING EXPENSES | 217.26 | | 217.26 | |
| RETURN OVER CASH OPERATING EXPENSES | | \$60.56 | į | \$60.56 |
| CASH OVERHEAD EXPENSES | | | | |
| Taxes, Housing & Insur., Farm Machinery | 1.22 | | i 1.22 | |
| Gen. & Off. Overhead (5% of Tot. Oper. Exp.) | 10.86 | | i 10.86 | |
| General Farm Maint. (3% of Tot. Oper. Exp.) | 6.52 | | 6.52 | |
| Total Cash Overhead Expenses | 18.60 | | 18.60 | |
| Total Cash Oper. & Over. Cost | 235.86 | | 235.86 | |
| RETURNS OVER CASH OPER. & OVER. EXPENSES. | | 41.96 | | 41.96 |
| CAPITAL ALLOCATIONS (100% Equity) | | | | |
| Capital Replacement, Machinery & Vehicles | | | 6.72 | |
| Interest on Equity, Machinery & Vehicles | | | 3.69 | |
| Total Capital Allocations | | | 10.41 | |
| RETURNS TO LAND, CAPITAL, MANAGEMENT & RISK | | 41.96 | 1 | > 21 F4 |
| RETURNS TO LAND, MANAGEMENT & RISK | | | 1 | -> 31.54 |
| LAND COSTS / OWNERSHIP (100% Equity) | - | | j | |
| Property Taxes (\$702 X 16% X .12601) | 14.15 | | 14.15 | |
| Opport. Inter. on Land (100% X 6.0% X \$702) | | | 42.12 | |
| Water Assessment ** | 20.34 | | 20.34 | |
| | | | | |
| Total Land Costs | 34.49 | | 76.61 | |
| RETURNS TO MANAGEMENT, CAPITAL & RISK | | 7.46 | <u> </u> | - >(45.06) |
| REIORIO TO PERROEMENT & RIOR | | | 1 | 2 (43.00) |
| Management Services (8% of Tot. Oper. Exp.) | | | 17.38 | |
| TOTAL OWNERSHIP COST | 53.09 | | 123.01 | |
| | ======= | | ======= | |
| TOTAL COST | \$270.36 | | \$340.27 | |
| RETURN TO MANAGEMENT, CAPITAL & RISK | > | \$7.46 | I | |
| RETURN TO RISK (PROFITS) | | | • | >(\$62.44) |
| BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) | | \$0.0443 | ļ | \$0.0443 |
| BREAK-EVEN PRICE TO COVER OWNERSHIP COST | | \$0.0108 | ļ | \$0.0251 |
| BREAK-EVEN PRICE TO COVER TOTAL COST | | \$0.0551 | | \$0.0694 |

Table 9C. Variable Operating Costs; Barley, 1996 Page 38

COUNTY: Maricopa FARM: Maricopa County Farm WATER SOURCE: SRP TILLAGE: Conventional CROP: Barley ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam Salt River Project YIELD: 4,900.0 Lb/Acre 10/03/96 AREA: PREVIOUS CROP: Cotton, Upland DATE:

| | First — Hours * - | | | | ı | - Operat | Tot. Cash | | | | | |
|-----|-------------------|------------------------------|---------|-------|---------------|----------|-----------|-----------|-------|-------|----------|-------|
| No. | Month | Operation | Machine | Labor | Fuel/Rps | . Labor | Cust/Ser. | Materials | Total | Times | Expense | Class |
| 1 | Dec | Apply Fert/Ground | 0.180 | 0.200 | 1.44 | 1.68 | | 32.81 | 35.93 | 1.0 | 35.93 | G |
| 2 | Dec | Disk | 0.170 | 0.189 | 2.71 | 1.59 | | | 4.30 | 1.0 | 4.30 | L |
| 3 | Dec | Make Borders | 0.113 | 0.125 | 1.09 | 1.05 | | | 2.14 | 1.0 | 2.14 | G |
| 4 | Dec | Plant | 0.225 | 0.250 | 2.58 | 2.10 | | 22.68 | 27.36 | 1.0 | 27.36 | L |
| 5 | Dec | Buck Rows | 0.022 | 0.050 | 0.14 | 0.39 | | | 0.53 | 1.0 | 0.53 | G |
| 6 | Dec | Irrigate | | 0.400 | Ì | 2.80 | | | 2.80 | 1.0 | 2.80 | G |
| 7 | Jan | Apply Herbicide/Air | | | İ | | 8.32 | 11.26 | 19.58 | 1.0 | 19.58 | G |
| 8 | Feb | Irrigate/Run Fertilizer | | 0.300 | Ì | 2.10 | | 21.43 | 23.53 | 2.0 | 47.06 | G |
| 9 | Apr | Irrigate | | 0.300 | İ | 2.10 | | 3.33 | 5.43 | 2.0 | 10.86 | G |
| 10 | May | Prepare Ends | 0.045 | 0.050 | 0.49 | 0.42 | | | 0.91 | 1.0 | 0.91 | H |
| 11 | May | Combine Harvest | | | Ì | | 34.65 | | 34.65 | 1.0 | 34.65 | H |
| 12 | May | Haul, Custom 54.0 CW | | | Ì | | 13.50 | | 13.50 | 1.0 | 13.50 | H |
| 13 | Jun | Disk Residue | 0.300 | 0.333 | 2.53 | 2.80 | | | 5.33 | 1.0 | 5.33 | L |
| | | Pickup Use 30 Mi/Ac | 1.000 | | 7.43 | | | | | | 7.43 | 0 |
| | | Operating Interest at 8.00 | 9 | | | | 4.89 | | | | 4.89 | 0 |
| | | TOTAL CASH OPERATING EXPENSE | ES: | | \$18.40 | \$21.23 | \$61.36 | \$116.27 | | | \$217.26 | 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.

A water assessment charge of \$20.34/Acre included as ownership cost in Table 9B.

| OPERATING COST SUMMARY BY Land Preparation (L) | \$36.98 | Prices - | SENSI | TIVIT: | Y OF NET -25% | REVENUES -10% | OVER TOTAL Budgeted | | SES (\$/Acre +25% |) |
|---|-----------------|-------------------------|---------------------|--------|-------------------|-------------------|------------------------|--------------------|----------------------|--------------|
| Growing (G) Harvest (H) | 118.89 49.06 | Yields | | ı | \$0.04 | \$0.05 | \$0.05 | \$0.06 | \$0.07 | Break-even |
| Post Harvest (P) Marketing (M) | 0.00 0.00 | -25% | 3,675.0 | | -48.71 | -17.46 | 3.37 | 24.21 | 55.46 | 0.05 |
| Operating Overhead (O) | 12.32 | -10% | 4,410.0 4,900.0 | į | -24.82 -8.88 | 12.68 32.78 | | 62.69 88.35 | 100.20 130.02 | 0.04 0.04 |
| Total (T) | \$217.26 | Budgeted +10% | 5,390.0 | | 7.04 | 52.78 52.88 | | 114.00 | 159.84 | 0.04 |
| | | +25% Break-ev | 6,125.0 en Yield | | 30.93 5,173.41 | 83.03 4,100.71 | | 152.48 3,212.55 | 204.58 2,763.62 | 0.03 |

| CROP: | Maricopa Barley Salt River | r Project | FARM: ACRES: YIELD: | - | oa County Farm 1.0 00.0 Lb/Acre | IRF | ER SOU RIGATIO VIOUS | N SYST | | ood Furrow cton, Upland | SOIL: S | Conventional Sandy-Loam 10/03/96 |
|-----------|----------------------------------|---|---------------------------|----------|---------------------------------------|---------------|----------------------------|--------|----------|----------------------------|---------|--|
| - | | Water | | 1 | - | | | perati | ing Cost | (\$/Acre) — | | |
| | Number | Applied | Total | i | Purchased | Fuel, Oil | · | Poluoi | g 0001 | Other | | |
| Month * | Irrig. | (Inches) | Labor (H | irs) | Water | & Repairs | Lab | or | Chemica | als Purchases | Service | es Total |
| DEC P | 1.0 | 8.0 | 1.21 | ı | | 7.95 | 9. | 61 | 32.81 | . 22.68 | | 73.05 |
| JAN C | | | | ĺ | | | | | 11.26 | 5 | 8.32 | 19.58 |
| FEB C | 1.0 | 6.0 | 0.30 | i | | | 2. | 10 | 21.43 | 3 | | 23.53 |
| MAR C | 1.0 | 6.0 | 0.30 | i | | | 2. | 10 | 21.43 | 3 | | 23.53 |
| APR C | 2.0 | 12.0 | 0.60 | i | 6.66 | | | 20 | | | | 10.86 |
| MAY C | | | 0.05 | i | | 0.49 | | 42 | | | 4.50 | 5.41 |
| JUN C | | | 0.33 | i | | 2.53 | | 80 | | | 26.50 | 31.83 |
| | Jse 30 Mi/ | /Ac | 0.55 | ' | | 7.43 | | 00 | | | 20.30 | 7.43 |
| | | t at 8.0% | | | | 7.45 | | | | | 4.85 | 4.85 |
| | sessment | L at 0.0% | | | ** | | | | | | 4.03 | 4.03 |
| Macer As | | | | | | | | | | | | |
| Total | 5.0 | 32.0 | 2.79 | 1 | 6.66 | 18.40 | 21. | 24 | 86.93 | 22.68 | 44.17 | 200.09 |
| % | | | | İ | 3.32 | 9.19 | 10. | 61 | 43.45 | 11.33 | 22.07 | 100.00 |
| TOTAL RE | SOURCES RE | EQUIREMENTS | (/Acre) | 1 | OTAL ENERGY RE | OUIREMENTS (/ | 'Acre) | | | | | |
| Total | | L67.4 lbs | , | | Diesel Fuel | ~ ,, | 5.7 | Gal | | | | |
| Total | P | 50.0 lbs | | | Regular Gas | | 0.0 | Gal | | | | |
| Total | | 0.0 lbs | | | NonLead Gas | | 3.0 | Gal | | | | |
| Total | | 2.7 Hrs | | | | | | | | | | |
| Total | | 32.0 AI | | | All Direct Er | nergy | 1.1 | M B | יט | | | |
| EOUT PMEN | IT RE∩IITREN | MENTS (/Acre | 1 | | | | | | | | | |
| - | or, 100 PTC | • | • | 75 Hrs | Fertilizer Br | roadcaster T | 'owed | 0 18 | Hrs I | ractor, 150 PTO | нь мемо | 0.17 Hrs |
| | Disk, 18 | , | | | Tractor, 125 | | | | | Border Disk, Heav | | 0.11 Hrs |
| | Drill, 16' | | | 23 Hrs | Tractor, 80 | | | | | Rowbuck, 10' | y Ducy | 0.11 Hrs |
| | Disk, 13. | | | | Rotary Hoe, 4 | | , | | | Pickup Truck, 1/2 | у тор | 1.00 Hrs |
| | . DISK, 13. | . 5 | 0. | . US HIS | Rotary Hoe, 4 | ł KW | | 0.30 |) HIS E | rickup iruck, 1/2 | 2 1011 | 1.00 Hrs |
| | | MENTS (/Acre | • | | | | | | | | | |
| | 00, Dry | | | .00 Lb | Barley Sd, Ce | | | 90.00 | | Nater, District | | 32.00 AI |
| Dicamb | a | | 1. | 00 Pt | 32-00-00, URA | N 32, Lqd | | 36.00 |) Ga | | | |
| LABOR RE | QUIREMENTS | S(/Acre) | | | | | | | | | | |
| Tracto | or | | 1. | 17 Hrs | Other | | | 0.03 | Hrs I | Trrigators | | 1.60 Hrs |

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

^{**} A water assessment charge of \$20.34/Acre included as ownership cost in Table 9B.

Table 9E Schedule of Operations; Barley, 1996 Page 40

WATER SOURCE:

SRP

CROP: Barley ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam YIELD: 4,900.0 Lb/Acre 10/03/96 AREA: Salt River Project PREVIOUS CROP: Cotton, Upland DATE: First Equipment/Custom Oper. Job Rate — Material Use & Cost —— Service Cost Labor Self-Prop./Implem. Acres/Hr \$/Unit No. Month Times Operation Name Appl. Rate \$/Unit Type 1 Dec 1.0 Apply Fert/Ground 100 Fertilizer Broadcaster, 5.00 16-20-00, Dry 250.00 Lb 250.00 Tn Tractor 2 Dec 1.0 Disk 150 Offset Disk, 18' 5.30 Tractor Dec 1.0 Make Borders 125 Border Disk, Heavy Duty 8.00 Tractor 1.0 Plant 100 Grain Drill, 16' 4.00 Barley Sd, Cert Dec 90.00 Lb 24.00 CW Tractor 80 Rowbuck, 10' 5 Dec 1.0 Buck Rows 40.00 Tractor

| 6 | Dec | 1.0 Irrigate | | 2.50 Water, District | 8.00 AI | 0.00 AF | Irrigator |
|----|------|--------------------------|-------------------------|----------------------|----------|-----------|-----------|
| 7 | Jan | 1.0 Apply Herbicide/Air | CST Air Spray, 5 Gal Mi | Dicamba | 1.00 Pt | 85.76 Ga | 8.32 Ac |
| 8 | Feb | 2.0 Irrigate/Run Fertil: | iz | 3.33 Water, District | 6.00 AI | 0.00 AF | Irrigator |
| | | | | 32-00-00, URAN 32, | 18.00 Ga | 205.00 Tn | |
| 9 | Apr | 2.0 Irrigate | | 3.33 Water, District | 6.00 AI | 0.00 AF | Irrigator |
| 10 | May | 1.0 Prepare Ends | 100 Offset Disk, 13.5' | 20.00 | | | Tractor |
| 11 | May | 1.0 Combine Harvest | CST Combine Barley | | | | 17.50 Ac |
| 12 | Mass | 1 O Haul Custom | CST Haul Grain | | | | 0 25 CW |

3.00

1.00

100 Rotary Hoe, 4 Rw

FARM: Maricopa County Farm

COUNTY: Maricopa

13

Jun

1.0 Disk Residue

Pickup Use 30 Mi/Ac

ARIZONA COOPERATIVE EXTENSION Department of Ag & Resource Economics The University of Arizona F 5/37

TILLAGE: Conventional

Other

Tractor

Pickup Truck, 1/2 Ton * NOTE: Machine times, labor times, and material rates are for one time over the designated acreage.

^{**} A water assessment charge of \$20.34/Acre included as ownership cost in Table 9B.