COUNTY: Maricopa FARM: Maricopa Vegetable WATER SOURCE: Roosevelt Irrigation TILLAGE: Double Crop CROP: Turnips IRRIGATION SYSTEM: Flood Furrow ACRES: 1.0 SOIL: Sandy-Loam AREA: Roosevelt ID YIELD: 513.0 Ct / Acre PREVIOUS CROP: Safflower DATE: 8/9/99

| ltem | Unit | Quantity | Price/ Unit | Budgeted /Acre | Total /Acre | Your Farm Budget |
|---|--|--------------------|----------------|------------------------|--------------------------|---------------------|
| INCOME Turnips | Crtn | 513.00 | \$7.16 | \$3,673.08 | \$3,673.08 | |
| CASH LAND PREPARATION AND G Paid Labor (including benefits) Tractor/Self Propelled Irrigation Other/ Contract | GROWING EXPENSES (inc | cluding sales tax) | | 48.26 81.70 4.87 | 134.83 | |
| Chemicals and Custom Applicatio Fertilizer Insecticide Herbicide | ns | | | 63.59 12.97 3.30 | 79.86 | |
| Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance | | | | 16.30 25.75 | 42.04 | |
| Irrigation Water (excluding labor) Water Assessment (See Note Bel | ow) ** | | | | 80.50 | |
| Other Purchased Inputs & Seed/Transplants Other Services and Rentals | | | | 39.93 3.00 | 42.93 | |
| | TOTAL CASH LAND PRE | PARATION AND GROW | ING EXPENSES | | 380.15 | |
| CASH HARVEST AND POST HARV | EST EXPENSES | | | | | |
| Paid Labor (including benefits) Other/Contract | | | | 97.48 | 97.48 | |
| Custom Harvest/Post Harvest Other Materials | | | | | 896.00 388.79 | |
| | TOTAL HARVEST AND P | OST HARVEST EXPEN | SE | | 1382.27 | |
| OPERATING OVERHEAD PICKU | P USE | | | | 7.64 | |
| OPERATING INTEREST AT 10.0% | | | | | 3.90 | |
| | TOTAL CASH OPERATIN RETURNS OVER CASH | | FS | | \$1,773.97 \$1,899.11 | |
| | | 21 = 10 2 = 10 | | | Ψ.,σσσ | |

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

^{**} A water assessment charge of \$7.50 per Acre is included as an ownership cost in Table B.

COUNTY:Maricopa FARM: Maricopa Vegetable WATER SOURCE: Roosevelt Irrigation TILLAGE: Double Crop CROP: Turnips ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Roosevelt ID YIELD: 513.0 Ct / Acre PREVIOUS CROP: Safflower DATE: 8/9/99

| | CASH COST BASI | S (\$/ACRE) | TOTAL COST BASIS (\$/ACRE) | | | | |
|--|--------------------------|----------------------------|----------------------------|----------------------------|--|--|--|
| ltem | Income and Costs | Net Returns | Income and Costs | Net Returns | | | |
| TOTAL INCOME at \$7.16 / Ct | \$3,673.08 | | \$3,673.08 | | | | |
| TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES | \$1,773.97 | \$1,899.11 | \$1,773.97 | \$1,899.11 | | | |
| 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.) | 4.74 88.70 53.22 | | 4.74 88.70 53.22 | | | | |
| Total Cash Overhead Expenses | 146.65 | | 146.65 | | | | |
| Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES | 1,920.62 | \$1,752.46 | 1,920.62 | \$1,752.46 | | | |
| CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles | | | 26.46 11.12 | | | | |
| Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK | | | 37.58 > | \$1,714.88 | | | |
| Land Cost / Rent or Lease Water Assessment | 160.00 7.50 | | 160.00 7.50 | | | | |
| Total Land Costs RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK | | \$1,584.96 | 167.50 | \$1,547.38 | | | |
| Management Services (8% of Total Operation Expenses) | | | 141.92 | | | | |
| TOTAL OWNERSHIP COST | 314.15 | | 493.66 | | | | |
| TOTAL COST RETURNS TO CAPITAL, MANAGEMENT AND RISK | \$2,088.12 \$2,088.12 | \$1,584.96 | \$2,267.62 | | | | |
| RETURNS TO RISK (PROFITS) | | | > | \$1,405.46 | | | |
| BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST | | \$3.46 \$0.61 \$4.07 | | \$3.46 \$0.96 \$4.42 | | | |

COUNTY: Maricopa FARM: Maricopa Vegetable WATER SOURCE: Roosevelt Irrigation TILLAGE: Double Crop CROP: Turnips ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Roosevelt ID YIELD: 513.0 Ct / Acre PREVIOUS CROP: Safflower DATE: 8/9/99

| | First | | Hours * | | | | | | | | Tot. Cash | |
|-----|---------------------------------|------------------------|---------|-------|--------------|----------|-----------|-------------|---------------|-------|-----------|-------|
| No. | Month | Operation | Machine | Labor | Fuel/Rps. | Labor C | ust/Serv. | Materials | Total | Times | Expenses | Class |
| 1 | Oct | Disk | 0.150 | 0.167 | 2.39 | 1.63 | | | 4.02 | 2.0 | 8.04 | L |
| 2 | Oct | Plow | 0.300 | 0.333 | 4.65 | 3.25 | | | 7.90 | 1.0 | 7.90 | L |
| 3 | Oct | Landplane | 0.225 | 0.250 | 2.82 | 2.44 | | | 5.25 | 1.0 | 5.25 | L |
| 4 | Oct | List | 0.225 | 0.250 | 1.97 | 2.44 | | | 4.41 | 1.0 | 4.41 | L |
| 5 | Oct | Soil Fertility | | | | | 3.00 | | 3.00 | 1.0 | 3.00 | G |
| 6 | Oct | Apply Fert/Ground | 0.300 | 0.333 | 3.35 | 3.25 | | 28.26 | 34.86 | 1.0 | 34.86 | G |
| 7 | Oct | Apply Herbicide/Ground | 0.225 | 0.250 | 1.18 | 2.44 | | 3.30 | 6.91 | 1.0 | 6.91 | G |
| 8 | Oct | Mulch | 0.225 | 0.250 | 2.80 | 2.44 | | | 5.24 | 1.0 | 5.24 | L |
| 9 | Nov | Plant | 0.450 | 1.000 | 3.91 | 9.75 | | 39.93 | 53.59 | 1.0 | 53.59 | L |
| 10 | Nov | Buck Rows | 0.045 | 0.050 | 0.19 | 0.49 | | | 0.68 | 1.0 | 0.68 | G |
| 11 | Nov | Irrigate | | 2.381 | | 23.21 | | 23.00 | 46.21 | 1.0 | 46.21 | G |
| 12 | Nov | Irrigate | | 1.000 | | 9.75 | | 9.58 | 19.33 | 6.0 | 115.99 | G |
| 13 | Nov | Cultivate | 0.450 | 0.500 | 2.92 | 4.87 | | | 7.79 | 3.0 | 23.38 | G |
| 14 | Nov | Apply Insect./Ground | 0.180 | 0.200 | 0.94 | 1.95 | | 6.48 | 9.38 | 2.0 | 18.75 | G |
| 15 | Nov | Apply Fert/Ground | 0.300 | 0.333 | 3.35 | 3.25 | | 35.33 | 41.93 | 1.0 | 41.93 | G |
| 16 | Jan | Harvest 640 Ct | | | | | 768.00 | | 768.00 | 1.0 | 768.00 | Н |
| 17 | Jan | Haul, Custom 640 Ct | | | | | 128.00 | | 128.00 | 1.0 | 128.00 | Н |
| 18 | Jan | Process/Cooling 640 Ct | | 10.00 | | 97.48 | | 388.79 | 486.27 | 1.0 | 486.27 | Р |
| 19 | Jan | Disk Residue 640 Ct | 0.150 | 0.167 | 2.39 | 1.63 | | | 4.02 | 1.0 | 4.02 | L |
| | | Pickup Use30 Mi/Acre | 1.000 | | 7.64 | | | | | | 7.64 | |
| | Operating Interest at 10.0 3.90 | | | | | | | | | | 3.90 | |
| | | | | ТОТ | TAL CASH OPE | RATING E | XPENSES | (includes a | all times ove | er): | 1773.97 | 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 \$7.50 per Acre is included as an ownership cost in Table B.

| OPERATING COST SUMMARY E | BY CLASS | SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE) | | | | | | | | | |
|----------------------------|------------------|--|-------|----------|----------|----------|----------|----------|------------------|--|--|
| Land Preparation (L) | 88.44 | Prices | | - 25% | - 10% | Budgeted | + 10% | + 25% | · | | |
| Growing (G) Harvest (H) | 291.71 896.00 | Yields | | \$5.37 | \$6.44 | \$7.16 | \$7.88 | \$8.95 | Break-even Price | | |
| Post Harvest (P) | 486.27 | - 25% | 384.8 | 637.25 | 1,050.47 | 1,325.95 | 1,601.43 | 2,014.65 | 3.71 | | |
| Marketing (M) | 0.00 | - 10% | 461.7 | 843.13 | 1,338.99 | 1,669.57 | 2,000.15 | 2,496.01 | 3.54 | | |
| Operating Overhead (O) | 11.54 | Budgeted | 513.0 | 980.38 | 1,531.34 | 1,898.65 | 2,265.96 | 2,816.92 | 3.46 | | |
| | | + 10% | 564.3 | 1,117.63 | 1,723.69 | 2,127.73 | 2,531.77 | 3,137.83 | 3.39 | | |
| Total (T) | \$1,773.97 | + 25% | 641.3 | 1,323.51 | 2,012.22 | 2,471.35 | 2,930.49 | 3,619.19 | 3.31 | | |
| | | Break-even | ⁄ield | 146.57 | 104.59 | 87.82 | 75.68 | 62.69 | | | |

COUNTY:Maricopa CROP: Turnips FARM: Maricopa Vegetable WATER SOURCE: Roosevelt Irrigation TILLAGE: Double Crop ACRES: IRRIGATION SYSTEM: Flood Furrow 1.0 SOIL: Sandy-Loam AREA: Roosevelt ID YIELD: 513.0 Ct / Acre PREVIOUS CROP: Safflower DATE: 8/9/99

| | | Water | | Operating Costs (\$/ACRE *) | | | | | | | | | |
|---|-----------------------|------------------|----------------------|--|-----------------------|----------------|-------------------------|----------------------|--------------------|--------------|--|--|--|
| Month * | Number Irrigations | Applied (inches) | Total Labor (Hrs) | Purchased Water | Fuel, Oil and Repairs | Labor | Chemicals | Other Purchases | Services | Total | | | |
| | | (| | | | | | | | | | | |
| OCT P | | | 2.00 | | 21.55 | 19.50 | 31.56 | | 3.00 | 75.61 | | | |
| NOV P | 3.0 | 22.0 | 7.16 | 42.17 | 15.18 | 69.84 | 48.30 | 39.93 | | 215.41 | | | |
| DEC P | 3.0 | 15.0 | 3.50 | 28.75 | 2.92 | 34.12 | | | | 65.79 | | | |
| JAN C | 1.0 | 5.0 | 11.17 | 9.58 | 2.39 | 108.86 | | 388.79 | 896.00 | 1405.63 | | | |
| Pickup Use3 | | | | | 7.64 | | | | 3.90 | 7.64 3.90 | | | |
| Water Asses | terest at 10.0 | , | | ** | | | | | 3.90 | 3.90 | | | |
| Water Asses | SHICH | | | | | | | | | | | | |
| Total | 7.0 | 42.0 | 23.83 | 80.50 | 49.68 | 232.32 | 79.86 | 428.72 | 902.90 | 1773.97 | | | |
| % | | | | 4.54 | 2.80 | 13.10 | 4.50 | 24.17 | 50.90 | 100.00 | | | |
| TOTAL RES | OURCE REC | UIREMENT | S (per Acre) | TOTAL ENER | GY REQUIRE | MENTS (per A | Acre) | | | | | | |
| Total N | 00.102.120 | 45.1 | G (po. 7.0.0) | Diesel Fu | | 20.2 Gal | , | | | | | | |
| Total P | | 153.5 | | Unleaded | | 3.0 Gal | | | | | | | |
| Total K | | 0.0 | | All Direct | | 3.2 M E | | | | | | | |
| Total Labo | or | 23.8 | | | 0, | | | | | | | | |
| Total Water | er | 42.0 | | | | | | | | | | | |
| ======================================= | | 451150 / | | | | | | | | | | | |
| | T REQUIREM | \ . | | Cautilinas Inicates 4 | Da 0 | 00 11- | Landalana | 40IV 45I | 0.00.11- | | | | |
| Lister, 5 E | , Sweep, 4 R | | 35 Hr 22 Hr | Fertilizer Injector, 4 Moldboard Plow, 5- | | 60 Hr 30 Hr | Landplane Offset Dis | | 0.22 Hr 0.45 Hr | | | | |
| | uck, 1/2 Ton | | 22 FI 00 Hr | Planter, Stanhay, 2 | | 30 П 45 Hr | | k, 16 Icher, 6 Rw | 0.45 Hr | | | | |
| Rowbuck, | | | 05 Hr | Saddle Tk Sprayer, | | 59 Hr | | 0 PTO HP, | 0.63 Hr | | | | |
| | 70 PTO HP, | | 80 Hr | Tractor, 100 PTO H | | 05 Hr | | 50 PTO HP. | 0.98 Hr | | | | |
| | | | | | | | | | | | | | |
| MATERIALS | REQUIREM | ENT (per A | cre) | | | | | | | | | | |
| 10-34-00, | | | 60 [°] Ga | Boxes & Supplies | 387. | 00 Ct | Line subst | itute | 8.00 Ga | | | | |
| Methomyl | | 2. | 00 Pt | Trifluralin | 1. | 00 Pt | Turnip Sd | (Hyb) | 1.50 Lb | | | | |
| Water, Di | strict | 42. | 00 AI | | | | | | | | | | |
| LABOR REC | | (nor Aors) | | | | | | | | | | | |
| Irrigators | QUIREMENT | | 38 Hr | Other | 0 | 50 Hr | Packer-Lo | ador | 10.00 Hr | | | | |
| Tractor | | | эо пі 95 Hr | Outer | U | 50 ПI | racket-L0 | auti | 10.00 П | | | | |
| Hacioi | | ٦. | 00 111 | | | | | | | | | | |

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

^{**} A water assessment charge of \$7.50 per Acre is included as an ownership cost in Table B.

COUNTY:Maricopa CROP: Turnips FARM: Maricopa Vegetable WATER SOURCE: Roosevelt Irrigation TILLAGE: Double Crop ACRES: IRRIGATION SYSTEM: Flood Furrow 1.0 SOIL: Sandy-Loam AREA: Roosevelt ID YIELD: 513.0 Ct / Acre PREVIOUS CROP: Safflower DATE: 8/9/99

| No | First Month | Timos | Operation | Equipment/ Custom Oper HP Self-Prop./ Implement | Job Rate Acres/Hr | | al Use and C | | e \$ / Un | | Service Cost \$ / Unit | Labor Type |
|-----|----------------|---------|------------------------|---|----------------------|------------------|--------------|------|-----------|----|---------------------------|---------------|
| INC | 7.IVIOTILIT | Tillies | Operation | THE Self-Frop./ Implement | ACIES/III | Name | друі. | Ivai | .e ψ/ OΠ | | ψ7 OIIIt | туре |
| 1 | Oct | 2.0 | Disk | 150 Offset Disk, 18' | 6.00 | | | | | | | Tractor |
| 2 | Oct | 1.0 | Plow | 150 Moldboard Plow, 5-16 2 | 3.00 | | | | | | | Tractor |
| 3 | Oct | 1.0 | Landplane | 150 Landplane 12'X 45' | 4.00 | | | | | | • | Tractor |
| 4 | Oct | 1.0 | List | 100 Lister, 5 Bottom | 4.00 | | | | | | | Tractor |
| 5 | Oct | 1.0 | Soil Fertility | CST Soil Analysis (Surface) | | | | | | | 3.00 Ac | |
| 6 | Oct | 1.0 | Apply Fert/Ground | 100 Fertilizer Injector, 4 Row | 3.00 | 10-34-00, Lqd | 17.60 | Ga | 266.40 | Tn | • | Tractor |
| 7 | Oct | 1.0 | Apply Herbicide/Ground | 50 Saddle Tk Sprayer, 2 Tk 8 | 4.00 | Trifluralin | 1.00 | Pt | 24.95 | Ga | • | Tractor |
| | | | | | | Line substitute | 8.00 | Ga | 0.00 | Ga | | |
| 8 | Oct | 1.0 | Mulch | 100 Power Mulcher, 6 Rw | 4.00 | | | | | | • | Tractor |
| 9 | Nov | 1.0 | Plant | 70 Planter, Stanhay, 2 Row | 2.00 | Turnip Sd (Hyb) | 1.50 | Lb | 25.17 | Lb | | Tractor |
| | | | | | | | | | | | (| Other |
| 10 | Nov | 1.0 | Buck Rows | 50 Rowbuck, 10' | 20.00 | | | | | | | Tractor |
| 11 | Nov | 1.0 | Irrigate | | 0.42 | Water, District | 12.00 | ΑI | 23.00 | ΑF | | Irrigators |
| 12 | Nov | 6.0 | Irrigate | | 1.00 | Water, District | 5.00 | ΑI | 23.00 | ΑF | | Irrigators |
| 13 | Nov | 3.0 | Cultivate | 70 Cultivator, Sweep, 4 Rw | 2.00 | | | | | | | Tractor |
| 14 | Nov | 2.0 | Apply Insect./Ground | 50 Saddle Tk Sprayer, 2 Tk 8 | 5.00 | Methomyl | 1.00 | Pt | 49.05 | Ga | • | Tractor |
| 15 | Nov | 1.0 | Apply Fert/Ground | 100 Fertilizer Injector, 4 Row | 3.00 | 10-34-00, Lqd | 22.00 | Ga | 266.40 | Tn | | Tractor |
| 16 | Jan | 1.0 | Harvest | CST Harvest Turnips | | | | | | | 1.20 Ct | |
| 17 | Jan | 1.0 | Haul, Custom | CST Haul Turnips | | | | | | | 0.20 Ct | |
| 18 | Jan | 1.0 | Process/Cooling | | 0.10 | Boxes & Supplies | 387.00 | Ct | 0.95 | Ct | I | Packer-Loa |
| 19 | Jan | 1.0 | Disk Residue | 150 Offset Disk, 18' | 6.00 | | | | | | | 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.