

**Table 19A. Income and Cash Operating Summary; Watermelon Seedless, 2001**

COUNTY: Maricopa                      FARM: Maricopa Veg                      WATER SOURCE: Roosevelt Water                      TILLAGE: Conventional  
 CROP: Watermelons                      ACRES: 1.0                      IRRIGATION SYSTEM: Flood Furrow                      SOIL: Sandy-loam  
 AREA: Roosevelt WCD                      YIELD: 16.3 Tn / Acre                      PREVIOUS CROP: Wheat, Winter                      DATE: 9/11/01

| Item   | Unit | Quantity | Price/<br>Unit | Budgeted<br>/Acre | Total<br>/Acre | Your Farm<br>Budget |
|--|------|----------|----------------|-------------------|----------------|---------------------|
| INCOME -> Melons   | Ton  | 16.30    | \$141.60       | \$2,308.08        | \$2,308.08     | _____               |
| CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax) |      |          |                |                   |                |                     |
| Paid Labor (including benefits)                                  |      |          |                |                   | 190.86         | _____               |
| Tractor/Self Propelled   |      |          |                | 43.96             |                | _____               |
| Hand   |      |          |                | 76.69             |                | _____               |
| Irrigation   |      |          |                | 63.72             |                | _____               |
| Other/ Contract  |      |          |                | 6.50              |                | _____               |
| Chemicals and Custom Applications                                |      |          |                |                   | 160.08         | _____               |
| Fertilizer   |      |          |                | 75.88             |                | _____               |
| Insecticide  |      |          |                | 41.68             |                | _____               |
| Herbicide  |      |          |                | 16.88             |                | _____               |
| Other Chemicals  |      |          |                | 25.64             |                | _____               |
| Farm Machinery and Vehicles                                      |      |          |                |                   | 45.12          | _____               |
| Diesel Fuel  |      |          |                | 17.15             |                | _____               |
| Gasoline   |      |          |                | 1.82              |                | _____               |
| Repairs and Maintenance  |      |          |                | 26.15             |                | _____               |
| Irrigation Water (excluding labor)                               |      |          |                |                   | 75.00          | _____               |
| Water Assessment (See Note Below) **                             |      |          |                |                   |                | _____               |
| Other Purchased Inputs &   |      |          |                |                   | 811.97         | _____               |
| Seed/Transplants   |      |          |                | 332.96            |                | _____               |
| Other Services and Rentals                                       |      |          |                | 93.00             |                | _____               |
| Other Materials  |      |          |                | 386.02            |                | _____               |
| TOTAL CASH LAND PREPARATION AND GROWING EXPENSES                 |      |          |                |                   | 1283.03        | _____               |
| CASH HARVEST AND POST HARVEST EXPENSES                           |      |          |                |                   |                |                     |
| Paid Labor (including benefits)                                  |      |          |                |                   | 201.83         | _____               |
| Tractor/Self Propelled   |      |          |                | 116.98            |                | _____               |
| Other/Contract   |      |          |                | 84.85             |                | _____               |
| Farm Machinery and Vehicles                                      |      |          |                |                   | 91.77          | _____               |
| Diesel Fuel  |      |          |                | 34.50             |                | _____               |
| Repairs and Maintenance  |      |          |                | 57.26             |                | _____               |
| TOTAL HARVEST AND POST HARVEST EXPENSE                           |      |          |                |                   | 293.60         | _____               |
| OPERATING OVERHEAD -> PICKUP USE                                 |      |          |                |                   | 15.25          | _____               |
| OPERATING INTEREST AT 10.0%                                      |      |          |                |                   | 35.64          | _____               |
| TOTAL CASH OPERATING EXPENSES                                    |      |          |                |                   | \$1,627.53     | _____               |
| RETURNS OVER CASH OPERATING EXPENSES                             |      |          |                |                   | \$680.55       | _____               |

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

\*\* A water assessment charge of \$17.00 per Acre is included as an ownership cost in Table B.

**Table 19B. Allocations of Ownership Costs; Watermelon Seedless, 2001**

COUNTY: Maricopa      FARM: Maricopa Veg      WATER SOURCE: Roosevelt Water      TILLAGE: Conventional  
 CROP: Watermelons      ACRES: 1.0      IRRIGATION SYSTEM: Flood Furrow      SOIL: Sandy-loam  
 AREA: Roosevelt WCD      YIELD: 16.3 Tn / Acre      PREVIOUS CROP: Wheat, Winter      DATE: 9/11/01

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| Item  | -- CASH COST BASIS (\$/ACRE) -- |             | -- TOTAL COST BASIS (\$/ACRE) -- |             |
|---|---------------------------------|-------------|----------------------------------|-------------|
|   | Income and Costs                | Net Returns | Income and Costs                 | Net Returns |
| TOTAL INCOME at \$141.60 / Tn                               | \$2,308.08                      |             | \$2,308.08                       |             |
| TOTAL OPERATING EXPENSES                                    | \$1,627.53                      |             | \$1,627.53                       |             |
| RETURN OVER CASH OPERATING EXPENSES                         |                                 | \$680.55    |                                  | \$680.55    |
| CASH OVERHEAD EXPENSES                                      |                                 |             |                                  |             |
| Taxes, Housing and Insurance, Farm Machinery                | 11.36                           |             | 11.36                            |             |
| General and Office Overhead ( 5.0% of Total Operating Exp.) | 81.38                           |             | 81.38                            |             |
| General Farm Maintenance ( 3.0% of Total Operating Exp.)    | 48.83                           |             | 48.83                            |             |
| Total Cash Overhead Expenses                                | 141.56                          |             | 141.56                           |             |
| Total Cash Operating and Overhead Cost                      | 1,769.09                        |             | 1,769.09                         |             |
| RETURNS OVER CASH OPER. AND OVER. EXPENSES                  |                                 | \$538.99    |                                  | \$538.99    |
| CAPITAL ALLOCATIONS (100% Equity)                           |                                 |             |                                  |             |
| Capital Replacement, Machinery and Vehicles                 |                                 |             | 70.19                            |             |
| Interest on Equity, Machinery and Vehicles                  |                                 |             | 19.27                            |             |
| Total Capital Allocations                                   |                                 |             | 89.46                            |             |
| RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->        |                                 | \$538.99    |                                  |             |
| RETURNS TO LAND, MANAGEMENT AND RISK ----->                 |                                 |             |                                  | \$449.53    |
| Land Cost / Rent or Lease                                   | 200.00                          |             | 200.00                           |             |
| Water Assessment **   | 17.00                           |             | 17.00                            |             |
| Total Land Costs  | 217.00                          |             | 217.00                           |             |
| RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->              |                                 | \$321.99    |                                  |             |
| RETURNS TO MANAGEMENT AND RISK ----->                       |                                 |             |                                  | \$232.53    |
| Management Services ( 8% of Total Operation Expenses)       |                                 |             | 130.20                           |             |
| TOTAL OWNERSHIP COST  | 358.56                          |             | 578.22                           |             |
| TOTAL COST  | \$1,986.09                      |             | \$2,205.75                       |             |
| RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->              |                                 | \$321.99    |                                  |             |
| RETURNS TO RISK (PROFITS) ----->                            |                                 |             |                                  | \$102.33    |
| Item  | -- CASH COST BASIS (\$/ACRE) -- |             | -- TOTAL COST BASIS (\$/ACRE) -- |             |
|   | Income and Costs                | Net Returns | Income and Costs                 | Net Returns |
| BREAK-EVEN PRICE TO COVER OPERATING COST ( PER Lb )         |                                 | \$99.85     |                                  | \$99.85     |
| BREAK-EVEN PRICE TO COVER OWNERSHIP COST                    |                                 | \$22.00     |                                  | \$35.47     |
| BREAK-EVEN PRICE TO COVER TOTAL COST                        |                                 | \$121.85    |                                  | \$135.32    |

**Table 19C. Variable Operating Costs; Watermelon Seedless, 2001**

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Roosevelt Water TILLAGE: Conventional  
 CROP: Watermelons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-loam  
 AREA: Roosevelt WCD YIELD: 16.3 Tn / Acre PREVIOUS CROP: Wheat, Winter DATE: 9/11/01

| No.  | First Month Operation |                            | ---- Hours * ----<br>Machine Labor |           | ---- Operating Costs (\$/ACRE *) Per Operation ---- |       |       |        |        | Tot. Cash | Class   |   |
|--|-----------------------|----------------------------|------------------------------------|-----------|---|-------|-------|--------|--------|-----------|---------|---|
|  | Fuel/Rps.             | Labor                      | Cust/Serv.                         | Materials | Total   | Times |       |        |        |           |         |   |
| 1  | Dec                   | Rip                        | 0.450                              | 0.500     | 6.80  | 4.87  |       |        | 11.67  | 0.5       | 5.84    | L |
| 2  | Dec                   | Disk                       | 0.225                              | 0.250     | 3.97  | 2.44  |       |        | 6.40   | 2.0       | 12.81   | L |
| 3  | Dec                   | Laser Level                | 0.450                              | 0.500     | 6.62  | 4.87  |       |        | 11.50  | 0.5       | 5.75    | L |
| 4  | Dec                   | List                       | 0.300                              | 0.333     | 3.25  | 3.25  |       | 16.88  | 23.37  | 1.0       | 23.37   | L |
| 5  | Jan                   | Apply Fert/Ground          | 0.300                              | 0.333     | 2.48  | 3.25  |       | 32.37  | 38.10  | 1.0       | 38.10   | G |
| 6  | Jan                   | Soil Fertility             |                                    |           |   |       | 3.00  |        | 3.00   | 1.0       | 3.00    | G |
| 7  | Jan                   | Plant                      | 0.300                              | 0.666     | 2.88  | 6.49  |       | 332.96 | 342.32 | 1.0       | 342.32  | L |
| 8  | Jan                   | Apply Mulch                | 0.150                              | 0.333     | 0.89  | 3.25  |       | 386.02 | 390.15 | 1.0       | 390.15  | G |
| 9  | Feb                   | Buck Rows                  | 0.045                              | 0.050     | 0.19  | 0.49  |       |        | 0.68   | 5.0       | 3.41    | G |
| 10   | Feb                   | Irrigate                   |                                    | 0.667     |   | 6.50  |       | 7.50   | 14.00  | 8.0       | 112.02  | G |
| 11   | Feb                   | Disk Ends                  | 0.045                              | 0.050     | 0.48  | 0.49  |       |        | 0.97   | 4.0       | 3.88    | G |
| 12   | Mar                   | Remove Mulch               | 0.150                              | 0.333     | 1.24  | 3.25  |       |        | 4.49   | 1.0       | 4.49    | G |
| 13   | Mar                   | Cultivate                  | 0.257                              | 0.286     | 1.71  | 2.79  |       |        | 4.49   | 4.0       | 17.98   | G |
| 14   | Mar                   | Hand Weeding               |                                    |           |   |       | 75.00 |        | 75.00  | 1.0       | 75.00   | G |
| 15   | Apr                   | Apply Fert/Ground          | 0.300                              | 0.333     | 2.48  | 3.25  |       | 31.53  | 37.26  | 1.0       | 37.26   | G |
| 16   | Apr                   | Pollinate                  |                                    |           |   |       | 15.00 |        | 15.00  | 1.0       | 15.00   | G |
| 17   | Apr                   | Turn Vines                 | 0.100                              | 5.000     | 2.05  | 38.34 |       |        | 40.39  | 2.0       | 80.78   | G |
| 18   | Apr                   | Apply Fungicide/Air        |                                    |           |   |       | 4.24  | 21.40  | 25.64  | 1.0       | 25.64   | G |
| 19   | Apr                   | Irrigate/Run Fertilizer    |                                    | 0.400     |   | 3.90  |       | 8.99   | 12.89  | 3.0       | 38.68   | G |
| 20   | Apr                   | Apply Insecticide/Air      |                                    |           |   |       | 9.75  | 16.09  | 20.84  | 2.0       | 41.68   | G |
| 21   | Jun                   | Harvest, Load & Haul       | 3.600                              | 8.000     | 30.59   | 67.28 |       |        | 97.87  | 3.0       | 293.60  | H |
| 22   | Jul                   | Disk Residue               | 0.225                              | 0.250     | 3.43  | 2.44  |       |        | 5.86   | 1.0       | 5.86    | L |
|  |                       | Pickup Use 60 Mi/Acre      | 2.000                              |           | 15.25   |       |       |        |        |           | 15.25   |   |
|  |                       | Operating Interest at 10.0 |                                    |           |   |       |       | 35.64  |        |           | 35.64   |   |
| TOTAL CASH OPERATING EXPENSES (includes all times over): |                       |                            |                                    |           |   |       |       |        |        |           | 1627.53 | 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 \$17.00 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS

|                        |            |
|------------------------|------------|
| Land Preparation (L)   | 395.95     |
| Growing (G)            | 887.09     |
| Harvest (H)            | 293.60     |
| Post Harvest (P)       | 0.00       |
| Marketing (M)          | 0.00       |
| Operating Overhead (O) | 50.89      |
| Total (T)              | \$1,627.53 |

SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE)

| Prices ->        |      | - 25%    | - 10%    | Budgeted | + 10%    | + 25%    |                  |
|------------------|------|----------|----------|----------|----------|----------|------------------|
| Yields           |      | \$106.20 | \$127.44 | \$141.60 | \$155.76 | \$177.00 | Break-even Price |
| - 25%            | 12.2 | -229.69  | 29.97    | 203.08   | 376.18   | 635.84   | 124.99           |
| - 10%            | 14.7 | -14.07   | 297.52   | 505.25   | 712.98   | 1,024.57 | 107.16           |
| Budgeted         | 16.3 | 129.68   | 475.89   | 706.70   | 937.50   | 1,283.72 | 98.24            |
| + 10%            | 17.9 | 273.42   | 654.26   | 908.14   | 1,162.03 | 1,542.87 | 90.95            |
| Break-even Yield |      | 14.83    | 11.95    | 10.58    | 9.49     | 8.23     |                  |

**Table 19D. Resource and Cash Flow Requirements; Watermelon Seedless, 2001**

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Roosevelt Water TILLAGE: Conventional  
 CROP: Watermelons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-loam  
 AREA: Roosevelt WCD YIELD: 16.3 Tn / Acre PREVIOUS CROP: Wheat, Winter DATE: 9/11/01

| Month *                    | Number Irrigations | Water Applied (inches) | Total Labor (Hrs) | Operating Costs (\$/ACRE *) |                       |               |               |                 |               |                |
|----------------------------|--------------------|------------------------|-------------------|-----------------------------|-----------------------|---------------|---------------|-----------------|---------------|----------------|
|                            |                    |                        |                   | Purchased Water             | Fuel, Oil and Repairs | Labor         | Chemicals     | Other Purchases | Services      | Total          |
| DEC P                      |                    |                        | 1.33              |                             | 17.89                 | 12.99         | 16.88         |                 |               | 47.76          |
| JAN C                      |                    |                        | 1.38              |                             | 6.44                  | 13.48         | 32.37         | 718.97          | 3.00          | 774.26         |
| FEB C                      | 3.0                | 18.0                   | 2.10              | 22.50                       | 0.68                  | 20.48         |               |                 |               | 43.66          |
| MAR C                      | 3.0                | 18.0                   | 3.06              | 22.50                       | 5.81                  | 29.79         |               |                 | 75.00         | 133.10         |
| APR C                      | 2.0                | 8.0                    | 6.76              | 10.00                       | 8.14                  | 55.45         | 77.01         |                 | 23.99         | 174.59         |
| MAY C                      | 2.0                | 10.0                   | 6.17              | 12.50                       | 2.73                  | 49.72         | 20.08         |                 | 4.75          | 89.78          |
| JUN C                      | 1.0                | 6.0                    | 24.67             | 7.50                        | 91.77                 | 208.35        |               |                 |               | 307.62         |
| JUL C                      |                    |                        | 0.25              |                             | 3.43                  | 2.44          |               |                 |               | 5.87           |
| Pickup Use 60 Mi/Acre      |                    |                        |                   |                             | 15.25                 |               |               |                 |               | 15.25          |
| Operating Interest at 10.0 |                    |                        |                   |                             |                       |               |               |                 | 35.64         | 35.64          |
| Water Assessment           |                    |                        |                   | **                          |                       |               |               |                 |               |                |
| <b>Total</b>               | <b>11.0</b>        | <b>60.0</b>            | <b>45.71</b>      | <b>75.00</b>                | <b>152.14</b>         | <b>392.70</b> | <b>146.34</b> | <b>718.97</b>   | <b>142.38</b> | <b>1629.05</b> |
| <b>%</b>                   |                    |                        |                   | <b>4.61</b>                 | <b>9.35</b>           | <b>24.13</b>  | <b>8.99</b>   | <b>44.18</b>    | <b>8.75</b>   | <b>100.00</b>  |

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 188.7  
 Total P 115.0  
 Total Labor 45.7  
 Total Water 60.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 60.7 Gal  
 Unleaded Gas 7.4 Gal  
 All Direct Energy 9.4 M BTU

EQUIPMENT REQUIREMENTS (per Acre)

|                                    |                                 |                                |
|------------------------------------|---------------------------------|--------------------------------|
| Crew Bus, 44 Passenger 0.20 Hr     | Cultivator, Sweep, 4 Rw 1.03 Hr | Drag Scraper, 14' 0.22 Hr      |
| Fert. Side Dress Unit, 0.60 Hr     | Flat Trailer 0.15 Hr            | Laser, Complete System 0.22 Hr |
| Lister, 5 Bottom 0.30 Hr           | Mulch Layer, 1 Rw 0.15 Hr       | Offset Disk, 13.5' 0.18 Hr     |
| Offset Disk, 16.5' 0.67 Hr         | Pickup Truck, 1/2 Ton 2.00 Hr   | Rowbuck, 10' 0.23 Hr           |
| Saddle Tk Sprayer, 2 Tk 8 0.30 Hr  | Tractor, 50 PTO HP, 0.83 Hr     | Tractor, 70 PTO HP 10.80 Hr    |
| Tractor, 70 PTO HP, 1.63 Hr        | Tractor, 100 PTO HP, 0.48 Hr    | Tractor, 150 PTO HP, 0.22 Hr   |
| Tractor, 175 PTO HP, 0.90 Hr       | Transplanter, Veg, 4Row 0.30 Hr | V-Ripper, 5 Shnk 0.22 Hr       |
| Vegetable Trailer, Custom 10.80 Hr |                                 |                                |

MATERIALS REQUIREMENT (per Acre)

|                               |                                 |                             |
|-------------------------------|---------------------------------|-----------------------------|
| 18-46-00, Dry 250.00 Lb       | 32-00-00, URAN 32, Lqd 12.00 Ga | 46-00-00, Urea 46 220.00 Lb |
| Benomyl 1.00 Lb               | Bensulide 3.00 Pt               | Endosulfan 3.00 Pt          |
| Esfenvalerate 16.00 Oz        | Plastic Mulch 8.80 TF           | Water, District 60.00 Al    |
| Watermelon Transplant 9.00 Th |                                 |                             |

LABOR REQUIREMENT (per Acre)

|                       |                    |                             |
|-----------------------|--------------------|-----------------------------|
| Hand Weeders 10.00 Hr | Irrigators 6.54 Hr | Loader/Watermelons 12.00 Hr |
| Other 0.67 Hr         | Tractor 16.51 Hr   |                             |

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

\*\* A water assessment charge of \$17.00 per Acre is included as an ownership cost in Table B.

**Table 19E. Schedule of Operations; Watermelon Seedless, 2001**

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Roosevelt Water TILLAGE: Conventional  
 CROP: Watermelons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-loam  
 AREA: Roosevelt WCD YIELD: 16.3 Tn / Acre PREVIOUS CROP: Wheat, Winter DATE: 9/11/01

| First No. Month Times | Operation                   | Equipment/ Custom Oper HP Self-Prop./ Implement    | Job Rate Acre/Hr | Material Use and Cost Name       | Appl. Rate | \$ / Unit | Service Cost \$ / Unit | Labor Type    |
|-----------------------|-----------------------------|--|------------------|----------------------------------|------------|-----------|------------------------|---------------|
| Dec                   | 0.5 Rip                     | 175 V-Ripper, 5 Shnk                               | 2.00             |                                  |            |           |                        | Tractor       |
| Dec                   | 2.0 Disk                    | 175 Offset Disk, 16.5'                             | 4.00             |                                  |            |           |                        | Tractor       |
| Dec                   | 0.5 Laser Level             | 175 Drag Scraper, 14' Laser, Complete System       | 2.00             |                                  |            |           |                        | Tractor       |
| Dec                   | 1.0 List                    | 100 Lister, 5 Bottom Saddle Tk Sprayer, 2 Tk 8 Row | 3.00             | Bensulide                        | 3.00 Pt    | 42.58 Ga  |                        | Tractor       |
| Jan                   | 1.0 Apply Fert/Ground       | 50 Fert. Side Dress Unit, 4Row                     | 3.00             | 18-46-00, Dry                    | 250.00 Lb  | 245.00 Tn |                        | Tractor       |
| Jan                   | 1.0 Soil Fertility          | CST Soil Analysis (Surface)                        |                  |                                  |            |           | 3.00 Ac                |               |
| Jan                   | 1.0 Plant                   | 70 Transplanter, Veg, 4Row                         | 3.00             | Watermelon Transplant            | 9.00 Th    | 35.00 Th  |                        | Tractor       |
| Jan                   | 1.0 Apply Mulch             | 70 Mulch Layer, 1 Rw                               | 6.00             | Plastic Mulch                    | 8.80 TF    | 41.50 TF  |                        | Other Tractor |
| Feb                   | 5.0 Buck Rows               | 50 Rowbuck, 10'                                    | 20.00            |                                  |            |           |                        | Other Tractor |
| Feb                   | 8.0 Irrigate                |  | 1.50             | Water, District                  | 6.00 Al    | 15.00 AF  |                        | Irrigators    |
| Feb                   | 4.0 Disk Ends               | 100 Offset Disk, 13.5'                             | 20.00            |                                  |            |           |                        | Tractor       |
| Mar                   | 1.0 Remove Mulch            | 70 Flat Trailer                                    | 6.00             |                                  |            |           |                        | Tractor       |
| Mar                   | 4.0 Cultivate               | 70 Cultivator, Sweep, 4 Rw                         | 3.50             |                                  |            |           |                        | Other Tractor |
| Mar                   | 1.0 Hand Weeding            | CST Hand Weeding                                   |                  |                                  |            |           | 75.00 Ac               |               |
| Apr                   | 1.0 Apply Fert/Ground       | 50 Fert. Side Dress Unit, 4Row                     | 3.00             | 46-00-00, Urea 46                | 220.00 Lb  | 271.17 Tn |                        | Tractor       |
| Apr                   | 1.0 Pollinate               | CST Bee Hive Rental                                |                  |                                  |            |           | 15.00 Ac               |               |
| Apr                   | 2.0 Turn Vines              | Crew Bus, 44 Passenger                             | 0.20             |                                  |            |           |                        | Hand          |
| Apr                   | 1.0 Apply Fungicide/Air     | CST Air Spray, 3 Gal Mix                           |                  | Benomyl                          | 1.00 Lb    | 20.25 Lb  | 4.24 Ac                |               |
| Apr                   | 3.0 Irrigate/Run Fertilizer |  | 2.50             | Water, District                  | 4.00 Al    | 15.00 AF  |                        | Irrigators    |
| Apr                   | 2.0 Apply Insecticide/Air   | CST Air Spray, 5 Gal Mix                           |                  | 32-00-00, URAN 32, Esfenvalerate | 4.00 Ga    | 170.80 Tn |                        |               |
| Apr                   |                             |  |                  | Endosulfan                       | 8.00 Oz    | 144.04 Ga | 4.75 Ac                |               |
| Jun                   | 3.0 Harvest, Load & Haul    | 70 Vegetable Trailer, Custom                       | 0.25             |                                  | 1.50 Pt    | 33.17 Ga  |                        | Tractor       |
| Jul                   | 1.0 Disk Residue            | 150 Offset Disk, 16.5'                             | 4.00             |                                  |            |           |                        | Loader/Wat    |
| Jul                   | Pickup use 60 Mi/Ac         | Pickup Truck, 1/2 Ton                              | 0.50             |                                  |            |           |                        | Tractor       |

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

**Table 19F. Operations Calendar; Watermelons, 2001**

COUNTY: Maricopa      FARM: Maricopa Veg      WATER SOURCE: Roosevelt WCD      TILLAGE: Conventional  
 CROP: Watermelons      ACRES: 1.0      IRRIGATION SYSTEM: Flood Furrow      SOIL: Sandy-Loam  
 AREA: Roosevelt WCD      YIELD: 16.3 Tn/Acre      PREVIOUS CROP: Wheat, Winter      DATE: 09/17/2001

| No. | Operation               | Month and Times Operation Performed |       |       |       |       |       |       |     |     |     |     |       |
|-----|-------------------------|-------------------------------------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-------|
|     |                         | Jan                                 | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug | Sep | Oct | Nov | Dec   |
| 1   | Rip                     |                                     |       |       |       |       |       |       |     |     |     |     | 0.5 P |
| 2   | Disk                    |                                     |       |       |       |       |       |       |     |     |     |     | 2.0 P |
| 3   | Laser Level             |                                     |       |       |       |       |       |       |     |     |     |     | 0.5 P |
| 4   | List                    |                                     |       |       |       |       |       |       |     |     |     |     | 1.0 P |
| 5   | Soil Fertility          | 1.0 C                               |       |       |       |       |       |       |     |     |     |     |       |
| 6   | Apply Fert/Ground       | 1.0 C                               |       |       |       |       |       |       |     |     |     |     |       |
| 7   | Plant                   | 1.0 C                               |       |       |       |       |       |       |     |     |     |     |       |
| 8   | Apply Mulch             | 1.0 C                               |       |       |       |       |       |       |     |     |     |     |       |
| 9   | Buck Rows               | 1.0 C                               | 1.0 C | 1.0 C | 1.0 C | 1.0 C |       |       |     |     |     |     |       |
| 10  | Irrigate                |                                     | 3.0 C | 3.0 C |       | 1.0 C | 1.0 C |       |     |     |     |     |       |
| 11  | Disk Ends               |                                     | 1.0 C | 2.0 C |       | 1.0 C |       |       |     |     |     |     |       |
| 12  | Remove Mulch            |                                     |       | 1.0 C |       |       |       |       |     |     |     |     |       |
| 13  | Cultivate               |                                     |       | 2.0 C | 2.0 C |       |       |       |     |     |     |     |       |
| 14  | Hand Weeding            |                                     |       | 1.0 C |       |       |       |       |     |     |     |     |       |
| 15  | Apply Fert/Ground       |                                     |       |       | 1.0 C |       |       |       |     |     |     |     |       |
| 16  | Pollinate               |                                     |       |       | 1.0 C |       |       |       |     |     |     |     |       |
| 17  | Turn Vines              |                                     |       |       | 1.0 C | 1.0 C |       |       |     |     |     |     |       |
| 18  | Apply Fungicide/Air     |                                     |       |       | 1.0 C |       |       |       |     |     |     |     |       |
| 19  | Irrigate/Run Fertilizer |                                     |       |       | 2.0 C | 1.0 C |       |       |     |     |     |     |       |
| 20  | Apply Insecticide/Air   |                                     |       |       | 1.0 C | 1.0 C |       |       |     |     |     |     |       |
| 21  | Harvest, Load & Haul    |                                     |       |       |       |       | 3.0 C |       |     |     |     |     |       |
| 22  | Disk Residue            |                                     |       |       |       |       |       | 1.0 C |     |     |     |     |       |

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