

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

COUNTY: Pinal                      FARM: Southern AZ Veg                      WATER SOURCE: Maricopa-Stanfield Irrig.                      TILLAGE: Conventional  
 CROP: Watermelons                      ACRES: 1.0                      IRRIGATION SYSTEM: Flood Furrow                      SOIL: Sandy-loam  
 AREA: Maricopa                      YIELD: 16.8 Tn / Acre                      PREVIOUS CROP: Wheat, Winter                      DATE: 10/9/01

| Item   | Unit | Quantity | Price/<br>Unit | Budgeted<br>/Acre | Total<br>/Acre | Your Farm<br>Budget |
|--|------|----------|----------------|-------------------|----------------|---------------------|
| INCOME -> Melons   | Ton  | 16.80    | \$141.60       | \$2,378.88        | \$2,378.88     | _____               |
| CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax) |      |          |                |                   |                |                     |
| Paid Labor (including benefits)                                  |      |          |                |                   | 96.33          | _____               |
| Tractor/Self Propelled   |      |          |                | 46.48             |                | _____               |
| Irrigation   |      |          |                | 49.85             |                | _____               |
| Chemicals and Custom Applications                                |      |          |                |                   | 136.07         | _____               |
| Fertilizer   |      |          |                | 71.56             |                | _____               |
| Insecticide  |      |          |                | 25.21             |                | _____               |
| Herbicide  |      |          |                | 39.30             |                | _____               |
| Farm Machinery and Vehicles                                      |      |          |                |                   | 54.81          | _____               |
| Diesel Fuel  |      |          |                | 21.92             |                | _____               |
| Repairs and Maintenance  |      |          |                | 32.89             |                | _____               |
| Irrigation Water (excluding labor)                               |      |          |                |                   | 181.46         | _____               |
| Water Assessment (See Note Below) **                             |      |          |                |                   |                | _____               |
| Other Purchased Inputs &<br>Seed/Transplants                     |      |          |                | 88.09             | 631.09         | _____               |
| Other Services and Rentals                                       |      |          |                | 543.00            |                | _____               |
| TOTAL CASH LAND PREPARATION AND GROWING EXPENSES                 |      |          |                |                   | 1099.76        | _____               |
| CASH HARVEST AND POST HARVEST EXPENSES                           |      |          |                |                   |                |                     |
| Custom Harvest/Post Harvest                                      |      |          |                |                   | 1344.00        | _____               |
| Other Materials  |      |          |                |                   | 160.27         | _____               |
| TOTAL HARVEST AND POST HARVEST EXPENSE                           |      |          |                |                   | 1504.27        | _____               |
| OPERATING OVERHEAD -> PICKUP USE                                 |      |          |                |                   | 15.32          | _____               |
| OPERATING INTEREST AT 10.0%                                      |      |          |                |                   | 16.05          | _____               |
| TOTAL CASH OPERATING EXPENSES                                    |      |          |                |                   | \$2,635.40     | _____               |
| RETURNS OVER CASH OPERATING EXPENSES                             |      |          |                |                   | (\$256.52)     | _____               |

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

\*\* A water assessment charge of \$25.00 per Acre is included as an ownership cost in Table B.

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

COUNTY: Pinal FARM: Southern AZ Veg WATER SOURCE: Maricopa-Stanfield Irrig. TILLAGE: Conventional  
 CROP: Watermelons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-loam  
 AREA: Maricopa YIELD: 16.8 Tn / Acre PREVIOUS CROP: Wheat, Winter DATE: 10/9/01

| 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                             | \$2,378.88                      |             | \$2,378.88                       |             |
| TOTAL OPERATING EXPENSES                                  | \$2,635.40                      |             | \$2,635.40                       |             |
| RETURN OVER CASH OPERATING EXPENSES                       |                                 | (\$256.52)  |                                  | (\$256.52)  |
| CASH OVERHEAD EXPENSES                                    |                                 |             |                                  |             |
| Taxes, Housing and Insurance, Farm Machinery              | 5.26                            |             | 5.26                             |             |
| General and Office Overhead (5.0%of Total Operating Exp.) | 131.77                          |             | 131.77                           |             |
| General Farm Maintenance (3.0% of Total Operating Exp.)   | 79.06                           |             | 79.06                            |             |
| Total Cash Overhead Expenses                              | 216.10                          |             | 216.10                           |             |
| Total Cash Operating and Overhead Cost                    | 2,851.50                        |             | 2,851.50                         |             |
| RETURNS OVER CASH OPER. AND OVER. EXPENSES                |                                 | (\$472.62)  |                                  | (\$472.62)  |
| CAPITAL ALLOCATIONS (100% Equity)                         |                                 |             |                                  |             |
| Capital Replacement, Machinery and Vehicles               |                                 |             | 30.11                            |             |
| Interest on Equity, Machinery and Vehicles                |                                 |             | 10.11                            |             |
| Total Capital Allocations                                 |                                 |             | 40.22                            |             |
| RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->      |                                 | (\$472.62)  |                                  |             |
| RETURNS TO LAND, MANAGEMENT AND RISK ----->               |                                 |             |                                  | (\$512.84)  |
| Land Cost / Rent or Lease                                 | 100.00                          |             | 100.00                           |             |
| Water Assessment **                                       | 25.00                           |             | 25.00                            |             |
| Total Land Costs  | 125.00                          |             | 125.00                           |             |
| RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->            |                                 | (\$597.62)  |                                  |             |
| RETURNS TO MANAGEMENT AND RISK ----->                     |                                 |             |                                  | (\$637.84)  |
| Management Services (8% of Total Operation Expenses)      |                                 |             | 210.83                           |             |
| TOTAL OWNERSHIP COST                                      | 341.10                          |             | 592.15                           |             |
| TOTAL COST  | \$2,976.50                      |             | \$3,227.55                       |             |
| RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->            |                                 | (\$597.62)  |                                  |             |
| RETURNS TO RISK (PROFITS) ----->                          |                                 |             |                                  | (\$848.67)  |
| 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 )       |                                 | \$156.87    |                                  | \$156.87    |
| BREAK-EVEN PRICE TO COVER OWNERSHIP COST                  |                                 | \$20.30     |                                  | \$35.25     |
| BREAK-EVEN PRICE TO COVER TOTAL COST                      |                                 | \$177.17    |                                  | \$192.12    |

**Table 19C. Variable Operating Costs; Watermelons, 2001**

COUNTY: Pinal FARM: Southern AZ Veg WATER SOURCE: Maricopa-Stanfield Irrig. TILLAGE: Conventional  
 CROP: Watermelons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-loam  
 AREA: Maricopa YIELD: 16.8 Tn / Acre PREVIOUS CROP: Wheat, Winter DATE: 10/9/01

| No.  | First Month | Operation                  | ---- Hours * ---- |       | ---- Operating Costs (\$/ACRE *) Per Operation ---- |       |            |           |         | Tot. Cash Expenses | Class    |       |
|--|-------------|----------------------------|-------------------|-------|---|-------|------------|-----------|---------|--------------------|----------|-------|
|  |             |                            | Machine           | Labor | Fuel/Rps.   | Labor | Cust/Serv. | Materials | Total   |                    |          | Times |
| 1  | Dec         | Rip                        | 0.450             | 0.500 | 5.75  | 4.39  |            |           | 10.14   | 1.0                | 10.14    | L     |
| 2  | Dec         | Disk                       | 0.225             | 0.250 | 4.11  | 2.19  |            |           | 6.30    | 2.0                | 12.61    | L     |
| 3  | Dec         | Landplane                  | 0.225             | 0.250 | 3.57  | 2.19  |            |           | 5.77    | 2.0                | 11.53    | L     |
| 4  | Dec         | List                       | 0.300             | 0.333 | 3.89  | 2.92  |            | 39.30     | 46.12   | 1.0                | 46.12    | L     |
| 5  | Dec         | Buck Rows                  | 0.045             | 0.050 | 0.27  | 0.44  |            |           | 0.71    | 5.0                | 3.55     | G     |
| 6  | Dec         | Preirrigate                |                   | 0.500 |   | 3.83  |            | 13.96     | 17.79   | 1.0                | 17.79    | G     |
| 7  | Jan         | Disk Ends                  | 0.045             | 0.050 | 0.58  | 0.44  |            |           | 1.02    | 5.0                | 5.10     | G     |
| 8  | Jan         | Plant                      | 0.300             | 0.333 | 3.33  | 2.92  |            | 88.09     | 94.34   | 1.0                | 94.34    | L     |
| 9  | Jan         | Soil Fertility             |                   |       |   |       | 3.00       |           | 3.00    | 1.0                | 3.00     | G     |
| 10   | Jan         | Apply Fert/Ground          | 0.300             | 0.333 | 3.21  | 2.92  |            | 25.97     | 32.11   | 1.0                | 32.11    | G     |
| 11   | Feb         | Irrigate                   |                   | 0.400 |   | 3.07  |            | 11.17     | 14.23   | 9.0                | 128.11   | G     |
| 12   | Feb         | Cultivate                  | 0.257             | 0.286 | 1.98  | 2.51  |            |           | 4.49    | 6.0                | 26.95    | G     |
| 13   | Feb         | Thinning                   |                   |       |   |       | 75.00      |           | 75.00   | 1.0                | 75.00    | G     |
| 14   | Mar         | Hand Weeding               |                   |       |   |       | 75.00      |           | 75.00   | 2.0                | 150.00   | G     |
| 15   | Apr         | Apply Fert/Ground          | 0.300             | 0.333 | 2.99  | 2.92  |            | 21.56     | 27.47   | 1.0                | 27.47    | G     |
| 16   | Apr         | Pollinate                  |                   |       |   |       | 15.00      |           | 15.00   | 1.0                | 15.00    | G     |
| 17   | Apr         | Turn Vines                 |                   |       |   |       | 75.00      |           | 75.00   | 4.0                | 300.00   | G     |
| 18   | Apr         | Irrigate/Run Fertilizer    |                   | 0.400 |   | 3.07  |            | 15.17     | 18.24   | 6.0                | 109.43   | G     |
| 19   | Apr         | Apply Insecticide/Air      |                   |       |   |       | 4.24       | 8.37      | 12.61   | 2.0                | 25.22    | G     |
| 20   | Jun         | Harvest, Load & Haul 16.8  |                   |       |   |       | 1344.00    | 160.27    | 1504.27 | 1.0                | 1504.27  | H     |
| 21   | Jul         | Disk Residue 16.8 Tn       | 0.225             | 0.250 | 4.11  | 2.19  |            |           | 6.30    | 1.0                | 6.30     | L     |
|  |             | Pickup Use 60 Mi/Acre      | 2.000             |       | 15.32   |       |            |           |         |                    | 15.32    |       |
|  |             | Operating Interest at 10.0 |                   |       |   |       | 16.05      |           |         |                    | 16.05    |       |
| TOTAL CASH OPERATING EXPENSES (includes all times over): |             |                            |                   |       |   |       |            |           |         |                    | 2,635.40 | 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 \$25.00 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS

|                        |            |
|------------------------|------------|
| Land Preparation (L)   | 181.04     |
| Growing (G)            | 918.72     |
| Harvest (H)            | 1,504.27   |
| Post Harvest (P)       | 0.00       |
| Marketing (M)          | 0.00       |
| Operating Overhead (O) | 31.37      |
| Total (T)              | \$2,635.40 |

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

| Prices ->        | - 25%    | - 10%     | Budgeted  | + 10%     | + 25%     | Break-even Price |        |
|------------------|----------|-----------|-----------|-----------|-----------|------------------|--------|
| Yields           | \$106.20 | \$127.44  | \$141.60  | \$155.76  | \$177.00  |                  |        |
| - 25%            | 12.6     | -1,963.64 | -1,696.02 | -1,517.60 | -1,339.19 | -1,071.56        | 262.04 |
| - 10%            | 15.1     | -1,921.66 | -1,600.51 | -1,386.41 | -1,172.31 | -851.17          | 233.29 |
| Budgeted         | 16.8     | -1,893.67 | -1,536.84 | -1,298.95 | -1,061.06 | -704.23          | 218.92 |
| + 10%            | 18.5     | -1,865.68 | -1,473.17 | -1,211.49 | -949.81   | -557.30          | 207.16 |
| Break-even Yield | 130.47   | 57.35     | 41.75     | 32.82     | 24.85     |                  |        |

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

COUNTY: Pinal FARM: Southern AZ Veg WATER SOURCE: Maricopa-Stanfield Irrig. TILLAGE: Conventional  
 CROP: Watermelons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-loam  
 AREA: Maricopa YIELD: 16.8 Tn / Acre PREVIOUS CROP: Wheat, Winter DATE: 10/9/01

| 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                      | 1.0                | 5.0                    | 2.38              | 13.96                       | 25.28                 | 20.36        | 39.30         |                 |                | 98.90          |
| JAN C                      |                    |                        | 0.72              |                             | 7.12                  | 6.28         | 25.97         | 88.09           | 3.00           | 130.46         |
| FEB C                      | 3.0                | 12.0                   | 1.59              | 33.50                       | 2.83                  | 12.59        |               |                 | 75.00          | 123.92         |
| MAR C                      | 3.0                | 12.0                   | 1.77              | 33.50                       | 3.97                  | 14.22        |               |                 | 75.00          | 126.69         |
| APR C                      | 5.0                | 20.0                   | 3.19              | 55.83                       | 8.94                  | 25.79        | 37.93         |                 | 244.24         | 372.73         |
| MAY C                      | 4.0                | 16.0                   | 1.80              | 44.67                       | 1.71                  | 14.02        | 24.39         |                 | 154.24         | 239.03         |
| JUN C                      |                    |                        | 0.10              |                             | 0.85                  | 0.88         |               | 160.27          | 1344.00        | 1506.00        |
| JUL C                      |                    |                        | 0.25              |                             | 4.11                  | 2.19         |               |                 |                | 6.30           |
| Pickup Use 60 Mi/Acre      |                    |                        |                   |                             | 15.32                 |              |               |                 |                | 15.32          |
| Operating Interest at 10.0 |                    |                        |                   |                             |                       |              |               |                 | 16.05          | 16.05          |
| Water Assessment           |                    |                        |                   | **                          |                       |              |               |                 |                |                |
| <b>Total</b>               | <b>16.0</b>        | <b>65.0</b>            | <b>11.80</b>      | <b>181.46</b>               | <b>70.13</b>          | <b>96.33</b> | <b>127.59</b> | <b>248.36</b>   | <b>1916.53</b> | <b>2635.40</b> |
| <b>%</b>                   |                    |                        |                   | <b>6.89</b>                 | <b>2.66</b>           | <b>3.66</b>  | <b>4.84</b>   | <b>9.42</b>     | <b>72.53</b>   | <b>100.00</b>  |

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 189.9  
 Total P 92.0  
 Total Labor 11.8  
 Total Water 65.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 25.4 Gal  
 Unleaded Gas 6.0 Gal  
 All Direct Energy 4.3 M BTU

EQUIPMENT REQUIREMENTS (per Acre)

|                           |         |                           |         |                      |         |
|---------------------------|---------|---------------------------|---------|----------------------|---------|
| Cultivator, Sweep, 4 Rw   | 1.54 Hr | Fert. Side Dress Unit,    | 0.60 Hr | Landplane 12'X 45'   | 0.45 Hr |
| Lister, 5 Bottom          | 0.30 Hr | Offset Disk, 13.5'        | 0.23 Hr | Offset Disk, 16.5'   | 0.67 Hr |
| Pickup Truck, 1/2 Ton     | 2.00 Hr | Planter, Planet Jr, 4 Row | 0.30 Hr | Rowbuck, 10'         | 0.23 Hr |
| Saddle Tk Sprayer, 2 Tk 8 | 0.30 Hr | Tractor, 60 PTO HP        | 0.53 Hr | Tractor, 70 PTO HP   | 1.84 Hr |
| Tractor, 100 PTO HP       | 0.83 Hr | Tractor, 150 PTO HP       | 1.13 Hr | Tractor, 150 PTO HP, | 0.45 Hr |
| V-Ripper, 5 Shnk          | 0.45 Hr |                           |         |                      |         |

MATERIALS REQUIREMENT (per Acre)

|                 |           |                        |          |                   |           |
|-----------------|-----------|------------------------|----------|-------------------|-----------|
| 18-46-00, Dry   | 200.00 Lb | 32-00-00, URAN 32, Lqd | 24.00 Ga | 46-00-00, Urea 46 | 150.00 Lb |
| BT              | 4.00 Pt   | DCPA                   | 6.00 Lb  | Water, District   | 65.00 Al  |
| Watermelon Bins | 16.80 Ea  | Watermelon Seed (OP)   | 3.00 Th  |                   |           |

LABOR REQUIREMENT (per Acre)

Irrigators 6.50 Hr Tractor 5.30 Hr

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

\*\* A water assessment charge of \$25.00 per Acre is included as an ownership cost in Table B.

**Table 19E. Schedule of Operations; Watermelons, 2001**

COUNTY: Pinal FARM: Southern AZ Veg WATER SOURCE: Maricopa-Stanfield Irrig. TILLAGE: Conventional  
 CROP: Watermelons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-loam  
 AREA: Maricopa YIELD: 16.8 Tn / Acre PREVIOUS CROP: Wheat, Winter DATE: 10/9/01

| 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 1.0               | Rip                     | 150 V-Ripper, 5 Shnk                                  | 2.00             |                                  |                            |                              | Tractor    |
| Dec 2.0               | Disk                    | 150 Offset Disk, 16.5'                                | 4.00             |                                  |                            |                              | Tractor    |
| Dec 2.0               | Landplane               | 150 Landplane 12'X 45'                                | 4.00             |                                  |                            |                              | Tractor    |
| Dec 1.0               | List                    | 100 Lister, 5 Bottom<br>Saddle Tk Sprayer, 2 Tk 8 Row | 3.00             | DCPA                             | 6.00 Lb                    | 6.18 Lb                      | Tractor    |
| Dec 5.0               | Buck Rows               | 60 Rowbuck, 10'                                       | 20.00            |                                  |                            |                              | Tractor    |
| Dec 1.0               | Preirrigate             |   | 2.00             | Water, District                  | 5.00 Al                    | 33.50 AF                     | Irrigators |
| Jan 5.0               | Disk Ends               | 100 Offset Disk, 13.5'                                | 20.00            |                                  |                            |                              | Tractor    |
| Jan 1.0               | Plant                   | 100 Planter, Planet Jr, 4 Row                         | 3.00             | Watermelon Seed (OP)             | 3.00 Th                    | 27.70 Th                     | Tractor    |
| Jan 1.0               | Soil Fertility          | CST Soil Analysis (Surface)                           |                  |                                  |                            | 3.00 Ac                      |            |
| Jan 1.0               | Apply Fert/Ground       | 70 Fert. Side Dress Unit, 4Row                        | 3.00             | 18-46-00, Dry                    | 200.00 Lb                  | 245.00 Tn                    | Tractor    |
| Feb 9.0               | Irrigate                |   | 2.50             | Water, District                  | 4.00 Al                    | 33.50 AF                     | Irrigators |
| Feb 6.0               | Cultivate               | 70 Cultivator, Sweep, 4 Rw                            | 3.50             |                                  |                            |                              | Tractor    |
| Feb 1.0               | Thinning                | CST Thinning  |                  |                                  |                            | 75.00 Ac                     |            |
| Mar 2.0               | Hand Weeding            | CST Hand Weeding                                      |                  |                                  |                            | 75.00 Ac                     |            |
| Apr 1.0               | Apply Fert/Ground       | 60 Fert. Side Dress Unit, 4Row                        | 3.00             | 46-00-00, Urea 46                | 150.00 Lb                  | 271.17 Tn                    | Tractor    |
| Apr 1.0               | Pollinate               | CST Bee Hive Rental                                   |                  |                                  |                            | 15.00 Ac                     |            |
| Apr 4.0               | Turn Vines              | CST Hand Weeding                                      |                  |                                  |                            | 75.00 Ac                     |            |
| Apr 6.0               | Irrigate/Run Fertilizer |   | 2.50             | Water, District                  | 4.00 Al                    | 33.50 AF                     | Irrigators |
| Apr 2.0               | Apply Insecticide/Air   | CST Air Spray, 3 Gal Mix                              |                  | 32-00-00, URAN 32,<br>BT         | 4.00 Ga                    | 170.80 Tn                    |            |
| Jun 1.0               | Harvest, Load & Haul    | CST Harv/pack/haul                                    | 0.25             | Watermelon Bins                  | 2.00 Pt                    | 31.57 Ga                     | 4.24 Ac    |
| Jul 1.0               | Disk Residue            | 150 Offset Disk, 16.5'                                | 4.00             |                                  | 16.80 Ea                   | 9.00 Ea                      | 80.00 Tn   |
|                       | 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: Pinal FARM: Southern Vegetables WATER SOURCE: MSID TILLAGE: Conventional  
 CROP: Watermelons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam  
 AREA: Maricopa YIELD: 16.8 Tn/Acre PREVIOUS CROP: Wheat, Winter DATE: 10/09/01

| No. | Operation               | Month and Times Operation Performed |       |       |       |       |       |       |     |     |     |     |       |
|-----|-------------------------|-------------------------------------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-------|
|     |                         | Jan                                 | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug | Sep | Oct | Nov | Dec   |
| 1   | Rip                     |                                     |       |       |       |       |       |       |     |     |     |     | 1.0 P |
| 2   | Disk                    |                                     |       |       |       |       |       |       |     |     |     |     | 2.0 P |
| 3   | Landplane               |                                     |       |       |       |       |       |       |     |     |     |     | 2.0 P |
| 4   | List                    |                                     |       |       |       |       |       |       |     |     |     |     | 1.0 P |
| 5   | Buck Rows               |                                     | 1.0 C |       |       | 2.0 C | 1.0 C |       |     |     |     |     | 1.0 P |
| 6   | Preirrigate             |                                     |       |       |       |       |       |       |     |     |     |     | 1.0 P |
| 7   | Disk Ends               | 1.0 C                               | 1.0 C |       |       | 2.0 C | 1.0 C |       |     |     |     |     |       |
| 8   | Plant                   | 1.0 C                               |       |       |       |       |       |       |     |     |     |     |       |
| 9   | Soil Fertility          | 1.0 C                               |       |       |       |       |       |       |     |     |     |     |       |
| 10  | Apply Fert/Ground       | 1.0 C                               |       |       |       |       |       |       |     |     |     |     |       |
| 11  | Irrigate                |                                     | 3.0 C | 3.0 C | 3.0 C |       |       |       |     |     |     |     |       |
| 12  | Cultivate               |                                     | 1.0 C | 2.0 C | 3.0 C |       |       |       |     |     |     |     |       |
| 13  | Thinning                |                                     | 1.0 C |       |       |       |       |       |     |     |     |     |       |
| 14  | Hand Weeding            |                                     |       | 1.0 C | 1.0 C |       |       |       |     |     |     |     |       |
| 15  | Apply Fert/Ground       |                                     |       |       | 1.0 C |       |       |       |     |     |     |     |       |
| 16  | Pollinate               |                                     |       |       | 1.0 C |       |       |       |     |     |     |     |       |
| 17  | Turn Vines              |                                     |       |       | 2.0 C | 2.0 C |       |       |     |     |     |     |       |
| 18  | Irrigate/Run Fertilizer |                                     |       |       | 2.0 C | 4.0 C |       |       |     |     |     |     |       |
| 19  | Apply Insecticide/Air   |                                     |       |       | 1.0 C | 1.0 C |       |       |     |     |     |     |       |
| 20  | Harvest, Load & Haul    |                                     |       |       |       |       | 1.0 C |       |     |     |     |     |       |
| 21  | Disk Residue            |                                     |       |       |       |       |       | 1.0 C |     |     |     |     |       |

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