

*Projections for Planning Purposes Only
Not to be Used without Updating after October 15, 2003*

Table 17.A Estimated costs and returns per acre
Watermelon, Seedless; Plastic Mulch, Drip Irr., Well
Projected for 2004, South Texas, For Planning Purposes Only

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|-----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Watermelon, seedless | cwt | 7.25 | 200.0000 | 1450.00 | _____ |
| TOTAL INCOME | | | | 1450.00 | _____ |
| DIRECT EXPENSES | | | | | |
| FERTILIZER | | | | | |
| Phosphorus (46% P2O5) | cwt | 13.86 | 1.3000 | 18.01 | _____ |
| UAN (32% N) | cwt | 7.78 | 1.0000 | 7.78 | _____ |
| FUNGICIDE | | | | | |
| Bravo Ultrex | qt | 12.50 | 1.0000 | 12.50 | _____ |
| Quadris | oz | 2.29 | 32.0000 | 73.28 | _____ |
| HERBICIDE | | | | | |
| Trifluralin 4EC | pt | 2.48 | 2.7500 | 6.82 | _____ |
| INSECTICIDE/MITICIDE | | | | | |
| Thiodan 3 EC | qt | 9.09 | 1.0000 | 9.09 | _____ |
| IRRIGATION SUPPLIES | | | | | |
| DripTape (2 seasons) | feet | 0.00 | 6550.0000 | 52.40 | _____ |
| sulfuric acid | oz | 0.01 | 26.0000 | 0.39 | _____ |
| SEED/PLANTS | | | | | |
| Hybrid Wtrmelon seed | lb | 145.00 | 0.1800 | 26.10 | _____ |
| Watermelon Seedlings | thou | 61.50 | 12.0000 | 738.00 | _____ |
| HORT. SUPPLIES | | | | | |
| Plastic Mulch, 3x4K' | roll | 60.00 | 0.6100 | 36.60 | _____ |
| Bee Rental | hive | 75.00 | 1.0000 | 75.00 | _____ |
| HIRED LABOR CREW | | | | | |
| Transplant melons | hour | 3.43 | 8.0000 | 27.44 | _____ |
| Pickup plastic | hour | 3.43 | 8.0000 | 27.44 | _____ |
| CUSTOM HORT. HARVEST | | | | | |
| Harvest/Sell Wtrmlns | cwt | 3.00 | 200.0000 | 600.00 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 8.31 | 1.1240 | 9.34 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 6.91 | 0.5010 | 3.46 | _____ |
| IRRIGATION LABOR | | | | | |
| Drip Trailer System | hour | 6.91 | 0.1890 | 1.30 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 8.31 | 0.8992 | 7.47 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 1.06 | 8.4445 | 8.95 | _____ |
| Drip Trailer System | gal | 1.06 | 113.4000 | 120.20 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 4.61 | 1.0000 | 4.61 | _____ |
| Tractors | acre | 6.69 | 1.0000 | 6.69 | _____ |
| Drip Trailer System | hour | 0.05 | 94.5000 | 4.72 | _____ |
| INTEREST ON OP. CAP. | acre | 74.59 | 1.0000 | 74.59 | _____ |
| TOTAL DIRECT EXPENSES | | | | 1952.22 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | -502.22 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 9.93 | 1.0000 | 9.93 | _____ |
| Tractors | acre | 20.88 | 1.0000 | 20.88 | _____ |
| Well, 300 feet | acre | 21.91 | 1.0000 | 21.91 | _____ |
| Drip Trailer System | hour | 1.21 | 94.5000 | 114.34 | _____ |
| TOTAL FIXED EXPENSES | | | | 167.07 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 2119.29 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | -669.29 | _____ |
| ALLOCATED COST ITEMS | | | | | |
| Cash Rent, Irr. Veg | acre | 100.00 | 1.0000 | 100.00 | _____ |
| RESIDUAL RETURNS | | | | -769.29 | _____ |

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Table 17.B Estimated resource use and costs for field operations, per acre
Watermelon, Seedless; Plastic Mulch, Drip Irr., Well
Projected for 2004, South Texas, For Planning Purposes Only

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | TRACTOR SIZE | PERF RATE | TIMES OVER | MTH | TRACTOR COST | | EQUIP COST | | ALLOC LABOR | | OPERATING INPUT | | | TOTAL COST | |
|-------------------------------|---------------|-----------------|--------------|---------------|-----|-------------------|-------|------------|-------|-------------|------|-------------------|--------|--------|---------------|-------|
| | | | | | | DIRECT | FIXED | DIRECT | FIXED | HOURS | COST | AMOUNT | PRICE | COST | | |
| | | | | | | -----dollars----- | | | | dollars | | -----dollars----- | | | | |
| Heavy Disk | 14' | 150 hp | 0.167 | 1.00 | Oct | 2.25 | 2.80 | 0.98 | 2.00 | 0.167 | 1.38 | | | | | 9.43 |
| Chisel Plow | 16' | 130 hp | 0.117 | 1.00 | Oct | 1.82 | 2.99 | 0.27 | 0.70 | 0.117 | 0.97 | | | | | 6.76 |
| Heavy Disk | 14' | 150 hp | 0.167 | 1.00 | Oct | 2.25 | 2.80 | 0.98 | 2.00 | 0.167 | 1.38 | | | | | 9.43 |
| 80" Row Disk | 3R-80 | 150 hp | 0.094 | 1.00 | Oct | 1.26 | 1.58 | 0.55 | 1.04 | 0.094 | 0.78 | | | | | 5.23 |
| Order seedlings | order | | | 1.00 | Dec | | | | | | | 1.0000 | | | | |
| Hybrid Wtrmelon seed lb | | | | | | | | | | | | 0.1800 | 145.00 | 26.10 | | 26.10 |
| Fert Appl (Liquid) | 3R-80 | 150 hp | 0.098 | 1.00 | Dec | 1.32 | 1.64 | 0.44 | 1.32 | 0.147 | 1.15 | | | | | 5.88 |
| Phosphorus(46% P2O5) cwt | | | | | | | | | | | | 1.3000 | 13.86 | 18.01 | | 18.01 |
| Pmlch/Driptape Layer | 3R-80 | 130 hp | 0.110 | 1.00 | Dec | 1.71 | 2.81 | 0.44 | 1.21 | 0.440 | 3.19 | | | | | 9.38 |
| DripTape (2 seasons) feet | | | | | | | | | | | | 6550.0000 | 0.00 | 52.40 | | 52.40 |
| Plastic Mulch, 3x4K' roll | | | | | | | | | | | | 0.6100 | 60.00 | 36.60 | | 36.60 |
| Spray (Band) | 27' | 150 hp | 0.061 | 1.00 | Dec | 0.82 | 1.02 | 0.13 | 0.20 | 0.091 | 0.71 | | | | | 2.91 |
| Trifluralin 4EC | pt | | | | | | | | | | | 2.7500 | 2.48 | 6.82 | | 6.82 |
| Well, 300 feet | acre | | | 1.00 | Jan | | | | | | | 1.0000 | | | | 21.91 |
| Drip Trailer System | hour | | | 1.00 | Feb | | | 4.62 | 4.23 | 0.007 | 0.04 | 3.5000 | | | | 8.91 |
| Watermelon Seedlings thou | | | | | | | | | | | | 12.0000 | 61.50 | 738.00 | 738.00 | |
| Transplant melons | hour | | | | | | | | | | | 8.0000 | 3.43 | 27.44 | | 27.44 |
| Irrigation, Well H2O inch | | | | | | | | | | | | 0.5000 | | | | |
| Drip Trailer System | hour | | | 1.00 | Feb | | | 4.62 | 4.23 | 0.007 | 0.04 | 3.5000 | | | | 8.91 |
| Irrigation, Well H2O inch | | | | | | | | | | | | 0.5000 | | | | |
| sulfuric acid | oz | | | | | | | | | | | 1.0000 | 0.01 | 0.01 | | 0.01 |
| Drip Trailer System | hour | | | 1.00 | Feb | | | 4.62 | 4.23 | 0.007 | 0.04 | 3.5000 | | | | 8.91 |
| Irrigation, Well H2O inch | | | | | | | | | | | | 0.5000 | | | | |
| UAN (32% N) | cwt | | | | | | | | | | | 0.1000 | 7.78 | 0.77 | | 0.77 |
| sulfuric acid | oz | | | | | | | | | | | 1.0000 | 0.01 | 0.01 | | 0.01 |
| Drip Trailer System | hour | | | 1.00 | Feb | | | 4.62 | 4.23 | 0.007 | 0.04 | 3.5000 | | | | 8.91 |
| Irrigation, Well H2O inch | | | | | | | | | | | | 0.5000 | | | | |
| UAN (32% N) | cwt | | | | | | | | | | | 0.1000 | 7.78 | 0.77 | | 0.77 |
| sulfuric acid | oz | | | | | | | | | | | 1.0000 | 0.01 | 0.01 | | 0.01 |
| Drip Trailer System | hour | | | 1.00 | Feb | | | 4.62 | 4.23 | 0.007 | 0.04 | 3.5000 | | | | 8.91 |
| Irrigation, Well H2O inch | | | | | | | | | | | | 0.5000 | | | | |
| UAN (32% N) | cwt | | | | | | | | | | | 0.1000 | 7.78 | 0.77 | | 0.77 |
| sulfuric acid | oz | | | | | | | | | | | 1.0000 | 0.01 | 0.01 | | 0.01 |
| Drip Trailer System | hour | | | 1.00 | Feb | | | 4.62 | 4.23 | 0.007 | 0.04 | 3.5000 | | | | 8.91 |
| Irrigation, Well H2O inch | | | | | | | | | | | | 0.5000 | | | | |
| UAN (32% N) | cwt | | | | | | | | | | | 0.1000 | 7.78 | 0.77 | | 0.77 |
| sulfuric acid | oz | | | | | | | | | | | 1.0000 | 0.01 | 0.01 | | 0.01 |
| Drip Trailer System | hour | | | 1.00 | Feb | | | 4.62 | 4.23 | 0.007 | 0.04 | 3.5000 | | | | 8.91 |

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| | | | | | | | | | | | | | | | |
|---------------------------|-------|--------|-------|------|-----|------|------|------|------|-------|------|---------|-------|-------|-------|
| Irrigation, Well H2O inch | | | | | | | | | | | | 0.5000 | | | |
| UAN (32% N) | cwt | | | | | | | | | | | 0.1000 | 7.78 | 0.77 | 0.77 |
| sulfuric acid | oz | | | | | | | | | | | 1.0000 | 0.01 | 0.01 | 0.01 |
| Cultivate (Early) | 3R-80 | 150 hp | 0.127 | 1.00 | Mar | 1.71 | 2.13 | 0.37 | 0.81 | 0.127 | 1.05 | | | | 6.09 |
| Bravo Ultrex | qt | | | | | | | | | | | 0.5000 | 12.50 | 6.25 | 6.25 |
| Drip Trailer System | hour | | | | Mar | | | 4.62 | 4.23 | 0.007 | 0.04 | 3.5000 | | | 8.91 |
| Irrigation, Well H2O inch | | | | | | | | | | | | 0.5000 | | | |
| UAN (32% N) | cwt | | | | | | | | | | | 0.1000 | 7.78 | 0.77 | 0.77 |
| sulfuric acid | oz | | | | | | | | | | | 1.0000 | 0.01 | 0.01 | 0.01 |
| Drip Trailer System | hour | | | | Mar | | | 4.62 | 4.23 | 0.007 | 0.04 | 3.5000 | | | 8.91 |
| Irrigation, Well H2O inch | | | | | | | | | | | | 0.5000 | | | |
| UAN (32% N) | cwt | | | | | | | | | | | 0.1000 | 7.78 | 0.77 | 0.77 |
| sulfuric acid | oz | | | | | | | | | | | 1.0000 | 0.01 | 0.01 | 0.01 |
| Drip Trailer System | hour | | | | Mar | | | 4.62 | 4.23 | 0.007 | 0.04 | 3.5000 | | | 8.91 |
| Irrigation, Well H2O inch | | | | | | | | | | | | 0.5000 | | | |
| UAN (32% N) | cwt | | | | | | | | | | | 0.1000 | 7.78 | 0.77 | 0.77 |
| sulfuric acid | oz | | | | | | | | | | | 1.0000 | 0.01 | 0.01 | 0.01 |
| Drip Trailer System | hour | | | | Mar | | | 4.62 | 4.23 | 0.007 | 0.04 | 3.5000 | | | 8.91 |
| Irrigation, Well H2O inch | | | | | | | | | | | | 0.5000 | | | |
| UAN (32% N) | cwt | | | | | | | | | | | 0.1000 | 7.78 | 0.77 | 0.77 |
| sulfuric acid | oz | | | | | | | | | | | 1.0000 | 0.01 | 0.01 | 0.01 |
| Spray (Band) | 27' | 150 hp | 0.061 | 1.00 | Mar | 0.82 | 1.02 | 0.13 | 0.20 | 0.091 | 0.71 | | | | 2.91 |
| Bravo Ultrex | qt | | | | | | | | | | | 0.5000 | 12.50 | 6.25 | 6.25 |
| Bee Rental | hive | | | | Mar | | | | | | | 1.0000 | 75.00 | 75.00 | 75.00 |
| Drip Trailer System | hour | | | | Mar | | | 4.62 | 4.23 | 0.007 | 0.04 | 3.5000 | | | 8.91 |
| Irrigation, Well H2O inch | | | | | | | | | | | | 0.5000 | | | |
| sulfuric acid | oz | | | | | | | | | | | 1.0000 | 0.01 | 0.01 | 0.01 |
| Drip Trailer System | hour | | | | Mar | | | 4.62 | 4.23 | 0.007 | 0.04 | 3.5000 | | | 8.91 |
| Irrigation, Well H2O inch | | | | | | | | | | | | 0.5000 | | | |
| sulfuric acid | oz | | | | | | | | | | | 1.0000 | 0.01 | 0.01 | 0.01 |
| Drip Trailer System | hour | | | | Mar | | | 4.62 | 4.23 | 0.007 | 0.04 | 3.5000 | | | 8.91 |
| Irrigation, Well H2O inch | | | | | | | | | | | | 0.5000 | | | |
| sulfuric acid | oz | | | | | | | | | | | 1.0000 | 0.01 | 0.01 | 0.01 |
| Drip Trailer System | hour | | | | Mar | | | 4.62 | 4.23 | 0.007 | 0.04 | 3.5000 | | | 8.91 |
| Irrigation, Well H2O inch | | | | | | | | | | | | 0.5000 | | | |
| sulfuric acid | oz | | | | | | | | | | | 1.0000 | 0.01 | 0.01 | 0.01 |
| Drip Trailer System | hour | | | | Mar | | | 4.62 | 4.23 | 0.007 | 0.04 | 3.5000 | | | 8.91 |
| Irrigation, Well H2O inch | | | | | | | | | | | | 0.5000 | | | |
| sulfuric acid | oz | | | | | | | | | | | 1.0000 | 0.01 | 0.01 | 0.01 |
| Drip Trailer System | hour | | | | Apr | | | 4.62 | 4.23 | 0.007 | 0.04 | 3.5000 | | | 8.91 |
| Irrigation, Well H2O inch | | | | | | | | | | | | 0.5000 | | | |
| sulfuric acid | oz | | | | | | | | | | | 1.0000 | 0.01 | 0.01 | 0.01 |
| Spray (Band) | 27' | 150 hp | 0.061 | 1.00 | Apr | 0.82 | 1.02 | 0.13 | 0.20 | 0.091 | 0.71 | | | | 2.91 |
| Quadris | oz | | | | | | | | | | | 16.0000 | 2.29 | 36.64 | 36.64 |
| Drip Trailer System | hour | | | | Apr | | | 4.62 | 4.23 | 0.007 | 0.04 | 3.5000 | | | 8.91 |
| Irrigation, Well H2O inch | | | | | | | | | | | | 0.5000 | | | |
| sulfuric acid | oz | | | | | | | | | | | 1.0000 | 0.01 | 0.01 | 0.01 |
| Drip Trailer System | hour | | | | Apr | | | 4.62 | 4.23 | 0.007 | 0.04 | 3.5000 | | | 8.91 |
| Irrigation, Well H2O inch | | | | | | | | | | | | 0.5000 | | | |
| sulfuric acid | oz | | | | | | | | | | | 1.0000 | 0.01 | 0.01 | 0.01 |
| Drip Trailer System | hour | | | | Apr | | | 4.62 | 4.23 | 0.007 | 0.04 | 3.5000 | | | 8.91 |
| Irrigation, Well H2O inch | | | | | | | | | | | | 0.5000 | | | |
| sulfuric acid | oz | | | | | | | | | | | 1.0000 | 0.01 | 0.01 | 0.01 |
| Spray (Band) | 27' | 150 hp | 0.061 | 1.00 | Apr | 0.82 | 1.02 | 0.13 | 0.20 | 0.091 | 0.71 | | | | 2.91 |
| Quadris | oz | | | | | | | | | | | 16.0000 | 2.29 | 36.64 | 36.64 |

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| | | | | | | | | | | | |
|-------------------------------|------|------|-----|-------|-------|--------|--------|----------|-------|---------|---------|
| Thiodan 3 EC | qt | | | | | | | 1.0000 | 9.09 | 9.09 | 9.09 |
| Drip Trailer System | hour | 1.00 | Apr | 4.62 | 4.23 | 0.007 | 0.04 | 3.5000 | | | 8.91 |
| Irrigation, Well H2O | inch | | | | | | | 0.5000 | | | |
| sulfuric acid | oz | | | | | | | 1.0000 | 0.01 | 0.01 | 0.01 |
| Drip Trailer System | hour | 1.00 | Apr | 4.62 | 4.23 | 0.007 | 0.04 | 3.5000 | | | 8.91 |
| Irrigation, Well H2O | inch | | | | | | | 0.5000 | | | |
| sulfuric acid | oz | | | | | | | 1.0000 | 0.01 | 0.01 | 0.01 |
| Drip Trailer System | hour | 1.00 | Apr | 4.62 | 4.23 | 0.007 | 0.04 | 3.5000 | | | 8.91 |
| Irrigation, Well H2O | inch | | | | | | | 0.5000 | | | |
| sulfuric acid | oz | | | | | | | 1.0000 | 0.01 | 0.01 | 0.01 |
| Drip Trailer System | hour | 1.00 | Apr | 4.62 | 4.23 | 0.007 | 0.04 | 3.5000 | | | 8.91 |
| Irrigation, Well H2O | inch | | | | | | | 0.5000 | | | |
| sulfuric acid | oz | | | | | | | 1.0000 | 0.01 | 0.01 | 0.01 |
| Drip Trailer System | hour | 1.00 | Apr | 4.62 | 4.23 | 0.007 | 0.04 | 3.5000 | | | 8.91 |
| Irrigation, Well H2O | inch | | | | | | | 0.5000 | | | |
| sulfuric acid | oz | | | | | | | 1.0000 | 0.01 | 0.01 | 0.01 |
| Harvest/Sell Wtrmlns | cwt | 1.00 | May | | | | | 200.0000 | 3.00 | 600.00 | 600.00 |
| Pickup plastic | hour | 1.00 | Jun | | | | | 8.0000 | 3.43 | 27.44 | 27.44 |
| | | | | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| TOTALS | | | | 15.64 | 20.88 | 129.54 | 146.19 | 1.814 | 14.10 | 1710.85 | 2037.23 |
| INTEREST ON OPERATING CAPITAL | | | | | | | | | | | 74.59 |
| UNALLOCATED LABOR | | | | | | | | | | | 7.47 |
| TOTAL SPECIFIED COST | | | | | | | | | | | 2119.29 |

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