

| Cost of Production - Sweet Corn | | Unit | Qty/acre | Cost/Unit | Total/acre |
|---|---|----------|-----------|-----------|-----------------|
| Variable Costs | | | | | |
| Pre-Harvest | | | | | |
| Land preparation | Soil sampling (nutrient analysis) | Acre | 1.00 | 15.00 | 15.00 |
| | Lime/Gypsum | ton | 1.00 | 55.00 | 55.00 |
| | 20-20-20 | lb | 500.00 | 0.32 | 157.50 |
| | 34-0-0 | lb | 280.00 | 0.28 | 77.42 |
| Planting | Seed Sweet Corn | thou | 15.00 | 12.69 | 190.35 |
| Herbicide | S-metolachlor | pt | 2.00 | 7.56 | 15.13 |
| | Halosulfuron-methyl | oz | 0.67 | 30.00 | 20.10 |
| | Atrazine | qt | 2.00 | 4.61 | 9.21 |
| Fungicide | Azoxystrobin | oz | 55.00 | 0.80 | 43.90 |
| | Penthiopyrad | oz | 64.00 | 1.45 | 92.50 |
| Insecticide | Bifenthrin | oz | 12.00 | 0.50 | 6.04 |
| | Chlorantraniliprole | qt | 0.46 | 375.00 | 172.50 |
| | Methoxyfenozide | oz | 24.00 | 3.16 | 75.94 |
| | Methomyl | oz | 16.00 | 0.39 | 6.25 |
| | Spinetoram | qt | 0.56 | 6.64 | 3.72 |
| Herb., Fung., Insect. | Labor | Hours | 16.00 | 19.28 | 308.48 |
| Irrigation system | Running irrigation system Sprinkler | \$ | 1.00 | 97.67 | 97.67 |
| | Labor | Hours | 8.00 | 19.28 | 154.24 |
| Harvest | | | | | |
| | Plastic Corn Box | Each | 175.00 | 2.30 | 402.50 |
| | Labor | Hours | 72.00 | 19.28 | 1,388.16 |
| Overall | | | | | |
| Machinery | | | | | |
| Labor | Disk + Incorporate 10 with 2WD 75 hp with | hrs/acre | 0.21 | 6.94 | 1.49 |
| | Spray (Broadcast) 27 with 2WD 75 hp with | hrs/acre | 0.07 | 6.94 | 0.45 |
| | Cultivate 1-Row with 2WD 75 hp with | hrs/acre | 0.44 | 6.94 | 3.08 |
| | Fert-Side Dresser 1R 3' with 2WD 75 hp with | hrs/acre | 0.64 | 6.94 | 4.42 |
| | Plntr - Vacuum+Ins 2R 30-40 with 2WD with 75 hp | hrs/acre | 0.30 | 6.94 | 2.07 |
| Fuel | Disk + Incorporate 10 with 2WD 75 hp with | gal/acre | 0.42 | 3.09 | 1.28 |
| | Spray (Broadcast) 27 with 2WD 75 hp with | gal/acre | 0.13 | 3.09 | 0.39 |
| | Cultivate 1-Row with 2WD 75 hp with | gal/acre | 1.19 | 3.09 | 3.67 |
| | Fert-Side Dresser 1R 3' with 2WD 75 hp with | gal/acre | 1.71 | 3.09 | 5.27 |
| | Plntr - Vacuum+Ins 2R 30-40 with 2WD with 75 hp | gal/acre | 0.80 | 3.09 | 2.47 |
| R&M | Disk + Incorporate 10 with 2WD 75 hp with | \$/acre | 0.05 | 1.16 | 0.06 |
| | Spray (Broadcast) 27 with 2WD 75 hp with | \$/acre | 0.01 | 0.24 | 0.00 |
| | Cultivate 1-Row with 2WD 75 hp with | \$/acre | 0.05 | 0.70 | 0.04 |
| | Fert-Side Dresser 1R 3' with 2WD 75 hp with | \$/acre | 0.05 | 3.20 | 0.16 |
| | Plntr - Vacuum+Ins 2R 30-40 with 2WD with 75 hp | \$/acre | 0.05 | 10.32 | 0.52 |
| | Irrigation System R&M Sprinkler | \$/acre | 1.00 | 43.50 | 43.50 |
| Cleanup field | Labor | Hours | 2.00 | 19.28 | 38.56 |
| Interest on operating expenses | Interest rate | % | 3,524.04 | 0.09 | 616.71 |
| | Crop Insurance - Fruit and Vegetable* | \$ | 1.00 | 125.00 | 125.00 |
| Total Variable Costs | | | | | 4,140.75 |
| *Based on USDA FSA NAP Insurance administrative fee of \$325/crop assuming 2.6 acres of production. | | | | | |
| Fixed Costs | | | | | |
| | Irrigation depreciation | System | 5.00 | 41.43 | 207.14 |
| | Disk + Incorporate 10 with 2WD 75 hp with | \$/acre | 0.05 | 2.95 | 0.15 |
| | Spray (Broadcast) 27 with 2WD 75 hp with | \$/acre | 0.01 | 0.76 | 0.01 |
| | Cultivate 1-Row with 2WD 75 hp with | \$/acre | 0.05 | 4.12 | 0.21 |
| | Fert-Side Dresser 1R 3' with 2WD 75 hp with | \$/acre | 0.05 | 14.40 | 0.72 |
| | Plntr - Vacuum+Ins 2R 30-40 with 2WD with 75 hp | \$/acre | 0.05 | 18.21 | 0.91 |
| | Misc. Overhead | % | 4,140.75 | 0.07 | 289.85 |
| | Land ownership | - | - | - | - |
| Total Fixed Costs | | | | | 498.99 |
| TOTAL COSTS | | | | | 4,639.74 |
| Total receipts | Sweet Corn | Ears | 15,000.00 | 0.75 | 11,250.00 |
| Return to land and capital | | | | | 6,610.26 |
| Initial Capital Investment | Sprinkler system (90 ft) | Kit | 3.00 | 290.00 | 870.00 |

Return to land and capital

| PRICE | YIELD | | | | | |
|---------------|------------------|------------|------------|-------------|-------------|-----|
| | Price/acre/yield | -20% | -10% | Expected | 10% | 20% |
| | 12,000.00 | 13,500.00 | 15,000.00 | 16,500.00 | 18,000.00 | |
| \$0.60 | \$2,560.26 | \$3,460.26 | \$4,360.26 | \$5,260.26 | \$6,160.26 | |
| \$0.68 | \$3,460.26 | \$4,472.76 | \$5,485.26 | \$6,497.76 | \$7,510.26 | |
| \$0.75 | \$4,360.26 | \$5,485.26 | \$6,610.26 | \$7,735.26 | \$8,860.26 | |
| \$0.83 | \$5,260.26 | \$6,497.76 | \$7,735.26 | \$8,972.76 | \$10,210.26 | |
| \$0.90 | \$6,160.26 | \$7,510.26 | \$8,860.26 | \$10,210.26 | \$11,560.26 | |

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