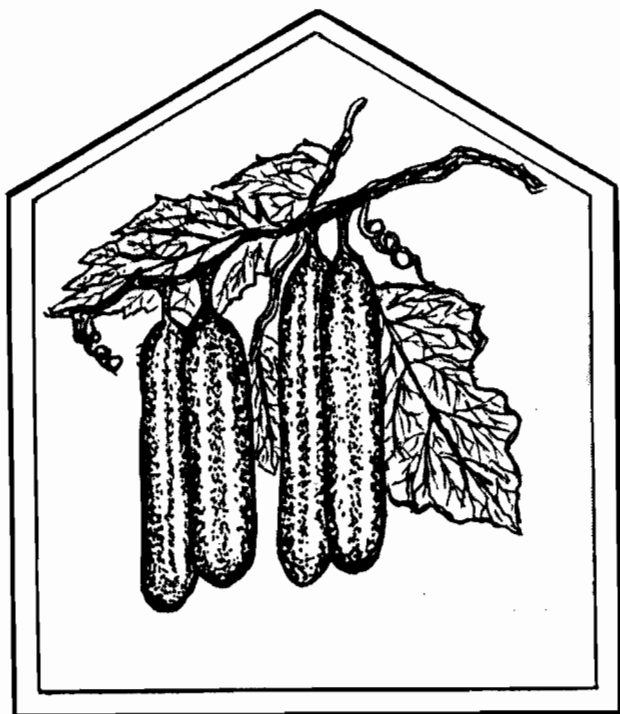


GREENHOUSE CUCUMBERS

BAG CULTURE

**COST OF PRODUCTION AND EQUIPMENT
IN
SAN JOAQUIN VALLEY**

1985



GREENHOUSE CUCUMBERS - BAG CULTURE

Cost of Production and Equipment in San Joaquin Valley

1985

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As with any cost study, certain assumptions must be made to complete the analysis. Listed below are those assumptions for this study:

- 20,000 square-foot greenhouse, metal with double-layer polyethylene covering.
- Natural gas heating.
- One-acre land requirement at \$5,000/acre.
- Production of 185 boxes (approx. 16 lb fruit) per 1000 square feet, one 4-month winter crop.
- Plant density, 8 square feet per plant.
- Reuse of bag and media two times (one year of production).
- Figures presented are not average costs, but costs based on good cultural practices to produce a quality product.

This computerized cost study is designed to allow most factors to be easily changed and recalculated. If you would like a customized calculation, send a copy of this cost study with your own cost figures and a self-addressed-stamped envelope to the address above.

Cucumbers: Cultural Costs for Greenhouse Production-1985

Based on Bag Culture, one 4-month Winter Crop ,120 plants/1000 sq ft

Labor rates: \$ 7.50 per hour skilled labor
 \$ 4.09 per hour field labor
 Yield: 185 boxes per 1000 sq ft

| Operation | Labor hours per 1000 sq ft | Cash and labor Costs per 1000 sq ft | | | total Cost | Your Cost |
|--|-------------------------------|--|--|---------------------------|----------------|--------------|
| | | Labor | Materials Kind and Quantity | Cost | | |
| Cultural Costs: | | | | | | |
| Plastic roof cover (replace every 2 1/2 years) | 2 | 11.59 | \$119 per 1000 sq ft over 2 1/2 years | 23.00 | 35.39 | |
| setup germination house | 2 | 15.00 | Pots, soil, seed, water, etc. | 60.00 | 75.00 | |
| Grow transplants | 2 | 15.00 | | | 15.00 | |
| bag preparation ,filling | 2 | 8.18 | bags and media | 56.40 | 64.58 | |
| planting and support | 2 | 8.18 | | | 8.18 | |
| prune and train | 20 | 81.75 | String & clips-\$10.32 over 2 years | 2.50 | 84.33 | |
| fertilize & irrigate | 2 | 15.00 | fertilizer | 51.00 | 66.00 | |
| Pest control | 4 | 30.00 | pesticides | 153.00 | 183.00 | |
| utilities | | | gas | 225.00 | 225.00 | |
| | | | Electricity | 44.64 | 44.64 | |
| plant removal | 1 | 4.09 | | | 4.09 | |
| maintenance and roofing | 6 | 36.81 | | | 36.81 | |
| supervision | 7 | 52.50 | | | 52.50 | |
| interest on operating capital | | | 13% annual rate for 4 months | | 38.76 | |
| TOTAL CULTURAL COST | 44 | 270.08 | | 616.42 | 933.26 | |
| harvest costs: | | | | | | |
| Picking | 20 | 81.75 | | | 81.75 | |
| Wrapping & boxing (see ' service') | (15) | | Custom-\$1.75 per box Shrink wrap- \$.26/box Box- \$.55 each Service- \$.94 per box | 48.10 101.75 173.90 | 323.75 | |
| Marketing | 2 | 15.00 | | | 15.00 | |
| Hauling | 5 | 20.44 | Truck milage \$.18 per box | 33.30 | 53.74 | |
| TOTAL HARVEST COSTS | 27 | 117.19 | | | 474.24 | |
| Cash overhead | | | | | | |
| office and business costs | | | | | 50.00 | |
| County taxes | | | | | 120.00 | |
| TOTAL CASH OVERHEAD COSTS | | | | | 170.00 | |
| Total Cash Costs | | | | | 1577.50 | |
| Total cash cost per box | | 185 boxes | | | 8.53 | |
| Investment | | Original Cost 1,000 sq ft | Cost per crop Depreciation | Interest @ 13% | | |
| Equipment & buildings | | 4793.00 | 170.00 | 104.00 | 282.00 | |
| land | | 250.00 | | 32.50 | 32.50 | |
| Total Investment Cost/Crop | | | | | 314.50 | |
| TOTAL COSTS PER 1,000 Square feet of Greenhouse | | | | | 1892.00 | |
| Cost per box | | (if yeild=185 boxes/1000 sq ft) | | | 10.23 | |

greenhouse cucumbers— San Joaquin Valley ,Calif.--1985
 Equipment and Building List--20,000 sq ft Greenhouse

| Item | Original Cost | Cost Per 1,000 sq. ft. | Life (years) | Depreci- ation | Interest 13% | Total \$ |
|---|------------------|------------------------------|-----------------|-------------------|-----------------|-------------|
| Greenhouse structure | 47600 | 2380 | 10 | 238 | 155 | 393 |
| Greenhouse Contract labor | 10000 | 500 | 10 | 50 | 33 | 83 |
| Heaters,fans and cooling | 7500 | 375 | 10 | 38 | 24 | 62 |
| Irrigation system | 5950 | 298 | 10 | 30 | 19 | 49 |
| Pump,well,Pressure Storage | 5000 | 250 | 20 | 13 | 16 | 29 |
| Electrical material & contract labor | 6000 | 300 | 10 | 30 | 20 | 50 |
| Tools,hoses,etc. | 600 | 30 | 2 | 15 | 2 | 17 |
| Pickup truck | 10000 | 500 | 5 | 100 | 33 | 133 |
| Pesticide sprayer | 1200 | 60 | 5 | 12 | 4 | 16 |
| Packing structure | 2000 | 100 | 10 | 10 | 7 | 17 |
| total | 95850 | 4793 | | 535 | 312 | 846 |
| Cost per crop--3 per year | | | | 178 | 104 | 282 |