## LIST OF PLANS FOR GREENHOUSE AND HORTICULTURAL FACILITIES

These plans can be obtained from your county Kentucky Cooperative Extension Office, or from: Plan Service, Agricultural Engineering Department, University of Kentucky, Lexington, Kentucky, 40506. The number of sheets for each plan is indicated. The cost per sheet is $1.00 for 1 & 2 sheets; $2.00 for 3 or more sheets.

### PLANT GROWTH CHAMBER:

**Propagation Unit for Plants.** 6101 (3 Sheets). Indoor type with pot holder shelf, fluorescent lights, ventilation fan, and pump watering system, 3’ x 6’.

### HOTBEDS AND COLDFRAMES:

- **Mini-hotbed and Propagating Frame.** 6081 (1 Sheet). Wooden baseboards, rounded wire mesh support and plastic cover, electric heating cable, 3’ x 5’.
- **Hothed and Propagating Frames.** 5971 (1 Sheet). 2 x 2 inch wood and 1/2 inch thin-wall conduit frame with 1 x 8 inch baseboards, electric heat cable, plastic covered, 6’ x 6’ with 3’4” ridge height.
- **Coldframe.** 771-9 (1 Sheet). Wooden 2 x 2 inch frame, sloped hinged cover and vent opening, plastic covered, 5’ x 8’.

### SMALL GREENHOUSES:

- **Hobby Greenhouse.** 771-8 (3 Sheets). Wooden 2 x 2 inch nailed rigid frames, 2 x 4 baseboards, 10’ x 16’ (or longer), with heating and ventilation details.
- **Ky. Specialty Field Greenhouse.** 771-3 (4 Sheets). Wooden 2 x 2 inch nailed rigid frames, 2 x 4 baseboards, 10’ wide by any length, with heating and ventilation details.

### LARGE GREENHOUSES:

- **Quonset Field Greenhouse.** 771-4 (3 Sheets). 1 inch thin-wall conduit, bent curved, 2 x 4 wooden baseboards, 10’ wide by any length, with heating-ventilation details.
- **Gothic Greenhouse.** 5946 (1 Sheet). 1/4 x 4 inch plywood bands and 2 x 2 inch wood frame, 1 x 8 inch wooden baseboards, 8’ x 12’ (no heating and ventilation shown).
- **Rigid-frame Greenhouse.** 771-1A (2 Sheets). Wooden 2 inch lumber with glue-nail plywood-gusset joint construction, concrete pier foundation, 4’ frame spacing, 16’ to 40’ widths, any length (no heating-ventilation details).
- **Rigid-frame Greenhouse.** 771-2A (2 Sheets). Same as 771-1A except 10’ frame spacing, 16’ to 34’ widths, and any length.
- **Teaching Greenhouse.** 8890-1A (4 Sheets). Rigid-frame construction per 771-1A but with concrete foundation, 28’ x 60’, with bench, heating, ventilation, electrical, and plumbing details.
- **Rigid-frame Greenhouse.** 6029 (2 Sheets). Similar to 771-5A except use 6 inch Dia. x 4 foot post piers for frame support and 7’ end entrance doors, 23’ x 48’, or any length (no heating-ventilation details).
- **Lath House for Nursery Stock.** 6064 (2 Sheets). Rigid-frame construction similar to 6029, covered with 1 x 2 inch furring strips, snow fence lattice, or similar materials, 23’ x 48’ (or any length).

### HEATING-VENTILATION PLANS FOR GREENHOUSES:

- **Modulated Damper H.-V. System.** 811-2A (2 Sheets). Plan shows fans and heat source located on the side of the

**Issued in furtherance of Cooperative Extension work, acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture. Charles E. Barnhart, Director of Cooperative Extension Service, University of Kentucky College of Agriculture.**
house, with the heat source in an enclosure. Motorized modulated dampers, fan, and distribution baffle provide automatic summer and winter control. Any type of heating unit can be utilized. For 26'40' single-width houses.

Unit Heater-fan H-V System. 811-7 (3 Sheets). Plan shows vented gas-fired unit heaters suspended inside the house with the discharge fan running continuously for winter air circulation and heat distribution. Ventilation is provided by exhaust fans and motorized intake shutters in the gable ends of the house. System is suitable for most crops and can be utilized in single-row and multi-row houses.

ROADSIDE STANDS AND MARKETS:

Rounded Display Stand for Products. 5982 (1 Sheet).
Four half-circle shelves cut from one sheet of 1/2 inch plywood, plus supporting frame work, 4' x 8'.

Roadside Stand. 5983 (2 Sheets). Wood frame, open front, with display shelves, 8' x 16'.

Roadside Market. 5192 (1 Sheet). Wood frame, enclosed, 24' x 28'. Sales receiving and grading space, porch.

FRUIT AND VEGETABLE STORAGE:

Fruit and Vegetable Storage Cellar. 734-6 (1 Sheet). Concrete, underground, 10' x 10'.

LITERATURE AVAILABLE

The following publications on greenhouse construction, operation, and management are available from your local county extension agent or by writing to the Bulletin Room, Ag Distribution Center, University of Kentucky, Lexington, KY 40546-02291.

AEN-6 = "Preservative Treatment of Greenhouse Wood"
AEN-7 = "Polytube Heating-Ventilation Systems and Equipment"
AEN-8 = "Estimating Greenhouse Heating Requirements and Fuel Costs"
AEN-9 = "Estimating Greenhouse Ventilation Requirements"
AEN-10 = "Greenhouse Coverings"
AEN-12 = "Greenhouse Structures"
AEN-13 = "Greenhouse Benches"
AEN-14 = "Painting Greenhouses and Equipment"
AEN-15 = "Rigid-Frame Greenhouse Construction"
AEN-18 = "Air Circulation in Greenhouses"
AEN-19 = "Greenhouse Humidity Control"
AEN-28 = "Cooling Greenhouses"
AEN-30 = "Greenhouse Ventilation Systems"
AEN-31 = "Greenhouse Heating Systems"
AEN-32 = "Greenhouse Location and Orientation"