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 25 cents. See your county agent for additional information and descriptions of these plans.

**Pole Barns**

5780 (3 Sheets)
- Barn with ridge line centered between posts. Plan shows barn widths of 39' and 52'. Length of barn is 60', but may be decreased or extended in units of 15'. Rafters fastened to poles using 2" x 6" scabs.

5781 (3 Sheets)
- Barn with ridge line centered on row of posts. Barn shown 39' or 52' wide as desired, and 60' long. The length can be increased or decreased in units of 15'. Rafters are fastened to poles with 2" x 6" blocking.

5832 (2 Sheets)
- Pole barn, Type C Construction. Basic unit is a 26' wide clear-span barn 60' long. By adding 14' sheds to either or both sides, the barn can be built 39' or 52' wide. The length of the barn can be decreased or increased by 15' units.

5833 (1 Sheet)
- Details for installing doors, windows and siding on pole barns.

**Feeding Barns and Sheds**

Feeding Barns and Sheds (Pole Construction)

5935 (2 Sheets)
- Hay storage and feeding shed 26' x 60'. Length can be extended by adding 12-foot units. Open sides and ends. Feeding racks on two sides with front slats or racks straight up and down. Concrete pavement on four sides of the shed. Overhead of roof is 10' on each side. Nailed truss.

5794 (2 Sheets)
- Multi-purpose pole barn or cattle and hay barn. Building 30' x 60'. Open on one side. Nailed clear-span roof trusses. Metal straps used to fasten trusses to girders, poles 12' on center. Movable feed rack detail.

11.731-2 (3 Sheets)
- Hay storage and feeding shed 26' x 108'. Length can be extended by adding 12-foot units. Open sides and ends. Feeding racks on two sides with front slats or racks at an angle. Roof overhang of 4' or 8'. Concrete pavement 10' wide on both sides of the shed. Glue-nailed truss.

6156 (4 Sheets)
- Confinement beef barn, 78' - 7" wide x 48' units of length, 30' sheds each side, 14' drive, slatted floor with manure pit each shed. Siding.

6158 (3 Sheets)
- Confinement beef barn, rear driveway. Shed roof, open south side, 42' wide x 48' units of length. Manure pit 26' x 48' units of length.

6160 (3 Sheets)
- Confinement beef barn, rear driveway. Gable roof, open on one side, 46' wide x 48' units of length. Manure pit 31' x 48' units of length.

**Hay Racks**

Hay Racks (Hay and Silage)

Misc. 38 (No Charge)
- Hay rack, 4' x 12'. Floored bottom 12" from ground. V-shaped hay space using 1" x 4" slats 6" apart. On 4" x 6" skids.

5772 (1 Sheet)

5925 (1 Sheet)
- Rack for hay or silage. Covered with metal top. Rack is 3'-9" wide and 12'-0" long. Box-type with sloping slats for cattle to feed through. On skids.

5777 (1 Sheet)
- Two plans of movable hay racks for cattle are shown. Both racks hold about 1/2 ton of hay. One plan can be used for cattle having horns; the other may be used for cattle without horns.

5908 (1 Sheet)
- Self-feeding chopped hay or silage wagon. Portable rack on four wheels. Width 5'-8" to 6'-8", length 12' to 20'.

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.
Cattle feeder, single rack for inside of barn, or double rack for outside of barn. Double rack can also be used inside of barn.

Mineral and Salt Feeders

AEN-16 (No Charge)
Feeder 3' wide, 4' long, on skids. Height 4'-2" in front and 3'-10" in back. Wood construction with feed box can be divided for minerals as desired. Metal cover. List of materials. All-weather feeder.

5759 (1 Sheet)
Feeder 5' wide, 6' long, on skids. Box 2'-6" wide. Height 4'-10" in front and 4'-2" in back. Wood construction. Metal cover. All-weather feeders. Skids across ends of feeder.

5906 (1 Sheet)
Feeder with sloping front. Stationary setting in field. Back side and ends to be exterior plywood. Metal top. Tempered hardwood bottom. Box 20" x 35" inside.

Grain Feeding

Misc. 38 (No Charge)
Grain bunk, portable on legs, 3' wide, 10' long, and 6" deep.

6066 (1 Sheet)
Bunker type feeder. Wooden box 3' wide, 12' long with removable legs made of welded pipe. Capacity about 400 pounds of feed.

5083 (1 Sheet)
Movable self-feeder. On wheels, hopper type feeder. Filling doors at each end. Capacity 200 bushels of ground feed.

5776 (1 Sheet)
Movable self-feeder. On skids. Holds about 60 bushels of ground feed.

6045 (1 Sheet)
Movable wagon box feeder for cattle on wheels. Capacity of about 170 bushels of ground grain. Cattle feed from both sides. Box 6'-4" wide, 15'-2" long, and 4'-6" deep.

Bunker Self-feeding Fences

5872 (2 Sheets)
Self-feeding fences for bunker and trench silos. Two plans for suspended fences and three plans for skid-mounted fences.

Bunk Feeders

5864 (1 Sheet)
Covered feeder for cattle. Wood trough 4'-3" wide inside and any length desired in 15-foot units. Cover supported by poles. Concrete pavement each side of trough, 6'-0" minimum.

5854 (1 Sheet)
Fence-line feeder for cattle. Concrete floored manger with concrete block at front, boards at back. Concrete pavement for cattle to stand on while feeding. Feeder is covered with shed roof.

5939 (1 Sheet)
Bunk of wood 5'-6" wide, length as desired. Concrete pavement 12'-0" wide, both sides of bunker. Cover or roof supported with poles.

6012 (1 Sheet)
Silage feed bunks. Four plans for bunks, wood or concrete. Can be used as fence line feeders. Plan for covered wood bunk shown.

5862 (1 Sheet)
Covered feeder for cattle. Concrete bottom to trough 4' wide with 12", 16", or 20" of 2" boards as sides. Overall width of trough and pavement at sides of trough 32'. Poles placed on 7'-6" centers to support cover.

11.77013-1 (1 Sheet)
Cart to be placed on track over the manger. Cart 10'-0" long, 8'-0" long at bottom, and 3'-0" wide. Wood construction.

CATTLE HANDLING AND TREATING EQUIPMENT

Corrals

6041 (3 Sheets)
Portable corral transport. Built of steel frame and welded wire sides. Diamond mesh floor. For non-highway use and less than 20 mph. Trailer design, 8' x 20' and 6'-6" high.

6141 (2 Sheets)
Trailer for cattle, gooseneck type, for pickup or truck 7-ton capacity, steel frame, wood floor. Bed 6' x 16'.

5961 (1 Sheet)
Gates and fences for corrals.

5835 (3 Sheets)
Six layouts for corrals. Holding pens, chutes, loading chutes, headgate. Plan 1 is 270' x 300', Plan 2 is circular-shaped 100' outer ring. Plan 3 is 116' x 150' with inner pens at an angle. Plan 4 is 32' x 48' chute at one side. Plan 5 is 70' x 128' with four pens. Plan 6 is 60' x 60' with two pens and chutes at one side. Headgate and loading chute details.
11.772-35 (1 Sheet)
Corral and chute. Three pens 32' x 60' chute at the long side of pens. Loading chute and sliding gate details.

5796 (4 Sheets)
Two pen corral. Each pen 24' x 32'. Holding and loading chute.

5790 (1 Sheet)
Corral layouts with two 30' x 60' pens. Plan 1 with interior working chute. Plan 2 with outside working chutes.

5797 (4 Sheets)
Six pen corral. Each pen 24' x 24'. Holding and loading chute.

5991 (2 Sheets)
Two-pen layout (50 head capacity). Chutes to one side. Additional pens can be added to other side of chute. Details of holding and loading chute, blocking gate and headgate.

11.8814-2 (1 Sheet)
Cutting and sorting pens. UK Coldstream Farm layout. Four pens. Holding chute in center of pens. Loading chute at corner of one pen. Overall dimensions 100' x 100'.

5974 (1 Sheet)
Corral with two rectangular pens and cross fences in each pen. Shown 120' x 140'. No details of chutes, only location of parts.

6049 (2 Sheets)
Corral with curved chute for beef cattle. Plan includes pens, loading chute, squeeze chute, working pen, scale location.

6106 (3 Sheets)
Corral layout and equipment. Corral has 21 pens. Pens cover 98' width and 236' length. Headgates, fence and gate details, and office arrangement, 14' X 30' building.

6161 (3 Sheets)
Cattle Corral Layouts. Three designs. Lots feed into central rotating gate and to loading chute.

Holding Pens, Squeezes and Headgates, Loading Chutes, Stocks and Dipping Vats

11.772-17 (2 Sheets)
Holding pen arrangement, having a loading chute, headgates, squeeze gates, scales. Detail of headgate shown. Opening of headgate adjusted at top by changing location of bolt in crosspiece.

11.772-25 (1 Sheet)
Cattle Chute: Adjustable type, steel frame, set in concrete for small, medium or large cattle.

Cattle stock on skids. Rollers and canvas lift animal. 2'-9" and 7'-0" high. Covered with metal roof.

Breeding chute for beef cattle. Covered.

Cattle dipping vat. Pre-dipping area, crowding area, inspection chute vat, dipping pen, and drain area.

Bull Pens

Bull pen and paddock. One bull pen and feed alley. Frame building 14' x 18', with roof. Breeding pen and paddock 16' x 40'.

Calf Handling and Feeding


Calf creep. Portable 7' x 10'. Bin capacity 40 bushels. Shed roof over bin only. Adjustable creep fence.

Calf creep, 8' x 12'. Entire creep covered with one side open for calf entrance. Used on U.K. Coldstream Farm.

Creep-feeder for 40 to 50 calves. Filled at end. Capacity 50 bushels of grain or ground feed. Built on skids. Fenced enclosure not needed.

Waste Handling

Rectangular concrete manure tank. PCA plan. Designed for 20-foot width; lengths from 20' to 100' and depth from 6' to 10'. Capacity of 18,000 to 150,000 gallons. Reinforced concrete construction.

Liquid manure tank. Widths from 12' to 24', length as desired and depth of 10'. Reinforced concrete construction.

Watering