10-1950

Farm Building Plans

Agricultural Extension Service, South Dakota State College

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1. Buildings are a necessary part of each farm unit. They are used to provide shelter and facilities for farm family living, to house livestock, for storage and processing of food and feed, and for utility storage or service. Most farm buildings are designed to be used for many years. A carefully planned, well-located building carefully adapted to the use for which it is intended, is a profitable investment and a source of satisfaction. On the other hand, a poorly planned and improperly built structure may prove both costly and unsatisfactory. Every building on the farm represents a longtime investment and plans for any proposed building should be carefully selected and studied.

2. The plans listed in this circular are not for elaborate and expensive buildings. Most of them are for plain, substantial, well proportioned, serviceable buildings, designed for the owner of the farm. No particular claim for originality is made in the design of these buildings as the best ideas of construction have been freely taken from other plans from practically every state in the Union. Particular effort has been made to design these buildings so that they are uniformly strong. If a building is built stronger in one place than it is in another, lumber is wasted.

3. The importance of constructing a building exactly according to the plan cannot be over-estimated. Usually a few changes will so re-arrange the plans as to change it entirely and often eliminate the best features. Small changes in a plan usually spoil the effectiveness of the ventilating system of that building.

4. A modern attractive building is not fancy. It is plain, but in good proportion, with pleasing lines and well placed windows. It is substantially built, conveniently arranged and well painted.

5. A good job of nailing is an important item in the construction of frame buildings. Investigations have shown many failures are due to poor nailing.

6. A ventilating system alone will not prevent the deposit of moisture and frost, but it will help by carrying out the excess moisture. Two other factors are important in the control of frost—the insulating of cold sidewalls and ceilings, and the keeping up of the temperature to a reasonable degree. The temperature may be kept up by having plenty of stock in the barn and by keeping the overhead space low.

7. Recent tests have shown that wall sheathing when put on diagonally will often increase the strength of the wall against end thrust by seven times over sheathing put on horizontally.

### Free Publications on Agricultural Engineering and Related Subjects

#### South Dakota Experiment Station Publications

2. Converting a Horse-Drawn Mower into a Power Mower. Experiment Station Circular No. 44.
4. Relation of Colloids in Soils to Its Use in Rammed Earth Walls for Farm Buildings. Experiment Station Bulletin No. 298.
6. Homemade Rubber Tired Carts and Trailers. Experiment Station Bulletin No. 333.
10. Galvanized or Painted Steel Fence Posts. Experiment Station Bulletin No. 400.

#### Regional Publications

These publications on farm buildings and equipment are the result of a cooperative activity of 14 Midwest Land Grant Colleges and the U. S. Department of Agriculture.


#### U. S. Department of Agriculture Publications

Single copies of the following U. S. Dept. of Agriculture bulletins can be obtained free of charge when in supply at this station. If more copies are desired they may be obtained through the Superintendent of Documents, Washington 25, D. C.

1. Use of Concrete on the Farm. Farmers’ Bulletin No. 1772.
Working drawings, a list of which follows in this circular, were prepared by three different groups:

The plans numbered from 1,000-9,999 are prepared by the U.S. Department of Agriculture.

The plans numbered 10,000 and above are those prepared and published by the Midwest Plan Service for North Central Region conditions, and are prepared by the agricultural engineers of the 14 North Central Agricultural Colleges.

The nominal charge made for plans merely covers the cost of printing them. Since there are no special funds provided for a plan service, the South Dakota Plan Service is operated on a self-sustaining, non-profit basis through the sale of plans.

### Beef Barns

<table>
<thead>
<tr>
<th>Plan Number</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>72401</td>
<td>L-shaped open shed 24 feet wide. Intended for location at the northwest corner of the feedlot. Wings are variable in length. One wing may be used to store hay and bedding. Plan 72401, not illustrated, is identical except it is 20 feet wide for use only as a shelter.</td>
<td>15¢</td>
</tr>
<tr>
<td>72402</td>
<td>Open Front Cattle Shed, 24' x 48', 2 sheets</td>
<td>20¢</td>
</tr>
<tr>
<td>72403</td>
<td>Rectangular Open-Front Cattle Shed, 24' x 48', 2 sheets</td>
<td>30¢</td>
</tr>
<tr>
<td>72404</td>
<td>Open-Front Cattle Shed, 24' x 72', 2 sheets</td>
<td>30¢</td>
</tr>
<tr>
<td>72405</td>
<td>Semi-Open Cattle Shed, 30' x 100', 2 sheets</td>
<td>30¢</td>
</tr>
<tr>
<td>72406</td>
<td>Two-Shed Cattle Unit, 3 sheets</td>
<td>45¢</td>
</tr>
<tr>
<td>72407</td>
<td>Semi-Open Cattle Shed, 36' x 80' with 36' x 40'</td>
<td>45¢</td>
</tr>
<tr>
<td>72408</td>
<td>Two sheets</td>
<td>60¢</td>
</tr>
<tr>
<td>72409</td>
<td>Tile Beef-Cattle Shed, 24' x 72', 2 sheets</td>
<td>30¢</td>
</tr>
<tr>
<td>72410</td>
<td>L-Shaped Open Front Cattle Shed, 24' x 72', 4 sheets</td>
<td>30¢</td>
</tr>
<tr>
<td>72411</td>
<td>Four sheets</td>
<td>30¢</td>
</tr>
</tbody>
</table>

The plans numbered 10,000 and above are those prepared by South Dakota Extension Service and Experiment Station.
General Barns

121—General Barn Plan—4 sheets $0.40
36' x 60', Sets north and south, with feedway in center. Capacity as shown 8 horses, 13 cows. Calf pen and 2 box stalls. Side walls of clay block up to loft, although may be built of lumber.

122—General Barn Plan—5 sheets $0.50
36' x 60', with L on northeast corner for loose and young stock. Provides sheltered lot. Capacity 10 horses, 12 dairy cows, bull, 12 calves, and a carload of loose stock. Feed room and silo. Stock faces out, with driveway through center. This barn may be built in sections as funds permit.

123—General Barn Plant—4 sheets $0.40
34' x 46', Sets north and south. Stock faces out, with driveway through center. Capacity 8 horses, 10 cows and good calf pen.

72101—General Purpose Barn, 32' x 32', 5 sheets $0.75
Sets north and south, gambrel roof with loft, no driveway.

72111—General Purpose Single Story Barn, 34' x 30', 4 sheets $0.60
Sets north and south, gambrel roof, no loft, no driveway.

72112—General Purpose Two Story Barn, 34' x 60', 5 sheets $0.75
Sets either way, gambrel roof, no driveway, 6 ft. center feed alley. Capacity 12 cows, 4 horses, calf pen, box stall, and space for loose stock.

72121—General Purpose Two Story Barn, 36' x 64', 5 sheets $0.75
Sets north and south, gambrel roof, through driveway, stock faces out. Capacity 10 cows, 8 horses, box stall, bull pen, and feed bin.

Dairy Barns

111—Dairy Barn Plan—5 sheets $0.50
36' x 72', Sets north and south with L on north and east providing sheltered lot. Complete ventilating system. Capacity for 25 cows, 17 calves, one bull pen, 100 tons of hay and bedding. Cattle face out, with driveway through the center.

112—Safety Bull Pen, 1 sheet $0.10
Size of pen, 16' x 64'. Size of shed, 12' x 16'. Size of breeding stall, 4' x 12'8". Pen is built of heavy cedar posts and plank. Details given. Bill of Material attached.

113—Dairy Barn Plan—3 sheets $0.30
Gambrel roof barn, 34' x 72' with 12½' posts. Sets north and south with horses and calves in north end. Capacity 4 horses, 12 calves, 28 cows, feed in the loft, and for 50 tons of hay. Cows face out.

5021—Small Dairy Barn, 1 sheet $0.15
18' 6" x 30' 6". 4 tie stalls. Calf pen and feed roof. Bill of materials included.

72301—Dairy Barn—Two Story Tie Stall Type, 32' x 80', 7 sheets $1.05
Sets north and south, gambrel roof, dormer windows, cows face in, Capacity 26 tie stalls, 3 box stalls, calf pen, and bull pen.

72311—Dairy Barn—Tie-stall Type, 34' x 64', 7 sheets $1.05
Sets north and south, gambrel roof with dormers, cows face out, driveway through center. Capacity 20 tie-stalls, 2 box stalls, and calf pen.

72321—Dairy Barn—Two Story—Tie-stall Type, 36' x 80', 7 sheets $1.05
Sets north and south, gambrel roof with dormers, cows face out, driveway through center. Capacity 28 tie-stalls, 2 box stalls, and two calf pens.

Horse Barns

72221—Horse Barn Two Story, 36' x 58', 3 sheets $0.45
Sets north and south, gambrel roof, dormer windows, capacity 14 single stalls, box stall, feed room and harness room. Stalls face in.

Barn Framing

72001—Clyde Roof Truss, 1 sheet $0.15
72002—Shawver Roof Truss, 1 sheet $0.15
72003—Gothic Rafters—bent rafter type, 1 sheet $0.15
72004—Gothic Rafters, sawed rafter type $0.15
Hog Houses—Centralized

211—South Dakota Straw Loft House, 2 sheets
24' x 48' with straw loft overhead. Feed alley and driveway through center. $20.00

211-C—Concrete Block Hog House, 2 sheets
Same as No. 211 except concrete block construction. $20.00

211-D—Dakota Hog House Plan, 2 sheets
Clay tile walls, 25' x 60', 20 pens. Sets east and west. Driveway and feeding floor through center. $20.00

213—Frame Hog House Plan, 2 sheets
24' x 48', 16 pens. Sets north and south. No loft. Gable roof. $20.00

215—Hog House with Loft Overhead, 2 sheets
24' x 48' with loft for alfalfa and bedding. Gable roof, ventilating system. Sets north and south. Bill of materials attached. $20.00

216—Small Hog House (Not movable), 1 sheet
12' x 18', 3 pens in a row. Sets east and west. Combination roof. Bill of materials on the plan. This house may be built longer. $10.00

217—Economy Hog House Plan, 1 sheet
8' x 36', 6 pens. Sets east and west. Combination roof, rough lumber. No floor. $10.00

218—Shed Roof Hog House Plan, 1 sheet
12' x 30'. Shed Roof. Faces south, with feed alley along north. Five pens. $10.00

2163—Single Story Centralized Farrowing House, 24' x 42', 3 sheets
Sets north and south, low side walls, roof windows, gable roof, masonry walls. $45.00

21621—Two Story Centralized Farrowing House, 22' x 32', 2 sheets
Sets north and south, gable roof, loft at plate line, high foundation. $30.00

21622—Two Story Centralized Farrowing House, 26' x 48', 3 sheets
Sets north and south, 10' posts with gambrel roof for large loft space, 9' driveway. $45.00

Hog Houses—Colony

251—Movable Hog House Plan, 1 sheet
"A" type with sun doors in roof. 7' x 8' on the ground. Roomy, substantial, ventilated, easy to build. Lumber cuts right. Bill of material on plan. $10.00

253—Movable Hog House Plan, 2 sheets
Rectangular house with shed roof. 6' x 8'. Bill of materials on the plan. $20.00

255—Two-Pen Movable Hog House Plan, 1 sheet
8' x 12' with combination roof. A very economical, low type, movable hog house. Can be built from native lumber or from used lumber. Bill of material on the plan. $10.00

256—Two-Pen Movable Hog House, 1 sheet
8' x 12' with shed roof. Front 6' high and rear 4' high. Designed and used by South Dakota State College Animal Husbandry Department. Two houses may be moved together for combination range-farrow house. Plan for alley roof is shown. $10.00

272601—Portable Hog House, 6' x 7'—"A" type, 1 sheet
15¢

272602—Portable Hog House, 6' x 8'—Modified "A" type, 1 sheet
15¢

272603—Two-Pen, Straw Loft Movable, 8' x 14', 1 sheet
15¢

272604—Portable Hog House, 6' x 8' or double unit 8' x 12', 1 sheet
15¢

Poultry Houses

311—Poultry House Plan, 2 sheets
16' x 32' as shown in plan. The plan calls for 16' units, each unit the same size. The house may be built in lengths of 16', 32', 48' or 64'. Frame house, faces south, combination roof, straw loft, capacity of 65 or 75 birds for each 16' unit. $20.00

312—Poultry House—Rammed Earth, 2 sheets
Plan is for a 20' x 40' laying house with 12' pise or rammed earth walls. Faces south with a combination roof and straw loft—capacity 200 to 265 birds. $20.00

312-C—Poultry House—Concrete Block, 2 sheets
20' x 40' laying house with concrete masonry wall using standard 8 x 8 x 16" concrete blocks. This plan is an adaptation of Plan No. 312 with concrete block being substituted for rammed earth. $20.00

313—South Dakota Poultry House, 3 sheets
24' x 34', Completely insulated and ventilated. Plan shows details of built-in feed room, nesting room, and dropping pits. Designed for comfort of laying hens and labor-saving for the operator. Capacity 300 layers. $30.00

3277—Poultry House—Straw Loft, Gable Roof, Concrete Block Walls, 3 sheets
20' x 20', 1 sheet

3272—Poultry House—Shed Roof, Very flat 20' x 20', 1 sheet
15¢

32725—Poultry House—"Two Stories in One"—Gable Roof, 20' x 20', 3 sheets
$45.00

32726—Poultry House—"Two Stories in One"—Gable Roof, 22' x 24', 3 sheets
$45.00

32731—Poultry House with Straw and Storage Loft, Gable Roof, 30' x 30', 2 sheets
30¢

32732—Poultry House with Straw and Storage Loft, Gable Roof, 40' x 40', 2 sheets
30¢

32733—Poultry House—Same as above, 20' x 20', 1 sheet
15¢

32734—Poultry House—Same as above, 24' x 24', 1 sheet
15¢

32725—Two Story Poultry House. For Commercial Production, 26' x 100', 4 sheets. 60¢
A full two-story house with 9 pens. Total capacity 1200 to 1700 birds.

Brooder Houses

351—Brooder and Colony House Plan, 1 sheet
10' x 12', with combination roof. Matches poultry house plan No. 311. Movable. Bill of material on plan. $10.00

352—Poultry Range House, 1 sheet
An inexpensive and easily moved range shelter with roosts. 10' x 10', of frame construction with 1" chicken mesh on four sides and shiplap covered with prepared roofing on roof. $10.00

32701—Portable Chick Brooder House, Shed roof, 12' x 10', 2 sheets
30¢

32702—Portable Chick Brooder House, Shed—Same as above 12' x 16', 2 sheets
30¢

32703—Stationary Brooder House—Combination Roof 3 pens, 16' x 36', 3 sheets
45¢

32704—Portable Chick Brooder House—Shed roof, 10' x 12', 1 sheet
15¢

32705—Portable Chick Brooder House—Same as above 12' x 14', 1 sheet
15¢

Turkey Sheds

321—Turkey Shed, 1 sheet
An inexpensive shed for turkeys. Building 24' x 24' with flat gable roof. May be converted into machinery shed. Partial open front protected with heavy woven wire fence. Capacity for 175 turkeys. $10.00

Sheep Sheds

5019—Sheep Shed, 1 sheet
Gable roof with 6' posts. 16' x 24'. Dirt floors. Feed rack through center. Bill of materials included. $15.00

72501—Single Story Sheep Shed, 24' x 32', 1 sheet
Facies south, all enclosed with double doors on south. Shed roof. $15.00

72502—Open Sheep Shed, 22' x 42', 2 sheets
Straight open shed divided in 3 pens with feed alley. Gable roof. $30.00
Machine Sheds

711—Machine Shed Plan, 2 sheets
$20
Frame building 24' x 66'. Continuous doors on side. Should face south or east.

712—Machine Shed—Rammed Earth, 1 sheet
$10
This plan is for a 26' x 72' machine shed with 12" walls of rammed earth. The building has a special high clearance roof truss and three wide doors.

74121—Machinery Shed and Shop, 1 sheet
$15
Frame construction. 20' x 48'. Shop in one end. Gable roof, Sliding doors.

74122—Machinery Shed, 2 sheets
$30
Frame construction. 24' x 36'. One high door in end. One wide door on side, Gable roof.

74123—Machinery Shed and Shop, 3 sheets
$45
Frame construction. 26' x 80'. Gable roof. Dormer for tall door in side.

74124—Semi-Circular Machinery Shed, 2 sheets
$30
Hangar type. 36' x 60'. Stud-rafter construction on laminated arch ribs. Galvanized metal covering.

74127—Pole Machine Shed, 1 sheet
$15
24' x 36'. Roof supported by poles. All sides open. Gable roof with corrugated sheet metal roofing. Height of roof above ground can be varied by changing length of poles. 4 poles 12' on center along each side and through the center.

Garages

74111—One Car Garage, 1 sheet
$15
Frame construction. 12' x 20'. Gable roof.

74112—Farm Shop and Double Garage, 2 sheets
$30
Frame construction. Gable roof. 20' x 24'.

74113—Two Car Garage, 2 sheets
$30
Frame construction. 18' x 20'. Hip roof.

Farmstead Plans

The following plans are best adapted to a south front.

811—1 sheet
$10

812—1 sheet
$10

815—1 sheet
$10

816—1 sheet
$10

817—1 sheet
$10

The following plans are best adapted to an east front.

821—1 sheet
$10

824—1 sheet
$10

The following plans are best adapted to a north front.

831—1 sheet
$10

833—1 sheet
$10

834—1 sheet
$10

835—1 sheet
$10

The following plans are best adapted to a west front.

841—1 sheet
$10

842—1 sheet
$10

851—Farmstead Plans for each front, 1 sheet
$10

Miscellaneous Plans

533—An Adjustable Cow Stall, 1 sheet
$10
An adjustable double stall for beef cattle. Could be used for dairy stall. Length of stall is adjusted by moving manger.

534—Horse Stall, 1 sheet (small)
$5
Detail of horse stall, showing height of manger and partition. Steel stall guards and crocodile wood block floor with concrete curb.

542—Rubber Tired Trailer, 1 sheet
$10
A four wheel trailer with hydraulic jack dump attachment, using 600 x 16 used auto tires and salvaged car frames. Good trailer hitch.

543—Rubber Tired Mounting for Moving Small Buildings, 1 sheet
$10
This plan is for demountable attachment to small brooder or farrowing houses for moving them short or long distances.

544—Heavy Duty Tilt-Platform Rubber Tired Trailer, 1 sheet
$10
This plan is for a two-wheeled (dual wheels) trailer for truck or tractor for hauling heavy farm machinery, etc.

545—Light Car Trailer on Single Wheel, 1 sheet
$10
This is a caster wheel trailer for auto, using standard 4 x 8 wheel-barrow pneumatic tire—for use around the farm and on the road.

550—Homemade Weed Sprayer, 1 sheet
$10
Simple, easy to construct, homemade weed sprayer. Plan shows piping diagram showing location of the pump, by-pass valve, strainer, cut-off valve, boom connections, and nozzles. Two-way hinges on boom. Power take-off operated pump and 20-foot boom.

552—Concrete Corner Post, 1 sheet
$10
Plan shows a substantial concrete corner and gate post for farm fence.

561—Cattle Dipping Vat, 1 sheet
$10
After the Portland Cement Association plan. Concrete vat, 26'6" long by 3' wide with steel reinforcement. Also, plans chute for dipping pen. Bill of material on plans.

562—Hog Dipping Vat, 1 sheet
$10
After Portland Cement Association plan. A concrete vat 18' long by 2' wide, with reinforced concrete. Also chute and dipping pen. Bill of material included.

563—Sheep Dipping Vat, Portable, 1 sheet
$10
Suggested method for mounting dipping vat on an old truck.

581—Form for Building Rammed Earth Walls, 1 sheet
$10
A plan for building a plank form, hinged for corners.

921—Livestock Sales Pavilion Plan, 2 sheets
$20
Square building, seats 800 people. Capacity 50 stalls for cattle, 25 hog pens.

933—Wire Splicer, 1 sheet (small)
$5
A plan for a very handy and simple tool for splicing wire. To be made at the forge of the farm shop.

5010—Portable Hay Bunk for Cattle, 4' x 12' or 16', 1 sheet
$15

5011—Sheep Feeding Rack, 1 sheet
$10
26" x 8'. For grain and roughage.

5037—Cattle Breeding Crate, 1 sheet
$42 x 9'. Bill of materials.

5041—Dehorning and Branding Chute, 1 sheet
$10
Squeeze type. Bill of materials.

5219—Alfalfa Feeding Rack for Hogs, 1 sheet
$10
Rack 8' long. Capacity up to 30 hogs.

5231—Sheep Feeding Rack for Hay, 1 sheet (small)
$5

5232—Calf Creep Range Feeder, 1 sheet
$10
213 cubic feet capacity. Easily moved. Has 12' feeding space on both sides. Vark creep height. Bill of materials included.

74101—Fruit and Vegetable Storage Cellar, 2 sheets
$30
20' x 36'. Underground with one end open to grade. No driveway. Concrete construction.

74102—Small Storage and Storm Cellar, 1 sheet
$15
8' x 10'. Concrete. Connects directly to house basement.

74111—Sweet Potato Storage House, 1 sheet
$15
12' x 16'. Above ground. Frame construction with artificial heat. Gable roof.

74121—Storage and Storm Cellar Under Garage, 1 sheet
$15
14' x 20'. Concrete, and also connected to basement of house.

75201—Creamery, 6 sheets
$90
32'6" x 72'. A complete creamy plant for commercial production. Flat roof with brick construction.

75212—Creamery, 4 sheets
$60
42' x 72'. For commercial production. Masonry walls with shingled hip roof.

77201—Circular Concrete Stock Tank. Varying Diameters, 1 sheet
$15

77202—Rectangular Concrete Stock Tank. Reinforced. 4' x 8' outside, 1 sheet
$15

77321—Breeding Rack for Cows, Simple construction, 1 sheet
$15

77411—Feed Bunk for Steers, (Grain or Corn), 4' x 12' x 26' high, 1 sheet
$15

77412—Combination Grain Bunk and Rack for Cattle, 12' long, 1 sheet
$15

77461—Cattle Stocks. For swinging injured animals and trimming hoofs, 1 sheet
$15

77511—Feed Bunk for Sheep. Simple bunk 8' long. For grain, 1 sheet
$15

77512—Feed Rack for Sheep. For hay or roughage. 12' long, 1 sheet
$15

77616—Hog Alfalfa Rack, 5' x 6' x 3' high, 1 sheet
$15

77621—Hog Breeding and Ringing Crate, Frame construction, 1 sheet
$15

77631—Hog Loading Chute. Mounted on steel wheels, 1 sheet
$15

77641—Hog Shipping Crate, 1 sheet
$15

77651—Dipping Vat for Hogs and Sheep, Concrete, 1 sheet
$15

77661—Concrete Wallow for Hogs, 14' x 4', 1 sheet
$15

77671—Pig Creep. Built in Corner of lot, 1 sheet
$15

77672—Pig Creep. Portable. Four-sided, 1 sheet
$15

77711—Chicken Feeder. Made from lath for very small chicks, 1 sheet
$15

77712—Inside Mash Hopper, Holds 3 gallons of mash, 1 sheet
$15

77713—Outdoor Poultry Feeder, 1 sheet
$15

77714—Oyster Shell Feeder, 1 sheet
$15

77715—Green Feed Rack for Poultry. Two way feeder, 1 sheet
$15

77716—Green Feed Rack for Poultry. One way or wall feeder, 1 sheet
$15

77761—Sanitary Runway or Sun Parlor for Chicks, 1 sheet
$15

77771—Summer Outdoor Shelter for Poultry, Low type, 1 sheet
$15

77781—Sun Parlor for Chicks. Connects with brooder house, 1 sheet
$15

77791—Watering Stand for Baby Chicks, 1 sheet
$15

77901—Safety Bull Pen, 2 sheets
$30
21' x 68' pen and 12' x 16' house. Shed roof.

564—Electric Pig Brooder, 1 sheet
$5
Inexpensive, easy to make, homemade pig brooder for corner of farrowing pen. Light bulb for heat.
### Grain, Corn, and Hay Storage

**1011—Single Shed Roof Corn Crib, 1 sheet**
- Capacity: 1,000 bu. of corn.
- Frame building 8' x 36' with 9' posts at back and sheet metal shed roof. Corner braces and long pier foundation of concrete. Materials list on plan.
- Cost: 10¢
- Notes: Pole construction using slat snow-fencing for siding. Shed roof, concrete block flooring, and 12' boards at bottom to open for shelling. Concrete block floor is placed on gravel fill to promote good drainage.

**5530—Small Movable Grain Bin, 1 sheet**
- Capacity: 500 bushels of grain.
- Frame building. Gable roof, 10' x 10' with 8' posts. On runners. Bill of materials.
- Cost: 15¢

**5531—Stationary Elevator Type of Granary, 2 sheets**
- Capacity: 10,000 bushels of grain.
- Log dump and pit. Crib type of construction covered with sheet metal. 30' x 31' with 26' posts. Gable roof with sheet metal roofing. Workroom addition 10' x 20'. Material list on plan.
- Cost: 15¢

**5532—Stationary Elevator Type for Grain and Corn, 2 sheets**
- Capacity: 1,800 bushels of grain.
- A 4 ft. alley but no driveway. Frame building. 14' x 24' with gable roof and covered with sheet metal. Bill of materials included.
- Cost: 30¢

**5533—A Double Granary and Corn Crib, 1 sheet**
- Capacity: 2,000 bushels of grain and 1,000 bushels of corn.
- Driveway through center with grain bins on one side and corn crib on the other. Frame building 27' x 32' with 10' posts. Low gable roof covered with sheet metal. Bill of materials included.
- Cost: 15¢

**5534—Stationary Elevator Type for Grain and Corn, 2 sheets**
- Capacity: 2,000 bushels of grain and 3,200 bushels of corn.
- Cost: 30¢

**5026—Double Corn Crib, 1 sheet**
- Capacity: 8,000 bushels of corn.
- 31' x 40' with 10' studs. Two 10' x 40' bins. 11' driveway with two 11' x 17' bins 5' high above driveway. Concrete or frame floor; walls are corrugated steel over shiplap shingling; roof is corrugated steel over nailing girts. Filled through gable ends or roof hatch. Farm built.
- Cost: 30¢

**73261—1,500 Bushel Grain Bin, 1 sheet**
- Capacity: 1,500 bushel grain bin convertible to single car garage. 12' x 20' with 8' studs. Dual purpose; opening is left for a garage door with provision for closing it for grain storage. No partitions. Concrete floor; walls are composition siding over shiplap sheathing; roof is corrugated aluminum over nailing girts. Filled through gable ends. Farm built.
- Cost: 15¢

**73262—1,700 Bushel Grain Granary, 2 sheets**
- Capacity: 1,700 bushel four-bin granary. 16' x 24' with 8' studs. Particularly suited to seed storage; four bins 8' x 8' with 8' x 16' seed cleaning space. Concrete or frame floor; walls are drop siding over shiplap sheathing with building paper between; roof is wood shingles over shingle lath. Filled through gable ends or roof hatch. Farm built.
- Cost: 30¢

**73263—2,500 Bushel Grain Bin, 2 sheets**
- Capacity: 2,500 bushel grain bin convertible to double car garage. 20' x 20' with 8' studs. Dual purpose; openings are left for garage doors with provision for closing them for grain storage. Partitioned into two 20' x 20' bins. Concrete floor; walls are asbestos-cement board over shiplap sheathing; roof is corrugated steel over nailing girts. Filled through gable ends or roof hatch. Farm built.
- Cost: 30¢

**73264—8,000 Bushel Granary, 2 sheets**
- Capacity: 8,000 bushel granary.
- 31' x 40' with 10' studs. Two 10' x 40' bins, 11' driveway with two 11' x 17' bins 5' high above driveway. Frame or concrete floor; walls are corrugated steel over shiplap sheathing; roof is corrugated steel over nailing girts. Filled through gable ends, roof hatch, or from driveway inside. Farm built.
- Cost: 30¢

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**MIDWEST PLAN NO. 73271**

**MIDWEST PLAN NO. 73272**

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**MIDWEST PLAN NO. 73282**

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73282—Double Corn Crib, 2 sheets
Total width of 27' with two 8' cribs variable in width for different climates and 11'-drive; width is variable, 12' studs. Filled through roof hatch.

73283—Double Corn Crib, 2 sheets
Total width of 27' with two 8' cribs variable in width for different climates and 11'-drive; width is variable, 14' studs. Overhead bin. Filled through roof hatch.

73291—1,000 Bushel Steel Grain Bin, 2 sheets
14½' diameter with 8' to eave. Filled through roof. Prefabricated construction.

73292—2,700 Bushel Steel Grain Bin, 2 sheets
18' diameter with 13' to eave. Filled through roof. Prefabricated construction.

73293—1,200 Bushel Grain Bin, 2 sheets
12' x 16' with 8' studs. No partitions. Filled through gable ends. Prefabricated or farm built on loose concrete blocks; walls of drop siding over shiplap sheathing with building paper between; roof of wood shingles over shingle lath.

73294—2,000 Bushel Grain Bin, 3 sheets
16' x 20' with 8' sidewalk. One bin, no partitions. Filled through gable ends or roof hatch. Prefabricated plywood construction on loose concrete blocks.

73295—2,700 Bushel Grain Bin, 2 sheets
14' x 24' with 10' studs. One bin, no partitions. Filled through gable ends or through roof hatches. Prefabricated or farm built on loose concrete blocks; walls of drop siding over shiplap sheathing with building paper between; roof of wood shingles over shingle lath.

73296—1,100 Bushel Grain Bin, 1 sheet
12' x 16' with 7' studs. No partitions. Filled through roof hatch. Farm built on fixed concrete foundation; walls, roof, and floor of plywood construction.

74132—Double Truck Garage Convertible to 4,500 Bushel Grain Bin, 2 sheets
24' x 24' with 10' studs. Partitioned into two bins 12' x 24'. Openings are left for 10' x 10' garage doors with provision for closing them for grain storage, and for adding the ties necessary when the building is used as a grain bin. Concrete floor, walls are drop siding over shiplap sheathing with building paper between; roof is wood shingles over shingle lath. Filled through gable ends or roof hatch.

74133—Round Roof Machine Shed Convertible to a 4,000 Bushel Ear Corn Dryer, 4 sheets
16' radius laminated wood arch; 32' length. All necessary details, including the drying tunnel and door closure panels, are shown. For drying, install fan and motor. Concrete floor; walls are corrugated steel over shiplap sheathing; roof is corrugated steel over nailing girts. Filled through roof hatches.

75503—Steel Bin with Ventilated Floor, 3 sheets
18' diameter with 9' to eave. Capacity for drying is 500 bushels ear corn or 1,000 bushels grain. Filled through roof. Prefabricated.

75513—4,000 Bushel Ear Corn Dryer Convertible to Machine Shed, 3 sheets
28' x 40' with 10' studs. A false floor is used for drying with fan from duct at large door. Concrete floor; walls are corrugated aluminum over shiplap sheathing; roof is corrugated aluminum over nailing girts. Filled through gable ends or roof hatch.

73101—Hay Shed, 24 x 60, 1 sheet
Siding halfway, gable roof. Capacity 50 tons.

Self Feeders

5211—Self Feeders for Hogs, 1 sheet
Shows plans for two feeders. One 2-way feeder for shelled corn, grain, and ground feed. Capacity 200 bushels. One feeder for ear corn and tankage. Capacity 60 bushels. Bill of material on the plan.

5212—Self Feeder for Hogs, 1 sheet
One way feeder for shelled corn, grain, and ground feed; also tankage compartment. Capacity 12 to 15 bushels. Easy to build, easy to move. Good inside feeder. Bill of material on the plan.

5213—Portable Self Feeder, 1 sheet
A plan for a self-feeder for cattle for feeding ground feed. Sets on a steel wheeled wagon truck.

5214—The 100 Bushel Self Feeder for Hogs, 1 sheet
This feeder is 8' long and 4½' wide. May be built with or without the extended feeding platform. Type of agitator used is simple and efficient under most conditions. Bill of material on plan.

5215—South Dakota “Walk-In” Self Feeder for Hogs, 2 sheets
This feeder is 12' x 16' with storage capacity for 440 bushels of feed, including the 90 bushels which the feeder itself holds. 4-foot work alley provides sloping space for the feeder and mixing feed. A great labor-saver. Bill of material on the plan.

5216—250 Bushel Self Feeder for Hogs, 1 sheet
12' x 12' with covered extended feeding platforms on both sides of the feeder. Similar to Plan No. 5214 except greater capacity. Materials listed on the plan.

77413—Cattle Self Feeder, Grain or Shelled Corn, 1 sheet
4'8" x 12'. Capacity 200 to 400 bushels in varying lengths. On skids.

77416—Movable Cattle Self Feeder, Dryer, and Storage Unit for Grain and Ear Corn, 2 sheets
16' x 16' with a capacity for 750 bushels of ear corn or 1,500 bushels of grain. Tunnel under sloping floor is connected to blower for drying. Frame floor; walls are drop siding over shiplap sheathing with building paper between; roof is wood shingles over shingle lath. Filled through gable ends or roof hatch. Farm Built.

77612—Hog Self Feeder, 1 sheet
Six feeding compartments each side. 6' long. Feed compartments have hinged lids. Frame construction. Gable roof.

77613—300 Bushel Movable Hog Self Feeder, 1 sheet
10' x 16'. Dual purpose; provides storage space with enclosed feeding floor. Filled through gable ends. Farm built plywood construction on skids.

77614—400 Bushel Movable Hog Self Feeder, 1 sheet
8' x 12' with 7' studs. Dual purpose; provides storage space which may be entirely sealed and protected. Feeding troughs along both sides when used as a self feeder. Filled through gable ends. Farm built plywood construction on skids.

77615—Movable Hog Self Feeder, Dryer, and Storage Unit for Grain and Ear Corn, 2 sheets
12' x 16' with capacity of 550 bushels of ear corn or 1,100 bushels of grain. Tunnel under sloping floor is connected to blower for drying. Frame floor; walls are drop siding over shiplap sheathing with building paper between; roof is wood shingles over shingle lath. Filled through gable ends or roof hatch.
7010—Farm House Plan, 2 sheets

This is a minimum house, suitable for tenant house or first home of a young married couple. 24'0" x 26'8" with one large room for kitchen, dining, and living room, separate areas. One medium and one small bedroom, also bathroom. Considerable built-in storage space. 7,500 cubic feet. Frame only.

7014—Farm House Plan, 4 sheets

Designed for a growing family. Single story two-bedroom original house to which two bedrooms and a lavatory may be added. Well arranged, compact with dining room convenient to kitchen, also large living room. House is 26'0" x 47'6". Very good traffic pattern, and lots of built-in storage space. 23,600 cubic feet without the addition, 28,400 cubic feet with addition. Frame or concrete masonry.

7016—Farm House Plan, 5 sheets

1½ story with good-sized workroom, one ample bedroom and bath, kitchen and dining area and a large living room on first floor. Two bedrooms and bath upstairs. Seven large closets. Suitable to any type of frame or masonry construction.
7011—Farm House Plan, 7 sheets
Of simple architecture, this one-story house is planned for the North with a basement and for the South without a basement. It is compactly arranged with three bedrooms, large kitchen with dining space, living room 18'8" x 15'4". Has good traffic lanes, storage space and closets. (See page 11 for floor plan.)

7012—Farm House Plan, 4 sheets
Plan 7011 in concrete masonry for the North.

7013—Farm House Plan, 4 sheets
Compact little one-story house of modern design suitable for a small family. Two bedrooms big enough for twin beds, adequate kitchen with dining space, a workroom, and a 11'2" x 19'6" living room. Good traffic circulation. No basement shown, frame construction, but working drawings for masonry can be substituted.

7014—Farm House Plan, 5 sheets
Suitable for a small family, rustic in character, and with no basement. There are two bedrooms, large kitchen, large living room, workroom, and ample storage closets. Minimum hall space, but good traffic patterns. Good ventilation by doors and windows. Shown in log construction, but frame or masonry can be substituted.

7015—Farm House Plan, 5 sheets
1 ½ story, medium sized house. Has a bedroom and bath on the first floor, two bedrooms and bath on the second and a well-arranged kitchen with good dining space and living room large enough for company meals. Plans also provide a large dining room, if desired. Wood frame or masonry.

7016—Farm House Plan, 6 sheets
Suitable for a small family, rustic in character, and with no basement. There are two bedrooms, large kitchen, large living room, work room, and ample storage closets. Minimum hall space, but good traffic patterns. Good ventilation by doors and windows. Shown in log construction, but frame or masonry can be substituted.

7017—Farm House Plan, 5 sheets
1 ½ story, medium sized house. Has a bedroom and bath on the first floor, two bedrooms and bath on the second and a well-arranged kitchen with good dining space and living room large enough for company meals. Plans also provide a large dining room, if desired. Wood frame or masonry.

7018—Farm House Plan, 6 sheets
1 ½ story, medium sized house. Has a bedroom and bath on the first floor, two bedrooms and bath on the second and a well-arranged kitchen with good dining space and living room large enough for company meals. Plans also provide a large dining room, if desired. Wood frame or masonry.

7019—Farm House Plan, 6 sheets
1 ½ story, medium sized house. Has a bedroom and bath on the first floor, two bedrooms and bath on the second and a well-arranged kitchen with good dining space and living room large enough for company meals. Plans also provide a large dining room, if desired. Wood frame or masonry.

7020—Farm House Plan, 5 sheets
1 ½ story house with two bedrooms and bath on the first floor, full basement with workroom and shower room, adequate dining space in the kitchen and a living room large enough for company meals. Upstairs space for 2 bedrooms and bath. Frame or masonry.

7021—Farm House Plan, 6 sheets
Single story, practically square, three bedroom, 35'8" x 37'8" house. Also has a large living room with dining space and a kitchen well-adapted to the U-shape with some space for dining. Also has conveniently located bathroom and generous storage space. 26,500 cubic feet. Concrete masonry.
House Plan 7048 (Basic)

7048, 12 sheets $1.80
House designed for a minimum budget. The basic part can be built first and when funds permit, the house may be completed. Low in cost and convenient. Floor space in basic house, 532 square feet; the completed house, 1,048 square feet. Can be built with or without basement. Ideal for young couple.

7049, 11 sheets $1.65
Another expandible house, smaller than 7048. Floor space in basic house, 480 square feet; completed, 910. With or without basement.

Home Improvements

612—Septic Tank Plan, 1 sheet 10¢
A simple two-compartment tank. Family size. Highly efficient for farm service.

613—Farm Septic Tank, 3 sheets 10¢
Shows section and plan views of a single chamber septic tank. Includes a table giving dimensions and concrete materials used for different sized family tanks. Also shows working drawings for collapsible and reusable forms and a typical sewage disposal system layout.

621—Sanitary Well Curb, 1 sheet 10¢

631—Cistern Plan, 1 sheet 10¢
A plan for an inexpensive cistern where clay soils are available. Jug-shaped, plastered on soil.

632—Concrete Cistern Plan, 1 sheet 10¢

85112—Farm Septic Tank. Two chamber with automatic siphon, 2 sheets 30¢
85521—Concrete Rainwater Filter. For use in moderate climate, 1 sheet 15¢
85531—Concrete Water Supply Tank for Farm. Cylindrical tank, 1 sheet 15¢
85532—Concrete Cistern. A cylindrical reinforced cistern, 1 sheet 15¢
85533—Cistern. Jug-shaped brick cistern, 1 sheet 15¢

936—Outdoor Fireplace, 1 sheet (small) 5¢
A simple, yet decorative and effective fireplace for outdoors. Made of native stone lined with fire-brick. Bill of materials included on the plan.
Kitchen Cabinets

7034—Home-Built Kitchen Cabinets and Suggested Kitchen Arrangements, 1 sheet 15¢
This one sheet plan shows perspective views of all the cabinet plans 7035 through 7042 and some suggestions of arrangements in the kitchen.

7035—Food Preparation and Clearing Cabinets, 6 sheets 90¢
This unit of two base cabinets, two wall cabinets, and a sink cabinet is planned to provide adequate working surfaces for food preparation and dish washing, storage space for supplies and equipment for those jobs, and storage for every-day dishes. Since it is the most used work center in the kitchen, the unit is designed so there can be a window above the sink to give natural light and a view of outdoor activities.

7036—Wood Box, 1 sheet 15¢
This wood box is the height of the usual kitchen range so it makes a convenient serving counter and provides a place for setting hot pans as they are taken from the stove. Meets the safety requirements of Underwriter’s Laboratories and is on casters making it easy to move for cleaning or to roll it to the door for filling.

7037—Serving Cabinet, 1 sheet 15¢
This cabinet is to take the place of the wood box when the range is gas or electric. Top provides a serving counter, and there is drawer and cupboard space underneath for utensils used at the range.

7038—Wall Cabinet, 1 sheet 15¢
A convenient overhead cabinet which can be used above the wood box (7036) or above the serving cabinet (7037). Top shelf has a file compartments with dividers to store trays and platters. The bottom two shelves can be adapted to different storage needs.

7039—Storage Cabinet, 2 sheets 30¢
This floor-to-ceiling cabinet can be used to store extra food supplies, the churn, milk pails, crocks, canning equipment, and other articles not in frequent use. Can be used in the kitchen itself or in an alcove or wide hall.

7040—Utility and Food Storage Cabinet, 1 sheet 15¢
This cabinet is planned especially for storage of extra staple foods. Also provides a place where aprons can be hung. Has bottom drawer for storing seldom used articles.

7041—Utility Cabinet, 1 sheet 15¢
Designed with dividers for storage of table leaves and the ironing board. This cabinet also has hooks for aprons and shelf and drawer space for other articles.

7042—Chore Clothes Cabinet, 1 sheet 15¢
Planned to hold the chore clothes in daily use. Sides are ventilated so room heat will dry damp clothes and warm them for outdoor wear. Also has a slotted shoe rack and overhead shelf for hat rack. A rack on the door holds mittens and gloves.

7100—Functional U Kitchen, 7 sheets 1.05¢
Planned primarily for the farm home, the aim of this step-saving kitchen is to provide maximum convenience for the homemaker at her work. Kitchen is 16’ x 11’, compact, comfortable, and provides handy and ample storage for supplies and equipment. Plan shows in detail how to construct each part of the kitchen. Designed by the Bureau of Home Economics, U. S. Dept. of Agriculture.

935—Kitchen Planning Aid, 4 sheets 40¢
Cut-outs to help in kitchen arrangement. Cabinets, range, refrigerator, sink, etc. can be arranged by cut-out models on a floor plan of the kitchen. All done to scale, this helps plan the right size rooms with necessary clearances around furniture and equipment.