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EC722 Revised 1954 List of Farm Buildings and Equipment Plans

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Revised
August
1954

Nebraska
COOPERATIVE EXTENSION WORK
IN AGRICULTURE AND HOME ECONOMICS
U. of N. Agr. College & U. S. Dept. of Agr. Cooperating
W. V. Lambert, Director, Lincoln

Extension
Circular
722

LIST OF FARM BUILDINGS AND EQUIPMENT PLANS

The farm building and equipment plans listed here have been designed according to standard practice and are adapted for Nebraska conditions. Plans should be ordered by name and number and are available at the prices listed below. Remittances are to be made payable to Agricultural Extension Engineering and should accompany all orders.

Attention is called particularly to new plans on grain storage, cattle sheds and beef barns, dairy housing, general purpose barns, and roof framing details, machine sheds and garages, and hog housing and equipment. These plans were recently developed by the Midwest Plan Service.

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* * *

<u>Plan No.</u>	<u>Kind of Structure</u>	<u>Price of Plan</u>
<u>Poultry Houses</u>		
10.727-5	20' x 24' Shed Roof Nebraska Poultry House. Frame Construction. 120 to 150 hens or 800 chicks. (See Extension Circular 1419).	.60
10.727-14	20' x 24' Gable Roof Nebraska Poultry House. Frame Construction. 120 to 150 hens or 800 chicks.	.60

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<u>Plan No.</u>	<u>Kind of Structure</u>	<u>Price of Plan</u>
<u>Poultry Houses (Continued)</u>		
10.727-22	20' x 24' Shed Roof Poultry House. Masonry (concrete block) construction. 120 to 150 hens or 800 chicks.	.60
10.727-23	20' x 24' Gable Roof Poultry House. Masonry (concrete block) construction. 120 to 150 hens or 800 chicks.	.60
10.727-20	12' x 16' Shed Roof Laying House. Frame construction 50 hens.	.60
10.727-9	10' x 12' Portable Brooder House. Shed roof. 400 chicks. Frame construction.	.60
72703	16' x 36' Stationary Brooder House. Gable roof; details for frame, concrete block or clay tile construction. 1200 chicks.	.60
*72711	8' x 12' Movable Drooder House. Shed roof. 300 chicks. Convertible to 500 bushel grain bin.	.15
10.727-15	8' x 20' Turkey shelter shed.	.40
<u>Poultry Feeders & Equipment</u>		
10.7727-3	2' x 3' Bungalow Type Outdoor Feeder - 4 bu.	.30
10.7727-3A	2' x 8' Bungalow Type Outdoor Feeder - 4 bu.	.20
10.7727-9	4-foot Indoor Poultry Feeder with Reel.	.30
77714	Wall Type Oyster shell feeder. Built on frame wall.	.30
77715	Portable Type Green Feed Rack.	.30
*77773	Poultry Range Shelter. 10' x 12', portable, roof covered with corrugated metal.	.15
*87410	Poultry Range Feeder. Portable feeder mounted on skids, 3' x 7'-10", divided into feed compartments, with total capacity of 10 bushels. Constructed with exterior plywood.	.15
<u>Hog Houses</u>		
<u>Hog Housing & Equipment Leaflet</u>		
An illustrated leaflet describing all hog housing and equipment plans is available on request.		
<u>Bound Set of Hog Housing & Equipment Plans</u>		\$6.75
A complete set of the hog housing and equipment plans following, except for plan numbers 72626, 72627, 77613, 77614 and 77615.		

*Denotes new plans

<u>Plan No.</u>	<u>Kind of Structure</u>	<u>Price of Plan</u>
<u>Hog Houses (Continued)</u>		
*72626	8' x 12' Portable 2-sow Hog House with floor. Constructed with exterior plywood. Convertible to 300 bushel grain bin.	.15
*72627	22' x 24' Farrowing Barn. Gable roof. 6 farrowing pens with 4' alley. Frame walls with 8' studs. Walls covered with drop siding over shiplap sheathing. Convertible to 3,400 bushel grain bin.	.30
<u>Movable Houses</u>		
*72631	Single movable hog house - 6' x 8'; gable roof; rear shade door; plywood construction	\$.30
*72632	Single movable hog house - 7' x 8'; gable roof; rear shade door; lumber construction	.15
*72635	Single movable hog house - 6' x 7'; sloping side walls; gable roof; removable floor mat; lumber construction.	.15
*72636	Movable "A" type hog house; lumber construction.	.15
*72637	Single movable hog house - 6' x 8'; sloping side walls; shed roof; plywood construction.	.15
*72638	Single movable hog house - 6' x 8'; off-center gable roof; plywood construction.	.15
*72640	Single movable hog house - 7' x 8'; shed roof; lumber construction.	.15
*72641	Single movable hog house - 6' x 8'; shed roof plywood construction.	.15
*72647	Two-pen movable farrowing house - 8' x 12'; off-center gable roof; lumber construction.	.15
*72648	Two-pen movable modified "A" hog house - 8' x 12'; lumber construction.	.15

*Denotes new plans.

<u>Plan No.</u>	<u>Kind of Structure</u>	<u>Price of Plan</u>
*72649	Two-pen combination hog house - 8' x 14' - Two houses pull together to form 4-pen house with alley. Shed roof and lumber construction.	.30
*72650	3-Pen movable hog house - 8' x 18'; off-center gable roof; plywood construction.	.30
*72655	4-Pen movable hog house - 12' x 16'; gable roof; lumber construction.	.15
<u>Central or Permanent Hog Houses</u>		
*72660	11-Pen hog house - 22' x 36'; with feed room; 5-foot alleyway; removable pen panels; combinations stud and rafter construction. Plans include wiring and insulation details.	.45
*72662	8-Pen Hog house - 24' x 32' with 8' driveway usable for additional farrowing pens; double doors on both ends of driveway; removable partitions; gable roof; lumber construction. Plans include insulation and wiring details.	.30
*72663	Hog Production Layout - single movable houses - 7'-6" x 8' planned for central farrowing on concrete slab. Details also included for feed storage, self feeders and hog wallow.	.30
*72664	7-Pen hog house - 22' x 32' with feed room space and 4' alley, removable partitions; gable roof; masonry cavity wall construction. Plans include details for insulation and wiring.	.30
*72666	6-Pen single row farrowing house - 12' x 42'; narrow rear feed alley; gable roof; details for lumber or masonry construction.	.30
*72667	12-Pen central farrowing house - 22' x 48' with 5-foot alleyway; removable pen panels; gable roof; lumber construction.	.30
*72668	16-sow farrowing house - 21' x 41'; equipped with farrowing stalls in 8 double pens; 4-foot feed alley; lumber construction.	.30
*72669	14-Pen central farrowing house - 26' x 64' with space for two feed rooms; 9-foot driveway; arrangement shown for corn cribs and feeding area. Gable roof with details for standard frame or pole construction.	.30
<u>Hog Feeders & Equipment</u>		
*72690	Portable sun shade for hogs - 10' x 10'	.15

*Denotes new plans.

<u>Plan No.</u>	<u>Kind of Structure</u>	<u>Price of Plan</u>
<u>Hog Feeders & Equipment (continued)</u>		
*72692	Farrowing stall--Includes details for construction of stalls in permanent housing.	.15
*87310	32 Bu. Hog Feeder with mineral feeder on one end; roof extension to protect feed from weather; lumber construction.	.15
*87311	50 Bu. Hog Feeder - Supplemental bin in one end; roof extension to protect feeding trough from weather; lumber construction.	.15
*87313	55 Bu. Hog Feeder - Upright type with metal trough lids; lumber construction.	.15
*87321	Hog Waterer - Portable automatic waterer designed for use with hogs on pasture	.15
*87340	Movable loading chute - Floor adjustable for height of truck bed; tight sides; equipped with tongue for trailing.	.15
*87341	Portable stair-step loading chute - equipped with retractable for positioning chute; tight side walls; removable tongue.	.15
*87342	Hog Crate - 3 sizes can be built for hogs up to 500 pounds.	.15
*87350	Vaccinating and castrating rack.	.15
*87370	Pig brooders - Details for pen height brooder using heat lamp and hover brooder using regular light bulb.	.15
*87380	Movable hog wallow - 6' x 12'; lumber construction.	.15
*77613	300-bushel movable hog self feeder. 10' x 16'. Dual purpose; provides small storage space with enclosed feeding floor. Farm built plywood construction on skids.	.15
*77614	400-bushel movable hog self feeder. 8' x 12' with 7' studs. Dual purpose; provides storage space which may be entirely sealed and protected feeding trough as hog feeder. Farm built plywood construction on skids.	.15
*77615	Movable hog self feeder, dryer, and storage unit for grain and ear corn. 12' x 16' with a capacity of 550 bushels ear corn or 1,100 bushels grain. Tunnel under sloping floor is connected to blower for drying. Frame floor; walls are drop siding over shiplap sheathing; roof is wood shingles. Farm built.	.30

*Denotes new plans

<u>Plan No.</u>	<u>Kind of Structure</u>	<u>Price of Plan</u>
<u>Cattle Feeders & Equipment</u>		
10.75-1	Cattle Guard (Auto Gate)	.20
77413	Portable Feeder - 160 to 350 bu.	.30
*77416	Movable beef cattle self feeder, dryer, and storage unit for grain and ear corn. 16' x 16' with a capacity of 750 bushels ear corn or 1,500 bushels grain. Tunnel under sloping floor is connected to blower for drying. Frame floor; walls are drop siding over shiplap sheathing; roof is wood shingles. Farm built.	.30
10.7724-1	12-foot Feed Bunk - Portable, mounted on skids.	.30
10.7724-3	Creep Feeder for Calves.	.30
10.7724-4	Wall Type Calf Self feeder.	.30
10.7724-5	Mineral Box for Cattle. Salt and mineral compartment.	.10
10.7724-6	Cattle Feed Bunk, 12' long, with sloping sides, mounted on legs.	.20
10.7734-2	Portable Hay Feed Rack-10' wide. 1 ton capacity for each 8' of length.	.20
10.7734-4	Stationary Covered Feed Bunk - 12 foot width.	.30
10.776-7	Cattle Stock, designed for use in trimming cattle hoofs.	.30
10.776-8	Herd Sire Trailer.	.60
10.776-11	Dual Purpose Cattle Chute - for dehorning, vaccinating, and as loading chute.	.60
10.776-12	Squeeze Type Chute - for dehorning, vaccinating, branding, etc.	.30
10.776-13	Movable Loading Chute - for cattle or hogs.	.30
10.63-31	Automatic Stock Watering Trough with Electric Heating Unit for Mounting on Side of Barn.	.20
10.771-9	Drum type electric stock tank heater.	.20

*Denotes new plans.

<u>Plan No.</u>	<u>Kind of Structure</u>	<u>Price of Plans</u>
<u>Sheep Housing & Equipment</u>		
72501	24' x 32' Enclosed Sheep Shed. Frame construction. 30 to 35 sheep.	.30
72502	22' x 42' Open Sheep Shed. Gable roof, frame construction. 40 to 45 sheep.	.60
77511	8 foot Feed Bunk.	.30
10.7735-1	4' x 16' Portable Feed Racks.	.20
10.7735-2	Combination Hay and Grain Rack - 2' x 10'	.10
10.7735-3	Lamb Self Feeder - 2' x 10' - 12 bu. capacity. Suitable for outside use.	.20
10.775-7	Portable Sheep Dipping Vat, for use on 2- wheel trailer.	.30

Dairy Buildings Catalog.

An illustrated booklet describing 42 plans for loose-housing barns, stanchion barns, milking parlor-milk house combinations, milk houses and a bull barn, as listed below.

(No charge for single copies)

Bound Set of Dairy Housing Plans.

\$12.50

A complete set of all dairy housing plans listed in this circular, including loose-housing barns, stanchion barns, milking parlors and milk rooms.

Loose Housing Dairy Barns

*72302	30' x 105' Pole-Type Loose Housing Barn. Pole frame building arranged for a 15 cow herd, with space provided for calves, young stock, hay and bedding storage. A milking parlor is suggested, but for a final selection, see list of milking parlor plans.	.45
*72303	45' x 90' Pole-Type Loose Housing Barn. A pole frame building for 22 cows plus calves and young stock. Space is provided for hay and bedding storage. Location of the milking parlor is suggested.	.45
*72304	60' x 135' Pole-Type Loose Housing Barn, Bedded area is provided for 45 cows with additional space for calves and heifers. The construction is pole frame.	.45
*72305	F-shaped Loose Housing Barn. One story barn for a 35-40 cow herd with space for calves, young stock, hay and bedding storage. Main section is 40' x 120' with one wing 30' x 72' and the other 30' x 48'. Truss roof construction. Main section provides hay and bedding storage, feed alley and paved feeding area for the herd. The two wings provide the lounge areas for young stock and cows.	.45

*Denotes new plans

<u>Plan No.</u>	<u>Kind of Structure</u>	<u>Price of Plan</u>
<u>Loose Housing Dairy Barns (Continued)</u>		
*72306	Pre-Fab Steel Loose-Housing Barn This is not a complete working drawing from which a building may be constructed. Suggests the possible arrangement of a pre-fabricated steel building for the loose housing system of dairying.	.15
*72307	Remodeling Layouts, Stall Barns to Loose Housing. Plans consist of three pages of possible floor plan arrangements to guide a person when converting a conventional barn to loose housing. It is not a working drawing from which a new building could be erected in that no construction details are given. Milking parlor plans listed below are suggested.	.45
*72308	One-Story Gothic-Roof Loose Housing Barn. Two building plan. Main building provides the bedded area for 60 cows, 20 graining stalls and the milking parlor. The rafters for the gothic roof may be homemade according to plan details.	.45
*72309	Barn and layout for a 25 to 30 cow herd. It has a 36' x 48' center section with gambrel roof and overhead storage of hay and bedding, with a 14' lean to on each side. Calf pens and space for young stock is provided. The milking plant in a separate building.	.45
*72310	Gothic-Roof Loose-Housing Barn. This two-story barn 40' x 72' is adequate for 25 to 30 cows if young stock are kept elsewhere. The milking parlor is under the same roof. The plan features concrete block walls and laminated rafters.	.75
<u>Conventional Stanchion Dairy Barns</u>		
This section includes 10 conventional stanchion dairy barns. The plans show various wall heights, roof shapes and materials of construction. In selecting a plan one need only consider the wall height and roof shape which he desires, because alternate types of construction for walls are shown in each plan. Three alternate floor plans are shown with plans 72322-A through 72322-I.		
*72322-A	Dairy Barn 36' wide. Flat roof design will necessitate storage of hay in another building. This reduces the danger of losing the herd due to a hay fire, and gives a low, modern building less subject to wind damage than the higher buildings.	1.05
*72322-B	Dairy Barn 36' wide. One story building without loft storage. It has a trussed gable roof which eliminates posts.	1.05

*Denotes new plans.

<u>Plan No.</u>	<u>Kind of Structure</u>	<u>Price of Plan</u>
<u>Conventional Stanchion Dairy Barns (continued)</u>		
*72322-C	Dairy Barn 36' wide. The side wall of this $1\frac{1}{2}$ -story gable-roof barn extends 7' above the mow floor giving considerable mow storage, particularly if hay is baled.	1.05
*72322-D	Dairy Barn 36' wide. This is a $1\frac{1}{2}$ -story barn with the gambrel roof shape. The braced rafter construction eliminates posts in the mow.	1.05
*72322-E	Dairy Barn 36' wide. Bent laminated rafters give this 2-story barn a large, clear loft space needed for loose hay storage. The bent rafters may be purchased, or constructed on the farm from specifications given in the plan.	1.05
*72322-F	Dairy Barn 36' wide. This is another 2-story gothic roof barn with sawed rafters. Where native lumber is available it may be desirable to construct curved rafters by cutting 1" x 10' boards to the proper radius. While this rafter requires more materials, a strong rafter is attained using native lumber.	1.05
*72322-G	Dairy Barn 36' wide. Straight side walls extend 8' above mow floor with braced-rafter gambrel-roof giving high, clear loft space. This large loft is needed only where hay is stored loose.	1.05
*72322-H	Dairy Barn 36' wide. This 2-story gambrel-roof barn differs from 72322-G only in the roof construction. A heavy truss is used every 12' with rafters resting on purlins between. The Shawver truss is well designed, but is difficult to build and place because of the large timbers required.	1.05
*72322-I	Dairy Barn 36' wide. This 2-story gable roof barn has a high loft for loose hay storage. The side walls extend 16' above the mow with a $\frac{1}{4}$ pitch gable roof giving about 33' height at the ridge. Designed to withstand 100m.p.h. wind in exposed locations.	1.05
*72323	Single-Row Dairy Barn. Twenty feet wide and of variable length. This barn is for the small herd where a single row of stanchions is all that is required. A small loft is gained by using a 7' stud on top of the 8' concrete block lower wall. Building designed to withstand 100m.p.h. winds in an exposed location.	.30

*Denotes new plans

<u>Plan No.</u>	<u>Kind of Structure</u>	<u>Price of Plan</u>
<u>Milking Parlors and Milk Room Combinations</u>		
*75231	6-Stall single-Row Floor-Level Milking Plant, 20' x 42'. Concrete block walls, with trussed rafters utilizing all 2' x 4' material. Space is provided for 6 cows, a milk room, a feed room and a storage room.	.30
*75232	Double-String Floor-Level Milking Plant. This flat roof building can be varied in length to accommodate 8 to 20 cows or more. There is a feed room on each side of the building. The frame construction uses plywood as both exterior and interior wall lining. Details of two alternates of wall construction are shown.	.30
*75233	Two-Stall Elevated Back-Out-Type Milking Plant. 20' x 40' masonry or frame construction, gable roof. This parlor is sometimes referred to as Montana style, where the operator stands in a narrow pit between 2 stalls.	.30
*75234	2 or 4-Stall "Y" Type Milking Plant. Dimensions are 22' x 24' for two stalls and 24' x 24' for four stalls. Masonry construction, gable roof. Planned for milk room, milking parlor, feed room or feed boxes.	.45
*75235	2-Stall Tandem Milking Plant. Masonry construction, flat roof. Dimensions of 20' x 26' provide for small feed room, 2-stall milking parlor and milk room. Alternates of wall construction are shown.	.30
*75236	3-Stall U- Shaped Milking Plant. 24' x 40' masonry construction with trussed gable roof. The elevated platform has a cow stall on each side of the "U". There is a vestibule and utility room in addition to the milk room, feed room and milking parlor.	.30
*75237	3-Stall Tandem Milking Plant. 26' x 32' masonry or frame construction. This milking plant has three stalls in line, feed room, milk room, toilet room and utility room.	.45
*75238	4-Stall U-Type Milking Plant. 22' x 46' masonry or frame construction with trussed gable roof. 4 milking stalls and a large milk room, feed room and utility room.	.45
*75239	4-Stall Tandem Milking Plant. 26' x 40' masonry or frame construction, includes toilet room, utility room, feed room, and milk room with the four in-line milking stalls.	.45
*75240	4-Stall Chute-Type Milking Plant. 14' x 44' masonry or frame construction, gable roof, with milk room, feed room and milking parlor. The milking parlor has two stalls along each wall.	.30

*Denotes new plans

Item No.	Kind of Structure	Price of Plan
Milk Houses (continued)		
*75253	Milk House. Daily capacity 300 gallons of milk - 18'-8" x 29'-4". Light weight concrete block masonry, galie roof, heater room and wash room are all features of this complete well arranged milk house. It will be a valuable improvement for any dairy farm having from 40 to 60 cows.	20.
*75260	Milk House. 18' x 29'-4" with daily capacity of 340 gallons of milk. This is a masonry milk house of 60 can size with flat roof, heater room and wash room. The building is easily attached to any barn. Alternative plans show wood frame construction and galie roof, insulated built-in cooling tanks and recessed, set-in type.	20.
*75261	Milk House. Daily capacity 480 gallons of milk. 17' x 28'. Brick is featured in the construction of this large capacity, convenient and attractive milk house. Alternative types of wall, roof and cooling facilities are shown.	20.
Milkhouse Equipment		
Sheet 4	Water-Proofing System for the Milk House. This plan shows a typical layout of a dairy farmstead with details of construction for settling tank and dry well.	15.
*75251-61 Sheet 5	Can Rack Details. Here are details for constructing a can rack in the milk house. This is a permanent rack, non-movable.	15.
*75251-61 Sheet 6	Construction & Installation Detail for Milk Cooling Tanks. This plan gives details for building a pit for a mechanical cooler, and also shows the construction of a concrete tank for water cooling of milk.	15.
Cattle Shed, Feed Barn, and Root Raising Cattle		
The catalog illustrates all plans for cattle sheds, feed and general purpose barns, and barn roof framing described below.		
Barn Set of Cattle shed and Root Raising Cattle.		
A complete set of the ten cattle shed and seven barn plans listed below.		
Cattle Sheds		
*75403	Rectangular Open Front Cattle shed. 24' x 18'. Frame construction with gabled roof. Vertical siding. Mangery shown.	30.

*Denotes new plans.

<u>Plan No.</u>	<u>Kind of Structure</u>	<u>Price of Plan</u>
<u>Milk Houses (continued)</u>		
*76259	Milk House. Daily capacity 300 gallons of milk - 18'-8" x 29'-4". Light weight concrete block masonry, gable roof, heater room and wash room are all features of this complete, well arranged milk house. It will be a valuable improvement for any dairy farm having from 40 to 60 cows.	.90
*75260	Milk House. 18' x 29'-4" with daily capacity of 340 gallons of milk. This is a masonry milk house of 60 cow size with flat roof, heater room and wash room. The building is easily attached to any barn. Alternate plans show wood frame construction and gable roof, insulated built-in cooling tanks and recessed, set-in type.	.90
*76261	Milk House. Daily capacity 480 gallons of milk. 17' x 28'. Brick is featured in the construction of this large capacity, convenient and attractive milk house. Alternate types of wall, roof and cooling facilities are shown.	.90
<u>Milkhouse Equipment</u>		
*75251-61, sheet 4	Waste Disposal System for the Milk House. This plan shows a typical layout of a dairy farmstead with details of construction for settling tank and dry well.	.15
*75251-61, sheet 5	Can Rack Details. Here are details for constructing a can rack in the milk house. This is a permanent rack, non-movable.	.15
*75251-61 sheet 6	Construction & Installation Detail for Milk Cooling Tanks. This plan gives details for building a pit for a mechanical cooler, and also shows the construction of a concrete tank for water cooling of milk.	.15
<u>Cattle Shed, Beef Barn, and Roof Framing Catalog.</u>		(No charge for single copies)
The catalog illustrates all plans for cattle sheds, beef and general purpose barns, and barn roof framing described below.		
<u>Bound Set of Cattle shed and Beef Barn Plans.</u>		\$7.00
A complete set of the ten cattle shed and seven beef barn plans listed below.		
<u>Cattle Sheds</u>		
*72403	Rectangular Open-Front Cattle shed. 24' x 48'. Frame construction with trussed roof. Vertical siding. Manger shown.	.30

*Denotes new plans.

<u>Plan No.</u>	<u>Kind of Structure</u>	<u>Price of Plan</u>
<u>Cattle Sheds (Continued)</u>		
*72404	Same as 72403 except horizontal siding.	.30
*72405	Semi-Open Cattle Shed. 30' x 100'. Frame construction on concrete foundation. This plan shows a service alley, mangers and pens, as well as space for loose cattle.	.30
*72406	Two-Shed Cattle Unit. Frame construction. This plan shows two buildings to be used together. The 24' x 56' Semi-Open Shed has a calf pen across one end with the rest of the space clear. The 24' x 70' Closed Shed has pens, mangers and feed storage space.	.45
*72407	Summer Shelter for Cattle. 16' x 16'. Shed roof supported on posts at corners. Open on all sides.	.15
*72408	Same as 72403 except pole construction.	.30
*72409	Tile Beef-Cattle Shed. 24' x 72'. Concrete foundation, clay tile walls. Open front.	.30
*72410	L-Shaped Open Front Cattle Shed. 24' x 72'. Pole construction, trussed roof.	.60
*72411	Same as 72410 except concrete foundation and frame construction.	.60
*72412	Same as 72410 except concrete block wall construction.	.60
<u>Beef Barns</u>		
*72421	Beef Cattle Barn. 36' x 48'. Gambrel roof, braced rafter construction; concrete foundation and footings; houses 24 to 30 cattle, hay bunkers along wall, mangers in center separated by feed alley.	.45
*72422	Beef Cattle Barn. 36' x 80' with "L" 36' x 40'. Gothic arch laminated construction. Concrete foundations and floors. 18 cow stalls, 9 pens, bull pen and feed rooms. Adapted to housing and showing purebred herds.	.75
*72423	Beef Cattle Barn. 36' x 80' with "L" 24' x 40'. Same as 72422, except "L" is more narrow. 18 cows stalls, 6 pens, bull pen and feed room. Adapted to showing and housing purebred herds.	.75

*Denotes new plans.

<u>Plan No.</u>	<u>Kind of Structure</u>	<u>Price of Plan</u>
<u>Beef Barns (Continued)</u>		
*72424	Beef Feeding Barn. 48' x 60'. Clay tile wall construction. Gable roof. Hay storage floor to roof in center with space for loose cattle on both sides.	.30
*72431	Beef Cattle Barn. 52' x 72'. Pole type barn. Gable roof. Hay storage in center, space for loose cattle on one side and pens with grain bin and feed alley on other side.	.30
*72432	Beef Cattle Barn. 44' x 64'. Pole construction. Gable roof. Loafing shed on one side, pens on other side. Hay to ground in center of building. Feed rooms at one end of center section.	.45
*72433	Beef Cattle Barn. Gambrel roof center section, sheds three sides. Frame construction. Concrete foundation. Hay carried to ground in center section, fed from three sides. Contains 4 cow stalls. Pens and feed room in addition to loose cattle area.	.45
*77701	Barn Yard Pavement. Details of concrete slab construction for barn yard pavement.	.15

Bound Set of General Purpose Barn and Roof Framing Plans. \$4.00
A complete set of plans for four general purpose barns, and barn roof framing details, as listed below.

General Purpose Barns

*72114	General Purpose Barn. One-story gable roof barn, 34' x 30'. providing space for four cows and feed storage along one side with box stalls or pens along the other side. Mangers in the pens are adjustable to be usable for horses or calves. Alternate floor plan for six cows and details for construction with hay mow are shown.	.60
*72115	General Purpose Barn. 34' x 60' gambrel roof barn which may fill the needs of many farms. 12 cow stalls, space for young stock and additional pens across one end of the barn. Pen partitions are movable and mangers adjustable so the space at the end of the barn may have varied use.	.60
*72135	General Purpose Barn. This 34' x 60' gothic roof barn is arranged for multiple use, three floor plans suggested. The large open pen space may be used for beef cattle or with the loose-housing system of dairying. The four stall milking room is adaptable to small or large herds of milk cows. The pens across the end may be converted to several uses.	.90

*Denotes new plans.

<u>Plan No.</u>	<u>Kind of Structure</u>	<u>Price of plan</u>
<u>General Purpose Barns (Continued)</u>		
*72136	General Purpose Barn. This plan is the structural shell of a 36' x 49' 2-story gothic roof barn. The posts are so placed that each bay of the ground floor is identical. The arrangement of space is left to the builder, but sketches of various uses for the bays are offered in the plan to help the builder.	.60
<u>Roof Framing Plans</u>		
*72005	Truss Framing for Clear Span Roofs. Effective truss to use on barns or sheds where an unobstructed interior is desired. Trusses for 24' and 30' spans are shown. Methods are shown for using either glue or timber connectors as the major fasteners.	.10
*72006	Gothic Rafters (Bent Type). The curved or so-called "gothic" roof offers a pleasing appearance and clear mow space. This plan gives specifications for building these rafters at the building site, for 34', 36' or 40' barn widths. Information on joist and girder sizes is given for loose, chopped or baled hay.	.30
*72007	Gothic Rafters (Sawed Type) This plan shows the method of constructing curved or so-called "gothic" rafters by the use of wide thin boards sawed to shape. This has proved to be an effective rafter especially where native lumber is available for construction. Plans shown for 34' and 36' barn widths. Information on joist and girder sizes is given for loose, chopped or baled hay.	.15
*72008-A	Braced Rafter for 32' Barns. This braced rafter is a very effective way of framing the gambrel roof barn. The rafters are light and easily constructed.	.15
*72008-B	Braced Rafter for 34' Barns. Same as 72008-A except it is for barns 34' wide.	.15
*72008-C	Braced Rafter for 36' Barns. Same as 72008-A except it is for barns 36' wide.	.15
*72009	Shawver Roof Truss. The Shawver roof truss has long been a stand-by in barn roof construction. It is strong and rugged and has proved quite satisfactory from the construction standpoint. However, it does require rather long heavy members. The units constructed on the ground are comparatively large and require more effort to raise than the single rafter types. Plans shown for barn widths of 32', 34' and 36'. Information on joist and girder sizes is given for loose, chopped or baled hay.	.15

*Denotes new plans

<u>Plan No.</u>	<u>Kind of Structure</u>	<u>Price of Plan</u>
	<u>Grain Storage Catalog.</u> An illustrated booklet describing all grain storage and corn crib plans listed below.	(No charge for single copies)
	<u>Bound Set of Grain Storage Plans.</u> This bound set includes complete plans for all grain storages and corn crib plans listed in this circular or illustrated in the catalog described above.	\$7.50
	<u>Granaries & Corn Crib</u>	
*72626	Double movable farrowing house convertible to 300 bushel grain bin. 8' x 12'. Farm built plywood construction.	.15
*72627	Farrowing barn convertible to 3,400 bushel grain bin. 22' x 24' with 8' studs. Concrete floor; walls are drop siding over shiplap sheathing with building paper between; roof is wood shingles over shingle lath. Farm built.	.30
*72711	Movable brooder house convertible to 500 bushel grain bin. 8' x 12' with 8' studs on high side. Frame floor on skids. Walls are drop siding over shiplap sheathing. Roof is wood shingles. Filled through front.	.15
*73251	600 bushel movable grain bin. 10' x 10' with 8' studs. Frame floor on skids. Walls are composition siding over shiplap sheathing. Roof is roll roofing.	.15
*73252	1,000 bushel movable grain bin. 12' x 14' with 8' studs. Frame floor on skids; walls are drop siding over shiplap sheathing; roof is wood shingles over solid sheathing.	.15
*73261	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. Concrete floor; walls are composition siding over shiplap sheathing; roof is corrugated aluminum. Filled through gable ends. Farm built.	.15
*73262	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; roof is wood shingles. Farm built.	.30
*73263	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. Concrete floor; walls are asbestos-cement board over shiplap sheathing; roof is corrugated steel. Farm Built.	.30

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<u>Plan No.</u>	<u>Kind of Structure</u>	<u>Price of Plan</u>
<u>Granaries & Corn Crib</u> (Continued)		
*73264	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 and roof are corrugated steel. Farm built.	.30
*73268	10,000 bushel farm elevator. Stud construction.	.90
*73269	10,000 bushel farm elevator. Crib construction.	.45
*5711	Suggested drier layout for elevator plans 73268 (5710) and 73269 (5532) for use with heated air equipment.	.30
*73271	Single pole and snowfence corn crib. 8' width is variable for different climates; length is variable. Filled through roof hatches; emptied through removable gates.	.15
*73272	Single corn crib. 8' width is variable for different climates; length is variable, with solid partition every 16'.	.15
*73281	Double corn crib. Total width of 20' with two 8' cribs variable in width for different climates and 4' alleyway; length is variable. 12' studs. Emptied from 4' alleyway.	.30
*73282	Double corn crib. Total width of 27' with two 8' cribs variable in width for different climates and 11' driveway; length is variable. 12' studs.	.30
*73283	Double corn crib. Total width of 27' with two 8' cribs variable in width for different climates and 11' driveway; length is variable. 14' studs. Overhead bin.	.30
*73291	1,000 bushel steel grain bin. 14½' diameter with 8' to eave. Prefabricated construction.	.30
*73292	2,700 bushel steel grain bin. 18' diameter with 13' to eave. Prefabricated construction.	.30
*73293	1,200 bushel grain bin. 12' x 16' with 8' studs. No partitions. Prefabricated or farm built on loose concrete blocks; walls of drop siding over shiplap sheathing; roof of wood shingles.	.30
*73294	2,000 bushel grain bin. 16' x 20' with 8' sidewall. One bin, no partitions. Prefabricated plywood or farm built on concrete blocks.	.45
*73295	2,700 bushel grain bin. 14' x 24' with 10' studs. One bin no partitions. Prefabricated or farm built on concrete blocks; walls of drop siding over shiplap sheathing; roof of wood shingles.	.30

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<u>Plan No.</u>	<u>Kind of Structure</u>	<u>Price of Plan</u>
<u>Granaries & Corn Crib</u> (Continued)		
*73296	1,100 bushel grain bin. 12' x 16' with 7' studs. Farm built on fixed concrete foundation; walls, roof, and floor of plywood construction.	.15
*74132	Double truck garage convertible to 4,500-bushel grain bin. 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. Concrete floor; walls are drop siding over shiplap sheathing; roof is wood shingles.	.30
*74133	Round roof machine shed convertible to 4,000-bushel ear corn dryer. 16' radius laminated wood arch; 32' length. All necessary details, including the drying tunnel and door closure panels, are shown. Concrete floor; walls are corrugated steel over shiplap sheathing; roof is corrugated steel over nailing girts.	.60
*75503	Steel bin with ventilated floor. 18' diameter with 9' to eave. Capacity for drying is 500 bushels ear corn or 1,000 bushels grain. Prefabricated.	.45
*75513	4,000-bushel ear corn dryer convertible to machine shed. 28' x 40' with 10' studs. A false floor is used for drying with fan from duct at large door. Concrete floor; walls and roof are corrugated aluminum.	.45
*77613	300-bushel movable hog self feeder. 10' x 16'. Dual purpose; provides small storage space with enclosed feeding floor. Farm built plywood construction on skids.	.15
*77614	400-bushel movable hog self feeder. 8' x 12' with 7' studs. Dual purpose; provides storage space which may be entirely sealed and protected feeding trough as hog feeder. Farm built plywood construction on skids.	.15
*77416	Movable beef cattle self feeder, dryer, and storage unit for grain and ear corn. 16' x 16' with a capacity of 750 bushels ear corn or 1,500 bushels grain. Tunnel under sloping floor is connected to blower for drying. Frame floor; walls are drop siding over shiplap sheathing; roof is wood shingles. Farm built.	.30
*77615	Movable hog self feeder, dryer, and storage unit for grain and ear corn. 12' x 16' with a capacity of 550 bushels ear corn or 1,100 bushels grain. Tunnel under sloping floor is connected to blower for drying. Frame floor; walls are drop siding over shiplap sheathing; roof is wood shingles. Farm built.	.30

*Denotes new plans.

<u>Plan No.</u>	<u>Kind of Structure</u>	<u>Price of Plan</u>
<u>Machine Sheds, Shops & Garages</u>		
	Farm Machinery Housing Circular - A circular illustrating new machine shed and garage plans is available on request. It includes, additional information that would be of help in planning a machinery storage.	
	<u>Bound Set of Machinery Housing Plans</u> Includes all the plans for machine sheds, shops and garages listed below.	\$4.50
	<u>Rafter & Truss Plans</u>	
*72010	Scissors Truss Details for 24', 26' or 28' span. Truss is designed for 4' o. c. spacing with intermediate 2" x 6" rafters.	.15
*72011 & 72014	Standard truss for 32', 34' or 36' spans. Truss is designed for use of timber connectors.	.15
*72012	36' span Bent-Laminated Arch Rafter.	.15
	<u>Garages & Workshop</u>	
*74101	Single Car Garage, 12' x 24', frame construction.	.15
*74102	Two Car Garage, 22' x 22', frame construction.	.15
*74103	Workshop, 24' x 24' with space for auto or pickup, frame construction.	.30
*74104	Three-Car Garage, 22' x 32', with 16' and 9' overhead doors, frame construction.	.30
	<u>Machinery Storages</u>	
*74135	Pole Machine Shed, 24' or 28' width, 48' long	.15
*74136	Machine Shed with frame construction, designed for 26' or 28' width and 48' long. Two sliding doors on one side and large door on end.	.15
*74137	Machinery Shed & Shop, frame construction with gable roof, designed for 26' or 28' width and 80' length. Large doors provided for combine.	.45
*74138	Farm Machinery Center. Two machinery wings 32' x 48' with 32' x 40' shop and storage area. Details for masonry construction.	.60

*Denotes new plans.

<u>Plan No.</u>	<u>Kind of Structure</u>	<u>Price of Plan</u>
<u>Machinery Sheds, Shops & Garages (Continued)</u>		
*74139	Gothic Roof Machine Shed. 36' x 60'. Details for rafter construction included.	.30
*74140	Central Drive-Through Machinery Storage Building. Planned for 32', 34' or 36' widths and 72' length. Frame construction with gable roof.	.45
*74141	Pole-type Machine Shed. Same size of building as 74140.	.45
*74145	Concrete Block Machine Shed. 28' x 80' with sliding doors on side and shop in one end.	.45
	<u>Potato Storages</u>	.30
5176	A 300 bushel earth covered concrete potato storage, 8'-0" x 12'-0". Plans show details for a flat or round roof.	.30
5645	Nebraska type potato storage, 42' x 42', with 6,700 bushel capacity. Plans show a gable roof and a concrete driveway at one end. Complete construction details are shown. (For further information see F. B. 1986 "Potato Storage").	1.50
5643	Maine Type Farm Storage. 36' wide and 40' long with 14,000 bushel (3,500 barrels) capacity. Storage has a gambrel (hip) roof with side bins 11'-5" wide. Center work alley 11'-2" wide can be filled with potatoes from overhead driveway. (For further information see F. B. 1986 "Potato Storage".)	1.20
	<u>Irrigation Equipment</u>	
10.313-4	Three-way Division Box.	.30
10.313-6	Irrigation Leveling Drag. 8' wide, 22' long.	.30
10.313-9	Irrigation Takeout Box.	.10
10.313-12	Irrigation Double Wing Ditcher.	.30
10.313-18	Takeout Box.	.10
10.313-19	"Yardstick" Water Measuring Method.	.20
10.313-20	Irrigation Pump House.	.30
10.313-21	Stilling Basin.	.30
	<u>Miscellaneous</u>	
*73101	Hay Shed. 24' x 60'. Pole construction. Capacity 60 tons loose hay. Sides and ends open to a height of 8 feet. 8' x 12' hay door. Gable roof. Five 12' bents. 12' driveway through center bent. Roof trusses of 2 x 6 plank construction spaced 12'. Plate and ridge 20 and 29 feet respectively.	.30
*77701	Barn Yard Pavement Details of concrete slab construction for barn yard pavement.	.15
*Denotes new plans.		31053ame-8/54

<u>Plan No.</u>	<u>Kind of Structure</u>	<u>Price of Plan</u>
<u>Miscellaneous (Continued)</u>		
*77901	Safety Bull Pen and Shed. 12' x 16' shed, frame construction, shed roof; details for breeding chute and various types of fence construction.	.30
73402	Small home storage cellar with flat roof. 9'-4" x 11'-4"	.30
85521	Concrete cistern filter.	.30
10.41134-1	Home-Made Slide Hay Stacker.	.30
10.411348-1 -	Hay Sled - 16' x 20'.	.30
10.75-14	Farm Gate - Welded.	.10
7102	A walk-in refrigerator with a room for chilling and storing meats and other farm products (approximately 250 cubic feet) and a low-temperature room for freezing and storing fruits, vegetables, and meats (approximately 100 cubic feet). Can be built inside another building, or outside with addition of siding and roof.	1.20

*Denotes new plans.

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