

1969

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MIDWEST PLAN SERVICE PUBLICATIONS

April 1969

BOOKS

PLANS

DIGESTS

Livestock Facilities, Buildings , Homes, Systems, Equipment

UNIVERSITY OF NEBRASKA COLLEGE OF AGRICULTURE AND HOME ECONOMICS
AND U.S. DEPARTMENT OF AGRICULTURE
COOPERATING

E. F. Frolik, Dean

J.L. Adams, Director



Introduction

This 1969-1970 Midwest Plan Service Publications Catalog is designed to do two things: to describe our publications and to show you how to get them.

It lists all, and describes many, of the books, plans, and digests that are currently available and in print. Some of these are relatively new and have been given more attention than other older publications.

These books, digests, and plans should prove to be valuable additions to many farm, school, and company libraries. The information they contain is written to be understood and used. The authors are all highly-qualified agricultural engineers.

Plans call for the addition of new publications on a variety of subjects, and the occasional revision of current publications as new information becomes available.

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How To Order:

If you live in any of the states listed below, you may obtain the publication of your choice by buying from your county extension office or sending its number and the proper remittance to:

Agricultural Engineering Extension

University of Alaska
College, Alaska 99735

University of Illinois
Urbana, Illinois 61801

Purdue University
Lafayette, Indiana 47907

Iowa State University
Ames, Iowa 50010

Kansas State University
Manhattan, Kansas 66502

Michigan State University
East Lansing, Michigan 48823

University of Minnesota
St. Paul, Minnesota 55101

University of Missouri
Columbia, Missouri 65201

University of Nebraska
Lincoln, Nebraska 68503

North Dakota State University
Fargo, North Dakota 58102

Ohio State University
Columbus, Ohio 43210

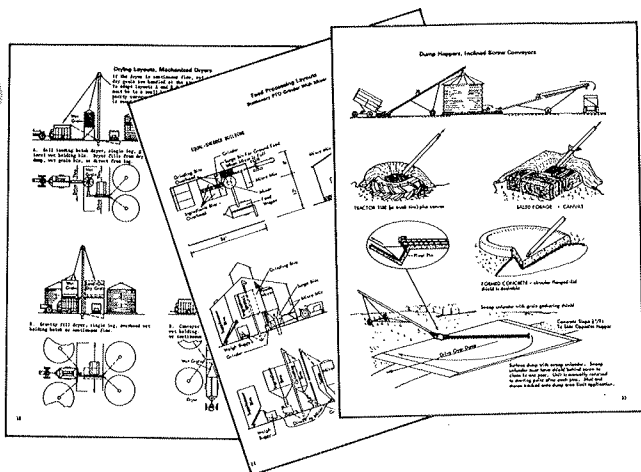
South Dakota State University
Brookings, South Dakota 57006

University of Wisconsin
Madison, Wisconsin 53706

If you do not live in any of these states listed above, you may obtain the publication of your choice by sending its number and remittance to the state of your choice or the:

Midwest Plan Service
Agricultural Engineering Bldg
Iowa State University
Ames, Iowa 50010

FEED HANDLING



Planning Grain-Feed Handling, MWPS-13, 60p., \$1.00

No farmer is really content with any crop, no matter how abundant it may be, as long as it's in the field. Harvesting is often complicated by bad weather, high-moisture grain and limited storage facilities. The battle isn't over until every bushel of grain is sold or safely stored away, ready for use.

Our new "FEED CENTERS" book takes on the whole problem of handling grain, and comes up with some plans and ideas that will be of benefit to many farmers. It tells how to arrange storage bins and buildings for the most efficiency and flexibility; it deals at length with the design of equipment to handle specific problems; and it provides valuable information on the assembling of a whole system from the many items of equipment available.

In short, it gives the farmer or grain dealer the basic engineering information he needs to successfully plan a complete grain handling system. This kind of information is not generally available in a single publication.

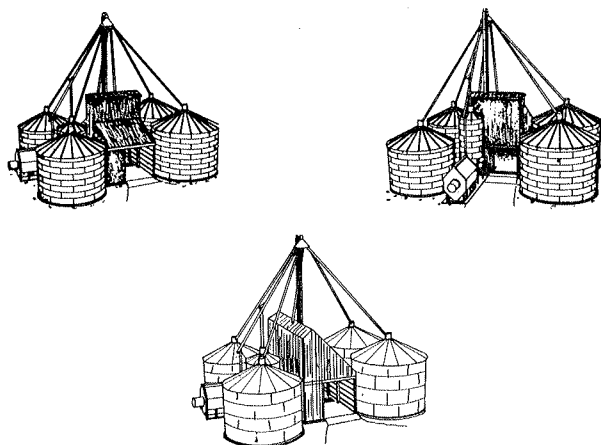
Grain-Feed Handling Centers \$2.00 Ea.

Plans 73292, 73293

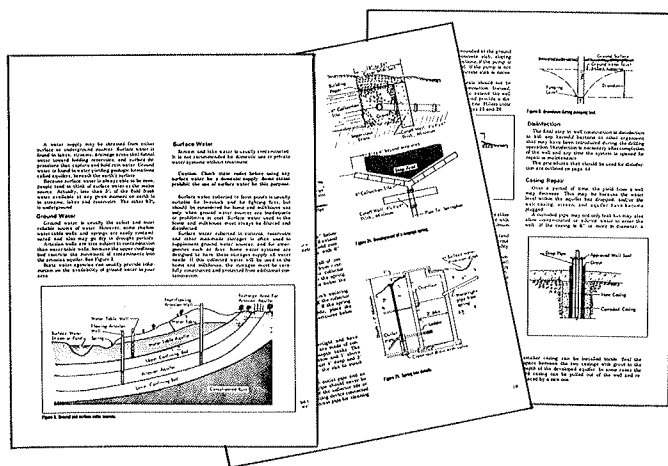
Among the new Midwest Plan Service publications are these two plans, each for grain-feed handling centers. Developed by agricultural engineers of Purdue University, they are now available through the MIDWEST PLAN SERVICE for wide distribution. They each contain 14 pages of detailed drawings on the design of grain-feed handling centers.

Plan 73294

This plan features the work tower parallel to the drive with an offset gable building. The 20' by 36' center building is divided by a 12' drive-through plus an 8' wide processing area. Alternative storage layouts including bin and high capacity drying, 12000 to 40000 bushel volumes. Complete working drawings excluding bulk and working bins.



WATER SYSTEMS



Private Water Systems, MWPS-14, 60p., \$1.00

This is the latest and most comprehensive treatment of a subject vital to almost all farmers, many suburbanites, and a growing number of city dwellers who are rightfully concerned about the quality and quantity of their water.

The information contained in this book was painstakingly compiled by a committee of highly qualified agricultural engineers. Included in the subject matter is the latest scientific information available, as well as references to the latest equipment.

"PRIVATE WATER SYSTEMS" represents a careful balance between scope and depth. The reader will find not only a great deal of technical information on such subjects as purification, he will also find abundant material on the various types of pumps and the numerous basic water systems designs.

This is a book designed and created to fill an existing need. There is every reason to believe that "PRIVATE WATER SYSTEMS" will become a standard reference of the water industry.

GENERAL INTEREST

Outdoor Living Planning and Construction Guide, MWPS-12, 52 p., \$1.00

One of the latest books to be produced by the agricultural engineers of the Midwest Plan Service. This is a 52-page book devoted to being a "Planning and Construction Guide," as stated on the title page.

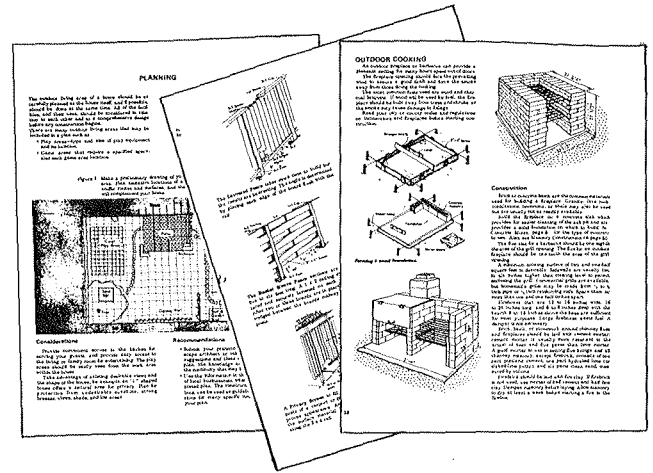
This book is based on the premise that a home is more than just a house somewhere. Outdoor living has always been a characteristic of the American way of life, and outdoor living is best enjoyed when the home and its surroundings are designed with care and foresight.

The reader of this book will probably gain from the abundant material on the planning and construction of many useful items; walks, fences, gates, retaining walls and even game areas.

What's more important, the reader will not only learn what he can do to make outdoor living more enjoyable, he will learn why given items make a real contribution to his outdoor enjoyment.

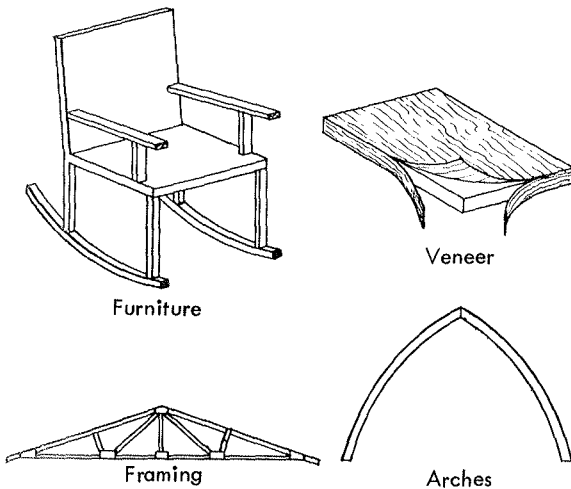
There are construction drawings; there are discussions of materials; there are even cabin plans.

This book should become a standard volume for those interested in developing their home to enjoy outdoor living.



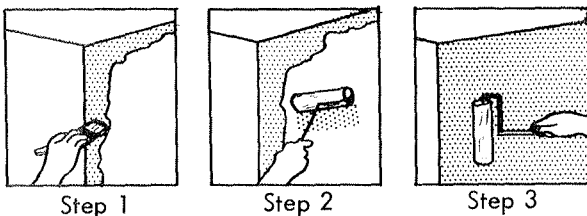
AED-6 Gluing Wood, Free

Describes how to select and use glue for wood projects. A special section on structural gluing, and a table describing the properties of several commonly used glues, are just two parts of the digest.



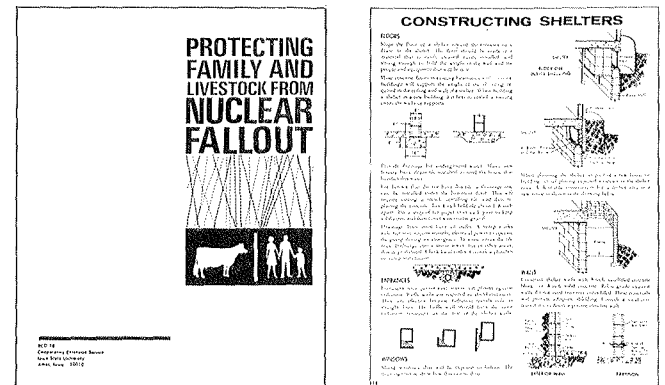
AED-9 Paints and Painting, Free

Contains recommendations that can help you select the right paint, prepare a surface for painting, and apply the paint correctly. Tables list the many types of paint that can be applied to different surfaces. There is also information on moisture problems, when to paint, stains and painting galvanized metal.



Protecting Family and Livestock From Nuclear Fallout, Free

This book was developed by a special committee at the request of the Federal Extension Service. It contains information on the planning of human and animal fallout shelters, and is available free from all 50 state universities.



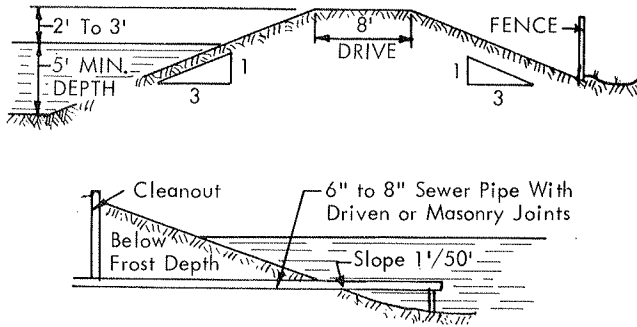
Contemporary Farmhouses, Flexiplan 71204, \$4.95

A unique and very useful book for planning and evaluating farm and suburban homes. By matching the 24 split-page living area plans with the 24 split-page bedroom area plans, the reader can consider 576 different floor plans. In addition there are 20 big pages on planning, construction, and other design factors.

WASTE DISPOSAL

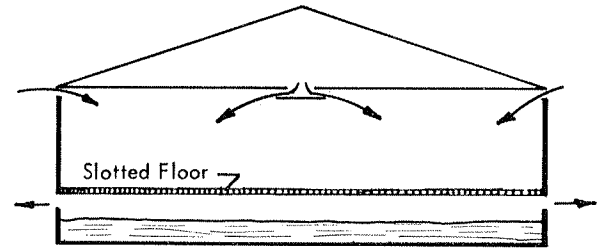
AED-1 Lagoon Manure Disposal Free

Explains the way lagoons function both aerobic and anaerobic. Recommendations include site location, loading rates, area requirements and construction of inlets and outlets.



AED-8 Handling Liquid Manure Free

This digest lists several advantages of handling manure as a liquid and describes the facilities needed to handle manure in this way. Lists the three most common disposal methods, different kinds of pumps and a variety of other useful information.



Rectangular Manure Tank, USDA 5981, 75¢

6' to 10' deep, 20' wide and 20' to 100' long. Concrete walls, floors, and top. Capacities: 18,000 to 150,000 gallons.

Circular Manure Tank, USDA 5984, 75¢

6' to 10' deep, 32' or 48' diameter. Concrete walls, floor, and top. Capacities: 36,000 to 135,000 gallons.

Liquid Manure Tank, USDA 5987, 25¢

10' deep, 12' to 24' wide, any length. Concrete walls, floor, and top.

SWINE

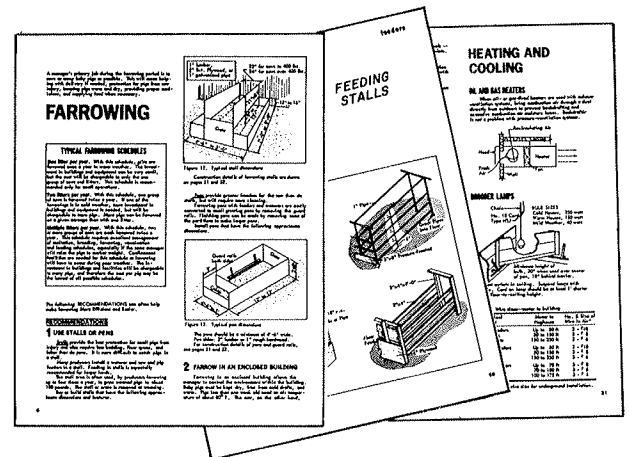
Swine Housing and Equipment Handbook MWPS-8, 74 p., \$1.00

This recently revised book now contains 74 pages of the latest information on swine production, as compiled by a team of agricultural engineers.

It includes a wealth of statistics valuable to swine producers; information such as insulation ratings, ventilation and heat data, feeder and waterer size and recommended floor space.

There's lots more, too. The reader will find diagrams and drawings of many useful pieces of equipment, from farrowing houses to portable pens. There's even a section on weights and measures.

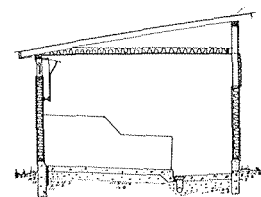
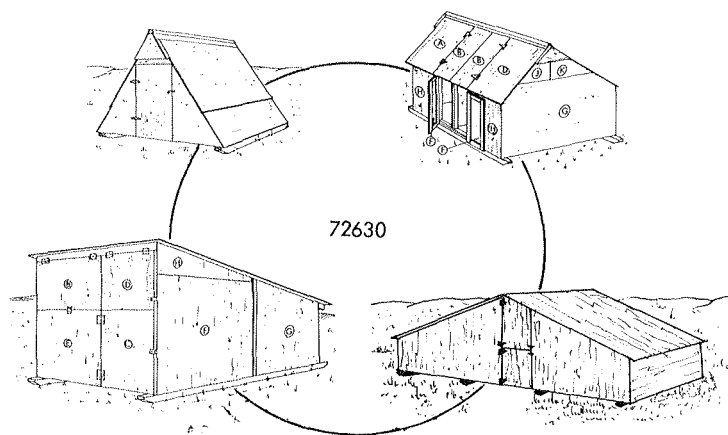
The careful and profit-conscious swine producer will find this book contains a worthwhile and generous supply of useful, direct, and understandable information. It will make a good addition to his library.



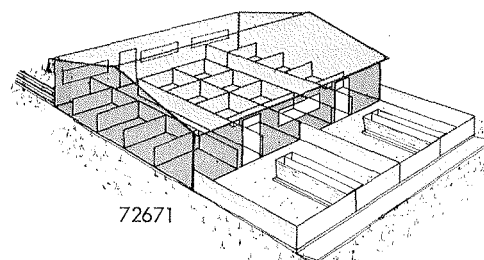
Nomograph For Swine Environment Calculations, AED-4, Free

This digest is primarily for designers. The formulas from which the nomograph was derived are explained. Several examples of uses of the nomograph are shown. The summer and winter design temperatures and humidities are given for the entire United States.

SWINE

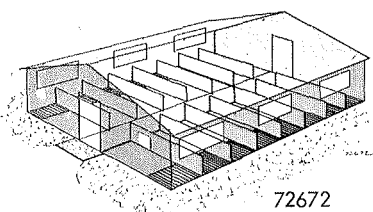


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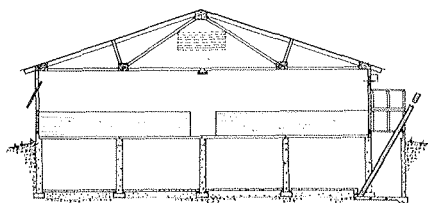


72671

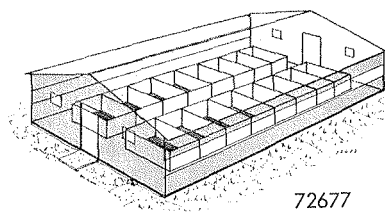
Plan Title	Plan No.	Price	Building Size	Number and Size of Pens	Comments
Farrowing Houses Portable	72630	\$1.00	This plan details four small farrowing houses.		
Farrowing House Single Row	72666	.25	12'x40'	8-5'x7' stalls	Shows a 1-pen, two 2-pen, and one 4-pen house. 8'x12' outside feeding platform. 4' feeding alley. Solid floor
Farrow and Start Outside Feeding	72671	.75	26'x36'	18-5'x7' stalls	
Farrow and Start	72672	.75	28'x40'	16-5'x12' pens	Center alley, gutters along walls. Pens partially slotted.
Cold Finishing Houses	72673	.75	28'x40'	4-10'x25' pens	Indoor feeding. Use in cold climates rather than 72673-R1.
	72673 R1	.75	28'x40'	5-8'x25' pens	10' wide gutter along open side of bldg. Use in milder climates.
Finishing House Total-slotted Floor	72674	.75	40'x60'	8-9'x16½' and 4-6'x16½' or 6-10'x16' and 6-10'x22' pens	Total slotted floors. Annex for emptying pit.
Finishing House Partially-slotted Floor	72675	.75	36'x48'	6-8'x12' and 6-8'x20' pens	Partial-slotted floors. Three alternate layouts given.
Farrowing House Slotted Floor	72677	.75	24'x52'	16-5'x7' stalls	Stalls over slats. Optional solid floor or partial slats.
Starting Building	72678	1.00	24'x40'	8-10'x10' pens	Full slotted floor. Designed for 20 lb to 100 lb pigs.



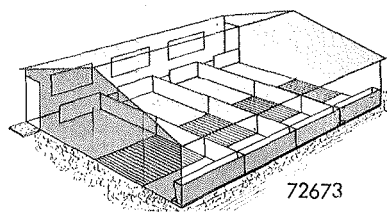
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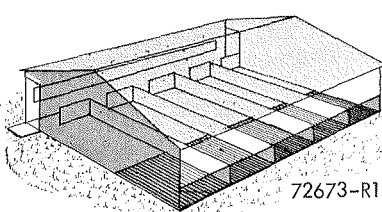
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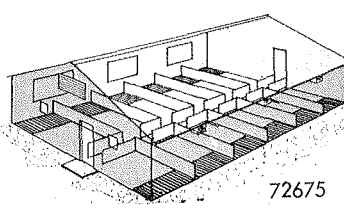
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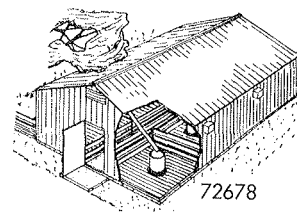
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72673-R1



72675

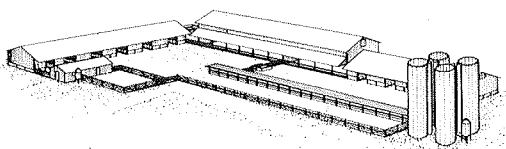
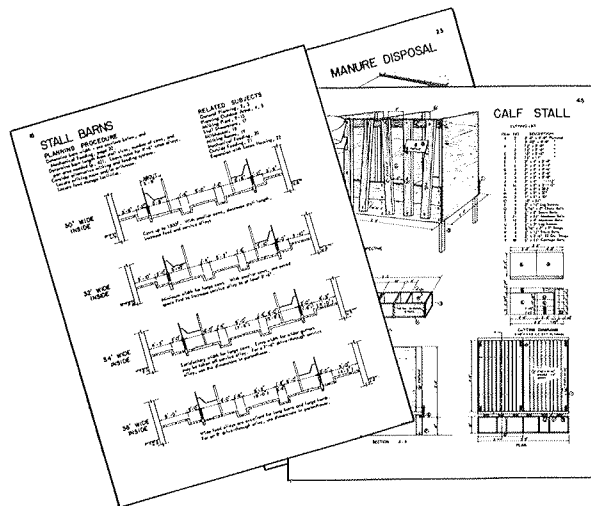


72678

DAIRY

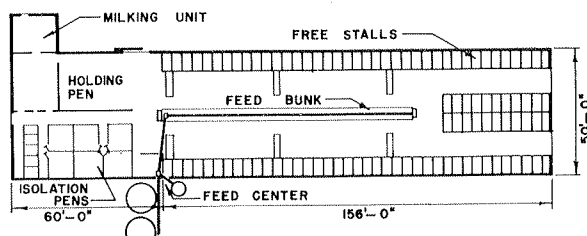
Dairy Equipment Plans, MWPS-7, \$1.00

This is a 72 page collection of specifications and construction suggestions for dairy farm equipment. Included are recommendations and information on stall and loose housing, milking plants and milkhouses, and a section on housing for calves, dry stock and bulls. Also included is information on bunks, feeders, pen and stall equipment, handling equipment and fencing.



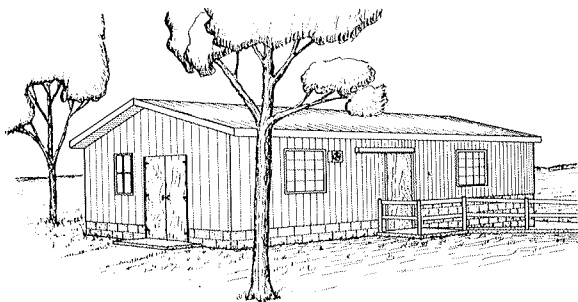
Dairy Layout, MWPS 72350, \$1.00

100 free stalls. Two layouts easily expanded to 200 head are shown. Construction details for sheds, free stalls, and feed bunk included.



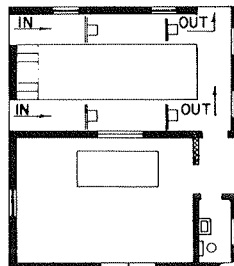
Dairy Layout, MWPS 72351, \$1.25

100 cow free stall unit with feeding, cow-care area, holding pen, and feed center in one building.

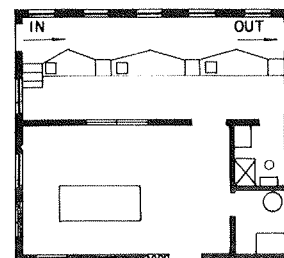


Herringbone Milking Plant, MWPS 75246, \$1.00

High-level and low-level milk lines.

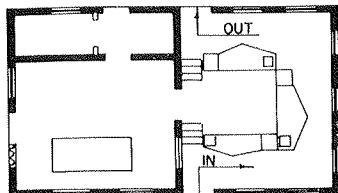


4-Stall Chute Type, MWPS 75241, 75¢



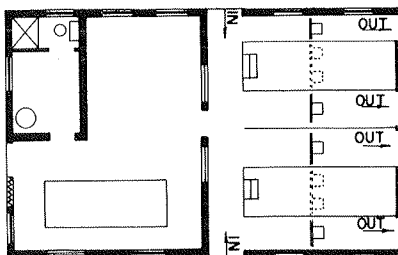
Single Row, Side Opening, MWPS 75242, \$1.00

Floor plans for 2,3, and 4 stalls.



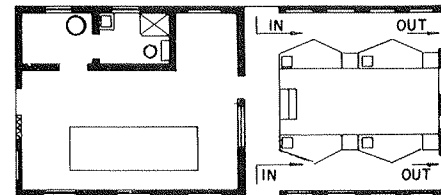
U-Type, Side Opening, MWPS 75243, 75¢

Floor plans for 3,4, and 5 stalls.



Double Row, Walk Through, MWPS 75244, 75¢

Two floor plans

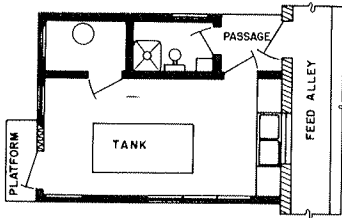


Double Row, Side Opening, MWPS 75245, 75¢

Floor plans for 4 and 8 stalls.

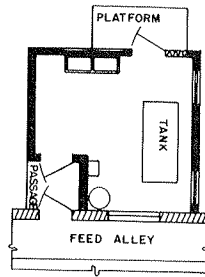
DAIRY

BULK MILKHOUSES



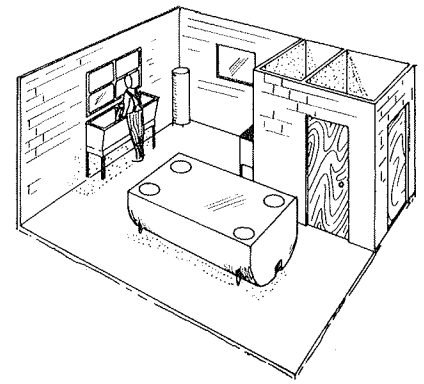
MWPS 75262, 75¢

Two floor plans (16'x16' and 16'x17'-4")
Daily capacities from 100 to 240 gallons.



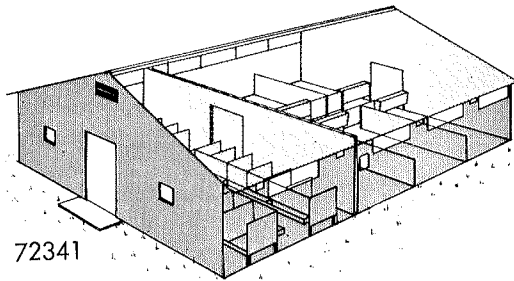
MWPS 75263, 75¢

Two floor plans (18'-8"x24', 16'x18'-8")
Daily capacities from 50 to 340 gallons.



MWPS 75264, 75¢

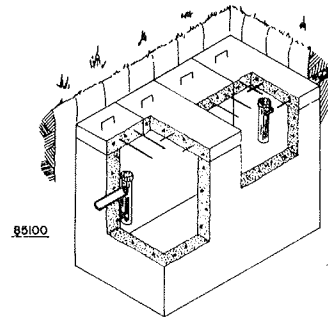
Different sizes and capacities (260 to 430 gallons per day) of milkhouses can be obtained from the same basic plan.



72341

Calf Barn, MWPS 72341, 75¢

A 32'x50' frame building. Twenty individual elevated calf stalls and 6 pens for calves 1½ to 12 months old. Insulation and ventilation recommendations given. Detail of trussed roof also included.

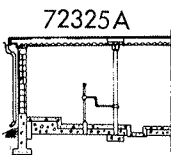


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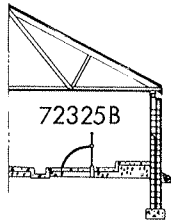
Farm Milking Plant Waste Disposal, MWPS 85100, 25¢

Recommendations are given for septic and settling tanks and tile lines in absorption fields.

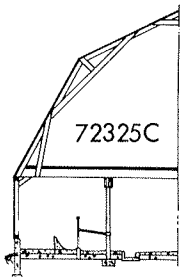
STALL BARN



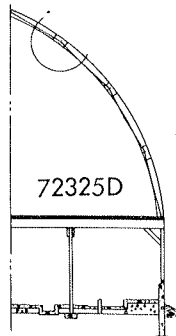
72325A



72325B



72325C



72325D

Each plan includes floor plans for 20, 32, 40, or 58 cows and details for wall, window, floor, and door construction.

1-Story Flat Roof, MWPS 72325A, \$2.00

Requires storage of hay in a separate building.

1-Story Gable Roof, MWPS 72325B, \$2.00

Trussed gable roof without loft storage permits post-free interior.

1½ Story Gambrel Roof, MWPS 72325C, \$2.00

Self-supporting braced rafters eliminate posts in mow.

2-Story Gothic Roof, MWPS 72325D, \$2.00

Sawed-laminated rafters developed for construction on the farm.

2-Story Gothic Roof, MWPS 72325E, \$2.00

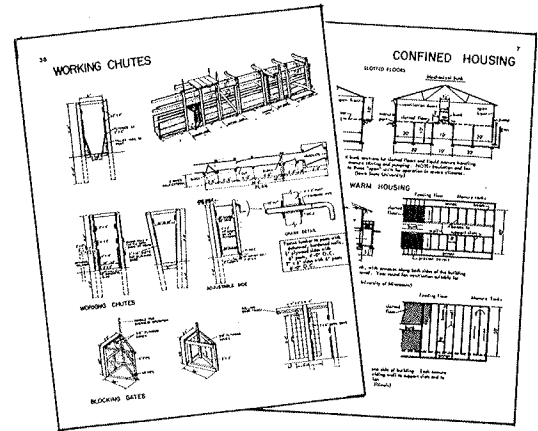
Bent-laminated rafters may be purchased ready made, or constructed on the farm from the plan.

BEEF

Beef Housing and Equipment Handbook, MWPS-6, \$1.00

This is a 64 page volume of great potential value to anyone wanting to design or evaluate a beef feeding system. Originally printed in 1963, the Beef Handbook was revised in 1968 and is now better than ever able to help solve a cattleman's problems. Section on various equipment (with plans and diagrams) and even a section on materials.

The careful reader will also find a section on feed data, one on silo capacities and another on weights and measures.



Confined Beef Feeding, MWPS 72425, \$1.00

A 70' wide pole building for 200 feeders in complete confinement. Mechanical or fenceline bunk options.

Inside Feeding Layout, MWPS 72426, \$1.00

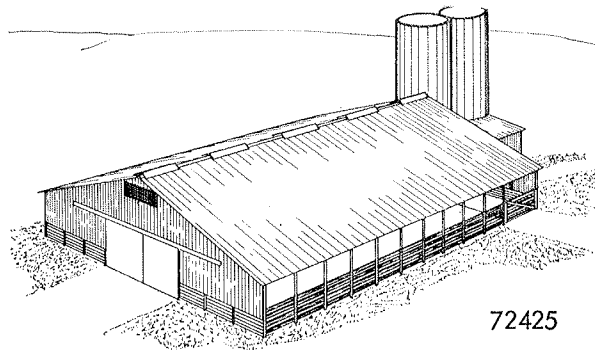
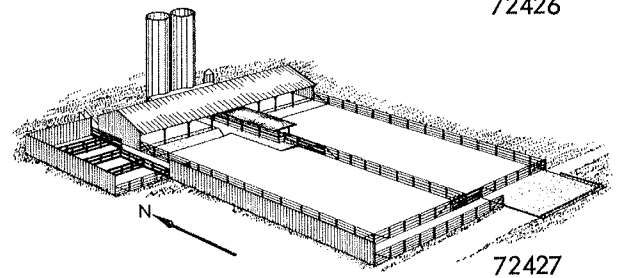
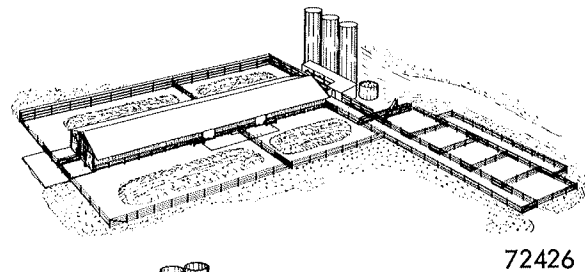
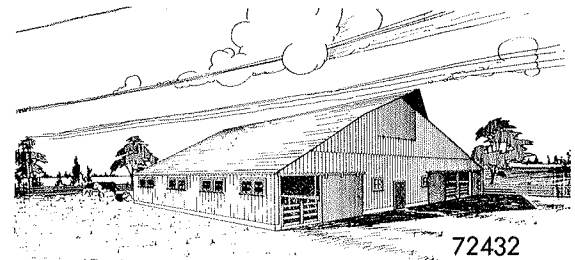
A mechanical bunk divides a 36' by 168' pole building for feeding about 200 head. Animals are bedded on outdoor mounds, but use the building for winter and summer shelter.

Outside Feeding Layout, MWPS 72427, \$1.00

Two layouts for 200 animals, readily expanded to 400, are shown for mechanical feeding outdoors. Bedded 40' pole shed, typical feed bunk, and feed center are detailed.

Pole Type Beef Cattle Barn, MWPS 72432, 75¢

Barn is 44'x64'. Loafing shed on one side, pens on the other side, hay to ground in center.

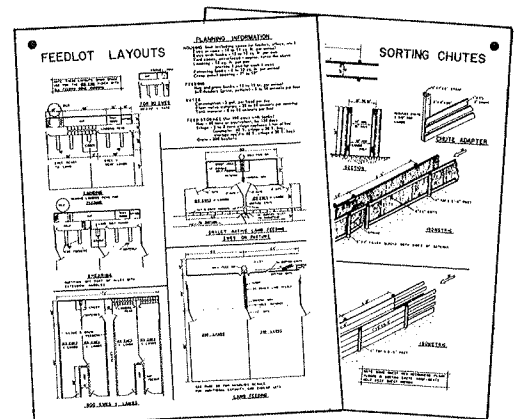


SHEEP

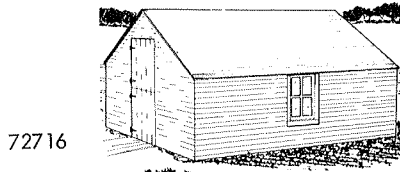
Sheep Equipment Plans, MWPS-3, \$1.00

Specific, detailed information on the construction and manufacture of a multitude of items useful to the sheep producer. The 40 page book discusses such subjects as lambing and feeding operations, complete construction drawings of show feeders, pens, fences, handling equipment, and sorting and loading equipment.

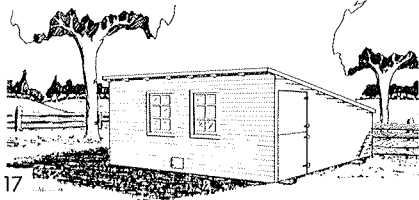
Materials are prominently discussed, as well as horsepower requirements for elevators and conveyors and some data on electric installations. And there is a brief summary of some basic management statistics and material.



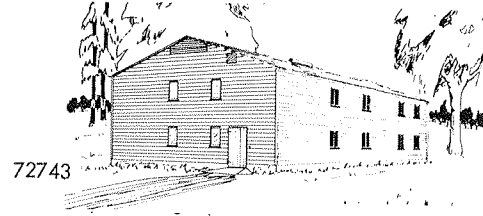
POULTRY



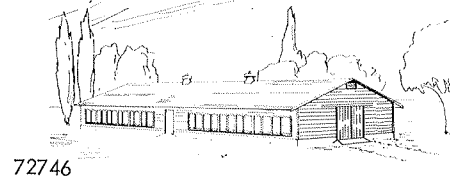
72716



72717



72743

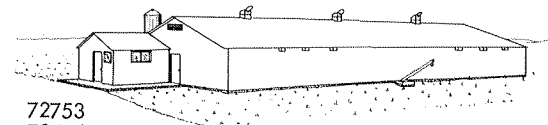


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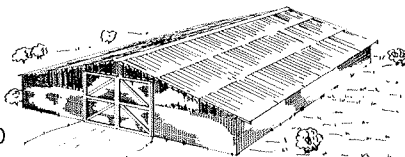
Plan Title	Plan Number	Price	Capacity	Size	Framing Construction	Disposal System	Special Features	Comments
Brooder House Movable	72716	\$.25	400	12'x14'	Rigid Frame	Hand		Easily constructed using tilt-up rigid frames
Brooder House Movable	72717	.25	400	12'x14'	Rigid Frame Shed Roof	Hand		Shed Roof
Laying House Two Story	72743	1.00	1820	36'x84'	Frame	Tractor	Feed Room Egg Cooler	Insulation - ventilation requirements are tabulated
Laying House Solar Oriented	72746	1.00		36'x100'	Frame	Tractor	Feed Room Equip. Area	Designed to take advantage of seasonal change in sun's position.
Laying House	72748	.75	3000	36'x108'	Pole	Mechanical	Egg Cooler	Truss roof, block and frame wall construction optional.
Laying House Summer House	72750	.50	450	36'x36'	Pole	Tractor	Wire Walls Metal Roof	May be used for other purposes during the winter
Laying House Floor Systems	72753	1.00	3600	36'x100'	Frame	Lagoon or Tractor	Egg Cooler	3 floor systems shown and 1 cage layout. Pole wall optional
Laying House Cage	72754	1.00	4800	40'x100'	Frame	Mechanical	Egg Cooler	Pole wall optional, clear span truss detailed
Broiler House	72761	1.00	5000	48'x108'	Pole	Tractor	Feed Hopper Equip. Area	Automatic watering and feeding is recommended



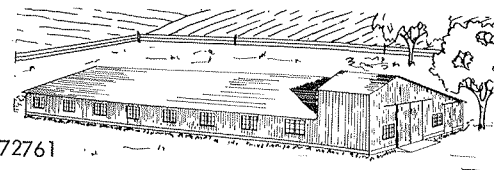
72748



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72754

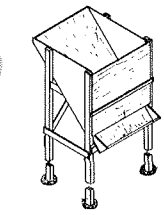


72750

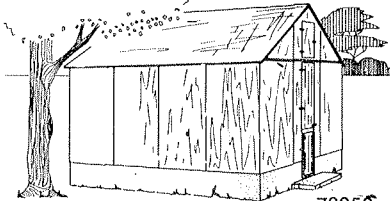


72761

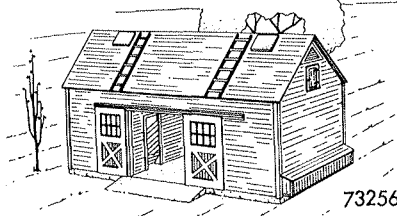
GRAIN STORAGE



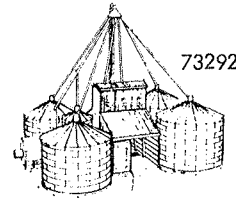
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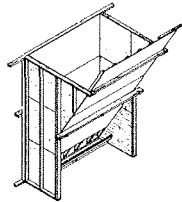
73250



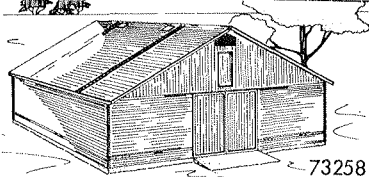
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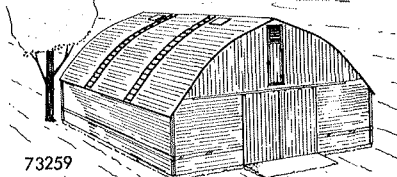
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73220

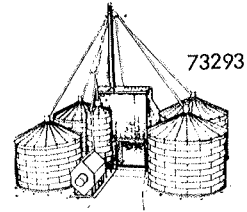


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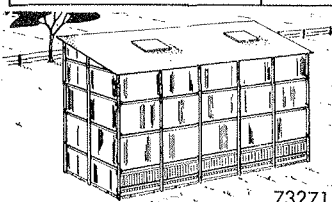
73259

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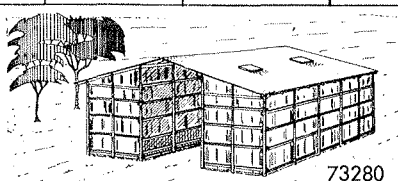


73293

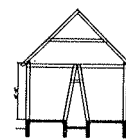
Plan Title	Plan Number	Price	Capacity (Bu)	Size	Construction	Drying System	Comments
Small Grains	73217	\$1.00	20, 45, 170 and 340 Bu.		Frame		4 small bins for filling feed cart or weigh buggy.
	73220	1.00	25,000	48'x48'x10'	Pole	Duct Aeration	12' side wall increases capacity to 28,500/48' length
	73250	1.00	600, 1000, 1200, 1500 and 2000 Bu. bins are detailed in this plan.		Frame	2000 Bu.-Aeration	600 and 1000 Bu. bins are portable
	73256	.50	2,500	16'x30'x 8'	Frame		4 - 8'x10'x10' Bins Drive-thru 10' alley.
	73257	.75	8,000	32'x44'x10'	Frame	Duct Aeration	4 - 16'x16'x10' Bins, 12' alley Cross auger in floor
	73258	1.00	10,000 (Gable)	32'x40'x 8'	Frame	Duct Aeration	
	73259	.75	10,000 (Gothic)	32'x40'x 8'	Arches	Aeration	These plans use either a duct system or a false floor system for drying the grain
	73260	1.00	15,000	40'x48'x10'	Frame	Aeration	
Ear Corn	73236	.50	4,750	28'x28'x12'	Frame	Duct	
	73271	.25	Each of the following plans has a bill of materials for crib widths of 6, 7, 8, 9, or 10 ft Capacity varies with length and width.		Pole		
	73272	.25			Frame		
	73280	.25			Pole		11' wide alley
	73281	.50			Frame		4' wide alley "A" Frame
	73282	.75			Frame		11' wide alley
	73283	.75			Frame		Overhead bins, 11' alley
	73283	.75			Frame		Cup elevator 4 - 26' deep bins and 6 overhead hopper bins.
Grain Elevator	USDA 5532	.75	10,000	30'x31'	2"x4" Cribbing	None	Cup elevator 4 - 26' deep bins and 6 overhead hopper bins.
Grain-Feed Handling Centers	73292	2.00	73294 uses commercial work bins or bins from 73292 or 73293. More details on page 3.			Continuous Flow	Center bldg with equal sheds
	73293	2.00					Center bldg with single slope shed roof from work tower
	73294	2.00					



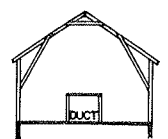
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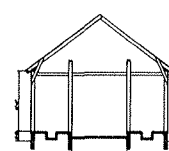
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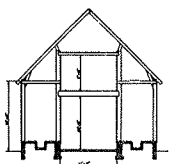
73281



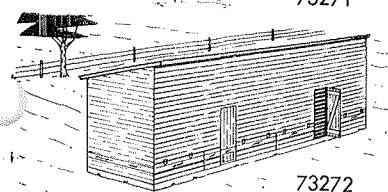
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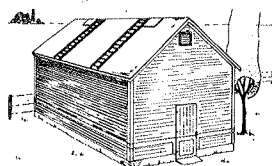
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73283



73272

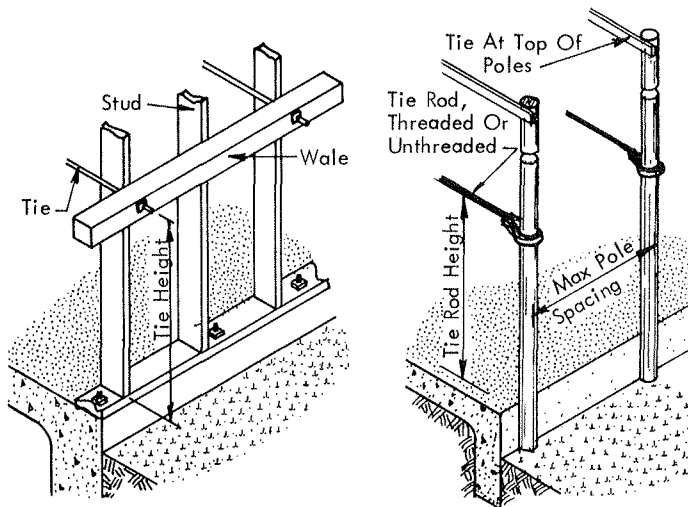


73281

GRAIN STORAGE

Remodeling Corn Crib, AED-12, Free

This digest contains the guidelines which will allow a farmer to decide if he can and should convert his ear corn cribs to handle shelled corn. It has a wide variety of current, specific information on the ways remodeling can be accomplished, and the materials that can be used.



Grain Bin Floors and Foundations, AED-7, Free

This digest is especially for individuals who have or will purchase used government grain bins. It details floor types, use of wall anchors, floor forming, wall sealing, and how to order, buy, and place concrete.

Planning Grain-Feed Handling, MWPS-13, 60 p., \$1.00

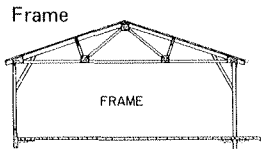
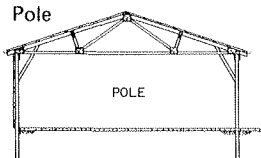
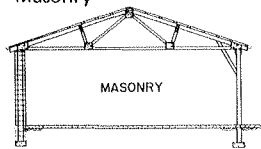
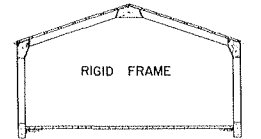
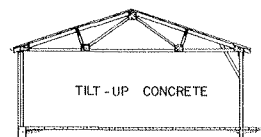
See page 3 for a discussion of the book.

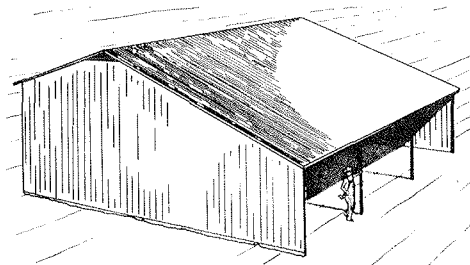
UTILITY BUILDINGS

CLEAR SPAN UTILITY BUILDINGS

These are basic building shells --- open front for cattle sheds, or machinery or hay storage; closed for swine or poultry housing, etc.

Roofs are 4/12 slope. Trusses are 4' on center. Each plant includes a bill of materials.

CONSTRUCTION	SPAN	NUMBER	PRICE
 FRAME	24'	72044	\$.75
	30'	72045	.75
	36'	72046	1.00
	40'	72047	.75
 POLE	24'	72054	.75
	30'	72055	.75
	36'	72056	1.00
	40'	72057	.75
	50'	72058	1.00
 MASONRY	24'	72074	.75
	30'	72075	.75
	40'	72077	.75
 RIGID FRAME	24'	72064	.75
	30'	72065	.75
	40'	72067	.75
 TILT-UP CONCRETE	24'	72084	.75
	30'	72085	.75
	40'	72087	.75



Pole Utility Buildings, MWPS 72050, 50¢

The basic pole frame adapts to different sizes of buildings. Building widths are built in increments of 14' and lengths of 16' increments. A 28' truss is included so one of the poles may be omitted.

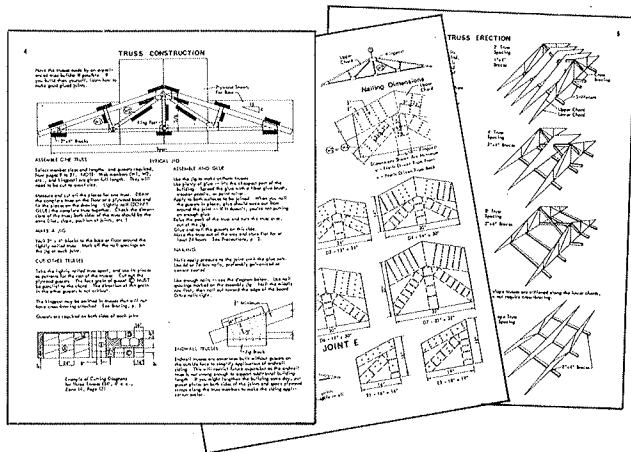
TRUSSES

Designs for Glued Trusses, MWPS-9, \$1.00

This 28 page book contains 150 detailed truss designs for 4:12 one-slope and two-slope trusses. Selection of glue and lumber, construction, bracing and erection procedures are some of the subjects covered.

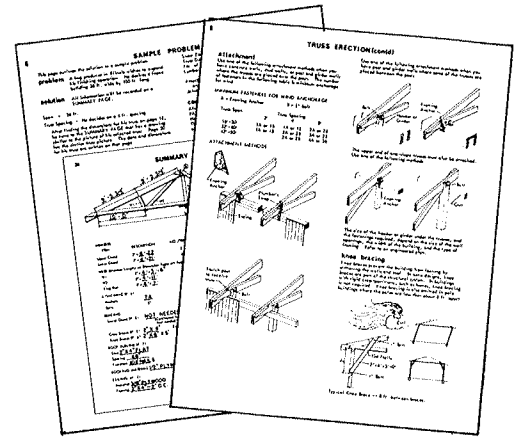
Designs for Nailed Trusses, MWPS-11, \$1.00

This 32-page book contains 150 detailed designs for 4:12 one-slope and two-slope trusses. Selection of nails and lumber, construction, bracing, and erection procedures are some of the subjects covered.



Designs for Split Ring Trusses, MWPS-10, \$1.00

This 36 page book contains 150 detailed designs for 4:12 one-slope and two-slope trusses. Recommendations are given for selection of wood, construction, erection, bracing, use of split rings, and roof and ceiling application.



Truss Design, TR-1, Free

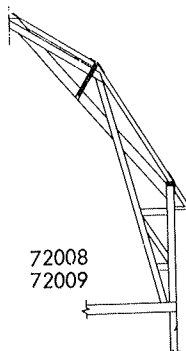
This Technical Resource is designed specifically for use by engineers, and is filled with detailed information on the design elements of a variety of trusses.

Braced Gambrel Roof Rafters for two-story barns

MWPS 72008A,	32' Span,	\$.25
72008B,	34' Span,	.25
72008C,	36' Span,	.25

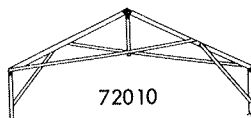
Shawver Roof Trusses, MWPS 72009, 25¢

For barn spans of 32', 34', 36' (spacing 10' to 14').



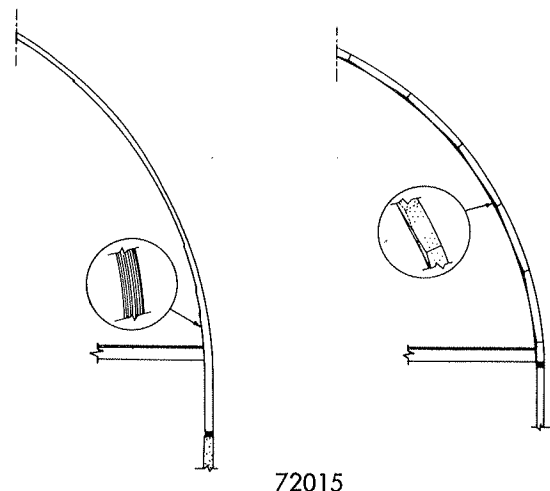
Scissors Trusses, MWPS 72010, 25¢

4' spacings for spans of 24', 26', and 28'. Split ring and bolt.

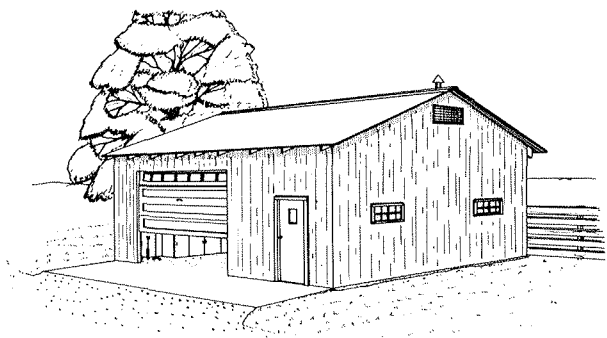


Laminated Arches, MWPS 72015, \$1.00

Bent laminated arches for 34', 36', and 40' buildings. Sawed (segmented) arches for 34' and 36' wide buildings (nailed only); for 36' glued construction see MWPS 72325D.

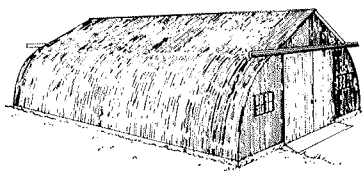


MACHINERY



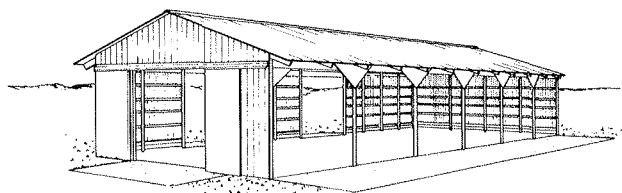
30' x 30' Shop, MWPS 74119, \$1.00

Clear span frame building with pole option. Typical tool layout and lighting needs included.



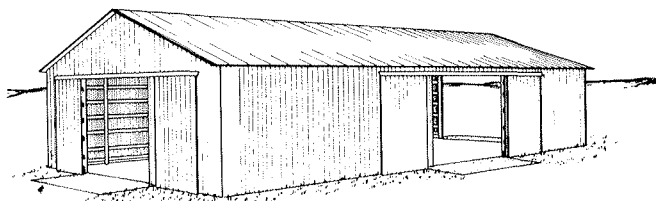
Gothic Roof Machine Shed, MWPS 74139, 75¢

Laminated arches with post free interior. 36' wide



Machine Shed, MWPS 74142, \$1.00

30' side opening. Clear span pole building with 16' pole spacing along front.



Machine Shed, MWPS 74143, \$1.00

40' end opening. Central drive with end doors plus two side doors. Clear span building.

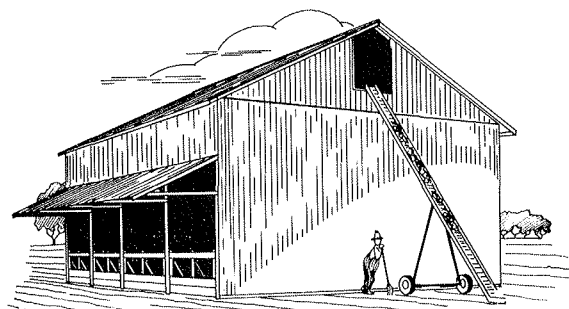
One-Car Garage, MWPS 74101, 25¢

Ample storage space in this 12'x24' garage.

Two-Car Garage, MWPS 74102, 25¢

A roomy garage for two cars and storage space (22'x22').

HAY & SILAGE



73104-73108

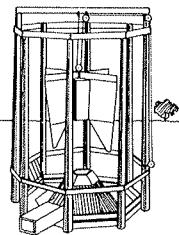
Pole Hay Storage Sheds

Detailed construction drawings with interior pole or trussed roof framing. Units may be in multiples of 12'.

MWPS No.	Span	Tons/Foot	Price
73104	24'	2.0	\$.50
73105	30'	2.5	.50
73106	36'	3.0	.50
73107	40'	3.5	.50
73108	48'	4.0	.50

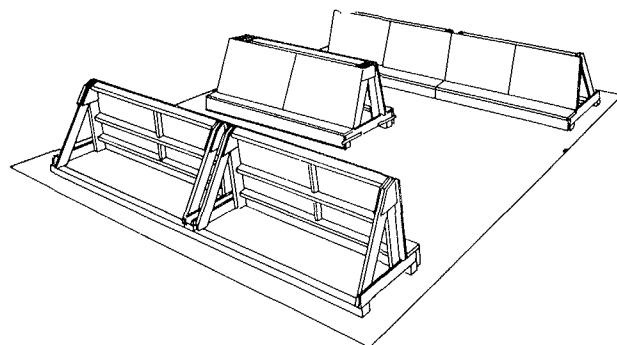
50 Ton Self-Feeding Haykeeper, MWPS 73103, 50¢

22' diameter x 28'-8" high. Used to store, dry, and self-feed chopped hay. Instructions for filling and drying are given along with complete details.



Bunker Silo, MWPS 73301, 25¢

8' Long. "A" frame portable sections for self-feeding or power unloading.



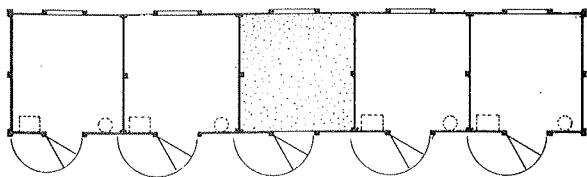
MISCELLANEOUS PLANS

Riding Horse Barn, USDA 5838, 50¢

Two box stalls useful in all climates Feed room and tack room. 22' x 34' frame construction.

Saddle Horse Barn, USDA 5994, 50¢

Four box stalls and a combination tack and feed room, each about twelve feet square. Sheltered area for grooming and other chores.



Two-Horse Trailer, USDA 5943, 50¢

Four-wheel, tandem axle trailer. Corrugated metal siding and plank floor.

Horse Stall Details, USDA 5175, 25¢

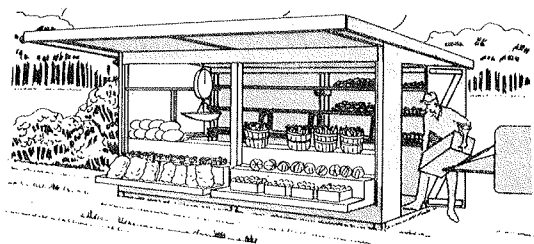
Detail drawing of "face-in" and "face-out" stalls that use feed alleys, and a wall type stall that uses no feed alley. Floor designs included.

Movable Roadside Stand, USDA 5699, 25¢

6' x 12' stand on skids. Fold down counters to display produce.

Roadside Stand, USDA 5983, 50¢

8' x 16' stand to display produce attractively. Shelves are protected by a long roof projection.



Large Roadside Stand, USDA 5193, 25¢

12' x 24' stand with display rack and a gable roof covering the entire stand. Shutters provide protection for display racks.

60,000 CWT Potato Storage, USDA 5979, \$3.00

A single-story wood frame structure with 16,000 sq ft floor area. Concrete floors, heavily insulated walls and ceiling, and flat roofing.

60,000 CWT Potato Warehouse, USDA 5927, \$1.25.

80' x 183' building, frame construction with flat roof. It has 6 bins and a shipping room which is used for drying and washing. Ventilation and construction details are given.

20,000 CWT Potato Storage, USDA 5989, \$2.00

40' x 140' building, arch construction. A 40' x 40' work area at one end is a feature of this layout. Ventilation and construction details.

Plastic Greenhouse, USDA 5946, 25¢

8'-6" wide and length in multiples of three feet. Plastic is fastened over special plywood arches.

Greenhouse, USDA 5189, 25¢

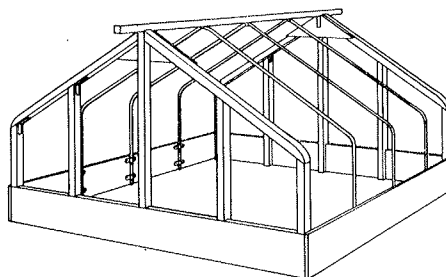
10'-4" x 18'-8". Concrete walls with gable roof. Glass windows in gable end of house.

Greenhouse-Cold Frame, USDA 5941, 50¢

5' x 7'-8". Plastic cover over 2" x 2" framing.

Hotbed and Propagating Frame, USDA 5971, 25¢

6' x 6'. Plastic over pipe and wood framing.

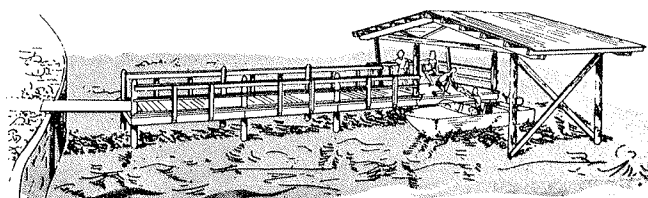


Outdoor Fireplace and Table, USDA 5188, 25¢

3½' x 3' x 3' high brick fireplace with concrete base. 6' long picnic table constructed with 2" and 1 1/8" lumber.

Boat Landing, USDA 5975, 50¢

An all-weather dock with a 50' board walk to a canopied boat house. Will not work where deep freezing occurs.



40 Ton Fertilizer Storage Shed, USDA 5966, 25¢

12' x 16' plus 4' x 8' loading platform at truck-bed height. Pole type construction.

Treating Tank for Wood Preservatives, MWPS 80001, 25¢

1' x 1' x 17' wood and sheet metal tank for cold-soaking lumber used above ground.

Insulated Pump House, MWPS 74001, 25¢

Small wood frame building to house pumps, pressure tank, motor, etc. Roof hinged to provide access.

list of all MWPS PUBLICATIONS

PLANS

25¢ per sheet

Plan
Number Sheets Title

FARMING & UTILITY BUILDING

72008A	1	32' span braced rafter
72008B	1	34' span braced rafter
72008C	1	36' span braced rafter
72009	1	Shawver roof truss
72010	1	Scissors truss
72015	4	Laminated Arches
72044	3	24' clear span, frame
72045	3	30' " " "
72046	4	36' " " "
72047	3	40' " " "
72050	2	Pole type "
72054	3	24' clear span pole
72055	3	30' " " "
72056	4	36' " " "
72057	3	40' " " "
72058	4	50' " " "
72064	3	24' " " rigid frame
72065	3	30' " " "
72067	3	40' " " "
72074	3	24' " " masonry
72075	3	30' " " "
72077	3	40' " " "
72084	3	24' " " tilt-up concrete
72085	3	30' " " "
72087	3	40' " " "

DAIRY HOUSING

72325A	8	1-story flat roof
72325B	8	1-story gable roof
72325C	8	1½-story gambrel roof
72325D	8	2-story sawed gothic roof
72325E	8	2-story bent gothic roof
72341	3	Calf barn
72350	4	Dairy layout (100 free stalls)
72351	5	Confined dairy layout

BEEF HOUSING

72425	4	Confined beef feeding
72426	4	Beef layout inside feeding
72427	4	Beef layout outside feeding
72432	3	Pole beef barn

SWINE HOUSING

72630	4	Portable farrowing houses
72666	1	Single row farrowing house
72671	3	Farrow-to-start, 16 stalls
72672	3	Farrow-to-start, 32 - 4½ x 13½' pen
72673	3	24' open front finishing unit
72673R-1	3	Finishing house
72674	3	Total slotted floor finishing
72675	3	36' confined finishing unit
72677	3	24' farrowing bldg., 16 stalls
72678	4	Starting bldg., 8 pens on slats

POULTRY HOUSING

72716	1	12' x 14' movable brooder
72717	1	12' x 14' shed movable brooder
72743	4	2-story laying house
72746	4	Solar oriented laying house
72748	3	2000 bird pole laying house
72750	2	Summer laying house
72753	4	36' laying house (floor systems)
72754	4	40' cage laying house
72761	4	5000 bird broiler house

HAY STORAGE

73103	2	50-ton haykeeper
73104	2	24' pole hay sheds
73105	2	30' " " "
73106	2	36' " " "
73107	2	40' " " "
73108	2	48' " " "

CROP STORAGE

73217	4	Small feed bins
73220	4	48' grain storage
73236	2	28' ear corn crib
73250	4	Small storage buildings
73256	2	2500 bu. 4-bin granary
73257	3	8000 bu. granary
73258	4	10,000 bu. gable storage
73259	3	10,000 bu. gothic storage
73260	4	15,000 bu. gable storage
73271	1	Single pole crib
73272	1	Single frame crib
73280	1	Double pole crib
73281	2	Double crib 4' alley
73282	3	Double crib 11' alley
73283	3	Double crib overhead bin
73292	8	Grain-feed handling center
73293	8	Grain-feed handling center
73294	4	Grain-feed handling center
73301	1	Silo, portable sections

MACHINERY STORAGE

74001	1	Pump house
74101	1	One-car garage
74102	1	Two-car garage
74119	4	30' x 30' shop
74139	3	Gothic roof machine shed
74142	4	Machinery shed, 30' side opening
74143	4	Machinery shed, 40' end opening

MILKING PLANTS

75241	3	4-stall chute type
75242	4	Single row, side opening
75243	3	U-type, side opening
75244	3	Double row, walk through
75245	3	Double row, side opening
75246	4	Herringbone milking plant
75262	3	100-240 gal./day milkhouse
75263	3	50-340 gal./day "
75264	3	260-430 gal./day "

MISC. PLANS

80001	1	Wood preservatives tank
85100	1	Milking plant waste disposal

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