

Anatomy of a **Barn**

Your Guide to Pacific Northwest Types, Styles & Character Defining Features

+ Silos

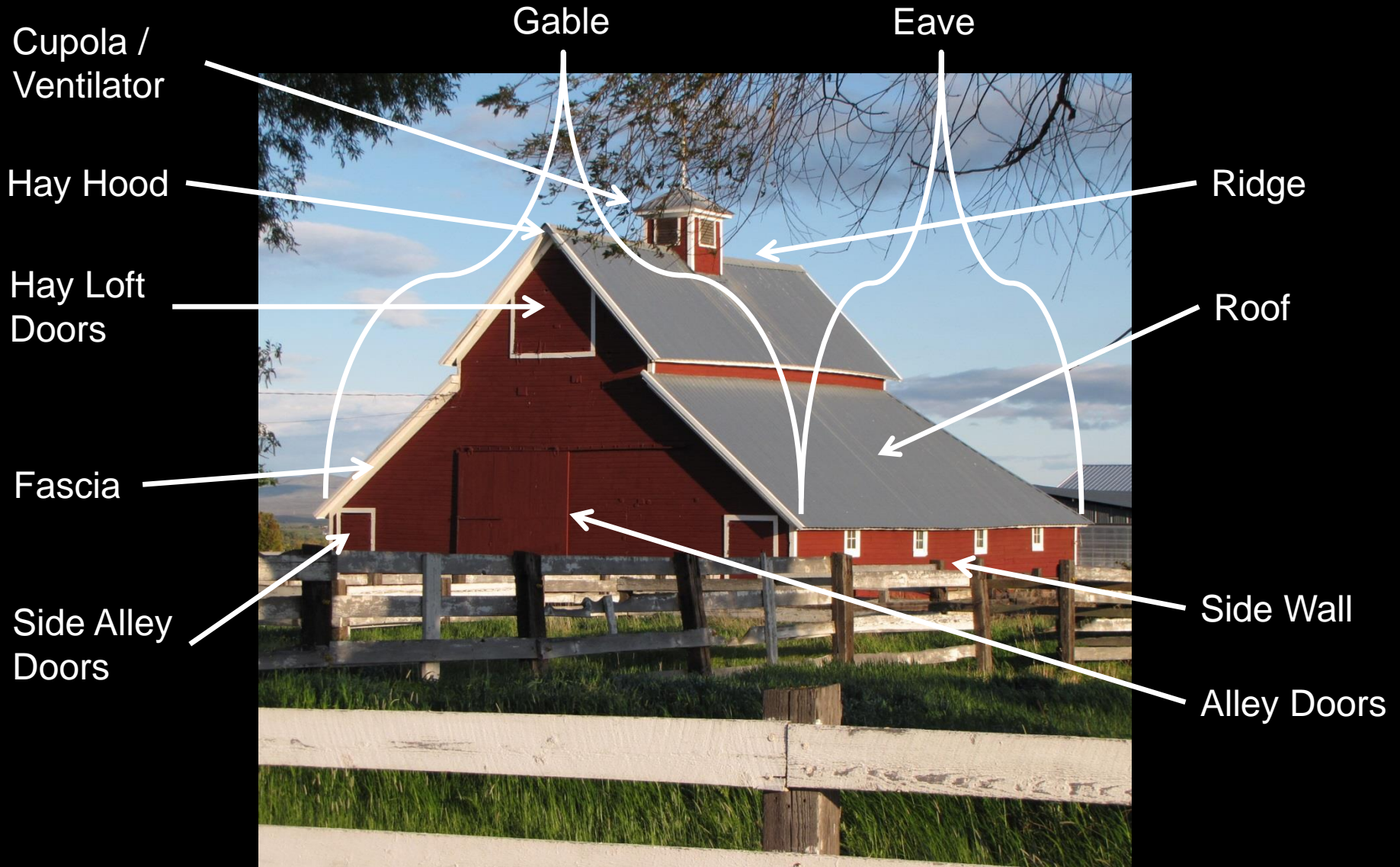


Michael Houser,
*Washington State
Architectural Historian*



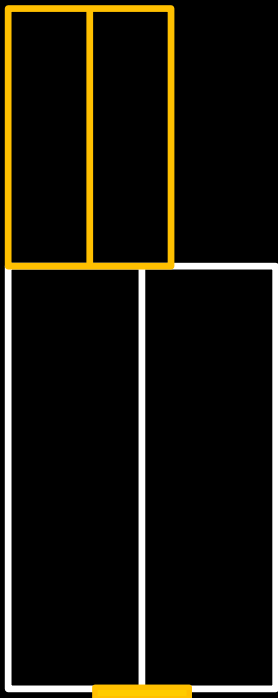
Aug - 2021

Barn Elements

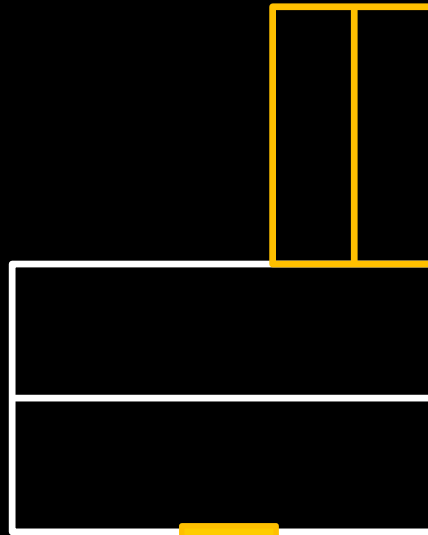


Barn Elements

Wing **vs.** Ell **vs.** Lean-to



Wing



Ell

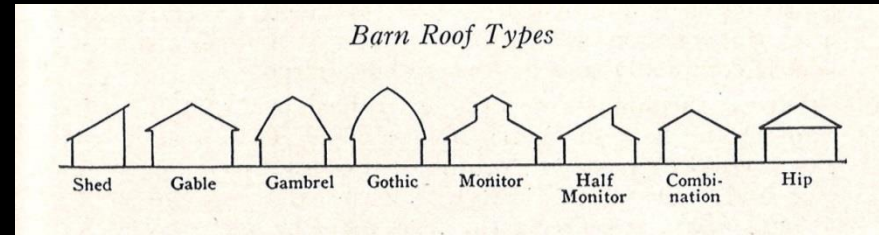


Lean-to

Barn Plan View

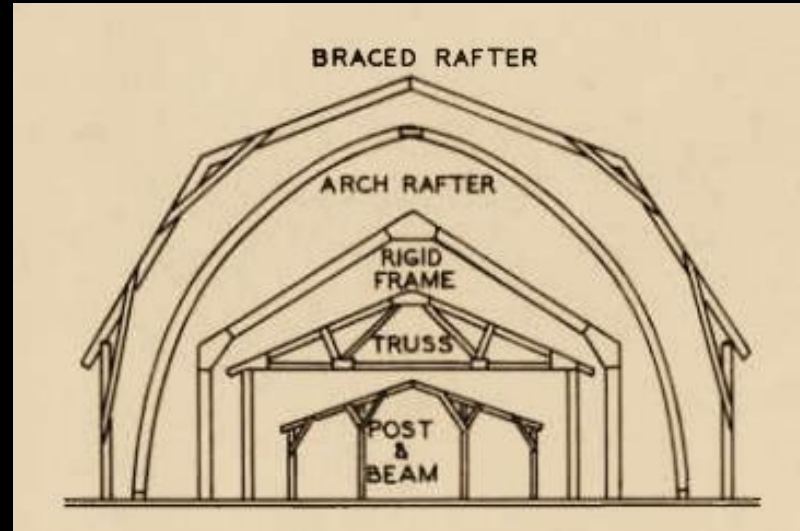
Barn

Forms and Types




Barn classification can be based on:

- Use/Purpose,
- Plan and shape,
- Framing system,
- Roof form ← DAHP method



**HALLOWEEN
MASQUERADE
DANCE**
TOMLINSON'S BARN
3½ Miles West of Plaza on Bonnie Lake-Plaza Road

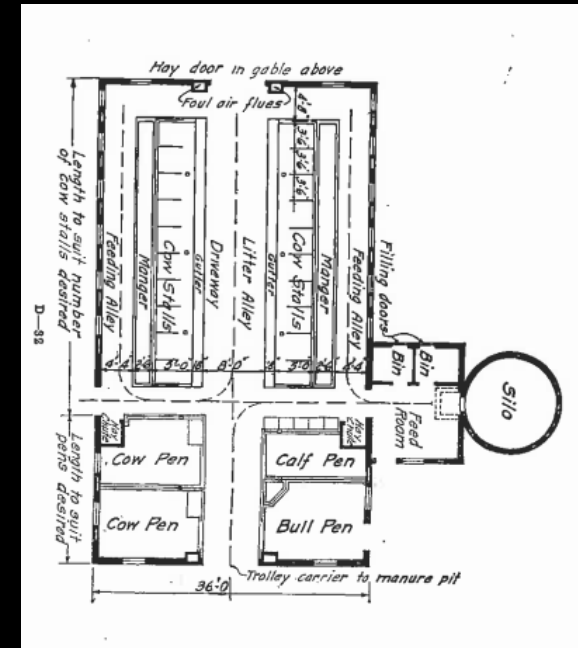
Souvenirs
Prize Waltz
Three Special Prizes



Special Feature
DOT & DASH
High Class Entertainers

Best Character Costume—Gentleman
Best Character Costume—Lady
Most Comical Costume

CHET GRIFFITH'S NIGHT HAWK ENTERTAINERS
Lunch Room In Connection



Barn - Forms & Types

Gable (sometimes referred to as an English / Yankee barn)



Shed, OR



Boyd, OR



Champoeg State Park, OR



Hillsboro, OR



Kitsap County, WA

Barn - Forms & Types

Gable (sometimes referred to as an English barn)



Adams County, WA



Adams, OR



Peirce County, WA



Lincoln County, WA



Skagit County, WA



Dayville, OR

Barn - Forms & Types

Salt Box (integrated lean-to)



Dayton, WA



Spokane County, WA



Wallowa Valley, OR



Brownsville, OR



Pierce County, WA

Barn - Forms & Types

Salt Box (integrated lean-to)



Benton County, OR



Finley National Wildlife
Refuge, Benton County, OR



Philomath, OR



Waitsburg, WA



Poulsbo, WA

Barn - Forms & Types

Dutch Barn (roof projecting down to 1st floor)



Stevens County, WA



Dufur, OR



Benton County, OR



Snohomish County, WA



LaPine, OR

Barn - Forms & Types

Dutch Barn (roof projecting down to 1st floor)



Labanon, OR



Colfax, WA



Skagit County, WA



Victor Point, OR

Barn - Forms & Types

Broken Gable / Gable with High Lean-tos



Klamath Falls, OR



Walla Walla, WA



Mount Angel, OR



San Juan County, WA



Hayward, OR

Barn - Forms & Types

Broken Gable / Gable with High Lean-tos



Diamond, OR



Deschutes County, OR



Baker, OR



Walla Walla County, WA

Barn - Forms & Types

Gable-on-Hip



Drake Crossing, OR



Snohomish, WA



Coupeville, WA



Burnt Wood, OR

Barn - Forms & Types

Gable-on-Hip



Walla Walla County, WA



Weston, OR



Dufur, OR



Molalla, OR



San Juan County, WA

Barn - Forms & Types

English Gambrel



Thurston County, WA



Ellensburg, WA



Enterprise, OR



Donald, OR



Lynden, WA

Barn - Forms & Types

English Gambrel



Tangent, OR



Columbia County, WA



Near
Crater
Lake, OR



Lincoln County, WA

Barn - Forms & Types

Dutch Gambrel (note flare at eave line)



Fairfield, WA



Elgin, OR



Grays Harbor, WA



Scappose, OR



Willamette Valley, OR



Salem, OR

Barn - Forms & Types

Dutch Gambrel (note flare at eave line)



Woodburn, OR



Pendleton, OR



Pend Oreille County, WA



Troutdale, OR



Island County, WA

Barn - Forms & Types

Gambrel w/Lean - To



Pierce County, WA



Mount Vernon, WA



Elgin, OR



Yakima County, WA

Deer Park, WA

Barn - Forms & Types

Gambrel w/Lean - To



Eugene, OR



Scholls, OR



Snohomish County, WA



Sheridan, OR

Barn - Forms & Types

Hip



Coupeville, WA



Condon, OR



Moxee, WA



Vancouver, WA

Barn - Forms & Types

Gothic (pointed arch roof truss)



Keizer, OR



Lacey, WA



Vancouver, WA



Willamette Valley, OR



Wilbur, WA

Barn - Forms & Types

Gothic (pointed arch roof truss)



Stayton, OR



Colfax, WA



Uniontown, WA

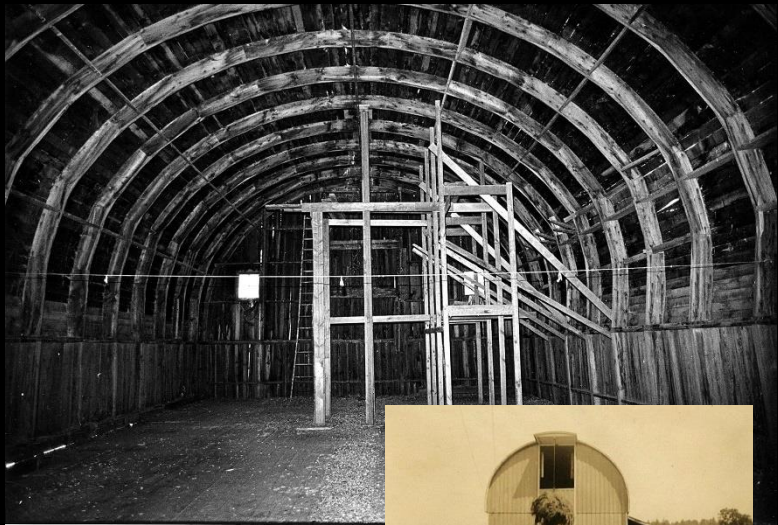


Weston, OR

Barn - Forms & Types

Bow / Rainbow Truss

(note completely arched trusses)



King County, WA



Pullman, WA



Ridgefield, WA



Satsop, WA



Sedro Wooley, WA



Barn - Forms & Types

Western Barn/ Monitor Barn / Basilican



Joseph, OR



Wasco, OR



Pouso, WA



Yakima County, WA



Skagit County, WA

Barn - Forms & Types

Western Barn/ Monitor Barn / Basilican



Stanwood, WA



Joseph, OR



Linn County, OR



Thurston County, WA

Barn - Forms & Types

Conical / Round / Centric Barns



Klickitat County, WA



Sisters, OR



Lostine, OR



Medical
Lake,
WA



Joseph, OR



Diamond, OR



St. Johns, WA

Barn - Forms & Types

Centric / Round / Conical Barns



Lakeview, OR



Hillsboro, OR



Pullman, WA



Grandview, WA



Blachly, OR



Lookingglass, OR

Barn Paint

HOMEGUARD SUPER QUALITY BARN PAINT

This brilliant red, high gloss, top grade paint will protect your property for years. It is economical because it wears so long. Barn paint must provide maximum protection at minimum cost. Made from the finest ingredients available . . . assures great covering power and extreme durability. Each of its fine, balanced characteristics prove this to be, "a barn paint of real quality."

HOMEGUARD SUPER QUALITY

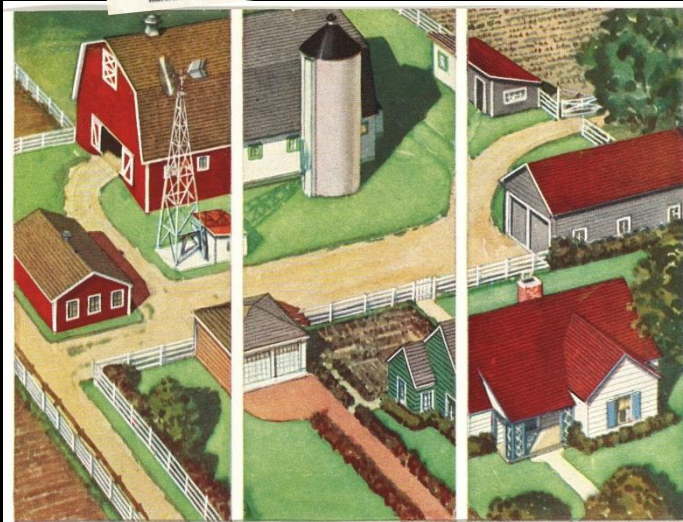
PAINT FINISHES FOR EVERY SURFACE




- INTERIOR GLOSS ENAMEL
- SEMI-GLOSS FINISH
- HOUSEHOLD ENAMEL
- DURA-TONE
- COLOR VARNISH
- AUTO ENAMEL
- EXTERIOR TRIM
- PORCH & FLOOR ENAMEL
- SHINGLE STAIN
- IMPLEMENT ENAMEL
- BARN PAINT

GAMBLE STORES
MINNEAPOLIS

WESTERN STORES
LOS ANGELES



LIFE IS COLORFUL DOWN ON THE FARM

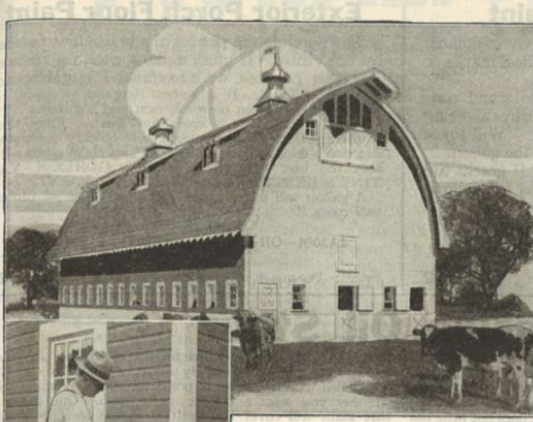
Red, for the barn and sheds, stands out in colorful contrast to the surrounding country. Natural shingle roof and White trim. Garage, Colonial Yellow, Fence, White. Windmill, Aluminum paint.

Shades of green with white and gray make up this attractive scene! Verd Green house with White trim. White barn has Silver Gray shingles and Dark Green trim. Garage and fence, White.

For your White house consider Light Blue trim, a Venetian Red roof, for an attractive color scheme. French Gray sheds have Venetian Red roofs. Fence is White. Colors blend together nicely!



Barn Paint



Barn Paint

Use Gordon-Van Tine "Quality" barn paint and be assured of success with your painting.

Farmers judge each other by their barns. Keep your barn well painted. Everyone sees it and it's the one best evidence of thrift and "getting on."

Our "Quality" brand barn paint is good and we know it. We don't sell anything but good paint. It is equally good for shingles or metal roofs, fences, bridges, grain elevators and silos. It will lengthen the life of shingles and metal roofing. It is a wood preservative and will add years to the life of your building.

You may use this paint with perfect confidence, knowing that we will stand back of every can or barrel. Only the best ingredients are used. It is ground to an unusual fineness and thoroughly mixed and remixed by the most up-to-date machinery.

One gallon of Quality barn paint can be depended upon to cover about 250 square feet of surface, two full coats. Measure for it by the "square foot" method. You will never regret having given it a trial. Colors (See Page 65).

4A2001—Light Gray. 4A2002—Venetian Red. 4A2003—Mineral Red.

PRICES PER GALLON

25 and 50 Gallon Barrels	Reds \$1.33 Gray 1.60	5 Gallon Kits	Reds \$1.42 Gray 1.70	1 Gallon Cans	Reds \$1.55 Gray 1.80
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Gordon-Van Tine
Co. Catalogue –
c.1924

Jim Brown's
Bargain Book –
1936

BARN PAINT A most durable and handsome paint for barns and outbuildings. Prices of lead and zinc make gray cost more than reds. **See index on opposite page**



4A2001 Light Gray



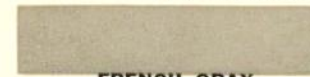
4A2002 Venetian Red



4A2003 Mineral Red

BARN PAINT

For Prices and Description See Page 862



FRENCH GRAY



RED



YELLOW



MAROON

866 K27 MN

SEARS, ROEBUCK AND CO.

Sears & Roebuck Paint – 1932



Jim Brown BARN PAINTS

Quality Barn Paints at Money-Saving Prices

WEARBEST BARN PAINT As Low As \$1.00 Per Gal.

SUPER-GRADE BARN PAINT As Low As \$1.43 Per Gal.

WEARBEST BARN PAINT

Real Paint But Low Priced

For Use On Expensive Barns

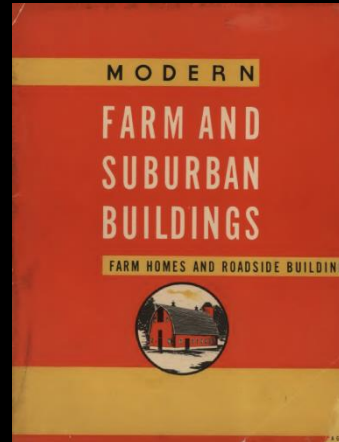
NEW WHITE CREOSOTE BARN PAINT

BR BROWN FENCE & WIRE CO., CLEVELAND, OHIO—MEMPHIS, TENN. Address Nearest Office



Barn Plans

- Farmer
- Itinerant Builder
- Architect
- Plan Service
- Extension Office
- Lumber Yard
- Factory Pre /Ready-Cut

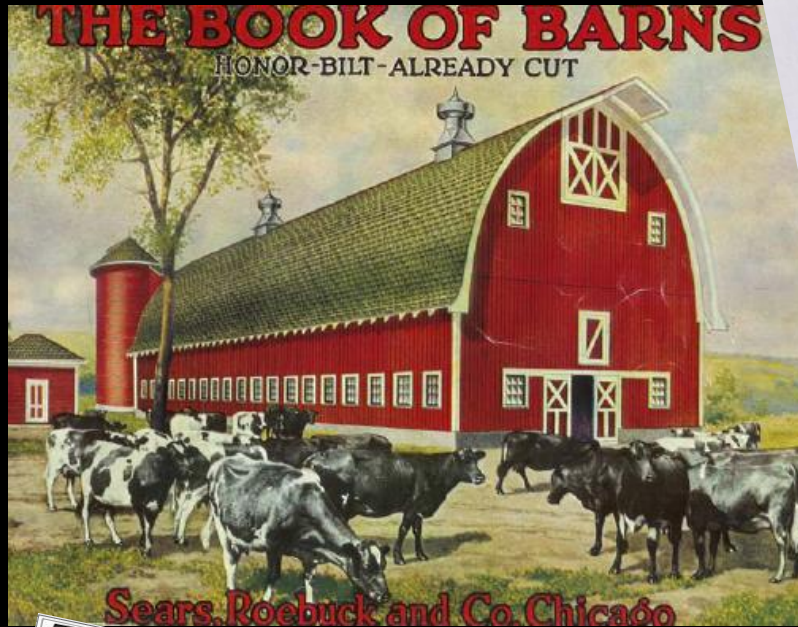


BLUE PRINTS
AND
COMPLETE SPECIFICATIONS
SHOULD BE USED WHEN BUILDING

Because you will know in advance how the building will look.
Because you will know in advance what the building will cost.
Because you will save money by saving the contractor's time.
Because we can furnish these plans and specifications at such a low price that you cannot afford to do without them.

Come to Our Office and Get Our Special Blue-Print Proposition

Barn Plans Ready Cut



Sears & Roebuck - 1919

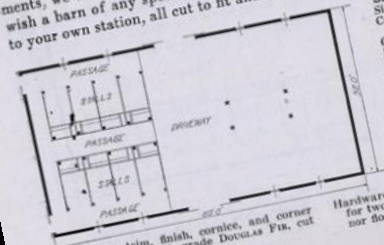
Fenner Manufacturing Company
THE PIONEER READY-CUT HOUSE COMPANY OF THE WEST



Fenner Barn No. 422

BARN No. 422, the standard size of which is 36x60, is a good sized barn for general use. The strong, gambrel roof adds many cubic feet of space to the already large loft, and makes an excellent outside appearance. The driveway goes clear through the barn, in the center. To the left of this driveway are stalls and accommodations for live stock, while the space to the right may be used for storing wagons and implements, or may be used for grain and feed. The barn in the picture is equipped with a silo, which, of course, we do not furnish.

It is our policy to show in this catalog only those barns which are of accepted and standard design that they are recognized as the leaders of where. Should the interior arrangement need changing to meet your requirements, we can change it, not only in this, but in any of our barns. Or, wish a barn of any special design, it will pay you to get our prices, and to your own station, all cut to fit and ready to put together easily and

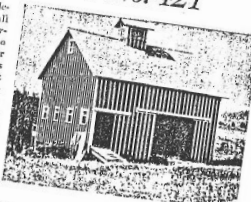


SPECIFICATION
Size, 36'x60'.
Celling heights, first tier, 14'.
Interior walls, 14'.
Center girders and sills, 6x8.
Posts, 6x6 and 4x4.
First floor joists, under stalls, 2x8, 16" O. C.
Loft joists, 2x12, 16" O. C.
Studding, 2x4, 24" O. C.
Rafters, 2x4, 24" O. C.
Sheathing for roof, shingles.
Roof, Extra * A * red cedar shingles.
Floors, stalls, 2x12 plank, and loft, 1x4 flooring.
Doors and windows, 1x12 with battens.
Hardware, nails, hinges, locks, and paint of choice for two coats on exterior, not including roof for doors.

All lumber, trim, finish, cornice, and corner boards are of high grade DOUGLAS FIR, cut in our mills.

Manufacturers of Fenner Homes
FACTORY CUT BUILDINGS OF ALL KINDS

Fenner Barn No. 421



BARN No. 421 is designed for a small farm or for a person who wishes to keep a number of horses or cattle. It is a standard design that has met with general approval and really allows a great many square feet of highly usable room for the same price. Such a good sturdy barn as this greatly enhances the looks as well as the value of any place.

There are five stalls with a light, well ventilated passage-way in the rear, fitted in a convenient location. Note also the tool room. The left tier of loft is large, and is in no proportion to the size of the barn as it through it. The mission is to ventilate and carry off all odors, which it does very effectively.

SPECIFICATIONS

Size, 28'x36'.
Center girders and sills, 6x8.
Posts, 6x6 and 4x4.
First floor joists under stalls, 2x8, 16" O. C.
Loft joists, 2x12, 16" O. C.
Rafters, 2x4, 24" O. C.
Sheathing for roof, shingles.
Roof, Extra * A * red cedar shingles.
Floors, stalls, 2x12 plank, and loft, 1x4 flooring.
Doors and windows, 1x12 with battens.
Hardware, nails, hinges, locks, and paint of choice for two coats on exterior, not including roof for doors.



Save \$200.00 ON YOUR BARN \$500.00
Cash or Easy Payments
"Save 20% Already Cut Farm Buildings"

Build it Yourself!

A Practical Farm Barn, Costing \$1160

PLAN No. 202
\$761.00
Plans for this Barn, \$12.00

Fenner Manufacturing Co.,
Portland, OR - 1921

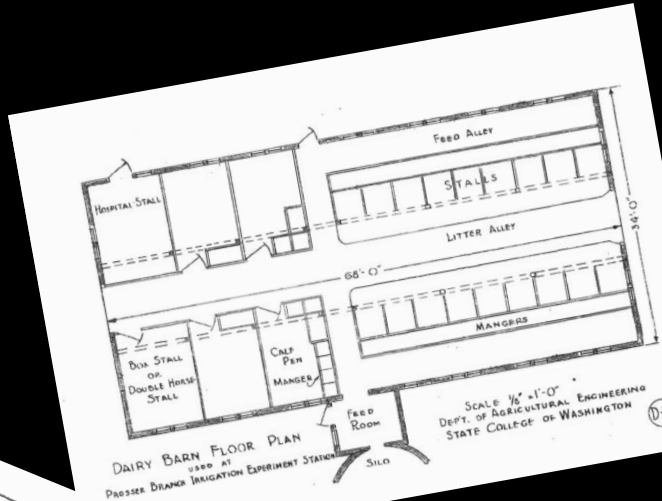


FENNER PLAN BOOK
OF FACTORY CUT HOMES
PORTLAND, OREGON



Gordon Van Tine- 1915

Barn Plans Extension Service



WSU Extension - 1934

extension bulletin no. 483
STATE LIBRARY
OCT 7 1960
OLYMPIA WASH.

PLANNING YOUR DAIRY BUILDINGS

october - 1953

farm structures series

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extension service—Institute of agricultural sciences
state college of washington—pullman, washington

STATE AGRICULTURAL EXPERIMENT STATION
Pullman, Washington, September 1, 1915

POPULAR BULLETIN No. 95

The Dairy Barn and Milk House, How to Construct Them

By
R. E. HUNDERTMARK
Instructor in Dairy Production, State College
of Washington
and
A. B. NYSTROM
Dairy Husbandman of the Experiment Station

Planning Farm Buildings

Planning Farm Buildings

A farm building purchase is a major project that is not often repeated. Engineer changes in construction methods, building designs, and layout arrangements, plus the availability of new building materials make it advisable to review current literature prior to selecting a specific structure. This article will help the buyer obtain a more functional and practical building. Scores of plans and additional planning information are listed. These are available (costs range from \$1.00 to \$10 per item) from the Western Regional Agricultural Engineering Service (WRAES), Oregon State University, Corvallis, OR 97331 (phone 754-4021).

Types of Farm Buildings

When planning a specific building, consider the various types of construction (shown below). The various types of farm buildings have different names and if improper construction is referred to these with proper terminology.

Buildings often are used in many ways to give their uses up to 40 feet wide. Before an owner is interested in a building, he should consider the following:

- 1. How many, what kind, or public buildings provide high clear spans up to 40 feet wide. "Clear" is a building's free span.
- 2. Right frame buildings have the roof and frame supported on a single wall. Walls and roof building have two or three walls.
- 3. Some buildings can be used with pole frame, post frame, and other kinds of walls. These walls will be built high, making an open shed structure for the building.
- 4. Post and beam and support is simple to build. Clear spans are limited to about 20 feet between ends of posts.

Prepared by Bruce W. Johnson and Hugh L. Hansen, Extension Agricultural Engineer, and Martin L. Haddock, Agricultural Engineer, Oregon State University.

June 1951

Extension Circular 2026

EXTENSION SERVICE

WSU Extension - 1953

WSU Extension - 1915

OSU Extension - 1981

Smith-Lever Act of 1914

Barn Plans Lumber Yard / Plan Service



Weyerhaeuser -
1946

Professionally Planned Farm Buildings

WITH COMPLETE BLUEPRINTS AND MATERIAL LISTS

Builders who are active in farm construction report that they are receiving valuable assistance from the Weyerhaeuser 4-Square Farm Building Service. It enables them to erect professionally planned farm buildings that give greater satisfaction to farmers, while the blueprints and accurate material lists make for easier, faster construction.

The 4-Square Farm Building Service was developed through the cooperation of experts in many fields of agriculture... animal husbandry specialists, crop men, farm structure engineers, home economists and experienced farmers and farm managers.

Out of their knowledge and experience good buildings must meet to be classified as truly modern and efficient structures. First, they must meet functional or use requirements in order to serve an ideal farm tool. Second, they must meet standards of durable, economical construction.

The 204 designs in the Weyerhaeuser 4-Square Farm Building Service meet the exacting requirements for buildings of maximum use value, minimal cost and enduring service. They meet the needs of modern farming... which is under increasingly greater pressure to reduce production costs, increase yield and improve quality.

The 4-Square Farm Building Service, with its access to service farm prospects, for your use in service farm prospects, we will gladly send, on your request, the 64 page book titled, "Modern Home and Buildings For The Farm" which illustrates and describes many of the Homes and Service Buildings. We will also send you the name of the Weyerhaeuser 4-Square Lumber Dealer in your community who has available complete blueprints and material lists for all the buildings in the Service. Write our Builders' Division.

Weyerhaeuser Sales Company
ST. PAUL 1, MINNESOTA
MARCH, 1935 - PRACTICAL BUILDING, CHICAGO 2 113

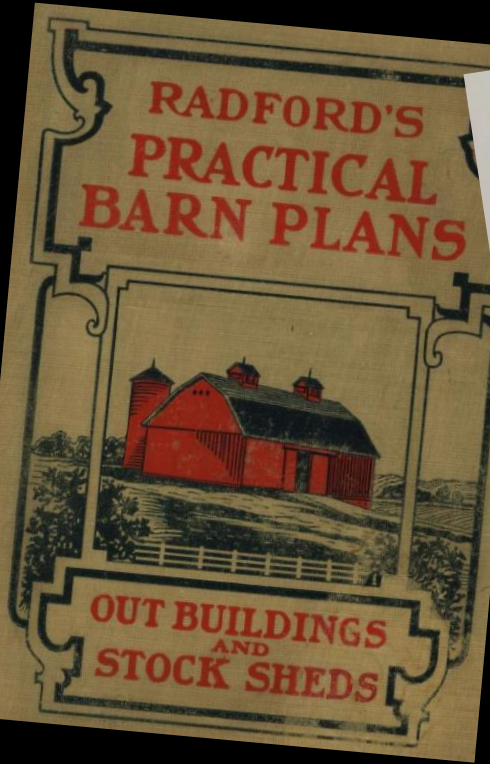
ASTORIA, OREGON

Mrs. Adelaide Lygman

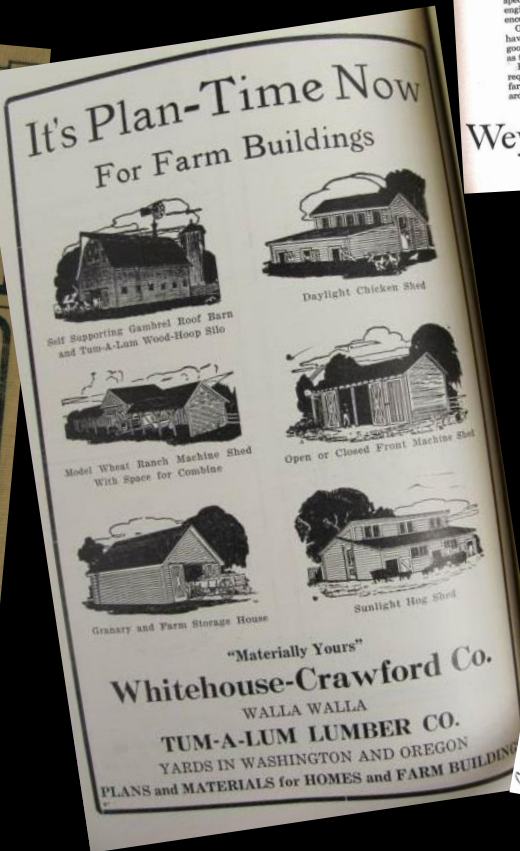
ASTORIA LUMBER CO.

PREPARED BY THE LUMBER, SHEDS AND FURNITURE DEPT. OF THIS OFFICE

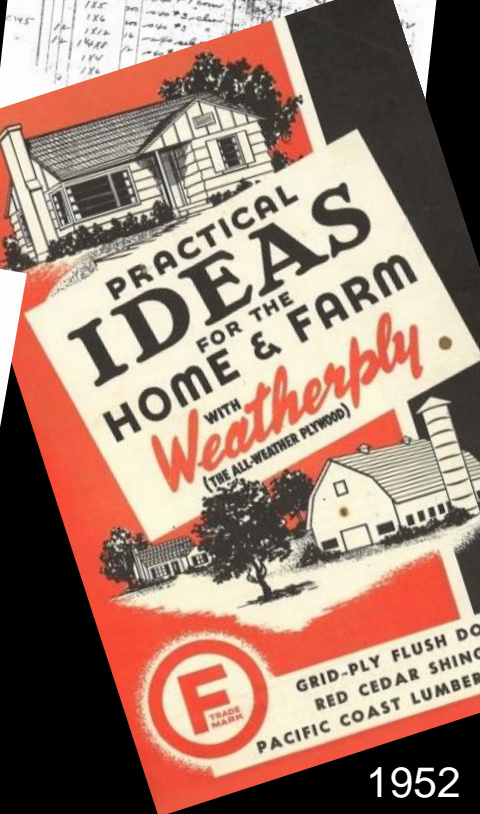
TERMS CASH	DATE	ITEMS	QUANTITY	PRICE	TOTAL
	5/1	4 X 10	100	1.00	100.00
	5/1	2 X 10	100	.50	50.00
	5/1	2 X 12	100	.60	60.00
	5/1	2 X 14	100	.70	70.00
	5/1	2 X 16	100	.80	80.00
	5/1	2 X 18	100	.90	90.00
	5/1	2 X 20	100	1.00	100.00
	5/1	2 X 22	100	1.10	110.00
	5/1	2 X 24	100	1.20	120.00
	5/1	2 X 26	100	1.30	130.00
	5/1	2 X 28	100	1.40	140.00
	5/1	2 X 30	100	1.50	150.00
	5/1	2 X 32	100	1.60	160.00
	5/1	2 X 34	100	1.70	170.00
	5/1	2 X 36	100	1.80	180.00
	5/1	2 X 38	100	1.90	190.00
	5/1	2 X 40	100	2.00	200.00
	5/1	2 X 42	100	2.10	210.00
	5/1	2 X 44	100	2.20	220.00
	5/1	2 X 46	100	2.30	230.00
	5/1	2 X 48	100	2.40	240.00
	5/1	2 X 50	100	2.50	250.00
	5/1	2 X 52	100	2.60	260.00
	5/1	2 X 54	100	2.70	270.00
	5/1	2 X 56	100	2.80	280.00
	5/1	2 X 58	100	2.90	290.00
	5/1	2 X 60	100	3.00	300.00
	5/1	2 X 62	100	3.10	310.00
	5/1	2 X 64	100	3.20	320.00
	5/1	2 X 66	100	3.30	330.00
	5/1	2 X 68	100	3.40	340.00
	5/1	2 X 70	100	3.50	350.00
	5/1	2 X 72	100	3.60	360.00
	5/1	2 X 74	100	3.70	370.00
	5/1	2 X 76	100	3.80	380.00
	5/1	2 X 78	100	3.90	390.00
	5/1	2 X 80	100	4.00	400.00
	5/1	2 X 82	100	4.10	410.00
	5/1	2 X 84	100	4.20	420.00
	5/1	2 X 86	100	4.30	430.00
	5/1	2 X 88	100	4.40	440.00
	5/1	2 X 90	100	4.50	450.00
	5/1	2 X 92	100	4.60	460.00
	5/1	2 X 94	100	4.70	470.00
	5/1	2 X 96	100	4.80	480.00
	5/1	2 X 98	100	4.90	490.00
	5/1	2 X 100	100	5.00	500.00



Radford's Practical
Barns Plans - 1907

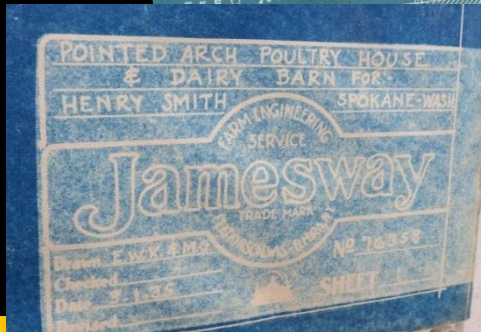
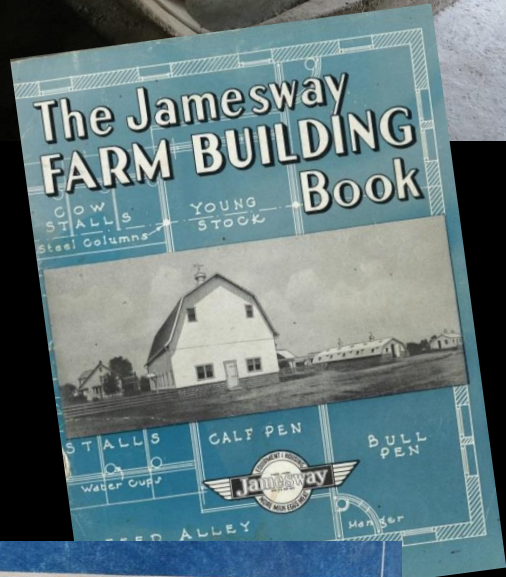
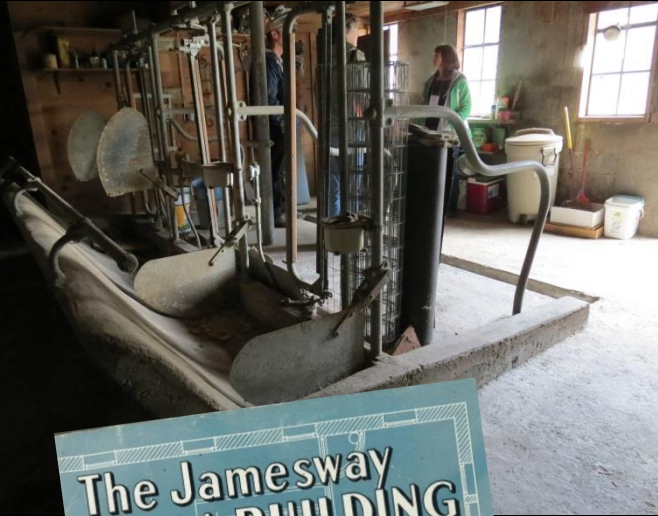


1881



1952

Jamesway Co.



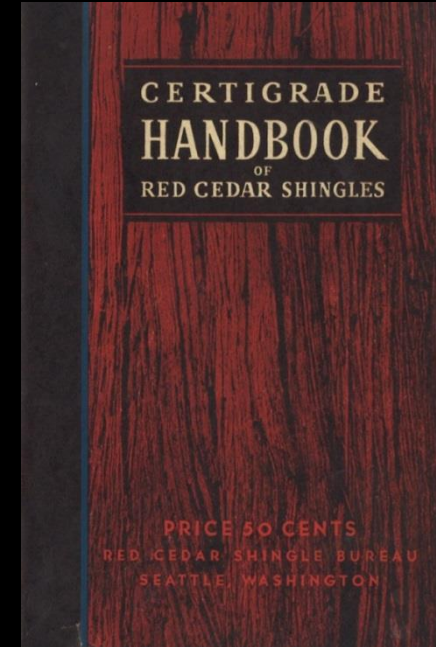
Barn Roofing

- Wood Shake / Shingle
- Standing Seam
- Corrugated Metal
- Asphalt



Barn

Roofing – Wood Shingle / Shake



Barn Roofing – Standing Seam

EXTRA HEAVY Two and Three-V Crimp Steel Roofing—U. S. STANDARD WEIGHTS

V Crimp Roofing Is in Many Respects the Best

of all the various styles of metal roofing. It may be laid over shingles, shingles or can be nailed direct to the rafters, which should be spaced 24 inches from center to center, and can be used on any roof having a pitch of more than 12 to 12. The ends of the sheets should be spaced 1/4 inch or more apart so as to be fast together with lock joints, as desired. We recommend that you use the best nails on the end of the sheets instead of lock joints, as it will positively prevent the rain, snow or wind from blowing in under the sheet.

It is Easily Laid and has many advantages over other kinds of steel roofing. It is especially adapted for factories, barns, sheds or temporary buildings, and, as it requires no soldering or forming, or hammering of seams or joints, anyone who has ordinary mechanical ability can put it on. It has a most surprising and is the most economical and the lowest priced style of steel roofing made.

We illustrate at the Left a sheet of Two-V Crimp Steel Roofing which has a covering width of 24 inches after lapsing one crimp over the other. This roofing comes in different lengths, ranging from 2 to 10 feet, inclusive. In laying V Crimp Roofing the ends of the sheets should be lapped not less than 2 inches when used on roofs having a fall of not less than 2 inches to the foot. The Two-V Crimp sheet appears to be the more popular because it is laid directly on the rafters. The word V Crimp should be nailed on the top surface of the rafters where the work joins or laps. The rafters wherever they meet should be fastened under the lap and nailed down to the crossbeams between the rafters. We illustrate above the manner in which V Crimp Roofing should be lapped and nailed to the rafters.

Two-V Crimp Roofing is Shipped Direct From the Best Mills in EASTERN OHIO.

PRICES ON TWO-V CRIMP STEEL ROOFING.
State Number of Sheets in ALL Orders.

Catalog No.	24 IN. SHEETS					30 IN. SHEETS					Weight per Sheet	
	Per Sheet	Per 100	Per 500	Per 1000	Per 5000	Per Sheet	Per 100	Per 500	Per 1000	Per 5000		
48P3077	\$0.78	\$0.94	\$1.10	\$1.26	\$1.41	\$1.56	\$7.73	68 lbs.				
48P3078		1.17	1.41	1.65	1.88	2.11	2.34	11.89	85 lbs.			
48P3079		.92	1.10	1.29	1.48	1.66	1.84	9.20	83 lbs.			
48P3080		1.32	1.59	1.86	2.12	2.38	2.64	13.12	98 lbs.			

Catalog No.	24 IN. SHEETS					30 IN. SHEETS					Weight per Sheet
	Per Sheet	Per 100	Per 500	Per 1000	Per 5000	Per Sheet	Per 100	Per 500	Per 1000	Per 5000	
48P3086	\$0.79	\$0.95	\$1.11	\$1.27	\$1.43	\$1.58	\$7.85	72 lbs.			
48P3087		1.18	1.42	1.66	1.90	2.13	2.36	11.74	86 lbs.		
48P3088		.94	1.13	1.32	1.51	1.70	1.88	9.33	85 lbs.		
48P3089		1.33	1.60	1.87	2.14	2.40	2.66	13.30	106 lbs.		

The above prices are for roofing only and do not include strips or nails. Prices on nails and strips shown on nails and strips shown above.

It requires 50 final feet of wood V strips and 1 pound barbed roofing nails for each square of the Two-V Crimp Roofing.

QUANTITY GUARANTEE

SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS. 25

SEE PAGE 5 FOR DETAILS

56¢ Per Sheet Add Up

53¢ Per Sheet Add Up

40¢ Per Sheet Add Up

MANY WAREHOUSE SHIPPING POINTS

Sears warehouse shipping service is unsurpassed. One of our many shipping points is near you, with your freight. Only another reason why you should buy all your roofing needs from Sears.

View at left shows exclusive new roofing style known as our exclusive new Three-V Crimp Roofing. This roofing positively prevents rain, snow or wind from getting in under the roof of building.

CRIMPED ROOFING

- Made of exactly the same high quality materials as ALL-WEATHER Corrugated Roofing on opposite page.
- Choice of 2-V or 3-V or 3-V½ Lockroof Types.
- All sheets 24 inches wide, and in lengths shown below.

ALL-WEATHER V-Crimp Roofing over Building gives barns and other buildings a substantial appearance and an appearance of permanency. In addition to lowest known price for material of this character, Sears give you First Quality—Full Gauge—Full Weight and Great Galvanizing. Strongly, securely and saving unparpassed by any other material. Properly painted, will last indefinitely. All sheets actually cover 24 in. in width allowing for crimp or overlap. Allow 6 in. for end lap when used on roofing. 2 in. for end lap siding. All prices are for 100 sheets, no freight, unless on opposite page.

Sears Patented Lock-Proof Steel Roofing

See detailed view above. The most important feature on the market. Water comes out on the under side of roofing by causing a circulation of air through the loose fit in channel. Offered at price usually paid for any ordinary roofing. Lockproof Corrugated Roofing is shipped ahead from same plant as our crimped roofing on opposite page. See prices at this table. No freight, unless on opposite page.

Sears Patented Lock-Proof Steel Roofing

Catalog	Description	LENGTH OF SHEETS
24 LM 3082	24 in. wide	10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100
24 LM 3083	30 in. wide	10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100

Three-V-Crimp Steel Roofing

Catalog	Description	LENGTH OF SHEETS
24 LM 3084	24 in. wide	10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100
24 LM 3085	30 in. wide	10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100

Two-V-Crimp Steel Roofing

Catalog	Description	LENGTH OF SHEETS
24 LM 3086	24 in. wide	10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100
24 LM 3087	30 in. wide	10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100

PRICES ON THREE-V CRIMP STEEL ROOFING.
State Number of Sheets in ALL Orders.

The above prices are for roofing only and do not include strips or nails. Prices on nails and strips shown on nails and strips shown above.

It requires 100 final feet of wood V strips and 2 pounds of barbed roofing nails for each square of the Three-V Crimp Roofing.

IMPORTANT—V-Crimp Roofing is made as long as 24 inches wide and has a covering width of 30 inches after lapsing one crimp over the other. This roofing comes in different lengths, ranging from 2 to 10 feet, inclusive. In laying V-Crimp Roofing the ends of the sheets should be lapped not less than 2 inches when used on roofs having a fall of not less than 2 inches to the foot. The Three-V Crimp sheet appears to be the more popular because it is laid directly on the rafters. The word V-Crimp should be nailed on the top surface of the rafters where the work joins or laps. The rafters wherever they meet should be fastened under the lap and nailed down to the crossbeams between the rafters. We illustrate above the manner in which V-Crimp Roofing should be lapped and nailed to the rafters.

QUANTITY GUARANTEE

SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS. 25

Sears & Roebuck Roofing Catalogue - 1939

Sears & Roebuck Roofing Catalogue - 1908

Jim Brown METAL ROOFING Corrugated

Direct from Factory to You

Advantages of Metal Roofing

See to Preserve Investment

Galvanized Corrugated Roofing

Length	Weight	Price per 100
10	85	1.10
12	102	1.32
14	119	1.54
16	136	1.76
18	153	1.98
20	170	2.20
22	187	2.42
24	204	2.64
26	221	2.86
28	238	3.08
30	255	3.30
32	272	3.52
34	289	3.74
36	306	3.96
38	323	4.18
40	340	4.40
42	357	4.62
44	374	4.84
46	391	5.06
48	408	5.28
50	425	5.50
52	442	5.72
54	459	5.94
56	476	6.16
58	493	6.38
60	510	6.60
62	527	6.82
64	544	7.04
66	561	7.26
68	578	7.48
70	595	7.70
72	612	7.92
74	629	8.14
76	646	8.36
78	663	8.58
80	680	8.80
82	697	9.02
84	714	9.24
86	731	9.46
88	748	9.68
90	765	9.90
92	782	10.12
94	799	10.34
96	816	10.56
98	833	10.78
100	850	11.00

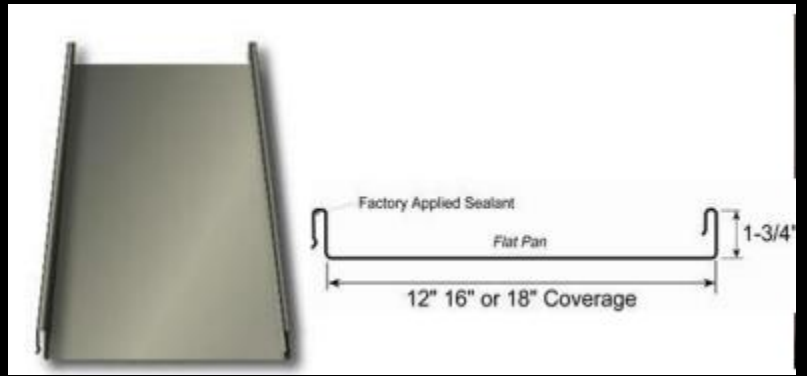
Flat Pan

Factory Applied Sealant

1-3/4"

12" 16" or 18" Coverage

Jim Brown's Bargain Book—1936



Barn Roofing - Corrugated Metal

EXTRA HEAVY Pressed Corrugated Steel—U. S. STANDARD WEIGHTS

Made in HEAVY GRADE (U. S. Standard 28-Gauge) and EXTRA HEAVY GRADE (U. S. Standard 26-Gauge).

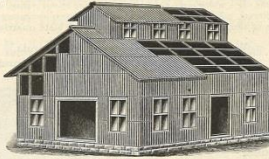
Corrugated Steel is an Excellent Material for roofing, ceiling, siding, awnings, etc. It is especially desirable for grain elevators, mills, barns and fireproof buildings of all kinds. It requires only a hammer and a pair of tinners' snips to lay corrugated steel either on a roof or side of a building, and for this reason it is especially cheap and easy to lay. In putting on corrugated sheet steel the nails should always be driven through the crown or the highest point of the corrugation. Do not hammer the nails down hard enough to batter or flatten the sheet.

Extra Strong on Account of Corrugations. By making sheet steel in this corrugated form it gives the sheet great strength and rigidity. United States Standard 26-Gauge, which is known the country over as standard weight and thickness, and United States Standard 28-Gauge, which we describe as extra heavy and which is 20 per cent thicker and heavier than the standard 28-gauge. We recommend the Extra Heavy Grade, or 26-gauge, in preference to the standard weight (28-gauge), as it costs but a trifle more, costs no more to lay and gives nearly double the wear.

We Furnish Two Thicknesses: which we describe as extra heavy and which is 20 per cent thicker and heavier than the standard 28-gauge. We recommend the Extra Heavy Grade, or 26-gauge, in preference to the standard weight (28-gauge), as it costs but a trifle more, costs no more to lay and gives nearly double the wear.

When ordering 2 1/2-inch corrugated steel roofing be sure to order 108 1/2 square feet to cover one hundred square feet. This does not include end laps. Allow from 4 to 6 inches for end laps, according to the pitch or slope of your roof. When used as siding, a 2-inch end lap is sufficient.

2 1/2-Inch Corrugated Steel Roofing comes in sheets 26 inches wide and has a covering width of but 24 inches. It is furnished either painted or galvanized. Our painted sheets receive a good coat of dry red mineral paint mixed in oil and dryer which serves as a first coat, and the galvanized sheets are well galvanized on both sides with high grade galvanizing material. We recommend the use of galvanized steel if your building is exposed to salt air. Shipped from the steel mills in EASTERN OHIO. We will ship promptly.



Above illustration shows a factory building partially covered with corrugated sheet steel. It will show that the panels are placed close together with this material by nailing it direct to the studs and girders. There is no overlapping used on either the roof or sides of the building. We recommend the use of galvanized steel on all roof and sides with sheet steel. It is far better than any other material used for roofing. It is made to the thickness of the steel.

Be sure to order 104 1/2 square feet of 1 1/4-inch corrugated steel roofing to cover one hundred square feet. This does not include end laps. End laps for corrugated roofing should be from 4 to 6 inches, according to the pitch or slope of your roof. When used as siding a 2-inch end lap is sufficient.

1 1/4-Inch Corrugated Sheet Steel comes in sheets 25 inches wide and has a covering width of only 24 inches. It is furnished either painted or galvanized. Our painted sheets receive a good heavy coat of dry red mineral paint mixed in oil, which serves as a first coat, while the galvanized sheets are well galvanized. (We recommend the galvanized sheets if your building is exposed to salt air.) 1 1/4-inch corrugated sheets are shipped from the steel mills in EASTERN OHIO.



PRICES OF 2 1/2-INCH CORRUGATED STEEL.

Catalog No.	Price, 5-ft. Sheet	Price, 10-ft. Sheet	Price, 15-ft. Sheet	Price, 20-ft. Sheet	Price, 25-ft. Sheet	Price, 30-ft. Sheet	Weight, per Square
48P3108	\$ 0.84	\$1.01	\$1.18	\$1.35	\$1.52	\$1.68	68 lbs.
28-Gauge, Painted.							
48P3106	1.26	1.52	1.77	2.02	2.27	2.52	11.55
28-Gauge, Galvanized.							
48P3124	1.00	1.20	1.40	1.60	1.80	2.00	9.20
28-Gauge, Painted.							
48P3123	1.43	1.72	2.01	2.30	2.58	2.86	13.12
28-Gauge, Galvanized.							

State Number and Length of Sheets on All Orders

NOTE—Prices on Steel Roofing and Siding are subject to market changes. If the market price is lower, customers will get the benefit of the reduction; if higher, we will advance only enough to cover the increased cost to us. For roofing that is guaranteed to wear 12 years we colored insert between pages 8 and 15.

PRICES OF 1 1/4-INCH CORRUGATED STEEL.

Catalog No.	Price, 5-ft. Sheet	Price, 10-ft. Sheet	Price, 15-ft. Sheet	Price, 20-ft. Sheet	Price, 25-ft. Sheet	Price, 30-ft. Sheet	Weight, per Square
48P3107	\$0.89	\$1.16	\$1.32	\$1.48	\$1.64	\$1.80	72 lbs.
28-Gauge, Painted.							
48P3108	1.22	1.47	1.72	1.96	2.20	2.44	11.68
28-Gauge, Galvanized.							
48P3124	0.98	1.18	1.38	1.58	1.77	1.96	9.33
28-Gauge, Painted.							
48P3125	1.38	1.66	1.94	2.21	2.48	2.76	13.24
28-Gauge, Galvanized.							

Corrugated Ridge Roll to Fit 2 1/2-Inch Corrugated Steel Roofing.

No. 48P3272 28-Gauge, Painted. Price, per 5-foot length, .50c
No. 48P3270 28-Gauge, Galvanized. Price, per 5-foot length, .60c
Weight, about 2 1/2 pounds.

Corrugated Ridge Roll to Fit 1 1/4-Inch Corrugated Steel Roofing.

No. 48P3271 28-Gauge, Painted. Price, per 5-foot length, .85c
No. 48P3269 28-Gauge, Galvanized. Price, per 5-foot length, .65c
Weight, about 2 1/2 pounds.

TIN SHINGLES OR FLASHINGS

No. 48P3199 Made of a good grade of roofing tin and cut to exact sizes. Useful for repairing old roofs and making a tight joint around chimneys, etc. Painted on one side. Shipped from our CHICAGO store.
Size, 5x7 inches. Price, each, .50c
Per 100 (Shpg. wt., 15 lbs.), 1.50
Size, 7x10 inches. Price, each, .04
Per 100 (Shpg. wt., 30 lbs.), 3.50

VALLEYS-IN ROLLS

No. 48P3198 Made of IC tin plate in a continuous strip, locked and soldered. Put up in rolls. Full lengths are 50 feet, but we can furnish any quantity. Painted on one side. Shipped from our CHICAGO store.

Width, Inches	Price, per 50-foot Length	Weight, per 50-foot Length
14	1.54	29 lbs.
20	1.56	7.95
28	2.22	10.78

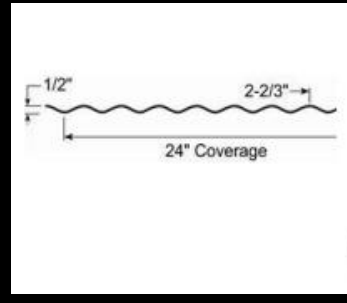
GALVANIZED STEEL VALLEY

Put up in rolls. Made in United States standard 28-gauge steel and extra heavy United States standard 26-gauge steel, 14 inches wide. Lock seam and soldered. For valleys and flashings. Shipped from our CHICAGO store.

Catalog No.	Thickness or Gauge	28-Foot Roll	50-Foot Roll
48P3197	28-gauge	\$2.85	\$7.63
48P3176	26-gauge	\$3.85	\$9.21

SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS.

Sears & Roebuck Roofing Catalogue - 1908



Barn Roofing - Asphalt

Gordon-VanTine Co. - Satisfaction Guaranteed or Money Back PAGE 85

"Jap-a-Top" SLATE SURFACED Roofing



JAP-A-TOP SLATE SURFACED ROLL ROOFING
 Jap-a-Top Slate Surfaced Roll Roofing is made of long fibre felt saturated with pure asphalt. Into this is imbedded a heavy layer of **Genuine Crushed Slate** of either natural dark red or sea green color. The result is a durable, fine appearing roofing that we guarantee for 15 years.

Fire Resisting
 The non-inflammable materials in the base covered with slate give maximum fire resistance. Sparks from a chimney may set fire to a wood shingled building at any time. With Jap-a-Top Slate Surfaced Roofing on your home you are protected from this danger. Meets fire underwriters requirements everywhere. Ideal for farm use.

Easy to Apply
 Comes in rolls of 108 square feet per roll. We furnish large headed galvanized roofing nails and sufficient cement for seams which must overlap to make it waterproof. Each roll covers 100 square feet. Much easier than shingles to apply. Weight full 85 pounds to the roll.

Colors Permanent
 You will find this roofing is a non-conductor of heat and cold, which means a fuel saving in winter and a cooler house in summer. The colors are permanent—will not fade—not affected by sun or rain. This roofing **contains no coal tar**. Samples sent free on request, but you are perfectly safe in buying direct from this page, as we will return your money and freight both ways if you are not thoroughly satisfied.

Note: All Jap-a-Top Roofings Carry Underwriters Label
 SA2059—Dark Red Weight per roll 85 pounds SA2065—Sea Green
 Price, per roll of 108 square feet. **\$1.95**
 Shipped from Davenport, Chicago, Cincinnati, Kansas City or Factory in New York

Gordon-Van Tine Co. Catalogue – c.1924



Genasco


THE TRINIDAD-LAKE-ASPHALT
Ready Roofing

makes all your buildings lastingly weatherproof. The natural oils of this asphalt give it life.

The KANT-LEAK KLEET makes seams weathertight. Write for samples and the Good Roof Guide Book.

The Barber Asphalt Paving Company
 Largest producers in the world of asphalt and ready roofing

Philadelphia
 New York San Francisco
 Chicago

ASPHALT ROOFING ON THE FARM

A Practical Handbook on How to Meet Wartime Housing Problems on the Farm with Serviceable ASPHALT Roofing Products

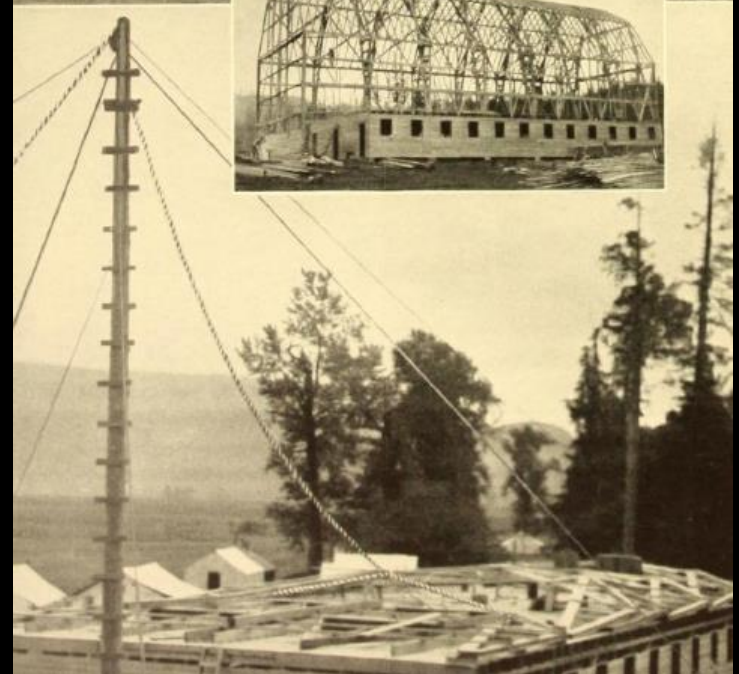
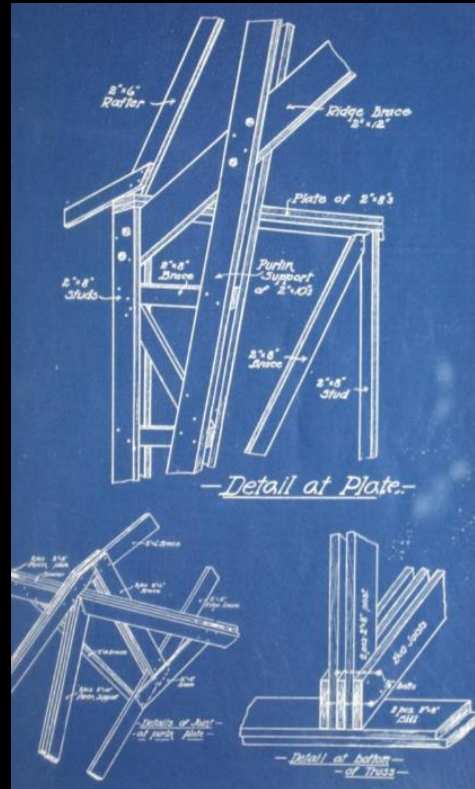
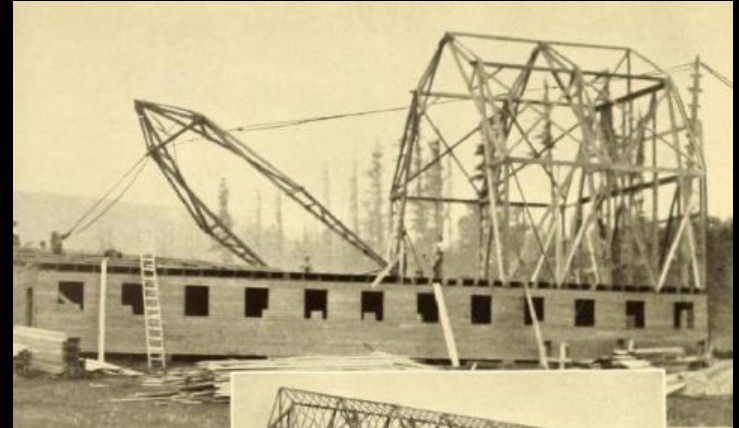
Asphalt Roofing on the Farm— c.1950



Barn

Framing / Truss System

- Log
- Heavy Timber Frame
- Pole Construction
- Plank Truss Frame
 - Braced Truss
 - Iowa Truss
 - Shawver Truss
- Concrete
- Clay Tile / Brick
- Plywood Rigid Frame



Barn Framing / Truss System

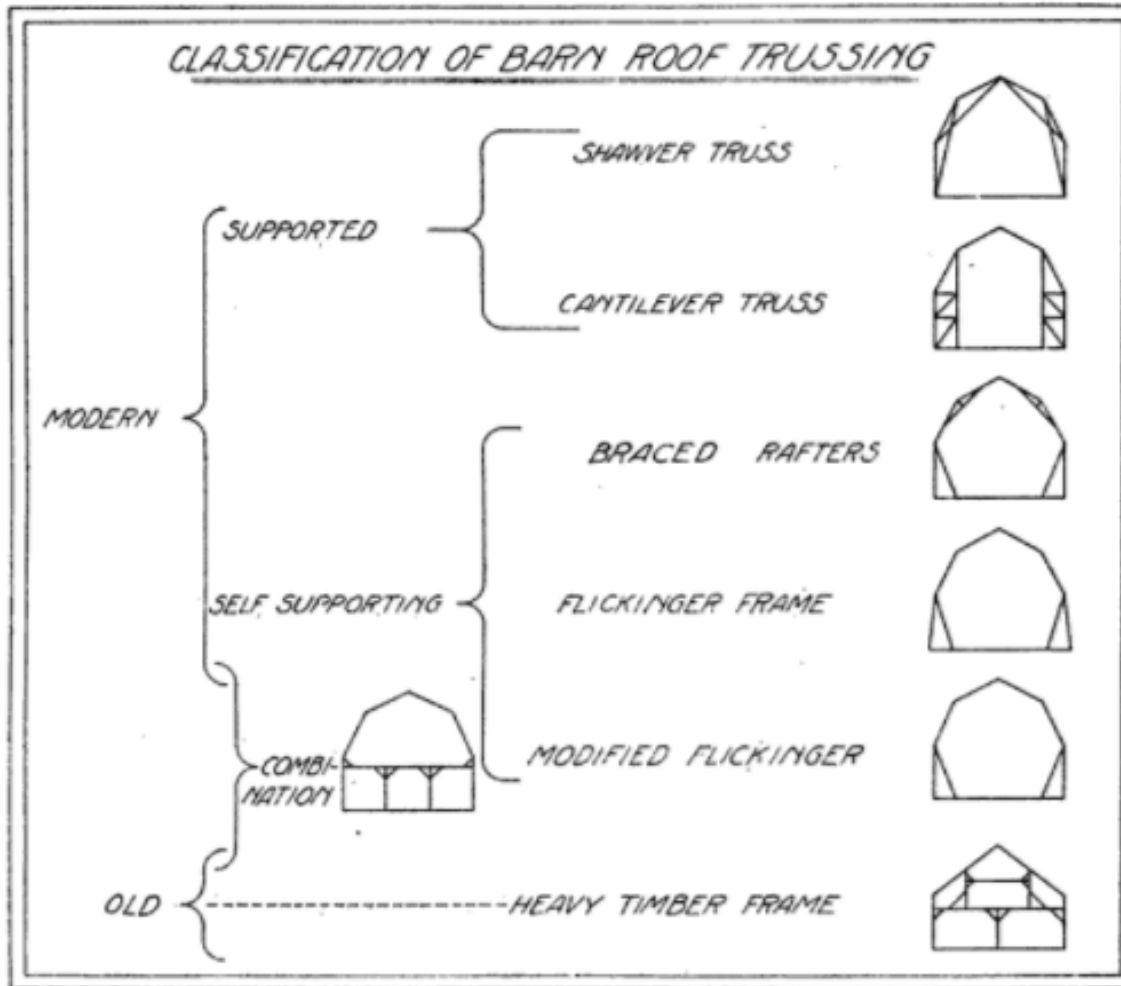


Fig. 1. Six types of barn roof trusses



American Society of Agricultural Engineers

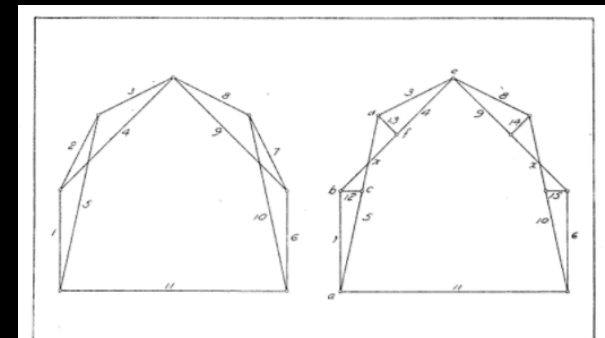


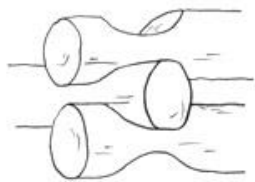
Fig. 2a

Fig. 2b

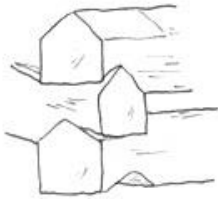
Two types of Shawver truss

Barn – Framing/ Truss System

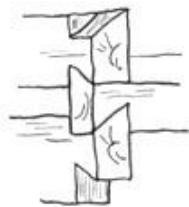
Log Framing



Saddle notch



V-notch



Half Dovetail notch



Diamond notch



Full Dovetail notch



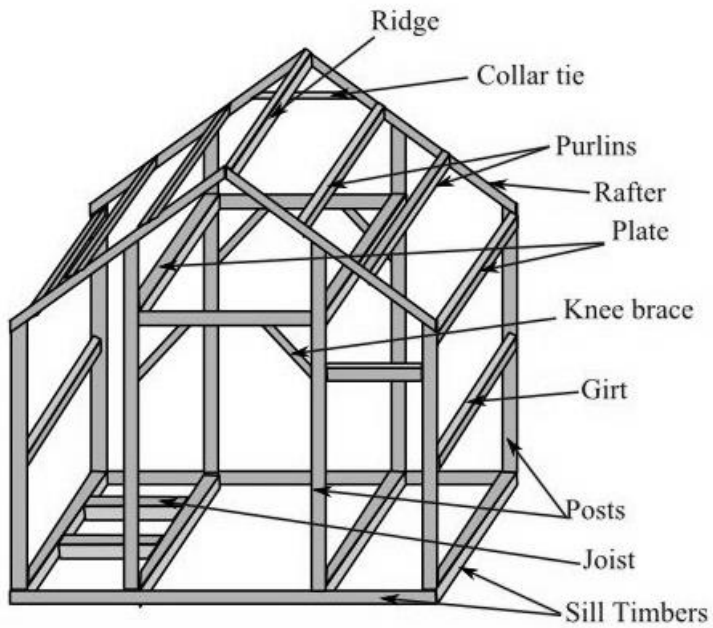
Square notch



Barn – Framing/ Truss System

Heavy Timber - Framing

Timber Framing Diagram



© 2011 MJ Logan



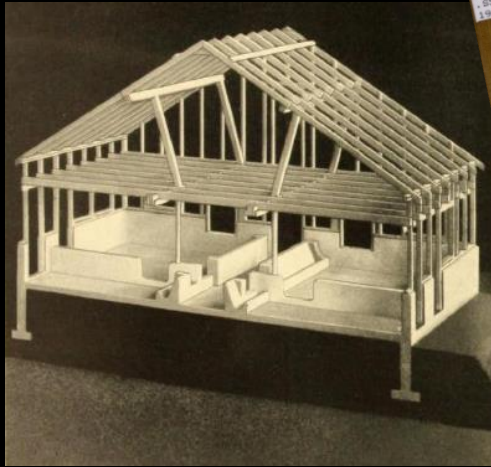
Barn – Framing/ Truss System

Pole Construction - Framing



Barn – Framing/ Truss System

Plank Framing - Gable Framing

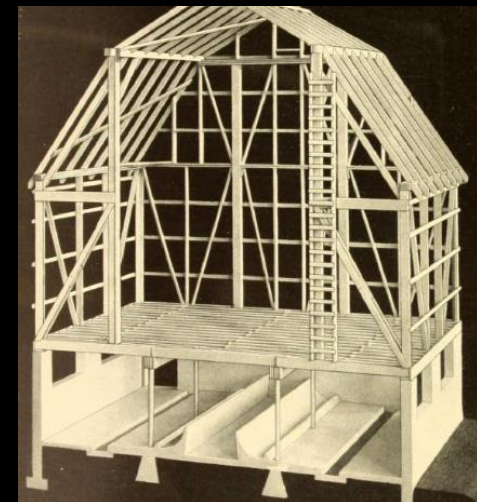
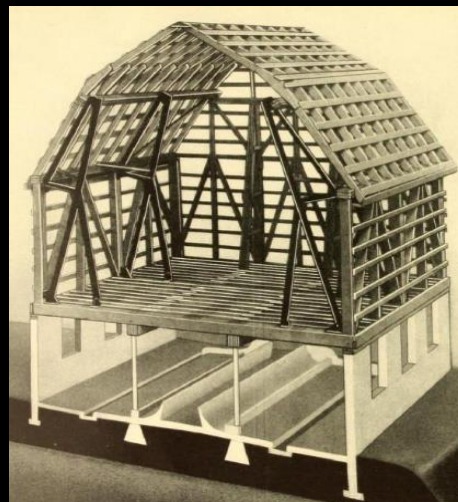
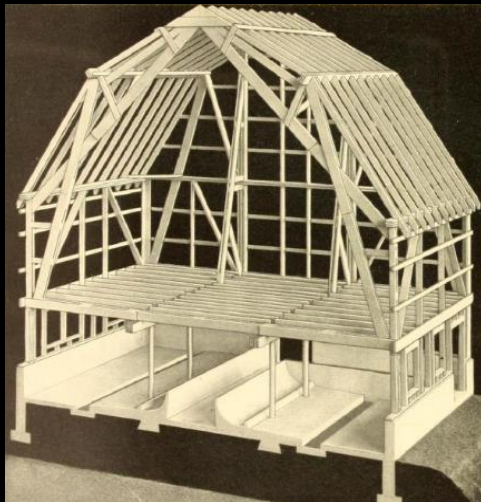


1904



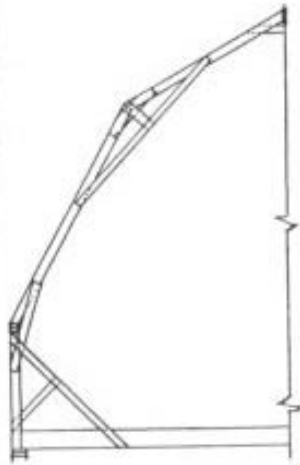
Barn – Framing/ Truss System

Plank Framing – Gambrel Framing

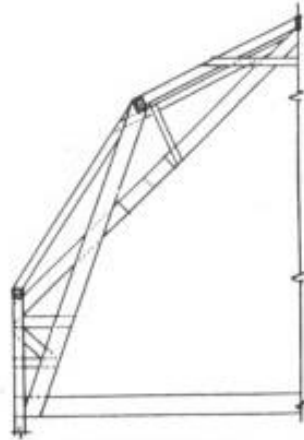


Barn – Framing/ Truss System

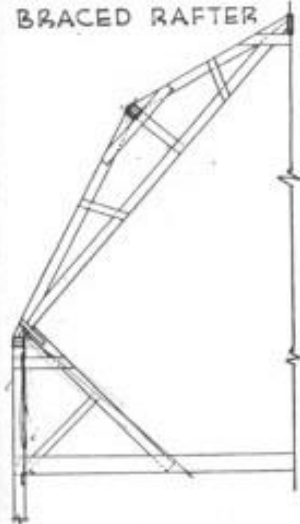
Plank Framing - Gambrel Framing



BRACED RAFTER



SHAWVER



IOWA



STRAP

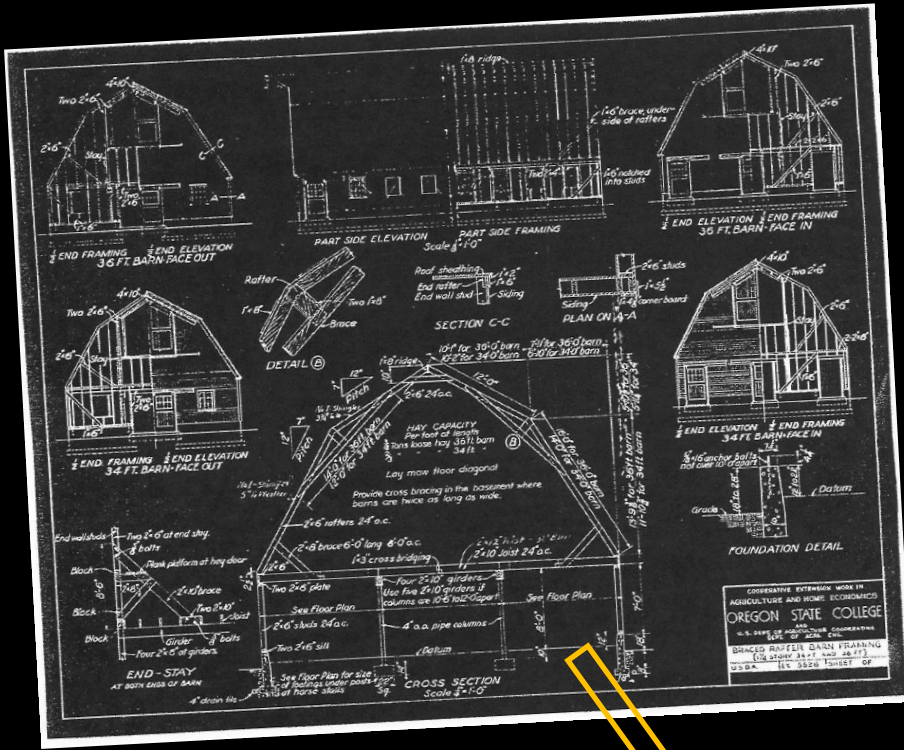


METAL ANCHOR

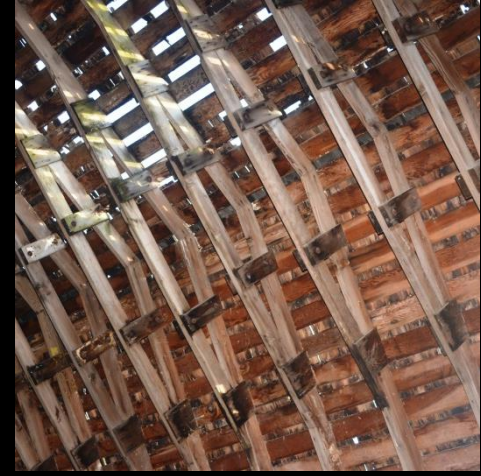
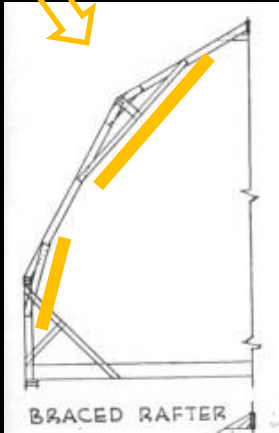
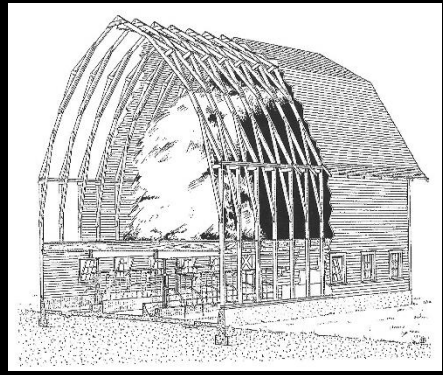


Barn – Framing/ Truss System

Braced Truss - Gambrel Framing



OSU Extension – Braced Truss

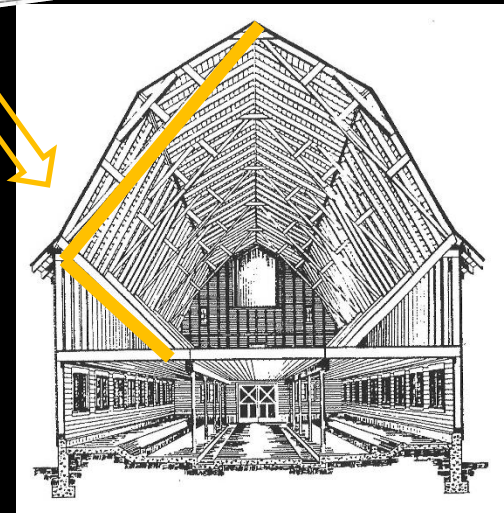
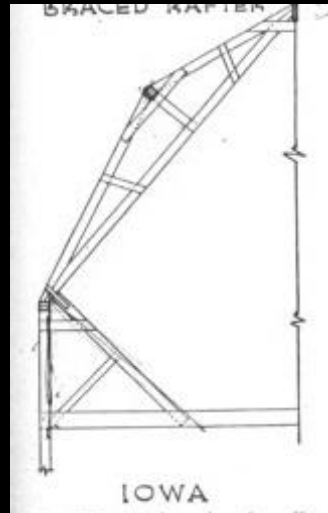
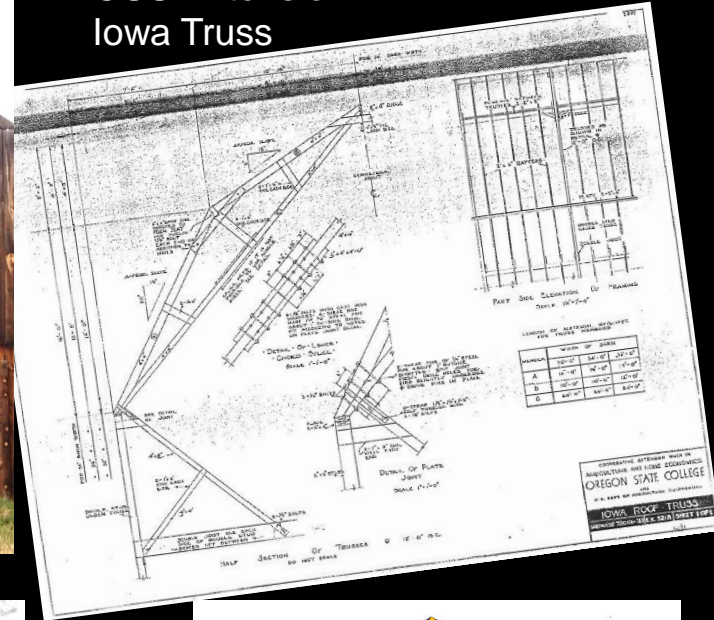


Barn – Framing/ Truss System

Iowa / Clyde Truss -Gambrel Framing



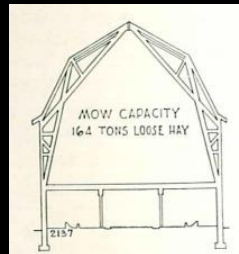
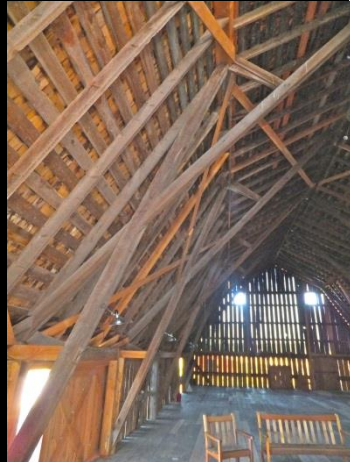
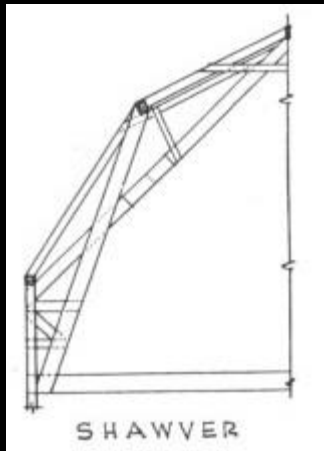
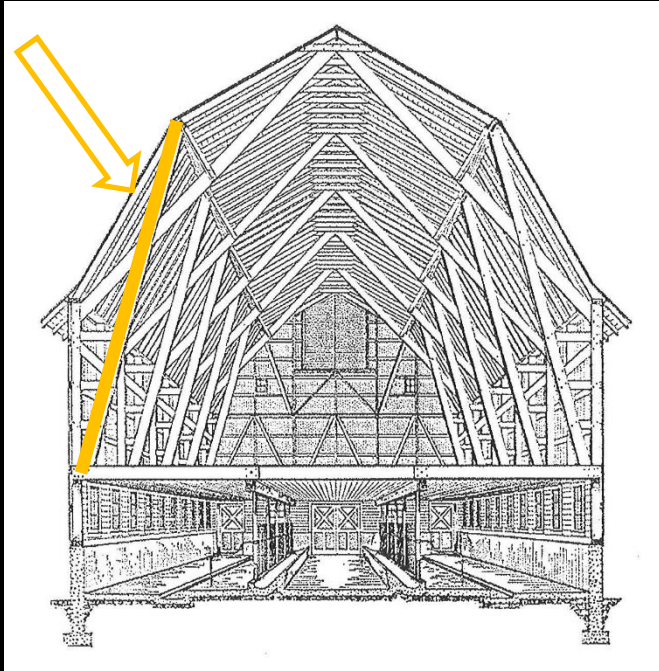
OSU Extension –
Iowa Truss



Truss developed around 1920

Barn – Framing/ Truss System

Shawver Truss - Gambrel Framing



Truss developed
late 19th Century



Barn Barn – Framing/ Truss System

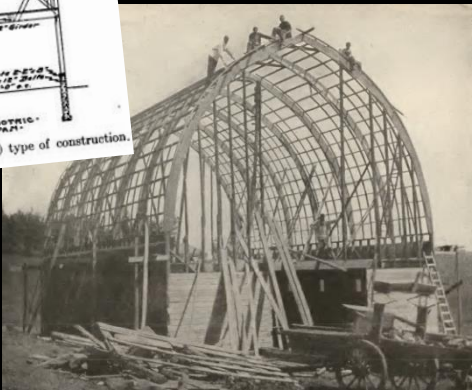
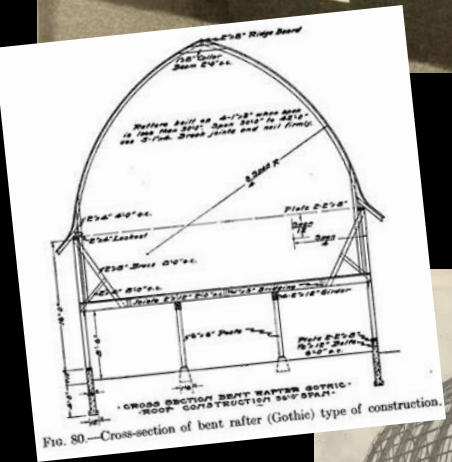
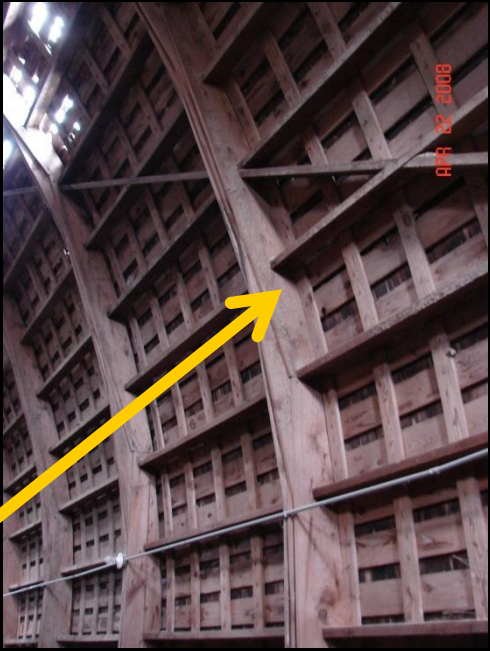
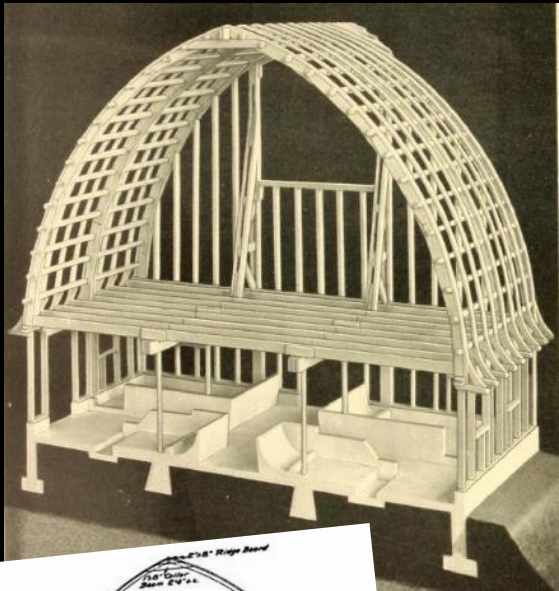
??? Truss - Gambrel Framing

Other truss systems

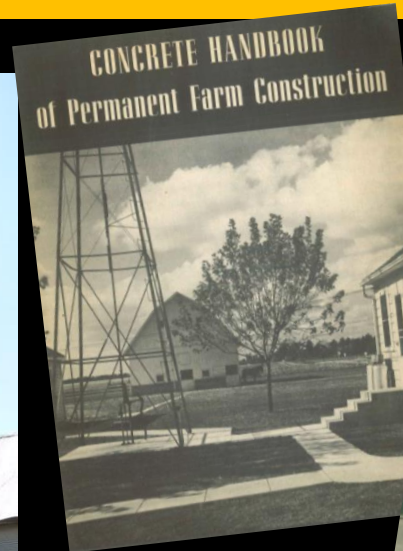
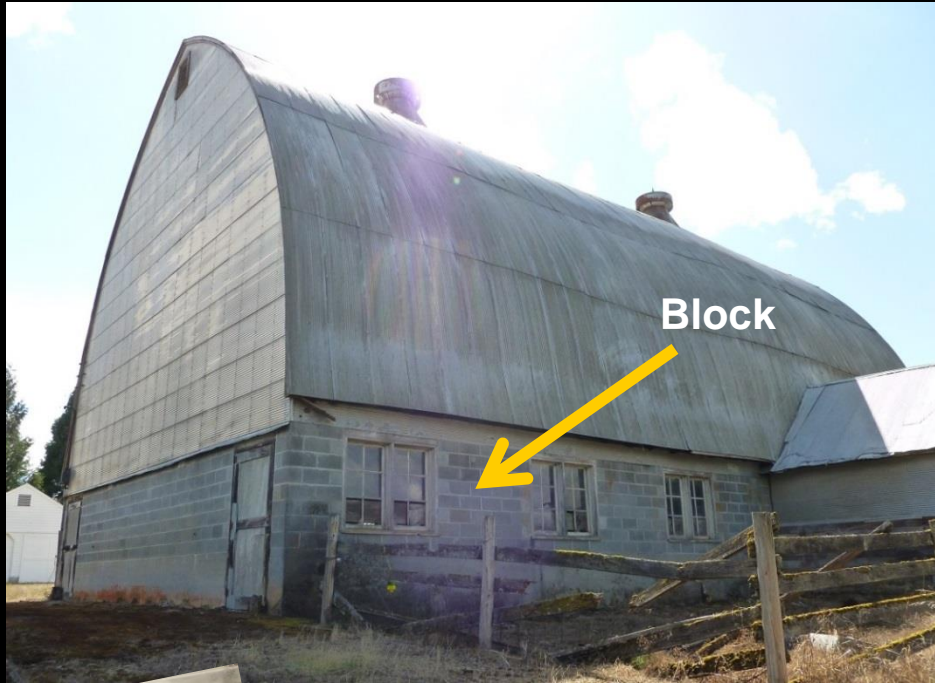


Barn – Framing/ Truss System

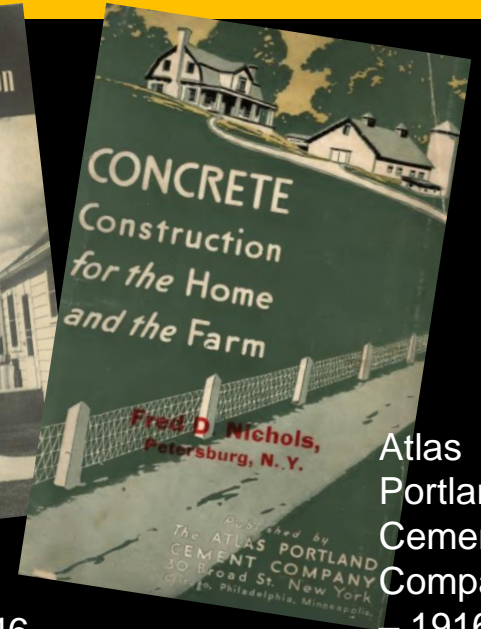
Plank Framing - Gothic Arch



Barn – Framing/ Truss System – Concrete: Poured & Block



Portland Cement Association – 1946



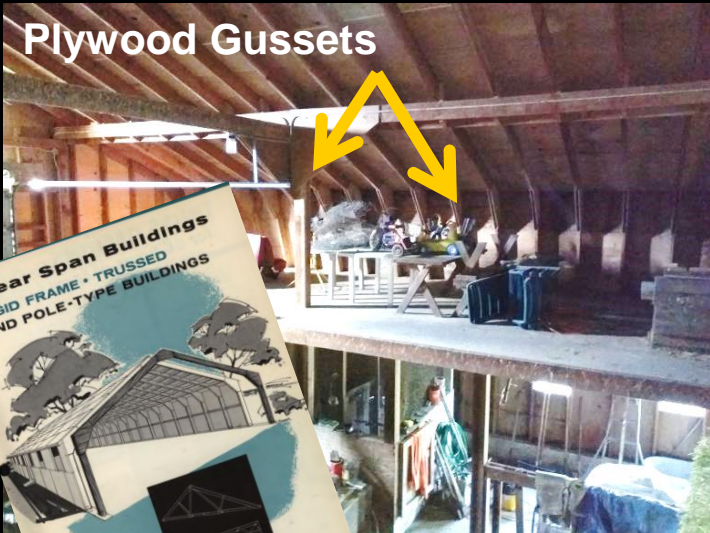
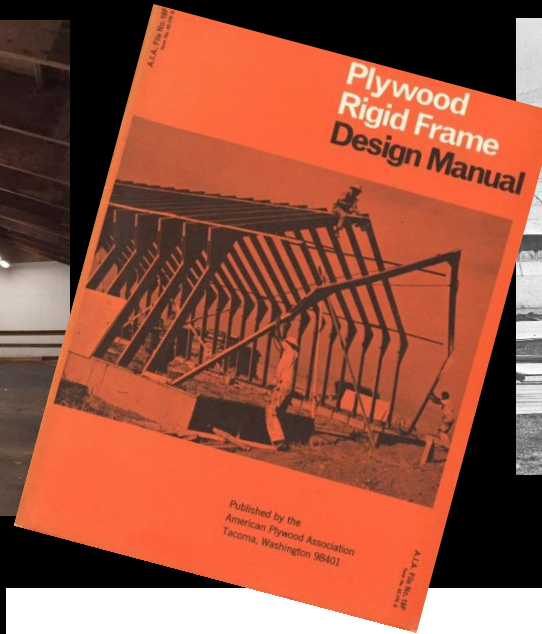
Atlas Portland Cement Company – 1916



Barn – Framing/ Truss System – Plywood Rigid Frame



Lewis County Fairgrounds



Plywood Gussets



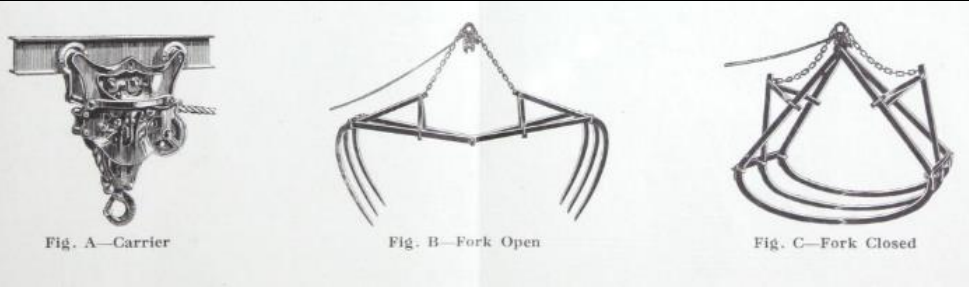
Buckley, WA, 1960



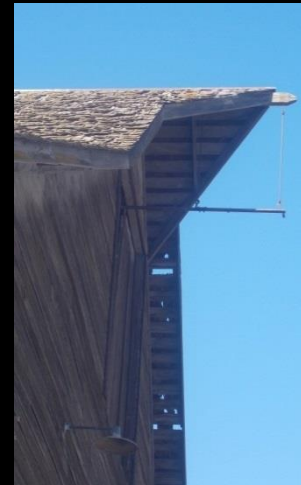
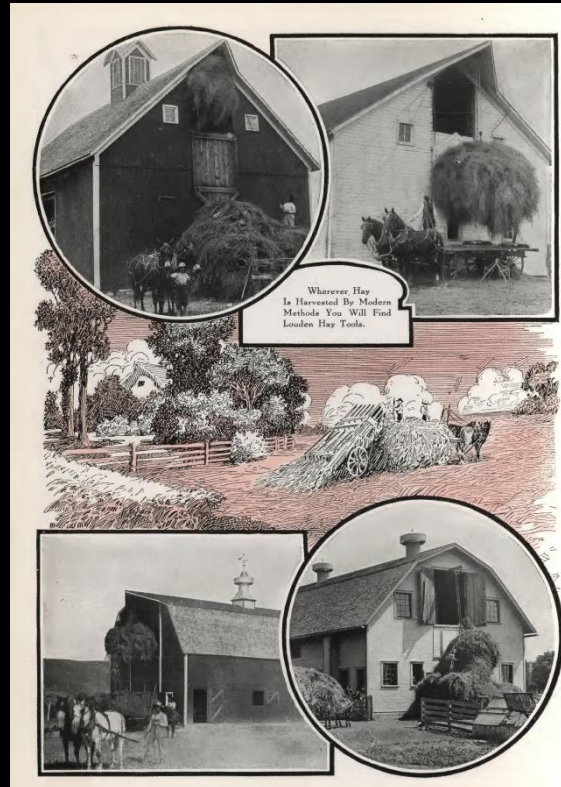
American Plywood Association – 1962-64

Barn - Details

Hay Hoods



Hay Fork



Barn - Details

Hay Hoods



Garfield County, WA



Linn County, OR



Graham, WA



Benton County, OR



Klickitat County, WA

Keizer,
OR



Barn - Details Cupolas & Ventilation



A ventilating system must be planned individually for the building into which it is to go.

Barn Ventilation

By L. KLIMA,
Barn Ventilation Expert

IN THE days of straw sheds when stock was not properly housed, very little attention was paid to pure air, and not much was known about its real food and life-giving value. It soon became apparent to those making a study of stock raising that those animals would be more productive when housed in warm buildings, and this is what has brought about the modern barn. It is true that

the warm room has increased the product, for example, the flow of milk from the dairy cow; but this warm, tight building has also brought about a condition that breeds disease; and the disease is proving to be a menace to live stock and mankind.

It has been proved that pure air is two-thirds of a cow's ration; in other words, for every pound of feed and water

combined that is consumed it requires the oxygen from two pounds of pure air to properly assimilate this feed. It is true that no farm stock buildings are air tight; but if the stock can get only one-half the required amount of pure air, it would have the same effect as if they were given only a part of the feed and water they naturally require to sustain life and make them productive.

Much has been written on the subject of ventilation for farm



Weston, OR
1916



The King System, which is the best part of the King Ventilating System, used in the past but is now almost the only one obtained by an expert, will give the best results. The King System ventilator is illustrated above in the past before the new system. Below is shown the King System ventilator, which is the best and most practical system of ventilation for farm buildings and residences. The King System ventilator is illustrated above in the past before the new system. Below is shown the King System ventilator, which is the best and most practical system of ventilation for farm buildings and residences. The King System ventilator is illustrated above in the past before the new system. Below is shown the King System ventilator, which is the best and most practical system of ventilation for farm buildings and residences.

Milner
General Manager
King Ventilating System

MAJESTIC VENTILATORS

For Barns and Stables
Majestic Ventilators are scientifically and constructed. They have been for the best and most approved models market.

One ventilator required is governed number of cattle in the building. If more than twenty cattle under one roof I have two or more ventilators of the

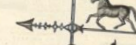
ventilator has a continuous draft sent to draw out the foul air and replace it with fresh air, without causing a draft.

One of these ventilators will go a long making any outbuilding attractive. The service consists in keeping the building ventilated under all weather conditions. Incidentally necessary in order to get the best from stock of any kind. Animals better in a building continually supplied with fresh air. Considering the low

price and the high quality of our ventilators, no farmer can afford to be without one.

Extra heavy 22, 24 and 26-gauge galvanized steel is used in the manufacture of our Majestic Ventilators, according to size. Nothing thinner than 26-gauge galvanized steel is permitted. This is much thicker stock than is generally used.

Each ventilator is equipped with four stay rods which hold it securely in place on the roof. A wire screen is provided to keep the birds out. When properly secured to the roof, our ventilators, owing to their weight and scientific attachment, will resist unusually severe storms.



Keep clean of lead and other matter on your weather vane.



Price Ventilators for Small Buildings.



Price Ventilators for Small Buildings.

On the section of roof illustrated we show our Special Steel Shingle Roofing, which comes in rolls and looks exactly like painted or stained wooden shingles. Send about this wonderful roofing on colored insert between pages 8 and 13.

Prices of Majestic Ventilators for Large Buildings.

Capacity	Height	Weight	Price
100	10	100	\$12.00
150	15	150	\$18.00
200	20	200	\$24.00
250	25	250	\$30.00
300	30	300	\$36.00
350	35	350	\$42.00
400	40	400	\$48.00
450	45	450	\$54.00
500	50	500	\$60.00
550	55	550	\$66.00
600	60	600	\$72.00
650	65	650	\$78.00
700	70	700	\$84.00
750	75	750	\$90.00
800	80	800	\$96.00
850	85	850	\$102.00
900	90	900	\$108.00
950	95	950	\$114.00
1000	100	1000	\$120.00

Prices of Prime Ventilators for Small Buildings.

Capacity	Height	Weight	Price
100	10	100	\$8.00
150	15	150	\$12.00
200	20	200	\$16.00
250	25	250	\$20.00
300	30	300	\$24.00
350	35	350	\$28.00
400	40	400	\$32.00
450	45	450	\$36.00
500	50	500	\$40.00
550	55	550	\$44.00
600	60	600	\$48.00
650	65	650	\$52.00
700	70	700	\$56.00
750	75	750	\$60.00
800	80	800	\$64.00
850	85	850	\$68.00
900	90	900	\$72.00
950	95	950	\$76.00
1000	100	1000	\$80.00

Lightening rod connections, consisting of heavy copper wire, properly fastened inside of ventilation.

SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS.

Barn - Details

Cupolas & Ventilators



Whitman Co. - The Smith
Place - 1935



Snohomish Co. - Grimm-
Jensen Farm - 1932



Adams Co. - Krause Barn -
1901



Pierce Co. - c1923



Spokane Co. -
Hyslop Farm - 1926



Pend Oreille Co. -
LaPorte Barn - 1901

Barn - Details Equipment



Cook Family Farm – 1927



Shady Nook Farm – 1920



Smith Place – 1935



Grimm-Jensen Farm – 1932



Schindler Farm – 1909



Barn - Details Decoration



Heath Farm – c.1920



Bolick Farm – 1895



Ebby Road Farm – 1923



Brown Farm, Olympia – c. 1905

Barn - Details Decoration



Cochran-Rice Farm, Cottage Grove, OR



Barn, Oakland, OR



Polson Farm, Waterville, WA – c. 1915



Gribble Barn, Canby, OR

Associated Farm Buildings

- Bunk Houses
- Fruit Dryers
- Granaries
- Hop Dryers
- Machine Shed
- Milk Houses
- Poultry Houses
- Root Cellars
- Silos
- Smoke Houses
- Water Towers



Associated Farm Buildings



Woodshed



Outhouse



Granary



Farmhouse

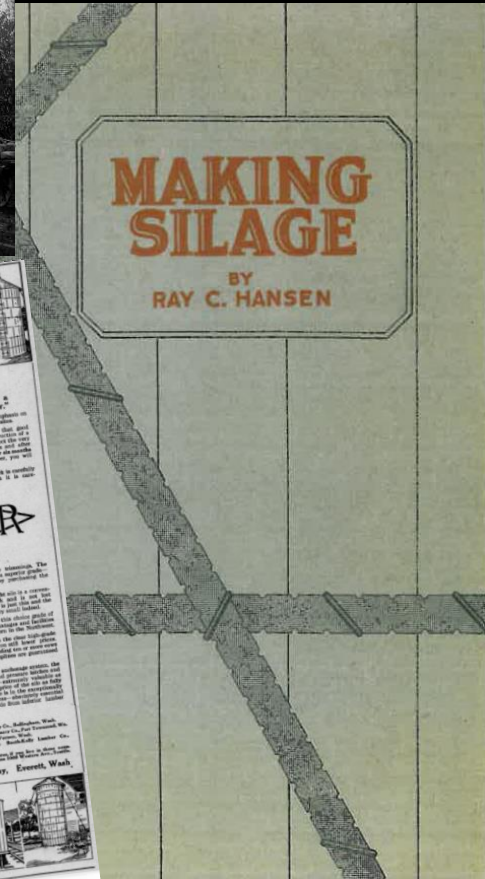
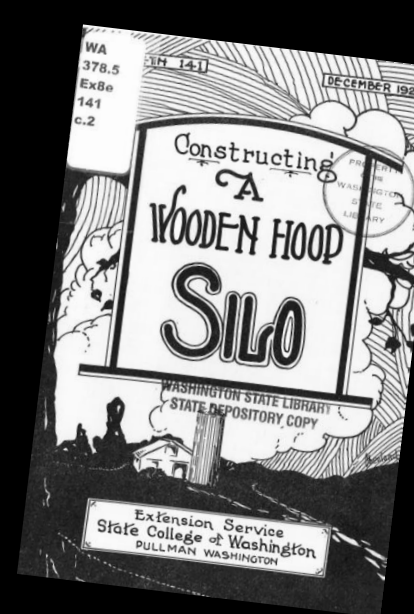
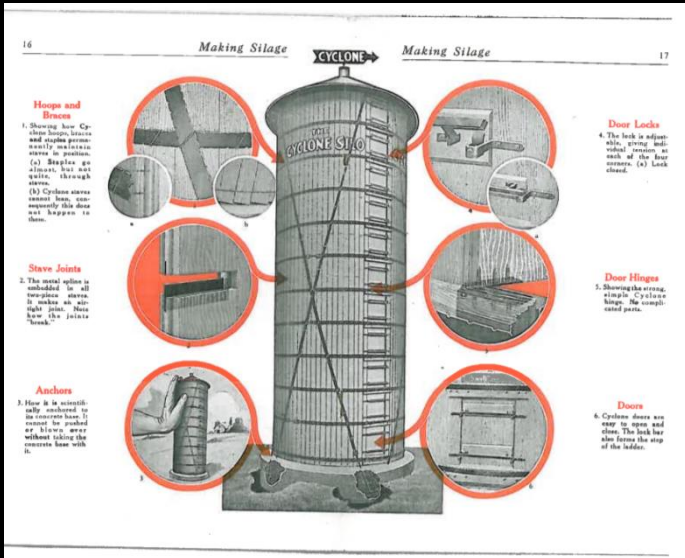


Homestead Cabin



Root Cellar

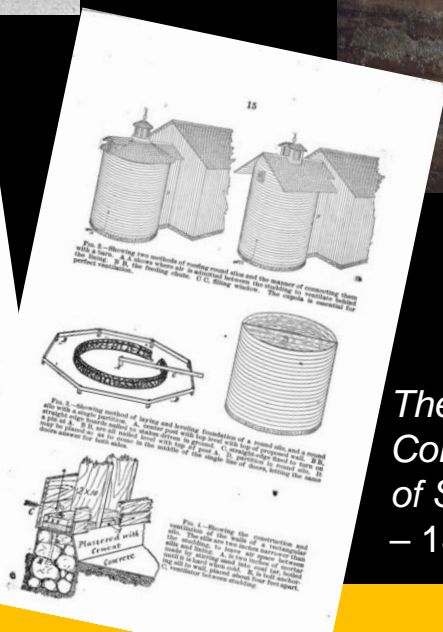
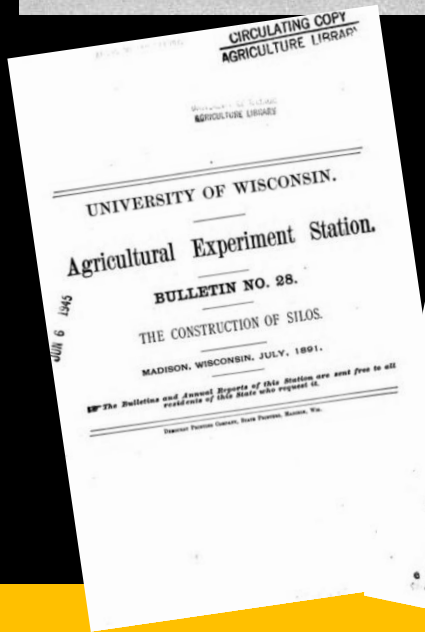
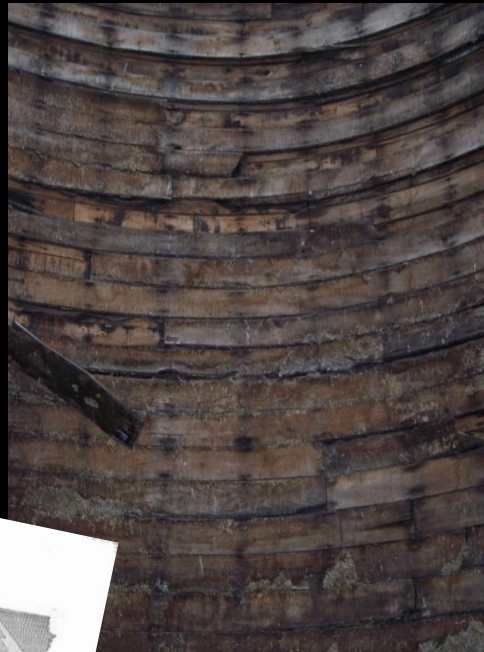
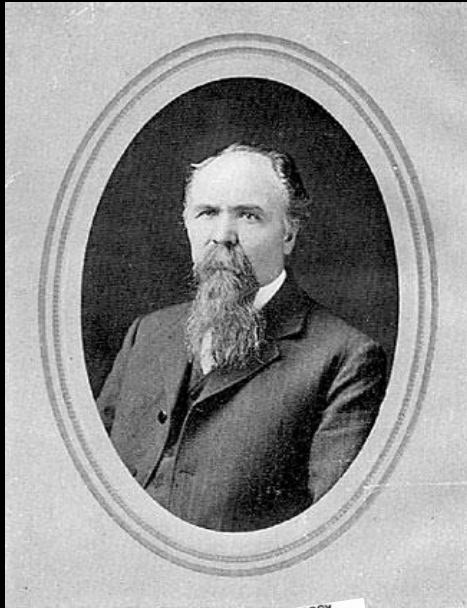
Silos - Typology



Silos - Typology

King Silo (Note horizontal boards)

Franklin Hiram King
– Prof. University of Wisconsin



The
Construction
of Silos
– 1891

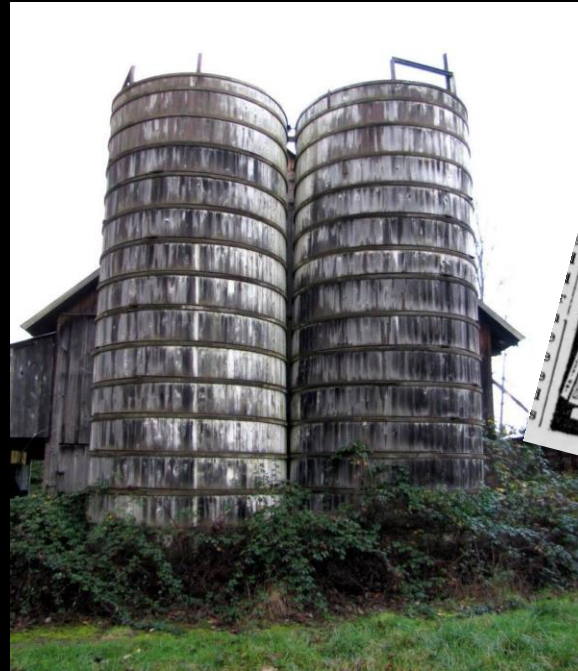
Klickitat Co. – 1900

Silos - Typology

Vertical Wood Stave Silo



Clark Co. - c.1905



King Co. - c.1910

WRITE QUICK - before you build for price on lumber

If you're going to build this summer, you're in a hurry to get started. HURRYING is our specialty. USE OUR QUICK SERVICE. Send your carpenter's list, at once.

Buy direct - Seven railroads compete for our business. They have caught the Hewitt-Lea-Funck spirit of "Quick Service." Orders west of Mississippi delivered in two weeks.

Get quick estimate - Our estimating department will get busy the minute it comes. You'll have our freight-paid price in double-quick time, and it will be a mighty low price, too.

Quick shipment - We have on hand a big supply of high quality lumber and millwork. Clean, straight-grained, old-growth Douglas fir and fine red cedar. We'll ship your order within 48 hours.

Quick delivery - Satisfaction guaranteed in every way. You see the lumber before you pay. You'll get better lumber for less money than you can buy locally.

Write today for estimate - Send that material list for delivered price. No charge for this service. Our millwork catalog and your lumber list are also free on request. Buy direct. Save middlemen's profits. Write today.

Hewitt-Lea-Funck Co.
488 Union Ave., Seattle, Wash.

Quick shipment of a Seattle Silo
Silo filling time's most here. Right now we can give you a mighty attractive freight and price. Use the coupon.

Seven good points

1. One-piece, old-growth fir staves.
2. Quick detachable doors, and hoop bars.
3. Roof fits air tight.
4. Strongly girted. Can't blow down.
5. Staves are hung top-gord and deep-grooved at carload rate.
6. Staves are hung top-gord and deep-grooved at carload rate.
7. Bolt direct at carload rate.

The Washington Farmer - June 15, 1914

A Silo on Your Farm

WILL HELP WIN THE WAR
Winner and Security Silos

THE BEST WOODEN STAVE SILO
We are giving Special Prices on silos for Early Orders.

For Prices and Orders Inquire at
C. A. BRISKE
REAL ESTATE DEALER
1115 Park Street - Chehalis, Wash.

The Ranch - January 15, 1914

Chehalis Bee Nugget - January 25, 1918

How To "Build" A Silo

By "building" we mean erecting, because no perfect silo was ever built or constructed outside of a fully equipped sil factory. The secret of perfect ensilage is a perfect air-tight silo.

Learn how easy it is to erect the **Weyerhaeuser Silo**

Its scientific design, how every piece is carefully milled and fittings made especially for it.

Meets EVERY requirement of a practical silo. Can be laid down at your door, in ONE shipment, for less money than any other make.

Write for our **SILLO BOOK**, explaining our exclusive and better features, low price and easy-to-buy terms.

WEYERHAEUSER LUMBER CO.
EVERETT, WASH.

Silos - Typology

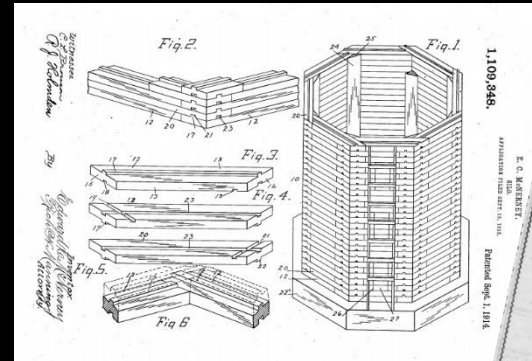
Timber Crib - Tung-Lok Silo



Asotin Co – c.1915



Okanogan Co – c.1915



Pullman Herald
- June 18, 1920

TUNG-LOK Grain Bins
Low in Cost Easy to Erect
Then One of Many of These Grain Bins in Your Field Means Higher Profits

SAVE THE SACK BILLS
As many people find economy farming very profitable, they are turning to the Tung-Lok Grain Bin. This bin is made of heavy lumber and is built in a way that it will hold up to the heaviest loads of grain. It is also built in a way that it will hold up to the heaviest winds. The bin is built in a way that it will hold up to the heaviest rains. The bin is built in a way that it will hold up to the heaviest snows. The bin is built in a way that it will hold up to the heaviest frosts. The bin is built in a way that it will hold up to the heaviest everything.

One Year's Sack Bill will Pay for Your Grain Bin
Also the proposition of progressive, up-to-date grain farmers.

**K. C. SADDLER, Phone 3614
R. E. SPURLING, Phone 81**

A great many silos have either blown down or been badly wrecked, because the farmer put boards or lathing for supports. If a strong wind comes up and the boards are loose or so much so that they are not fastened, when the wind will be broken to the silo, or as the wind will be broken down into it, or the silo will be blown down.

Why not do away with all this nuisance and get the one who has done not used boards, lathing, anchors, or any combination of these, a silo that will stand the test of time and all the time.

Tung-Lok

THE HOME OF THE FAMOUS TUNG-LOK SILO

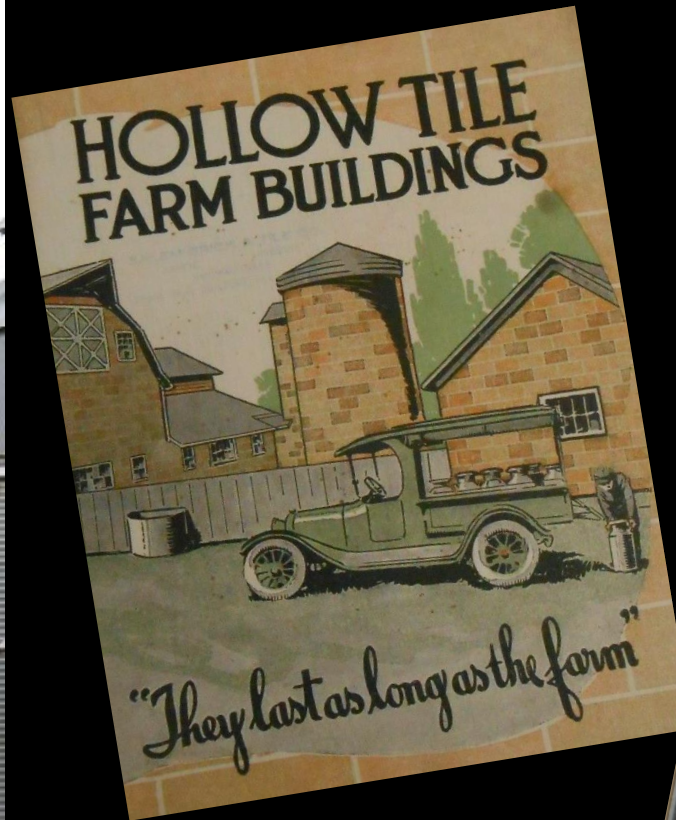
UNION LUMBER COMPANY
MANUFACTURERS OF
FIR LUMBER
RED CEDAR SHINGLES AND TUNG-LOK PRODUCTS
SPECIALISTS IN
Long Timbers, Railroad and Bridge Material
UNION MILLS, WASH.

Silos - Typology

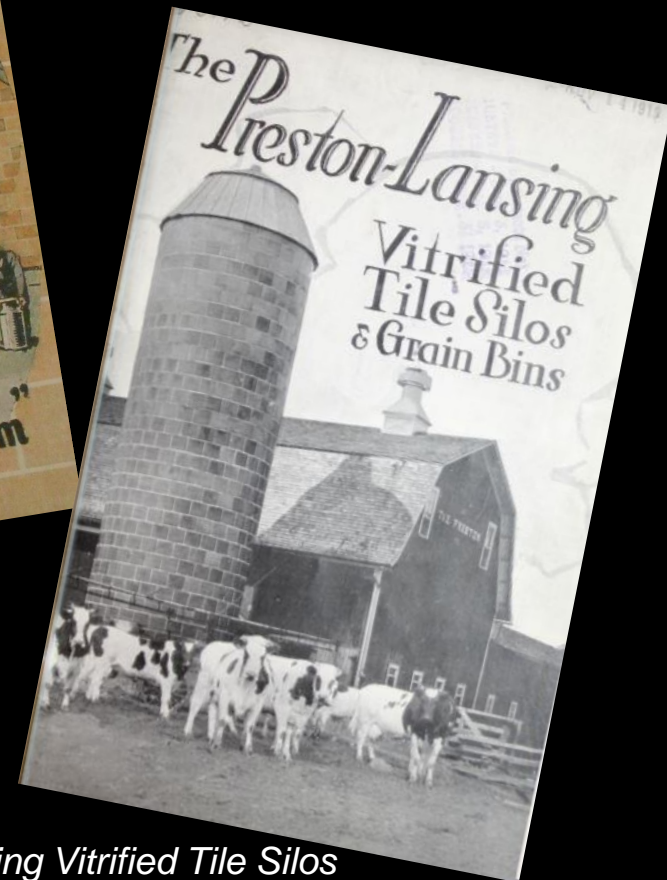
Glazed Tile Silo



Clark Co. - 1920



Hollow Tile Farm Buildings
- 1918



*Preston-Lansing Vitrified Tile Silos
& Grain Bins* - 1919

Silos - Typology

Brick Silo



Spokane Co. – 1919



Cowlitz Co. – c.1920



Lewis Co. – c.1920



Farm Homes of Brick - 1925

Silos - Typology

Concrete Silo (monolithic, block)

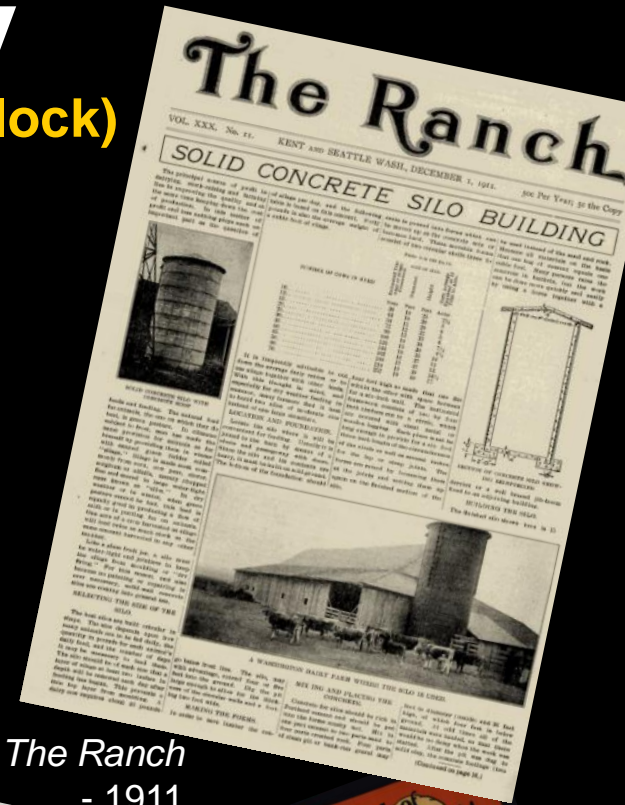


Grays Harbor Co. - c.1935

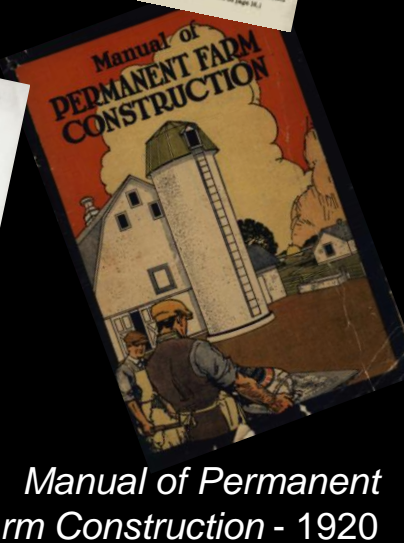


Lincoln Co. - c.1922

Concrete on the Dairy Farm - 1921



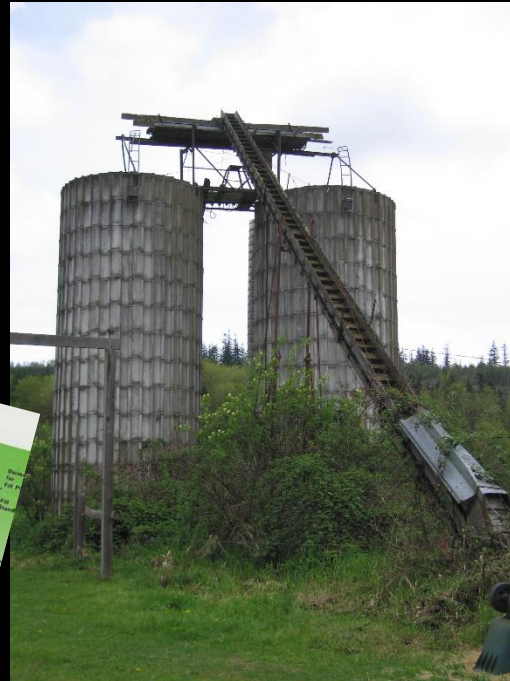
The Ranch - 1911



Manual of Permanent Farm Construction - 1920

Silos - Typology

Concrete Silo (Ribstone / Stave Silo)



Jefferson Co. – c.1930



Pierce Co. – c.1920

Silos - Typology

Steel Paneled (Harvestore) Silo



Pierce Co. - c.1935



Adams County - c. 1948

Advertisement
- 1956

How would you like to...
Feed 100 cattle in 5 minutes?
Harvestore Owners do it regularly with

exclusive bottom unloader and mechanical feeder

HARVESTORE® AUTOMATION
cuts labor costs up to 80%, owners report

Throw away your pitch fork and shovel. No more lifting, hauling, stacking or pitching hay or corn. Now, exclusive Harvestore bottom unloader and mechanical feeder give you dependable mechanical help to cut churning and labor costs... step up production. The Harvestore bottom unloader is a revolutionary engineering achievement... proven in daily use on thousands of farm installations, with every kind of feed crop. More than a labor saver, Harvestore gives you unmatched capacity with its in-the-bag, out-the-bottom principle... continuous "flow" capacity over "dead storage". Harvestore Feeder Automation is another exciting advantage of the Vertical Farming. Get all of the money-making facts. Mail the coupon today.

With just 17¢ down, you can buy the Harvestore complete and mechanical feeder. Take up to 3 years to pay balance.

From field to feeding with the top of the silo.

A. O. Smith
Vertical Division
Milwaukee, Wis.

Copper-content
ROSSMETAL SILO
galvanized
is a Real Money Maker

**GREATER SAFETY
BETTER SILAGE
MORE PROFIT**

from the ROSSMETAL SILO, now the choice of successful farmers everywhere. Gives protection against fire, wind-storms and freezing troubles. Does not shrink or swell and resists silage acids. Keeps silage sweet and saves loss from spoilage. Can be easily erected, lasts a lifetime and the height can be increased at any time at a minimum cost. These ROSSMETAL Silo advantages make for larger profits.

All these facts are proved over and over again by letters from Ross owners. Everyone interested in buying a Silo should first read "Users Own Words." It is free—send for it today.

Easy terms. Buy now—pay later.

THE ROSS CUTTER & SILO CO.
Established 1859
10 Warder St.
Springfield, Ohio

Write your name on margin. Check items which interest you and we will send complete information.

Users Own Words FREE BROCHURE

Silos ■ Crib ■ Cutters ■ Stanchions ■
Brooder Houses ■ Hog Houses ■

Advertisement
- 1930

Increase Milk Production This Modern Way

THE MARTIN HAYMAKER is the new, modern way for feeding dairy livestock. It's the new, modern way for feeding dairy livestock. It's the new, modern way for feeding dairy livestock. It's the new, modern way for feeding dairy livestock.

STEEL MARTIN-BILT

Free in the Design and Fabrication of Steel Buildings Exclusively for the Farm

Advertisement
- 1948

The Washington State

Department of Archaeology & Historic Preservation



Michael Houser, *WA State Architectural Historian*
360.586.3076 or michael.houser@dahp.wa.gov

