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O.S.C. FARM BUILDING PLAN SERVICE

Listing

Farm Building and Equipment  
Plans Available

Prepared by  
Department of Agricultural Engineering

~~DISCARD~~

Federal Cooperative Extension Service  
Oregon State College  
Corvallis

Cooperative Extension Work in Agriculture and Home Economics

Wm. A. Schoenfeld, Director

Oregon State College and United States Department of Agriculture Cooperating  
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OREGON STATE COLLEGE  
FARM BUILDING PLAN SERVICE

Listing  
Farm Building and Equipment Plans Available

Prepared by  
Department of Agricultural Engineering

Introduction

Prints for the construction of the farm buildings listed in this circular may be obtained at low cost through Oregon County Agricultural Agents, or directly from the Extension Engineer, Department of Agricultural Engineering, Oregon State College, Corvallis, Oregon. For more detailed information regarding the plans listed in this circular, please consult your county agent who has manuals giving full description of them. Additional information may be secured by writing to the Extension Agricultural Engineer.

The charge for printing the working drawings is 25 cents for each sheet plus an additional charge of 35 cents for each order regardless of the number of different sets of plans ordered at one time. Checks and money orders should be made payable to Oregon State College.

Drawings to meet special needs are not furnished by the College or the Extension Service. The services of architects and reputable commercial agencies are recommended for altering these plans for special requirements, and for the specification of materials different from those shown.

Illustrations of plans or prints of plans adaptable to your area are available for inspection at your county extension office.

IMPORTANT - ORDER PLANS BY PLAN NUMBER AND NAME

FARM BUILDING ESSENTIALS

Most of the structures listed in this circular have gone through the test of actual use, which has proved them suitable from the standpoint of sound construction, convenience, sanitation and economy under the conditions for which they were intended. Climatic conditions are not uniform over the state but vary with the altitude, rainfall, wind and influence of foggy weather. These factors must be considered in the construction of buildings so that provision is made for foundations of proper size and depth, enough insulation, adequate bracing and suitable roof covering.

The circular lists a fairly wide range of plans so that in most cases, the prospective builder can select a plan or set of plans that meets his particular requirements with respect to the size of family, the size and type of farm, and the number and kind of livestock.

LIST OF FARMHOUSE PLANS

Order Plans by Plan Number

One Story Growing Houses (Planned so that additions can be built later)

	<u>*Plan No.</u>	<u>No. of Sheets</u>
Expansion from 3 to 5 rooms - - - - -	6511	6
Expansion from 3 to 6 rooms - - - - -	6512	3
Expansion from 3 to 6 rooms - - - - -	6513	2
Expansion from 4 to 6 rooms - - - - -	6514	2
Expansion from 3 to 6 rooms - - - - -	6515	2
Expansion from 2 to 5 rooms - - - - -	6516	2
Expansion from 4 to 6 rooms - - - - -	6517	3
Expansion from 3 to 5 rooms - - - - -	6518	1
Expansion from 4 to 6 rooms - - - - -	6519	3
Expansion from 3 to 7 rooms - - - - -	6520	2
Expansion from 3 to 7 rooms - - - - -	6521	2
Expansion from 5 to 7 rooms - - - - -	6522	2
Expansion from 4 to 8 rooms - - - - -	6523	3
Expansion from 5 to 7 rooms - - - - -	6524	3
Expansion from 3 to 7 rooms and basement- - -	6525	2

One Story Houses

4 rooms - Log Cabin- - - - -	6526	3
5 rooms- - - - -	6527	2
4 rooms- - - - -	6528	2
4 rooms and work room - - - - -	6529	3
4 rooms- - - - -	6530	3
6 rooms and work room - - - - -	6531	1
7 rooms- - - - -	6532	1
6 rooms and laundry- - - - -	6533	4
5 rooms- - - - -	6534	2

One and a Half to Two-Story Houses

5 rooms- - - - -	6535	3
8 rooms- - - - -	6536	3
6 rooms- - - - -	6537	2
7 rooms- - - - -	6538	7
4 rooms and laundry- - - - -	6539	3
6 rooms- - - - -	6540	3

The cost of plans is 25 cents per sheet, plus an order charge of 35 cents for each order.

\*Plans illustrated in F. B. #1738.

Very Small Houses

	*Plan No.	No. of Sheets
3 rooms- - - - -	6501	1
3 rooms and screened porch - - - - -	6502	1
4 rooms- - - - -	6503	1
3 rooms- - - - -	6504	5
3 rooms- - - - -	6505	5
4 rooms- - - - -	6506	2

\*The above farm house plans are described and illustrated in U.S.D.A. Farmers' Bulletin No. 1738 entitled "Farmhouse Plans." This bulletin is available in offices of county extension agents.

HOUSE PLANS

Other Than Those Listed in Farmers' Bulletin No. 1738.

3 room cottage - 22' x 22' - - - - -	1.54	1
4 room house - 26' x 34'- - - - -	5444	3
4 room bunkhouse - 13' 8" x 30' - - - - -	5448	3
4 room adobe house - 37' 9" x 35'- - - - -	5486	2
5 room house - 47' x 26'- - - - -	1.51	8
5 room house - 21' 10" x 32' - - - - -	1.56	6
5 room house - 25' 6" x 34' 6"- - - - -	5443	6
5 room house - 29' x 31' 6"- - - - -	5446	2
5 room house - 29' 6" x 43'- - - - -	5447	4
6 room house (two story) - 19' x 25' 10" - - - - -	1.55	4
6 room house (two story) - 28' x 32'- - - - -	1.57	5
6 room house (two story) - 28' x 33'- - - - -	5445	5

Farm Labor Houses

20 x 24		
One story, hip roof, living room, bedroom, bath and kitchen. East front to road - - - - -	2-22	1
20 x 24		
One story, gable roof, living room, bedroom, bath and kitchen. South front to the road - - -	2-23	1
20 x 26		
One story, gable roof, living room, bedroom, bath, utility room, and kitchen. West front to road	2-24	1
20 x 28		
One story, hip roof, living room, bedroom, bath and kitchen. North front to road - - - - -	2-21	1

Camp Cabins

3 rooms- - - - -	5185	1
5 rooms - log cabin- - - - -	5506	2
3 rooms - log cabin- - - - -	5507	1
Fresh air sleeping cabin - 12 x 6 - - - - -	5508	1

The cost of plans is 25 cents per sheet, plus an order charge of 35 cents for each order.

Roadside Stands

	<u>Plan No.</u>	<u>No. of Sheets</u>
Large stand - 20 x 24 - - - - -	5192	1
Small stand - 12 x 24 - - - - -	5193	1
Open stand- - - - -	5194	1
Movable stand- - - - -	5509	1

Rural Community Halls

36 x 78		
Hip roof with 5' x 17' pedimented entrance, auditorium, stage, coat rooms, and lavatories on main floor. A full basement with kitchen, dining, storage, and rest rooms, furnace - - - - -	1.66 A	3
36 x 78		
Hipped gable roof with 5' x 17' gable roof entrance. Similar plan to 1.66 A - - - - -	1.66 B	2
36 x 78		
Gable roof with 5' x 17' hipped roof entrance. Similar plan to 1.66 A - - - - -	1.66 C	3
36 x 74 with 26 x 50 "L"		
One story, no basement. Kitchen and dining room in the "L". Otherwise similar to 1.66 A - - -	1.66 E	2

Bulletins which may be helpful in regard to farmhouse construction problems.

U.S.D.A. Farmers' Bulletin #1772	"Use of Concrete on the Farm."
U.S.D.A. Farmers' Bulletin #1751	"Roof Coverings for Farm Buildings."
Extension Bulletin #540	"Red Cedar Shingles."
U.S.D.A. Farmers' Bulletin #1452	"Painting on the Farm."
U.S.D.A. Farmers' Bulletin #1572	"Making Cellars Dry."
U.S.D.A. Farmers' Bulletin #1500	"Rammed Earth Walls for Buildings."
U.S.D.A. Farmers' Bulletin #1660	"Use of Logs and Poles in Farm Construction."
Station Circular #131	"Planning the Kitchen."
Extension Bulletin #531	"Better Farm and Home Lighting."
U.S.D.A. Farmers' Bulletin #1869	"Foundations for Farm Buildings."
U.S.D.A. Farmers' Bulletin #1838	"Electric Light for the Farmstead."
U.S.D.A. Farmers' Bulletin #1749	"Modernizing Farmhouses."
Station Bulletin #369	"House Planning Ideas of Oregon Rural Women."
U.S.D.A. Farmers' Bulletin #1756	"Selection of Lumber."
U.S.D.A. Farmers' Bulletin #1738	"Farmhouse Plans."
U.S.D.A. Farmers' Bulletin #1889	"Fireplaces and Chimneys."
U.S.D.A. Farmers' Bulletin #1939	"Home Storage of Vegetables and Fruits."
U.S.D.A. Farmers' Bulletin #1698	"Heating the Farm Home."

The cost of plans is 25 cents per sheet, plus an order charge of 35 cents for each order.

OREGON LOW COST FARMHOUSE PLANS

Prepared for Oregon Conditions

Prepared under Cooperative Low Cost Housing Research Project of the Oregon Agricultural Experiment Station, by Maud Wilson and H. R. Sinnard and designed especially for Oregon conditions.

Low cost "post and pier construction." All have closets, pantry, and a few kitchen built-ins. Neither fireplace nor dormer required unless otherwise noted. If a basement is required, it can be reached by way of a stairs under the porch roof. \*Indicated plans have an attached utility porch with food storage, woodshed, and garage under the same roof.

See "Plans for Oregon Farm and Acreage Homes."

Index of Plan Numbers<sup>1</sup>

Number of rooms	North front to highway		East front to highway		South front to highway		West front to highway	
	Drive east of house	Drive west	Drive south	Drive north	Drive west	Drive east	Drive north	Drive south
<u>Higher Cost Houses</u>								
Three			9-1		(9-1)	9-1*		9-1*
Four			10-8R*		(10-8R*)	10-8R		10-8R
Five	20-1 35-1*	20-1* 35-1	20-1 20-2 27-19 27-19R* 27-38R* 35-1*		(20-1) (20-2) (27-19) (27-19R*) (27-38R*) (35-1*)	20-1* 20-2* 27-19* 27-19R 27-38R 35-1		20-1* 20-2* 27-19* 27-19R 27-38R 35-1
Six or Seven	32-7	32-7*	32-7 33-8A*	(30-5*) (31-1*) (33-8A)	(30-5) (31-1) (32-7) (33-8A*)	30-5* 31-1* 32-7* 33-8A	30-5 31-1 33-8A*	32-7* 33-8A
<u>Lower Cost Houses</u>								
Three	2-7	2-7*	1-17 2-12		(1-17) (2-7R*) (2-12)	1-17R 2-7R 2-12R		1-17R 2-12R
Four	3-17	3-17*	3-15R 12-27		(3-15R) (3-17) (12-27)	3-15 3-17* 12-27*		3-15 12-27*
Five			17-2		(17-2)	17-2R		17-2R

1. If the number is starred (\*), the plan would need to be reversed to suit the location designated. If the number is in parentheses ( ), the plan is not suited to the location in which summer winds blow from the northwest and barn odors are objectionable.



Oregon State College Farm Building Plan Service  
Summary Description of Oregon Low Cost Farmhouse Plans

Plan No.	Floors			Rooms									Number sheets in set	Size-floor plan		
	One	Two	Basement	Kitchen	Living room	Kitchen-living room	Dining room	Convertible room	Bed-rooms	Total main room	Closets	Pantry			Bath-rooms	
<b>Moderate Cost Houses</b>																
9-1	x		x	x	x					1	3	6		1	4	24 x 30
10-8R	x		x	x	x					2	4	7		1	4	26 x 30
20-1		x	x	x	x			x		2	5	9		1	4	24 x 31
20-2		x		x	x			x		2	5	7		1	4	24 x 28
27-19		x	x	x	x					3	5	12		1	6	28 x 28
27-19R		x	x	x	x					3	5	11		1	5	28 x 28
27-38R		x	x	x	x					3	5	10		1	5	28 x 28
30-5		x	x	x	x				x	3	6	7		1	3	30 x 34
31-1		x	x	x	x				x	4	7	10		1	4	30 x 30
32-7		x	x	x	x			x		3 or 4	6 or 7	9 or 10		1	5	26 x 38
33-8A		x	x	x	x					x	6	9		2	5	26 x 32
35-1	x		x	x	x			x		2	5	7		1	7	24 x 44
<b>Lower Cost Houses</b>																
1-17*	x								x	2	3	3	x	1	4**	20 x 26
2-7*	x			x	x					1	3	3	x	1	4	18 x 32
2-12*	x			x	x					1	3	2	x	1	4	24 x 24
3-15*	x			x	x					2	4	2	x	1	4	24 x 28
3-17	x			x	x					2	4	5	x	1	4	18 x 36
12-27		x	x							3	4	3	x	1	5	20 x 24
17-2*		x		x	x			x		2	5	5	x	1	4	22 x 26

\*Working drawings are also available for reversed plans. These are designated as 1-17R, 2-7R, 2-12R, 3-15R, and 17-2R respectively.

\*\*There are 6 sheets in the set for Plan 1-17R.

In all plans with basement, the food storage room, laundry, and wood storage are located there. In plans without basement, these areas are incorporated in an ell together with the porch. Every plan has a porch large enough for warm weather dining.

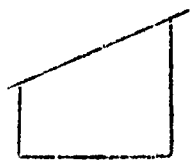
LIST OF BARN PLANS

To assist in determining the size of barn required, the following table is given to show capacities of hay mows of various widths and types of barns.

TABLE OF MOW CAPACITIES

Width	Type of Barn	Loose Hay	Chopped Hay*
18'	Gable-2 story	1/4 T per ft. of length	3/4 T per ft. of length
20'	Gambrel-2 story	1/4 T " " " "	3/4 T " " " "
22'	Gambrel-2 story	1/3 T " " " "	1 T " " " "
24'	Gambrel-2 story	1/2 T " " " "	1-1/2 T " " " "
26'	Gothic Arch-2 story	3/5 T " " " "	2 T " " " "
28'	Gambrel-2 story	3/5 T " " " "	2 T " " " "
30'	Gambrel-2 story	3/5 T " " " "	2 T " " " "
32'	Gambrel-2 story	4/5 T " " " "	2-2/5 T " " " "
34'	Gambrel-2 story	4/5 T " " " "	2-2/5 T " " " "
36'	Gothic Arch-2 story	1-1/4 T " " " "	3-3/4 T " " " "
36'	Gambrel-2 story	1 T " " " "	3 T " " " "
36'	Gambrel-1-1/2 story	4/5 T " " " "	2-2/5 T " " " "
36'	Gable-1-1/2 story	1/3 T " " " "	1 T " " " "

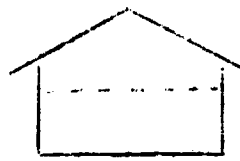
\*Floor joists and girders must be designed to carry this increased load. All posts, joists, and girders are designed for long hay. To carry full depth of baled or chopped hay, approximately triple strength of posts, girders, and joists.



Shed  
1 story



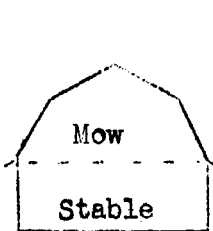
Gable  
1 story



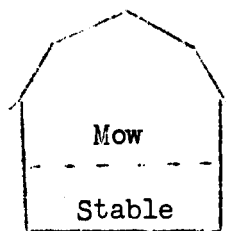
Gable  
1 1/2 story



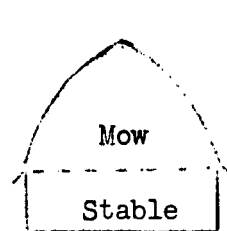
Hip  
1 story



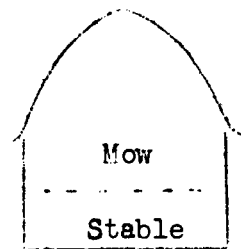
Gambrel  
1 1/2 story



Gambrel  
2 story



Gothic Arch  
1 1/2 story



Gothic Arch  
2 story

End-view Elevations of Typical Roof Types and Story Divisions

See Extension Bulletin #540 and FB #1751 for additional types and for recommended roof coverings.

<u>General Purpose Barns</u>	<u>Plan No.</u>	<u>No. of Sheets</u>
Shed roof, 1 story, wood frame construction, 2 double horse stalls, 4 cow stalls, easily added to, concrete floor and foundation - - - - -	18 x 32 2.12	2
Gable roof, 1½ stories, wood frame construction, 3 cow stalls, 2 horse stalls, concrete floor and foundation - - - - -	19 x 31 5021	1
Gambrel roof, 2 story barn, wood frame construction, 5 cow stalls, 2 horse stalls, machinery storage space, feed storage space, concrete floor and foundation - - - - -	20 x 32 2.10-3	3
Gambrel roof, 2 stories, wood frame construction, 2 cow stalls, 2 horse stalls, 1 box stall, storage space for machinery, holds 20 tons loose hay - - -	30 x 32 5454	5
Gambrel roof, 2 stories, wood frame construction, 12 cow stalls, face in, 2 horse stalls, calf pen, box stall, feed room, concrete floor and foundation-	30 x 46 2.10-7	2
Gambrel roof, 2 stories, wood frame construction, 4 cow stalls, 4 horse stalls, box stall, grain bin, feed room, concrete floor and foundation - - - -	32 x 36 5453	3
Gambrel roof, 2 stories, wood frame construction, 4 cow stalls, 3 horse stalls, box stall, feed storage, feed manger for loose cattle - - - - -	32 x 44 2.10-6	3
Gambrel roof, 2 stories, wood frame construction, 16 cow stalls, calf pen, feed room, 1 horse stall, concrete floor and foundation- - - - -	34 x 50 2.10-5	3

The cost of plans is 25 cents per sheet, plus an order charge of 35 cents for each order.

General Purpose Barns (Cont.)

The following barns may be obtained in the roof styles and the height as indicated, with miscellaneous floor plans for horses and cows and can be easily adjusted for a larger or smaller number either by enlarging or making the building smaller to conform with whatever size floor plan is desired.

	<u>Plan No.</u>	<u>No. of Sheets</u>
34 x 72		
Gothic arch roof, 2 stories - - - - -	5451 A	10
Gambrel roof, 2 stories - - - - -	5451 B	10
Gambrel roof, 1½ stories - - - - -	5451 C	10
Gable roof, 1½ stories - - - - -	5451 D	10
36 x 62		
Gothic arch roof, 2 stories - - - - -	5452 A	10
Gambrel roof, 2 stories - - - - -	5452 B	10
Gambrel roof, 1½ stories - - - - -	5452 C	10
Gable roof, 1½ stories - - - - -	5452 D	10
20 x (68 and 44)		
Cattle shed, 2 wings, L-shaped, 20 feet wide, could be built in a straight line, one side open - - - - -	5460	1

Mow capacities given in table on page 7

Milking Barns

18 x 64		
One string milking barn, gable roof, one story, milk room, wash room, clothes room, loafing barn lay-out concrete floor and foundation- - - - -	2.30-2	4
Two string milking barn, one story, milk houses, cows face out, concrete floor and foundation- - -	2.30-3	5
One string milking barn and milk house, one story, (L plan), gable roof 18 x 46, and 18 x 22 wing for milking house- - - - -	2.30-4	3
<u>Loafing Barns:</u> (See Beef Barns) 52 x 60, 2 stories- - - - -	2.05	1

The cost of plans is 25 cents per sheet, plus an order charge of 35 cents for each order.

Dairy Barns

The following dairy barns may be obtained in any style of roof, number of stories, with cows facing in or out, and with each plan a number of floor plans are included.

	<u>Plan No.</u>	<u>No. of Sheets</u>
34 Foot Barn - Face In		
Gothic arch roof, 2 stories - - - - -	5115 A	8
Gambrel roof, 2 stories - - - - -	5115 B	8
Gambrel roof, 1½ stories - - - - -	5115 C	8
Gable roof, 1½ stories- - - - -	5115 D	8
Gable roof, 1 story, flat ceiling - - - - -	5115 E	7
Gable roof, 1 story, sloped ceiling - - - - -	5115 F	7
34 Foot Barn - Face Out		
Gothic arch roof, 2 stories - - - - -	5116 A	8
Gambrel roof, 2 stories - - - - -	5116 B	8
Gambrel roof, 1½ stories - - - - -	5116 C	8
Gable roof, 1½ stories- - - - -	5116 D	8
Gable roof, 1 story, flat ceiling - - - - -	5116 E	7
Gable roof, 1 story, sloped ceiling - - - - -	5116 F	7
34 Foot Barn - 6 Different Layouts		
Gothic arch roof, 2 stories - - - - -	5117 A	9
Gambrel roof, 2 stories - - - - -	5117 B	9
Gambrel roof, 1½ stories - - - - -	5117 C	9
Gable roof, 1½ stories- - - - -	5117 D	9
Gable roof, 1 story, flat ceiling - - - - -	5117 E	8
Gable roof, 1 story, sloped ceiling - - - - -	5117 F	8
36 x 72 - Face In		
Gothic arch roof, 2 stories - - - - -	5111 A	8
Gambrel roof, 2 stories - - - - -	5111 B	8
Gambrel roof, 1½ stories - - - - -	5111 C	8
Gable roof, 1½ stories- - - - -	5111 D	8
Gable roof, 1 story, flat ceiling - - - - -	5111 E	7
Gable roof, 1 story, sloped ceiling - - - - -	5111 F	7
36 x 72 - Face Out		
Gothic arch roof, 2 stories - - - - -	5112 A	8
Gambrel roof, 2 stories - - - - -	5112 B	8
Gambrel roof, 1½ stories - - - - -	5112 C	8
Gable roof, 1½ stories- - - - -	5112 D	8
Gable roof, 1 story, flat ceiling - - - - -	5112 E	7
Gable roof, 1 story, sloped ceiling - - - - -	5112 F	7

The cost of plans is 25 cents per sheet, plus an order charge of 35 cents for each order.

Dairy Barns (Cont.)

Plan No.    No. of Sheets

36 Foot Barn - 6 Different Layouts		
Gothic arch roof, 2 stories - - - - -	5113 A	9
Gambrel roof, 2 stories - - - - -	5113 B	9
Gambrel roof, 1½ stories - - - - -	5113 C	9
Gable roof, 1½ stories- - - - -	5113 D	9
Gable roof, 1 story, flat ceiling - - - - -	5113 E	8
Gable roof, 1 story, sloped ceiling - - - - -	5113 F	8

36 Foot Barn - 5 Different Layouts		
Gothic arch roof, 2 stories - - - - -	5114 A	9
Gambrel roof, 2 stories - - - - -	5114 B	9
Gambrel roof, 1½ stories - - - - -	5114 C	9
Gable roof, 1½ stories- - - - -	5114 D	9
Gable roof, 1 story, flat ceiling - - - - -	5114 E	8
Gable roof, 1 story, sloped ceiling - - - - -	5114 F	8

36 Foot Barn - 3 Different Layouts		
Gothic arch roof, 2 stories - - - - -	5118 A	9
Gambrel roof, 2 stories - - - - -	5118 B	9
Gambrel roof, 1½ stories - - - - -	5118 C	9
Gable roof, 1½ stories - - - - -	5118 D	9
Gable roof, 1 story, flat ceiling - - - - -	5118 E	8
Gable roof, 1 story, sloped ceiling - - - - -	5118 F	8

36 x 132		
Gable roof, 1 story, wood frame construction, sloping ceiling, cows face out, milk house included, concrete floor and foundation - - - - -	2.30	3

Horse Barns

Mow capacities given in table on page 7

20 x 30		
Gable roof, 1. story, wood frame construction, 6 horse stalls, no feed storage- - - - -	2.33	1

Gable roof, low-cost post and girt construction, no hay, feed, or bedding storage - - - - -	5455	1
---	------	---

28 x 36		
Hip roof, wood frame construction, 5 horse stalls, tools and saddle storage, some storage provided for feed and hay, concrete floor and foundation, with plank over-lay in stalls - - - - -	2.32	3

36 x 58		
Gambrel roof, 2 stories, wood frame construction, 16 horse stalls, box stall, feed room- - - - -	2.31	3

The cost of plans is 25 cents per sheet, plus an order charge of 35 cents for each order.

Horse Barns (Cont.)

The following plans have five different layouts for a 36-foot width barn. Plans are available to provide for framing the barn in one of four ways. They are available in 1½ or 2 stories.

	<u>Plan No.</u>	<u>No. of Sheets</u>
36 Foot Barn - 5 Different Layouts		
Gothic roof, 2 stories - - - - -	5110 A	8
Gambrel roof, 2 stories- - - - -	5110 B	8
Gambrel roof, 1½ stories - - - - -	5110 C	8
Gable roof, 1½ stories - - - - -	5110 D	8
22 x 34		
Riding horse barn, 1 story, gable roof, wood frame construction, 2 box stalls, feed room, tack room, no hay storage provided - - - - -	5456	2

Beef Barns

Mow capacities given in table on page 7

10 x 40 and 10 x 60		
L-shaped calving barn, shed roof, 1 story, inexpensive type of maternity barn with rear corner near the directions of prevailing winds. Build any size desired - - -	5461	1
20 x 68 and 20 x 44		
L-shaped cattle shed, gable roof, wood frame construction, shelter for feed lot or range feeding, also dry cows or young stock, closed sides serve as a wind break. Doors in rear permit filling mangers from truck - - -	5460	1
36 x 48		
Gambrel roof, 2 stories, wood frame construction, houses loose cattle with center manger. May be used as shed or as storage part of year. Floor plan shows feed room and silo. Capacity - 34 steers and 50 tons of hay -	2.41	3
52 x 72		
Gable roof, 1½ stories, wood frame construction, capacity - 28 head loose cattle, 6 box stalls, 85 tons of loose hay, grain bin, hay stored to ground level- - -	5265	3

The cost of plans is 25 cents per sheet, plus an order charge of 35 cents for each order.

<u>Bull Barns</u>	<u>Plan No.</u>	<u>No. of Sheets</u>
12 x 18		
Gable roof, 1 story, wood frame construction, type of floor optional - - - - -	2.51	1
16 x 32		
Bull barn and lots, gable roof, designed for two bulls - - - - -	5462	2

GENERAL CONSTRUCTION PLANS

Stanchion Details

Steel cow stanchions show sections for concrete floor, wooden floor, or cork-brick floor construction - -	2.011	1
Wood stanchions for cows and calves- - - - -	2.012	1

Gambrel Roof Details

Iowa truss, gambrel for 32, 34, 36 foot width barn -	2.021	1
Shawver truss, gambrel for 32, 34, 36 foot width barn-	2.002	1
Trussed rafter, gambrel, 24 foot span - - - - -	2.029	1
Trussed rafter, gambrel, 42 foot span - - - - -	2.028	1

Gothic Arch Rafter Details

Bent rafter type for 32, 34, 36 foot width barns - -	2.023	1
Oregon arch sawed type for 32, 34, 36 foot width barn-	2.024	1
Oregon arch rafter detail, 20 foot span - - - - -	2.026	1

LIST OF PLANS FOR OTHER FARM BUILDINGS

Hog Houses

8 x 8		
Individual modified "A" type, built on skids - - - -	5478	1
Portable "A" type, built on skids, removable floor - -	5477	1
Oregon portable hog house - - - - -	2.64	1
8 x 16		
Farrowing house, 2 pens, shed roof, 2 8 x 8 concrete yards- - - - -	5480	3
9 x 12		
Gable roof, may be used as farrowing house or range shelter - - - - -	5479	1

The cost of plans is 25 cents per sheet, plus an order charge of 35 cents for each order.



Hog Houses (Cont.)

Plan No.    No. of Sheets

	20 x 42		
Farrowing house, gable roof, concrete floor and foundation, removable partitions, walls may be of concrete block, masonry, or wood frame construction-		5476	1
	24 x 36		
Gable roof, 1 story, concrete floor and foundation pens 8 x 10 - - - - -		2.63	3
	36 x 74		
Gable roof, "T" shape, 1 story pen house, 2 story building at end for bedding, feed, office or herdsman's room. Designed for large hog ranches. Concrete floor and foundation - - - - -		5481	4

Sheep Sheds

	12 x 76		
Lambing shed, gable roof, removable pens - - - - -		5472	1
	16 x 24		
Gable roof, 1 story, walls through center feed rack -		5019	1
Shed roof, open front - - - - -		5025	1
	20 x 60		
Lambing shed, hip roof, lambing pens and hold pens- -		2.72	2
Lambing shed, hip roof, bunk for watchman, removable pens - - - - -		2.73	1
	20 x 80 and 80		
L-shaped shed, open front - - - - -		2.75	2
	22 x 42		
Combination gable roof, open front - - - - -		2.71	2
	26 x 104		
Sheep barn, gable roof, 2 stories central part, two 1 story wings. Each wing has 34 lambing pens 4 x 4 with removable pens. Central part has 24 pens, feed room, and shepherd's room. Mow holds 20 tons of hay- - - - -		5471	2
	28 x 60		
Shearing shed - - - - -		2.74	3
	68 x 96		
Night dropping shed, combination gable and shed roof -		5473	1

The cost of plans is 25 cents per sheet, plus an order charge of 35 cents for each order.

<u>Poultry Houses</u>	<u>Plan No.</u>	<u>No. of Sheets</u>
Poultry range house, gable roof - - - - - 8 x 10	2.85	1
Home unit poultry house- - - - - 8 x 12	2.86	1
Two-story house, gable roof, six pens, capacity 800 to 1,000 birds, attic feed storage - - - - - 24 x 72	5133	5
Two-story house, gable roof, pens 20 x 26 - - - - - 26 x 100	2.81	4
Commercial laying house, 500-hen unit - - - - - 24 x 70	2.87	3
Summer range shelter - - - - -	5400	1

BUILDINGS FOR HOUSING EQUIPMENT AND SUPPLIES

Machinery Sheds

Implement shed and shop, gable roof- - - - - 18 x 46	3.12	1
Machinery shed, gable roof- - - - -	3.11	2
Implement shed and shop, gable roof, shop size 12 x 20 - - - - - 20 x 48	5338	1
Implement shed, gable roof, open front - - - - - 20 x 60	5495	1
Implement shed and shop, gable roof, shop is 14 x 26- - - - - 26 x 80	5341	3
Machinery shed and shop, hip roof, shop 16 x 20 - - - - - 30 x 98	3.16	2

Farm Shops

Gable roof, 1 story - - - - - 24 x 30	5146	1
Farm shop and garage, gable roof, used as garage or shop or both - - - - - 18 x 24	3.13	2
Workshop and garage, gable roof, used as garage or shop or both - - - - -	3.13a	1
Homemade wood work bench - - - - -	5498	1

The cost of plans is 25 cents per sheet, plus an order charge of 35 cents for each order.



BUILDINGS FOR FARM PRODUCTS

<u>Hay Sheds</u>	<u>Plan No.</u>	<u>No. of Sheets</u>
24 x 48 x 19' post Gable roof - - - - -	4.12	1
24 x 60 x 20' post Gable roof - - - - -	4.11	1
<u>Granaries</u>		
Round granary, 16' diameter, 1500 bushels - - - -	4.26	1
10 x 10 Movable, 500 bushels, gable roof- - - - -	4.17	1
12 x 14 Movable, 1000 bushels, gable roof - - - - -	4.18	1
14 x 24 4 bins, 1800 bushels, gable roof- - - - -	4.16	1
4 bins, 1800 bushels, gable roof- - - - -	5528	1
Gable roof, 1800 bushels - - - - -	4.23	1
31 x 32 Gable roof, 6400 bushels - - - - -	4.19	1
Gable roof, 4 lower bins, 2 upper bins, 6400 bushels -	5529	1
Storage shed - semicircular - adapted for movable bins	5145	2
27 x 32 Combination crib and granary, 900 bushels ear corn, 2000 bushels small grain- - - - -	5535	1
<u>Grain Elevators (Storage)</u>		
30 x 31 Gable roof, 10,000 bushels- - - - -	4.22	3
30 x 30 10,000 bushels, 9 bins - - - - -	5325	3
30 x 30 Crib construction, 10,000 bushels, 10 bins - - - -	5532	3
14 x 28 x 36 2 bins, 11,000 to 11,500 bushels, gable roof- - - -	4.20	2

The cost of plans is 25 cents per sheet, plus an order charge of 35 cents for each order.

<u>Grain Elevators (Storage) (Cont.)</u>	<u>Plan No.</u>	<u>No. of Sheets</u>
Crib construction, 11,000 to 11,500 bushels - - - - 16 x 31	5093	2
Stationary grain elevator (Conveyor) - - - - -	5.44	1
<u>Corn Cribs</u>		
700 bushels, shed roof - - - - - 6 x 32	5533	1
Gable roof, double cribs, each 8 x 32 x 10' high - - 28 x 32	4.24	1
Gable roof - - - - - 4½ x 20 x 8 high	4.25	1
Combination crib and granary, 900 bushels ear corn, 2,000 bushels small grain - - - - - 27 x 32	5535	1
<u>Potato Houses</u>		
Above-ground house, 600 bushels - - - - - 12 x 16	5492	1
Above-ground house - - - - - 18 x 28 x 5'6" high	5493	1
Potato cellar, dugout type- - - - - 36 x 48 (variable depth)	5504	1
Root cellar, log construction- - - - - 16 x 20	5491	1
Root cellar, concrete - - - - - 10 x 11	5330	1
Potato cellar, (typical Klamath County potato cellar)- 46 x 99	4.33	2
<u>Fruit and Vegetable Storages</u>		
Apple storage house, gable roof - - - - - 16 x 24	4.31	3
Fruit and vegetable storage, underground - - - - - 20 x 36	4.32	2

The cost of plans is 25 cents per sheet, plus an order charge of 35 cents for each order.

BUILDINGS FOR MANUFACTURING AND PROCESSING

<u>Smokehouses</u>	<u>Plan No.</u>	<u>No. of Sheets</u>
		6 x 8
Frame construction, gable roof - - - - -	5.11	1
Frame construction, gable roof - - - - -	5.13	1
Frame construction- - - - -	5029	1
		8 x 10
Masonry construction - - - - -	5.12	1

Milk House Equipment

Pipe milk can rack - - - - -	5.211	1
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Milk Houses for "Fluid" Shipper Producer

Grades A & B Raw

		10 x 12
Gable roof, frame construction - - - - -	5.24 Revised	1
*Gable roof (low cost)- - - - -	5.20 to be Revised	1

\*For use by small cream producers, but not for Grade A or B market milk.

		11 x 13
Gable roof, concrete building units - - - - -	5.21 Revised	1

Milk Houses for Producer Distributor

Grade A & B Raw Bottled & Refrigerated

		Approximately 10 x 20
2 room, gable roof - - - - -	5.25 Revised	1

		14 x 36
3 room, milk house, boiler, wash & milk rooms - - -	5.26 to be Revised	2

		12 x 22 and 6 x 6
3 room milk house, milk room, cold room, and wash room are planned in 8 x 12 area. Steps and dumping platform should be enclosed and roofed to conform to sanitary regulations- - - - -	5503	2

Milk House for "Factory" Producer but Not For Grade A or B Market Milk

		10 x 12
Gable roof (low cost), concrete floor, frame wall and roof - - - - -	5.20 Revised	1

Also see Milking Barns, page 9.

The cost of plans is 25 cents per sheet, plus an order charge of 35 cents for each order.

<u>Incinerator</u>	<u>Plan No.</u>	<u>No. of Sheets</u>
Animal - - - - -	5.14	1

Nut Driers

Walnut-filbert drier, hip roof, 12 x 32 4,000 pounds per batch, maximum output 1 ton per 24 hours, oil furnace - - - - -	5.32	3
500-pound nut drier per load (30 - 40 hours) - - - 20 x 32	5.37	1

Other walnut and filbert dehydrator plans may be secured by writing to the Extension Agricultural Engineer, Agricultural Engineering Department, Oregon State College, Corvallis.

Corn Driers

Corn drier plans may be secured by writing to the Extension Agricultural Engineer, Agricultural Engineering Department, Oregon State College, Corvallis.

Potato Washers

Flood type- - - - -	5.61	1
Spray type- - - - -	5.62	1
Spray type with soaking tank- - - - -	5.64	1
Spray type with soaking tank and recirculating system	5.65	1
Cylinder type- - - - -	5.66	1

STRUCTURAL EQUIPMENT

Refrigeration

Refrigerator, side-icer, small walk-in type- - - -	5027	1
Evaporator cooler - - - - -	5511	1
Mechanical refrigerator, 80 cubic feet, semi-walk-in type - - - - -	5513	4
Dairy cold box, 5 sizes of boxes included in plan, size of mechanical equipment given - - - - -	5514	3
15 cubic foot farm freezer, top opening - one compartment. Fill or bat type insulation- - - - - 29 x 72	5.50	2
20 cubic foot farm freezer, top opening - one compartment. Fill or bat type insulation- - - - - 29 x 96	5.51	2

The cost of plans is 25 cents per sheet, plus an order charge of 35 cents for each order.

Refrigeration (Cont.)

Plan No.    No. of Sheets

	7 x 9 or 7 x 11	
174 to 244 cubic feet walk-in freezer, 130 to 200 cubic feet 35° F. room, 44 cubic feet 0° F. room. Shaving used for insulation - - - - -	- 5.52	5
	5'11" x 7'7" or 5'11" x 9'7"	
196 to 260 cubic feet walk-in freezer, 140 to 210 cubic feet 35° F. room, 56 cubic feet 0° F. room. Bat type insulation - - - - -	- 5.53	5
	8' x 10'3" x 8' x 11'7"	
380 to 445 cubic feet walk-in freezer, 200 to 285 cubic feet 35° F. room, 160 cubic feet 0° F. room. Bat type insulation - - - - -	- 5.54	5

Water Supply

Pumphouse 8' x 10' - - - - -	- 7.34	1
Water barrel (90 gallon) on sled - - - - -	- 7.11	1
Fireproof pump house - 14 x 14 - - - - -	- 7.32	1
Layout of complete hot and cold water system - - - - -	- 5518	1
Simple water system - sink pump- - - - -	- 5515	1
Simple water system - engine tank - - - - -	- 5516	1
Simple water system - hot water in kitchen - - - - -	- 5517	1
Simple water system - pneumatic- - - - -	- 5519	1
Open water tower - 3000 gallons- - - - -	- 5520	1
Closed water tower - 3000 gallons - - - - -	- 5521	1
Diversion works for gravity water systems - - - - -	- 7.33	1

LIVESTOCK EQUIPMENT AND CONVENIENCES

Breeding Crates

Cattle breeding crate - - - - -	- 6.31	1
Hog breeding crate - - - - -	- 6.32	1

The cost of plans is 25 cents per sheet, plus an order charge of 35 cents for each order.



<u>Cattle Feeders</u>	<u>Plan No.</u>	<u>No. of Sheets</u>
Cattle bunk - - - - - 4 x 12	6.11	1
Cattle self-feeder, grain, gable roof - - - - - 5 x 17	6.12	1
Cattle self-feeder, chopped hay - - - - - 6 x 16	6.121	1
Cattle feeder, long hay - - - - - 10 x 16	6.131	1
Hay feeding rack, drive through - - - - - 15 x 8	6.13	1
Cattle hayrack, V opening, movable - - - - -	5463	1
<u>Cattle Guards</u>		
Wood - - - - -	5468	1
Concrete and wood - - - - -	5469	1
Concrete and steel- - - - -	5470	1
Cattle guard (Concrete and steel)- - - - -	6.66	1
<u>Creeps</u>		
Calf creep - - - - -	5466	1
<u>Chutes</u>		
Cattle stocks - - - - -	5066	1
Dehorning chute- - - - -	6.62	1
Truck loading chute - - - - -	6.63	1
Modified Nevada type chute - - - - -	6.64	1
Chute and corral, Oliver plan - - - - -	6.65	3
Movable hog loading chute - - - - -	5388	1
Nevada type chute - - - - -	5465	1
<u>Dipping Vats</u>		
Sheep vat, concrete - - - - -	6.22	1
<u>Farm Fence</u>		
Portable livestock panel for hogs and sheep (4-H) - - - - -	6.8	1
Portable livestock panel for cattle (4-H) - - - - -	6.81	1

The cost of plans is 25 cents per sheet, plus an order charge of 35 cents for each order.

<u>Farm Gates</u>	<u>Plan No.</u>	<u>No. of Sheets</u>
Automatic gate - - - - -	5467	1
Several types farm gates- - - - -	5505	1
 <u>Hog Feeders</u>		
Hog self-feeder, portable - - - - - 2'4" x 3'7"	6.17	1
Hog self-feeder, portable - - - - - 5 x 10	6.16	1
Hog self-feeder, two way, gable roof- - - - - 4 x 6	6.14	1
Hog self-feeder, 12 pig size, protein supplement feeder - - - - -	5482	1
Hog self-feeder, 30 to 40 hogs, portable - - - - -	5483	1
Hog self-feeder, portable, large capacity, protein supplement feeder - - - - - 10 x 10 x 8 high	5484	1
<u>Hog Scalding Equipment</u> - - - - -	5063	1
<u>Scale and Corral Layout</u> - - - - -	6.61	1
 <u>Sheep Feeders</u>		
Range sheep feeder, 18 tons of hay- - - - - 25 x 48	5474	1
Sheep feeder (long hay) - - - - - 2'10" x 16'	6.15	1
Sheep feeding trough, chopped hay and grain- - - - - 3 x 16	6.18	1
<u>Silage Rack (Low-Down)</u> - - - - -	6.41	1

MACHINERY AND EQUIPMENT

Haying Equipment

Buckrake, two-way drag (horse drawn) - - - - -	8.07	1
Buckrake, truck - - - - -	8.09	2

The cost of plans is 25 cents per sheet, plus an order charge of 35 cents for each order.

MACHINERY AND EQUIPMENT (CONT.)

<u>Haying Equipment (Cont.)</u>	<u>Plan No.</u>	<u>No. of Sheets</u>
Hay derrick - - - - -	5523	2
Hay stacker, Mormon - - - - -	5522	2
Hay stacker, slide (Sam Ross type) - - - - -	8.10	2
Overshot stacker - - - - -	8.08	2

Dusting Equipment

Pea weevil and aphid duster- - - - -	5.70	3
Pea weevil and aphid duster (Oregon-type hood duster) - - - - -	5.71	1
Pea weevil and aphid duster (boom type)- - - - -	5.72	1

Miscellaneous

Cone feed mixer- - - - -	8.12	1
Stationary grain elevator (bucket type)- - - - -	5.44	1
Water wheel, 16-foot overshot - - - - -	8.13	2
Playground layouts- - - - -	5183	1
Merry-go-round for playground - - - - -	8.21	1

MISCELLANEOUS FARM SHOP PLANS

Sheets Size: 8-1/2 x 11 inches, unless otherwise noted.

Price of blueprints, 8 cents each for less than 10; ten or more 5 cents each, post-paid unless otherwise noted.

<u>No.</u>	<u>Title</u>	<u>No.</u>	<u>Title</u>
AE-1	Poultry Mash Feeder, with Stand.	AE-19	Inclined Single Stroke, Gothic Lettering.
AE-2	Farm Tool and Nail Box.	AE-23	Tool Cabinet with Vertical Sliding Door.
AE-3	Sawhorse.	AE-24	Tool Cabinet - With Hinged Doors.
AE-4	Carpenter Tool Cabinet.	AE-25	Concrete Tester - for determining breaking strength of 2" x 2" x 12" test bars.
AE-5	A-Type Hog House.		
AE-6	Barrel Holder.		

The cost of plans is 25 cents per sheet, plus an order charge of 35 cents for each order.

<u>No.</u>	<u>Title</u>	<u>No.</u>	<u>Title</u>
AE-7	Dry Mash Hoppers.	AE-26	Saw Filing Vise.
AE-8	Hinged Lambing Panels.	AE-27	Playground Equipment. Merry-go-round. 11" x 17".
AE-9	Gate Hinge.	AE-28	Playground Equipment. Giant Stride.
AE-10	Welded Clevis.	AE-29	Playground Equipment. Swings.
AE-11	Common Forge Tools.	AE-30	Wheelbarrow.
AE-12	Door Pull.	AE-31	Trailer with Built-in Scales. 11" x 17". Price 25 cents.
AE-13	Rings	AE-32	General Purpose Trailer. 11" x 17".
AE-14	Gate Hook.	AE-33	Tank Holder and Milk Stool.
AE-15	Chain Making.	AE-34	Wooden Drag.
AE-16	Swivel.	AE-35	Common and Extension Ladders.
AE-17	Round Nose Chisel	AE-36	Weeder.
AE-18	Poultry Mash Feeder, with Stand (new type).	AE-37	Magazine Rack.
		AE-38	Stock Trailer, 11" x 17".
		AE-39	Rivet Container.
		AE-40	Light Shade.
		AE-41	Playground Slide, 11" x 17".

The cost of a structure depends on many factors, such as local prices of materials, amount of material and labor to be supplied by the farm, and whether the work is to be on the day labor basis, on the basis of cost of material and labor plus a certain bonus, or by contract. The most accurate method of determining the cost is to submit the plans and specifications to two or three local builders and obtain written bids for which they will erect the structure complete.

Revised plans incorporating the use of concrete block and steel "Quonset type" construction are now being prepared for some of the plans listed. Anyone interested may obtain details by writing to the Extension Agricultural Engineer.