FARM BUILDING PLANS

Adopted by EXTENSION SERVICE

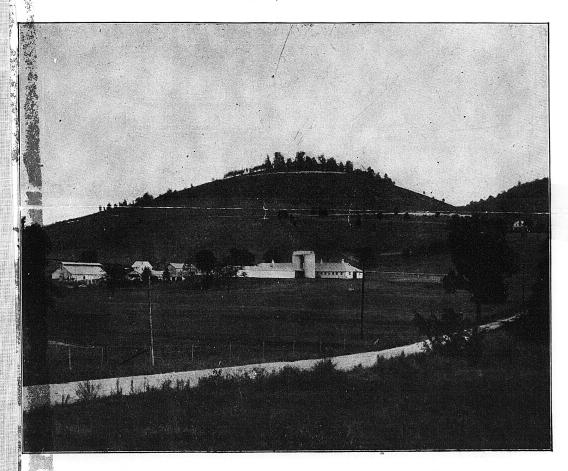
EXTENSION SERVICE

ALABAMA POLYTECHNIC INSTITUTE

BRADFORD KNAPP, President

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Prepared by
Department of Agricultural Engineering
AUBURN, ALABAMA



Cooperative Extension Work in Agriculture and Home Economics, The Alabama Polytechnic Institute and the United States Department of Agriculture Cooperating—Acts of May Eighth and June Thirtieth, Nineteen Hundred Fourteen

Foreword

THE VALUE of all farm buildings in Alabama is scarcely over \$106,-000,000 while the total value of farm buildings over the entire country is \$11,000,000,000, leaving Alabama with a total investment in farm buildings of about 50 per cent of the average value for the entire country.

While on the other hand the value of farm products in Alabama for 1925 was \$181,000,000 and the total value of all farm products for the entire country was \$12,404,000,000, making Alabama's total income from farm products near 75 per cent of the average value received by other states. With these figures in mind we feel that Alabama has an income sufficient to demand better farm homes and other buildings.

If the losses due to poor farm buildings could be tabulated we would find that the total would be staggering. In "Farm Buildings" by Foster and Carter, we find this statement: "The loss in depreciation of farm machinery due to lack of proper housing is at least 100 million dollars each year. Two hundred million more are lost from feeding rodents from the food storage houses of the country. Milk production from our 20 million dairy cows would be increased by several million pounds per day if all the cows were housed under modern conditions. We are paying for good buildings whether we have them or not."

In our continued effort to furnish the plans in the following list we hope it is your privilege to receive some benefit from the service we are trying to give you and the State of Alabama.

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DWELLINGS

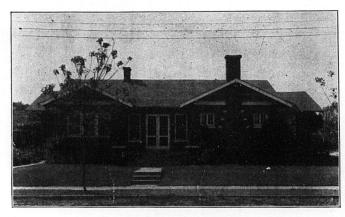
Three and Four Room Houses



The Auburn Practice Home

- A-101 4 room house, bungalow type, 1 story, living and dining room combined, 2 bed rooms, kitchen and bath.
- A-102 4 room house, bungalow type, 1 story, living and dining room combined, bed room, kitchen and bath.
- A-103 4 room house, bungalow type, 1 story, living and dining room combined, 2 bed rooms, bath, kitchen and hall.

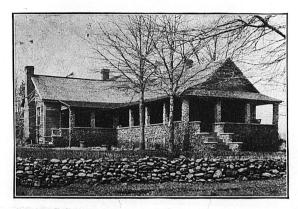
Five and Six Room Houses



A Cullman County Home

- B-104 6 room, English Colonial house, 2 story, living room, dining room, kitchen, living and sun porch on first floor, 3 bed rooms and bath on second floor. Basement.
- B-106 6 room house, bungalow type, 1 story, basement and rooms in attic may be added. Living room, dining room, 2 bed rooms, kitchen bath, breakfast room—work room, or sleeping porch. A model on this plan was used at Alabama state fairs.
- B-108 5 room house, 1 story, boxed cornices, decked roof, living and dining rooms. 2 bed rooms, kitchen and bath, screened side-porch. Basement and rooms in attic may be added.
- B-111 5 room house, 1 story, bungalow type, living room dining room, 2 bed rooms kitchen and bath, small front porch.
- B-112 5 room Colonial house, living room, dining room, kitchen, 2 bed rooms, bath and cellar.

Seven and Eight Room Houses



This Farmer Added Life to His Home by Remodeling

- C-115 8 room—2 story Colonial house, living room, library, dining room, kitchen, sun parlor on first floor, 4 bed rooms and bath on second floor.
- C-114 Remodeled Colonial 8 room 2 story house. Living room, dining room, sun parlor and kitchen, first floor, 4 bed rooms and bath second floor.
- C-105 8 room Colonial, living room, dining room, kitchen and sun parlor on first floor, 3 bedrooms, bath and sleeping porch on second floor, large porches.
- C-107 7 room bungalow, 3 bedrooms, living room, dining room, kitchen and bath. Also work room, basement and attic may be added.
- C-109 7 room—2 story house, living room, dining room and kitchen on first floor, 4 bed rooms and bath on second floor. Basement.
- C-110 Plans for remodeling an old type Colonial farm house. Main house has 2 rooms on either side of hall, with ell behind. One or two stories.
- C-116 2 story house, 7 rooms, bath and work porch.
- C-113 7 room house, living room, dining room, kitchen, sun parlor, bath and 3 bed rooms.

BARNS AND SILOS

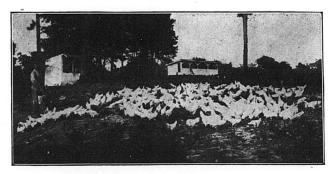
General Purpose Barns



An Auburn Plan Barn

- 28-2-E G. P. barn; 12 horses; 12 cows; Gothic roof (Gambrell roof) 86-2-E Beef cattle barn
- 83-1-E G. P. barn; 4 horses; 8 cows
- 9-1-E Cross section, 1 story
- 30-1-E G. P. barn; 12 horses; 20 cows (Gambrell roof)
- 26-4-E Horse and cattle barn (Gambrell roof)
- 55-1-E Small barn—3 horses; 2 cows. Sable roof.
- 82-1-E 6 Horses; 10 Cows and Feed Room (Gambrell Roof) 84-1-E Framing details for 28 ft.
- 11-1-E Framing details for 34 ft.
- 12-1-E Framing details for 32 ft.
- 14-1-E Framing details for 36 ft.
- 20-2-E Sheep barn 5-1-E Wood hoop silo
- 48-1-E Capacity of silos (table)

Swine and Poultry



Good Buildings Promote Healthy Poultry

Poultry Houses

- 42-1-D Brooder house (portable Ala. Standard)
- 69-1-D Trap nest (Ala. Standard)
- 74-1-D Dry mash hopper (open Ala. Standard)
- 44-1-D Continuous brooder house
- 14-1-D Continuous poultry house

Hog Houses

- 1-1-D Ala. type hog house (portable)
- 2-1-D Hog dipping vat 7-1-D Miss. individual hog house 8-1-D Miss. modified hog house
- 36-1-D Colony hog house
- 4-1-D Miss. hog self-feeder
- 32-2-D Hog breeder rack

Dairy Barns

40-1-E 30 cow dairy barn

39-1-E 20 cow dairy barn

15-1-E Alternate cross section 1 story dairy barn

17-2-E 10 cow dairy shed

15-2-E Continuous dairy barn (12 cows and multiples of 12 cows)

24-1-E Lean-to dairy shed (6 cows)

A2-1-E Night barn and hay storage for 25-50 cows.

Milk and Ice Houses

Ice House

29-1-F Ice house for storing ice

Milk Houses

16-3-F Milk house—room and boiler room18-3-F Milk House—wash room, milk room and boiler room

Storing and Curing Houses

25-1-G Meat house, slaughtering, refrigerating and curing

23-1-G Weevil-proof corn crib

31-1-G 5,000 bu. sweet potato house

85-1-G Canning house

49-1-G 500 bu. sweet potato house

72-1-G Hay shed

73-1-G Addition to hay shed

Community Houses

41-2-J Community house

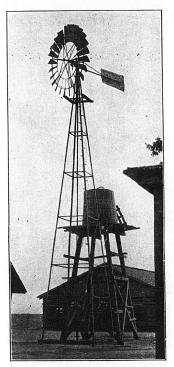
45-2-J Club house

47-1-J Log Club House-20' x 20' with kitchen and porch

82-a-J Band stand and rest room

WATERWORKS AND SEWAGE DISPOSAL

Equipment

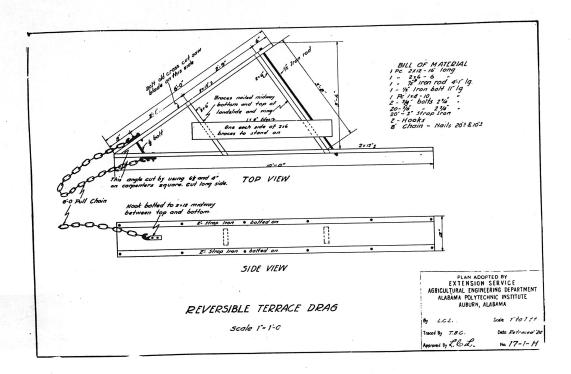


Typical Windmill Installation

- 37-1-DE Sanitary toilet
- 64-1-DE Single chamber septic tank
- 38-1-DE Two chamber septic tank
- 44-1-DE Siphon septic tank (2 chamber)
- 69-1-DE Barn ventilating system
- 78-1-DE Hand water supply system (pitcher pump)
- 53-1-DE Barrel water supply system (Hand pump and barrel)
- 52-1-DE Barrel water supply system—hot and cold water (hand pump)

- 71-1-DE Concrete well or pump house
- 58-1-DE Layout for deep well hydro-pneumatic system (electric motor)
- 59-1-DE Layout for shallow well, Hydro-pneumatic system (electric motor)
- 81-1-DE Layout for gravity water system (gas engine)
- 77-1-DE Typical ram installation
- 76-1-DE Layout for tile sewage disposal system
- 25-1-DE Grease trap for tile sewage-disposal system

Farm Conveniences



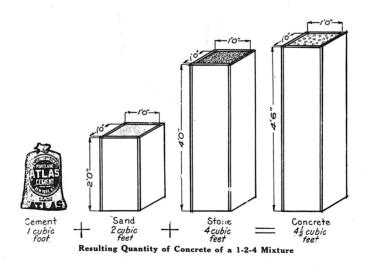
- 62-1-H Hurdle for driving hogs
- 63-1-H Cross section of hay racks
- 47-1-H Crimson clover stripper
- 17-1-H Reversible terrace drag
- 33-1-H Split-log road drag
- 56-1-H Concrete fence post
- 66-1-H Wagon rack
- 50-1-H Wooden stall and stancion
- 60-1-H Unloading chute for cattle
- 80-1-H Shop forge
- 35-1-H Farm gates
- 65-1-H Concrete feeding floor for hogs and concrete hog trough
- 45-2-H Cattle stock
- 67-1-H Water gates

- 61-1-H Hog turn
- 70-1-H Hay curing rack
- 13-2-H Farm repair shop and machinery shed
- 54-1-H Lespedeza seed pan
- 75-1-H Farm shop, garage and machinery shed
- 57-1-H Small car garage
- 59-2-H Grading pens
- 81-1-H Soda Crusher
- 83-1-H Vertical distance between terraces on different slopes. Also fall in inches per 100 feet. Variable grade terrace
- 85-1-H Cold frame or hot bed
- 12-1-H Small hand hay press
- 87-1-H Snaking hoist for Ford or other farm truck

Home Conveniences

- 14-1-H Model kitchen layout
- 21-1-H Porch swing
- 22-1-H Ironing board
- 23-1-H A roughage feed rack
- 24-1-H Kitchen cabinet
- 20-1-H Barrel baby crib
- 58-1-H Bulletin rack
- 62-1-H Kiddie Koop (folding)
- 64-1-H Students' and farmers' desk
- 66-1-H China cabinet (portable)
- 68-1-H Convenient kitchen plan. Built-in kitchen cabinet. Plain kitchen table. Towel rack.

Miscellaneous Information About Concrete Mixtures



Quality of materials, quantity of materials and other information about farm structures may be obtained by writing the Agricultural Engineering Department, Alabama Polytechnic Institute, Auburn, Alabama.

VALUABLE BULLETINS

For Free Distribution

Bulletins on various farm structures that may be secured from this office, your Home Demonstration Agent, County Agent, or by writing the office of publication U. S. Department of Agriculture, Washington, D. C.

D. C.	
Farmsteads and Commun	nity Buildings
Planning the Farmstead	Farmers Bulletin No. 1132
Plans of Rural Community Buildings	Farmers Bulletin No. 1173
Use of Rural Community Buildings	Farmers Bulletin No. 1274
Painting and Preserving	Farm Timbers
Painting on the Farm	Farmers Bulletin No. 1452
Barns and Sil	os
Beef Cattle Barns	Farmers Bulletin No. 1350
Equipment for farm sheep raising	Farmers Bulletin No. 810
A Simple Hog Breeding Crate	Farmers Bulletin No. 966
Homemade Silos	Farmers Bulletin No. 855
Poultry and Hog	
	Farmers Bulletin No. 574
Poultry House Construction	Farmers Bulletin No. 1554
Poultry Houses and Fixtures	
Brood Coops and Appliances	Farmers Bulletin No. 1107
Back Yard Poultry Keeping	Farmers Bulletin No. 889
Hog Houses	Farmers Bulletin No. 438
Water Works and Sew	age Disposal
	Alabama Polytechnic Institute
	Alabama Polytechnic Institute
Simple Plumbing Repairs	Farmers Bulletin No. 1460
Installing Modern Plumbing	Sears Roebuck and Company
Farmstead Water Supply	Farmers Bulletin No. 1448
Farm Plumbing	Farmers Bulletin No. 1426
Water Systems for Farm Homes	Farmers Bulletin No. 941
Water-Supply, Plumbing and Sewage	
Water-Supply, Plumbing and Sewage Disposal	Farmers Bulletin No. 57
Disposal Sewage and Sewerage of Farm Homes	Farmers Bulletin No. 1227
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