

GAMBREL ROOF DAIRY BARN

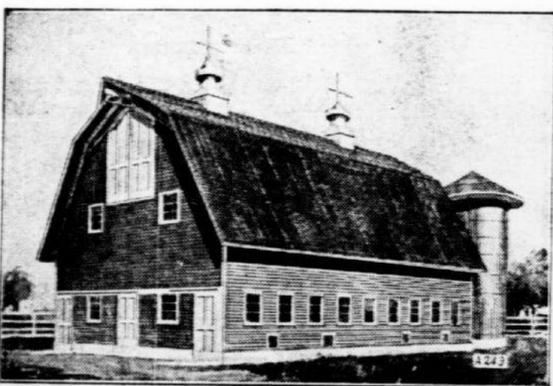
Will Provide Ample Accommodation for the Stabling of Thirty Cows.

GOOD CIRCULATION OF AIR

Ventilation is Admitted to Be an Important Matter in the Stabling of Animals - Details May Be Worked Out to Suit Ideas of Individuals.

By WILLIAM A. RADFORD. Mr. William A. Radford will answer questions and give advice FREE OF CHARGE on all subjects pertaining to the subject of building work on the farm...

A standard dairy barn is illustrated in this perspective and floor plan. It is thoroughly well built from the bottom of the foundation to the ventilators on the peak.



Gambrel Roof Dairy Barn With Large Storage Mow.

and have ample footings to prevent settling. Width of building is 36 feet and the length is 60 feet. Thirty-six feet wide works out about right in placing the cows, and leaves room to milk by machinery.

The length, 60 feet, is sufficient to provide stall room for 30 cows, allowing 3 1/2 feet for each cow with passageways at each end of the stable. Thirty cows is a fair-sized dairy, as farmers usually conduct a dairy business in connection with diversified farming.

There is another floor plan which provides stable room for 22 cows, besides making a horse stable in one end. This combination horse stable and cow stable is not recommended, except as a temporary provision to stable a half-dozen horses until a separate horse stable can be provided.

In laying the foundation for a barn like this the outside wall usually is made of concrete and is carried up 12 or 18 inches above the level of the ground.

A cow stable floor should be at least a foot above the barnyard. The center settles after the floor is laid. It is customary to make cow stable ceilings a little higher than formerly because of the labor-saving stable machinery that is now being adopted.

A concrete stable floor is made level endwise of the building, crosswise, it varies, to give the necessary slant to the standing floor and the drop for the gutters, also the floor behind the cows slopes forward slightly to drain into the gutters.

The bottoms of the mangers, the front of the standing floor, and the door between the mangers usually are made the same height. The mangers may or may not have fronts that project up to keep the feed in where the cows can easily reach it.

There are a few arbitrary rules in regard to building dairy stables that we cannot go away from, but unimportant details may be easily modified to suit each farmer's preference for doing work in certain ways.

Every well-built dairy stable has a concrete floor. The top surface of the floor is waterproofed in some way to provide easy cleaning and to preserve the liquid manure.

Also the question of ventilation has been thoroughly thrashed out. Professor King of the University of Wisconsin worked for years to spread ventilation information among dairy farmers that would induce them to change the air in dairy stables, to provide fresh air as often as needed.

This plan provides for four ventilating flues in the sides of the stables. These flues follow the slope of the roof and terminate in metal ventilators perched on the peak.

These exhaust flues which take the foul air from near the floor at the sides of the stable behind the cows and carry it up, chimney fashion, and discharge it into the atmosphere.

Fresh air is supplied by means of air ducts that enter the sides of the stable from the outside as shown in the illustration. These air ducts are built in the wall so that they extend up near the ceiling and discharge the air over the cows.

Circulation of air in a stable depends principally upon the heat supplied by the animals. For this reason a dairy stable should be well filled with cows in cold weather, so that their body heat will start the air in motion.

The principle of the circulation of warm air is that heated air has a tendency to climb to the top. It is well illustrated in the chimney. There is little draft up through a cold chimney, but as soon as the fire is started air rises up with considerable velocity.

A well built cow stable that is filled with cows is comfortably warm in zero weather. At the same time the flues are carrying off the warmer foul air continually, night and day.

Submarines' Disappearing Guns. The Krupp gun works, in Germany, have produced a quick-firing gun designed especially to provide submarines with the means of destroying aeroplanes and dirigibles.

Trees and Chimneys. The existence of tall plants and trees depends largely on the wind force. A tree with square trunk and branches would offer so much resistance to the wind that it would be continually having its branches snapped.

Not Practical. "Did you attain the high ideals you set for yourself when you were young?" asked the friend of his boyhood.

Transparent. The Toucher—"I'm going to work next week, but I'll need a few dollars to live on till pay day. Can you see me through? The Wise Guy—"No, but I can see through you."

A Slight Absentmindedness. "How are you getting on as the presiding officer of your new club?" "Pretty well," replied the emphatic woman.

Very Poor Taste. "I hate that girl." "Yet you lend her your clothes." "Yes, and she has the bad taste to look better in them than I do."

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The Habeas Corpus. The substance of habeas corpus was given in the famous Magna Charta of 1215, but as today understood the habeas corpus refers to the act of 1679.

Versts and Miles. Many people know that to multiply any number of French kilometers by five and divide the product by eight is to get an exceedingly close approximation to the number of miles in the same distance.

Intellectual Life. People without intellectual life are virtually under condemnation to hard labor. Unless their thoughts can give them wholesome occupation they must find it for their hands.

Mean Suggestion. "I made Miss Oldgirl mad the other day." "How so?" "She said she would give me a few wrinkles, and I said I didn't care to take them, although I knew she had plenty to spare."

In Awful Shape. "Why don't you go to work?" "I'm so dead tired of doing nothing that I'm too tired to do anything."

EMILE J. MOTHE, Pres. WALLACE S. LAMPTON, Secty.-Treas. The Delta Life Insurance Co. Burial and Sick Benefit

Child Life in Africa. Child life in Africa has few pleasures and many sorrows and is in a state of constant reversal and change. From the time of a boy's birth until he has gone through the "devil bush" he is little thought of, but as soon as he has passed through its terrible ordeals and practices he is regarded as a man and an asset in the native community.

A Bernard Shaw Criticism. Before fame came to him Bernard Shaw wrote dramatic criticisms for the London Saturday Review. The following sample is characteristic of the man: "I am in a somewhat foolish position concerning a play at the Opera Comique, whether I was bidden this day week. For some reason I was not supplied with a program, so that I never learned the name of the play."

Eastern Vermont's Marbles. Though the western part of Vermont includes the most extensive marble industry in this country, the eastern part is a virgin field, where, in the lack of a general study of the stratigraphy, the structure, the paleontology and the areal geology, it is at present not only impossible to determine the area and position of many of the beds, but also even the thickness of some of the marble formations, which are but partly exposed.

Burial With Military Honors. After a battle the dead are buried "with military honors." These in times of peace are both impressive and elaborate, but in time of war they are much curtailed. The principal features are the playing by muffled drums of the dead march, the resting on the arms reversed by the troops engaged and the final firing into the air over the grave of three blank volleys.

Norman French is still the official language of the Channel Islands. It is rather a surprise when one begins to count the different languages spoken within the borders of the United Kingdom. How many people would guess that there are still at least five living tongues used among us?

No great deed is done by falterers who ask for certainty.—George Eliot. Polyglot Britain. Norman French is still the official language of the Channel Islands. It is rather a surprise when one begins to count the different languages spoken within the borders of the United Kingdom.

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