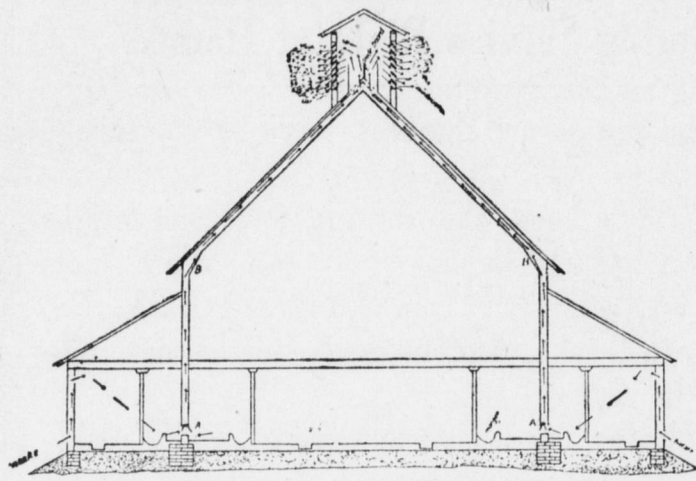


## IMPORTANT FEATURES OF GOOD VENTILATING SYSTEM

In Order That Our Dairy Products May Rank Higher More Attention Must be Given to Health and Sanitation—One Plan.



Method of Running Ventilator Flues. Fresh Air is Admitted at the Bottom and Foul Air Taken Out at A and B.

(By J. H. FRANDSON.)

Through mistaken ideas of some writers, many of our farmers have developed the idea that to keep cows healthy and comfortable and to produce sanitary milk it is absolutely necessary to have expensive barns. As a matter of fact many of the dairy barns where sanitation is the primary object are quite inexpensive.

On the other hand if it is to be conveniently arranged to embody the most accepted sanitary features, it is very essential that some attention be given to the plans and specifications of the barn that is to house the dairy herd to the best advantage. Every detail of a new barn should be carefully worked out before actual construction takes place.

The illustration here shown will, it is hoped, give the builder some new ideas as to how the barn can be made more sanitary.

In building a dairy barn, or any other kind of a barn for that matter, the plans must be worked out to suit different conditions and locations. Hardly any two sites would permit exactly the same plan being used.

If wholesome and sanitary milk is to be produced the farmer should realize that the cows must be kept out of the mud as much as possible. Conditions in and around the barn can, in many cases, be greatly improved by draining and grading. Draining is not of itself sufficient, as the tramping of the cattle soon puddles the surface, thus practically preventing the water from reaching the tiles below.

The barnyard should have good slope, such as will insure good surface drainage, and should have a good top layer of gravel or cinders. In many places this may involve a great deal of work, but even if the grading cannot all be done in one year arrangements should be made by which at least part of it is done every year.

Too much stress cannot be laid on the fact that we have no better disinfectant than good, old-fashioned sunlight. For this reason in planning our barns much more attention should be paid to the question of securing sufficient light. It is said by authorities on the subject that four square feet of window light should be allowed for each cow in the barn. Long windows reaching well to the ceiling have been found the most satisfactory for the reason that the light coming through them can reach all parts of the barn better than if the short windows are used. It is also of importance to remember that there is no better way of preventing the spread of tuberculosis in our herds than by admitting plenty of sunlight and fresh air into the barn.

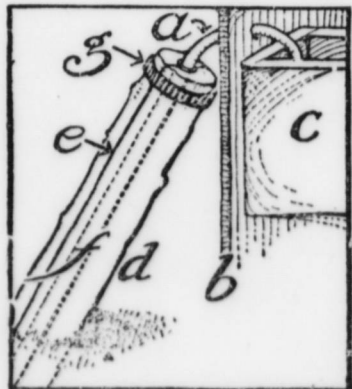
The height of ceiling differs somewhat according to different ideas of the builder, but the height should be sufficient to give ample air space in the structure.

The important features of a good system of ventilation are that it provides a constant supply of pure, fresh air, that the fresh air is admitted near the ceiling and that the impure air is taken out near the floor. The fresh cold air should be admitted near the ceiling, so that it may, by contact with the warm air, be tempered before reaching the cows. By forcing the impure air out near the floor less heat is lost and, as is claimed by most authorities, the major part of the impure air is found near the floor where the cows are constantly depositing many of the impurities given off in breathing. A damp stable favors the breeding of disease germs. A good system of ventilation will carry away all extra moisture. No system of ventilation can be successful in a barn where the cracks and crevices in the walls permit cross-currents to interfere with the work of the ventilating flues.

## KEEP FROST FROM PIPES

Illustration Shows Excellent Method of Protecting Water Pipes During Severe Weather—How Done.

This diagram illustrates one way of protecting water pipes against frost. In the cut a is the pipe, b a partition through which the pipe runs, c the water tank, d the ground, f a wooden post and g an iron ring. In operation the post, which may be six to eight inches in diameter, is split in the middle, as shown at e. The center is hollowed out slightly in each half, and



Details of Arrangement.

into this space pipe fits. The iron ring at g holds the halves firmly together, says the Orange Judd Farmer. This protection might, and probably would, in actual practice, continue on through the wall of the building. It could be arranged for by setting the pipe at a greater angle.

## Fresh Manure Dangerous to Trees.

When an old orchard is renewed the soil may probably receive a liberal application of well-rotted manure. This should be applied only under the extremities of the branches and worked well into the soil. Fresh manure should not be applied. Ashes may be used in addition to the well-rotted manure, or it may be thrown near the base of the tree to destroy many of the insects there.

## IN TANNING SMALL SKINS

Excellent Methods Given for Preparing Hides of Either Muskrat or Rabbit for the Market.

The skins should—first be heated by sprinkling fine salt over the flesh sides—then roll up and allowed to remain for 12 months. If the pickling method is preferred, the skins may be immersed in a strong solution of brine. After being treated with the salt, wash in cold water, and then all the flesh and fat scraped off. Then sew together to form pouches with hair inside and placed in weak wattle bark solution. The wattle bark solution is made by boiling the bark and having the decoction stand for 24 hours, then taken out and skins are left in this bark solution for 24 hours, then taken out and allowed to draw. The strength of the solution is increased by the addition of more oak bark every day for six days. At the last day take out the skins, wash off, and coat the flesh side with dubbing. The skins are then thoroughly worked and stretched and hung up to dry, and the fur cleaned and evenly smoothed.

Another method of curing skins is to treat them with salt and sulphuric acid. Over two quarts of wheat bran pour six quarts of boiling water, then strain. Make an equal quantity of strong brine. Mix brine and bran together and to each gallon of the mixture add one ounce of sulphuric acid. Then immerse the skins, stirring them occasionally until tanned. Rabbit skins will tan in 30 minutes in this solution, when tanned, wash the skins in cold water, and hang in cellar to become partly dry. When skins are nearly dry, being moist to the hand, work and stretch until they become soft and pliable. The skin side should then be thoroughly rubbed with prepared chalk.

## Grooming Improves Animal.

Grooming the horse every day not only cleans the skin, but prevents parasitic disease as well. The modern horse is an artificial product, living under artificial conditions. In order to do his best he needs the care of man.

## The Modest Model.

The late Julia Ward Howe, though a woman of very good appearance, was extremely modest. "She once posed for me," said a Boston painter the other day. "But she hesitated a long time before consenting. To urge her on I said: "Don't be afraid. I'll do you justice, madam." "Ah, she answered, 'it isn't justice I ask for at your hands; it's mercy.'"

## Not Just Off the Shelf.

Little Marget has the childlike trait of curiosity, especially in regard to the age of her elders. "How old do you think I am, dear?" counter-queried the spinster aunt to whom the child had put the impertinent query. The little girl considered earnestly before replying: "Well, I don't know, Auntie Alice, but you don't look new!"

## INSIDE HISTORY.

Some Self-Explanatory Letters. Battle Creek, Mich., Jan. 7, '11. Dr. E. H. Pratt, Suite 1202, 100 State St., Chicago, Illinois.

My Dear Doctor:

"Owing to some disagreement with magazine several years ago they have become quite vituperative, and of late have publicly charged me with falsehoods in my statements that we have genuine testimonial letters.

"It has been our rule to refrain from publishing the names either of laymen or physicians who have written to us in a complimentary way, and we have declined to accede to the demand of attorneys that we turn these letters over to them.

"I am asking a few men whom I deem to be friends to permit me to reproduce some of their letters over their signatures in order to refute the falsehoods.

"We have hundreds of letters from physicians, but I esteem the one that you wrote to me in 1906 among the very best, particularly in view of the fact that it recognizes the work I have been trying to do partly through the little book, 'The Road to Wellville.'

"I do not sell or attempt to sell the higher thought which is more important than the kind of food, but I have taken considerable pains to extend to humanity such facts as may have come to me on this subject.

"In order that your mind may be refreshed I am herewith enclosing a copy of your good letter, also a copy of the little book, and if you will give me the privilege of printing this over your signature I will accompany the printing with an explanation as to why you permitted its use in publication in order to refute falsehoods, and under that method of treatment I feel, so far as I know, there would be no breach of the code of ethics.

"I trust this winter weather is finding you well, contented and enjoying the fruits that are yours by right.

"With all best wishes, I am, Yours very truly, C. W. POST.

Chicago, Aug. 31, 1906. Mr. C. W. Post, Battle Creek, Mich. My Dear Sir: "I write to express my personal appreciation of one of your business methods, that of accompanying each package of your Grape-Nuts production with that little booklet 'The Road to Wellville.' A more appropriate, clear headed and effective presentation of health-giving auto-suggestions could scarcely be penned. "Grape-Nuts is a good food in itself, but the food contained in this little article is still better stuff. I commend the practice because I know that the greed and strenuousness, the consequent graft and other types of thievery and malicious mischief generally can never be cured by legislative action.

"The only hope for the betterment of the race rests in individual soul culture. "In taking a step in this direction, your process has been so original and unique that it must set a pace for other concerns until finally the whole country gets flavored with genuine, practical Christianity.

"I shall do all that lies in my power to aid in the appreciation of Grape-Nuts, not so much for the sake of the food itself as for the accompanying suggestions.

"Visiting Battle Creek the other day with a friend, Dr. Kelly of Evanston, Illinois, while I was consulting with Mr. Gregory, my friend, visited your factories and came away greatly amazed, not only at the luxurious furnishings of the offices generally and the general equipment of the place, but with the sweet spirit of courtesy and kindness that seemed to fill the air with a spiritual ozone that was good to breathe.

"The principles expressed in the little booklet, 'The Road to Wellville,' I well know are practical and they work in business of all kinds, including sanitariums, as will be fairly tested before time is done.

"I know you will not regard this letter of appreciation as an intruding one. It is simply the salutation of good fellowship to you from a man who, although he has never seen you, feels drawn to you by the kinship of thought.

"The only thing that makes a man live forever in the hearts of his countrymen and his race is the good that he does. Your position in this respect is an enviable one and I wish to extend my congratulations.

Yours respectfully, E. H. PRATT.

## HITS SCHOOL BOOK COMPANIES.

Governor Marshall Castigates Book Publishers Who Attempted to Foist County Uniformity on Graded Schools.

Indianapolis. — Governor Marshall, in his message to the Indiana general assembly went after the big school book companies that sought two years ago, to foist county uniformity of text books upon the schools of Indiana.

In his message, Governor Marshall says: "Two years ago the representatives of foreign school book publishing houses opened up a lobby in Indianapolis pretending that the presence of their representatives here was exclusively philanthropic and that they had come into Indiana to show us how defective our school system was. I always suspect that philanthropy which results in large pecuniary gain to the philanthropist."

Governor Marshall's stand will deter school book publishers from attempting to jam a county uniformity measure through the legislature.

Uniformity Bill in Ohio. Columbus. — Senator Yount has introduced a bill in the senate providing for county uniformity of school text books. It applies only to the elementary schools in the rural districts and villages. Because cities are left out farmers and educators are opposing the measure. Their argument is that "if uniformity is bad for the cities it is just as bad for the country," and that it would cost millions to install county uniformity.

The Yount measure would give county commissioners and probate judges power to appoint the board that selected books. The matter of selection would be taken wholly from the hands of boards of education and school superintendents.

Senator Yount's argument for the measure is that it would save money to the people while the opponents insist that it would throw the school book question into politics; that it is against home rule; and that it would result in a county board taking complete charge of all school affairs, including hiring of teachers and control of the physical property of a school district. A similar measure was defeated in the legislature last winter.

## Habit Grows.

"I hate to see a little country buying its first battleship."

"Why?"

"Reminds me of a boy taking his first smoke."

For over fifty years Rheumatism, Neuralgia, and other painful ailments have been cured by Hamlin's Wizard Oil. It is a good honest remedy and you will not regret having a bottle ready for use.

The main difference between a professional man and a tradesman is that a great many times the tradesman can buy and sell the professor.

Constipation causes and seriously aggravates many diseases. It is thoroughly cured by Dr. Pierce's Peppermint. Tiny sugar-coated granules.

Some turn their backs on ordinary principles to gaze at heavenly prospects.

## Woman's Danger Periods Made Safe

By Lydia E. Pinkham's Vegetable Compound

The Change of Life is the most critical period of a woman's existence, and neglect of health at this time invites disease.

Women everywhere should remember that there is no other remedy known to medicine that will so successfully carry women through this trying period as Lydia E. Pinkham's Vegetable Compound, made from native roots and herbs. Here is proof:



Natick, Mass.—"I cannot express what I went through during the Change of Life before I tried Lydia E. Pinkham's Vegetable Compound. I was in such a nervous condition I could not keep still. My limbs were cold. I had creepy sensations and could not sleep nights. I was finally told by two physicians that I had a tumor.

"I read one day of the wonderful cures made by Lydia E. Pinkham's Vegetable Compound and decided to try it, and it has made me a well woman. My neighbors and friends declare it has worked a miracle for me. Lydia E. Pinkham's Vegetable Compound is worth its weight in gold for women during this period of life. If it will help others who may publish this letter."—Mrs. Nathan B. Groaton, 51 No. Main St., Natick, Mass.

## ANOTHER SIMILAR CASE.

Cornwallville, N. Y.—"I have been taking Lydia E. Pinkham's Vegetable Compound for some time for Change of Life, nervousness, and a fibroid growth.

"Two doctors advised me to go to the hospital, but one day while I was away visiting, I met a woman who told me to take Lydia E. Pinkham's Vegetable Compound. I did so and I know it helped me wonderfully. I am very thankful that I was told to try Lydia E. Pinkham's Vegetable Compound."—Mrs. Wm. Boughton, Cornwallville, N. Y., Greene Co.

The makers of Lydia E. Pinkham's Vegetable Compound have thousands of such letters as those above—they tell the truth, else they could not have been obtained for love or money. This medicine is no stranger—it has stood the test for years.

For 30 years Lydia E. Pinkham's Vegetable Compound has been the standard remedy for female ills. No sick woman does justice to herself who will not try this famous medicine. Made exclusively from roots and herbs, and has thousands of cures to its credit.

Mrs. Pinkham invites all sick women to write her for advice. She has guided thousands to health free of charge. Address Mrs. Pinkham, Lynn, Mass.



LYDIA E. PINKHAM

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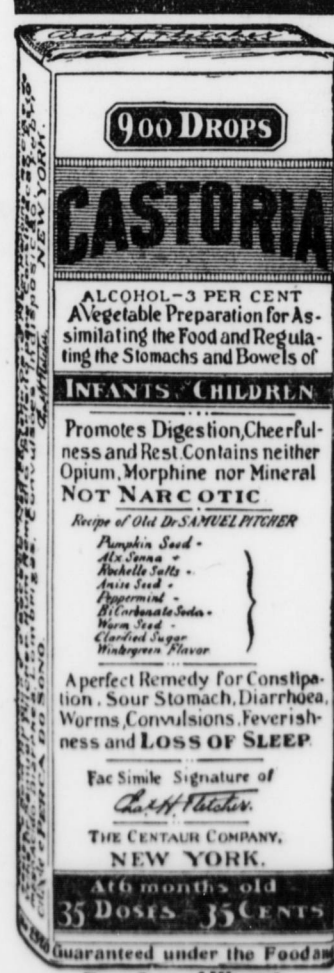
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If your dealer cannot supply you with W. L. Douglas Shoes, write for Mail Order Catalog. W. L. Douglas, 145 Spark St., Brockton, Mass. Boys' Shoes \$2.00 \$2.50 & \$3.00



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