

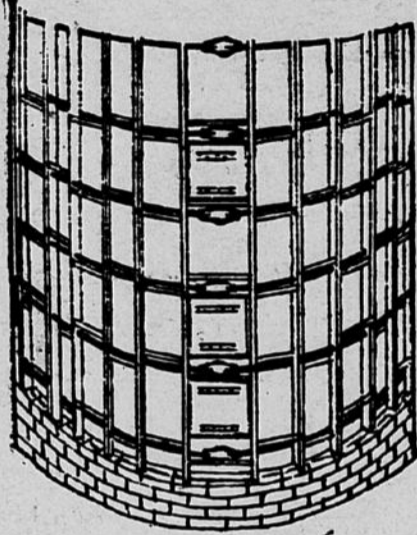


### AN EFFECTIVE SILO.

Its Designer Claims That It Is Safe and Durable and Can Be Erected at Small Cost.

The foundation wall is of good, hard brick or stone, built about one foot above the surface, cementing on top smooth and level; fill in center with small stone and coarse gravel, well tamped, kettle shape, so that at the sides it comes up to top of wall, then cover with cement two inches thick.

The silo is framed with 2x4 studding, 16 inches apart from center to center, in circular form as shown in cut. It is supported by pieces 14 inches long, spiked between the studding at such distances apart as necessary to nail on siding and to resist the pressure of the strap-iron bands. These bands are placed 2 1/2 and 3 1/2 feet apart (according to size of silo) at bottom, and



MR. CAMPBELL'S SILO.

wider apart toward the top. The 14-inch pieces should project three-sixteenths inch outside of studding, so that by the use of the turnbuckle the hoops may be tightened as the timber seasons. Cover outside up and down, with matched siding or boards and battens. Make manholes with good headers and frames. Don't use sills. Set studding directly on the wall, so that there will be nothing to draw dampness and rot out, or making repair easy, if it ever does rot. The roof can be flat, or tin, iron or felt.

This is a good frame and costs less in labor and material than any other frame I have seen. Lath inside with common three-eighths by two-inch lath, which will stand the pressure between the studding. Second growth chestnut, pine or hemlock makes good lath; put them on one-eighth inch apart, and break joints every four or six lath.

### TIMELY DAIRY NOTES.

The udder and its possibilities are born with the cow.

The milk can only be influenced through the blood.

Souring milk does not add to its cream-raising possibilities.

A dairyman must be a business man as well as a producer.

The cow's inherited possibilities will convert good blood into good milk.

True cream rising consists in keeping the milk as sweet and fluid as possible.

The instant there is a trace of lactic acid in the milk, the thickening process has commenced.

Souring milk is a process of thickening which finds its complete fulfillment in lopped milk.

The cow which will profitably convert the largest amount of food into milk or butter is the most profitable to keep.

Cows are not all of the same natural temperament. Some are nervous and quick, others cold-blooded, stolid and slow.

One difficulty in farm butter making is the small amount of cream secured each day and the long intervals between churning.

One of the most dangerous germs that can infect milk is that found in old rotten milk in the seams, joints and corners of the milk-vessels.

No unnecessary delay should be allowed between any of the processes in the manipulations of the milk or the manufacture of the butter.

The separator is a good cleanser of milk, so far as foreign bodies are concerned, and even with liquid foreign matter the sooner the butter fat is out of the tainted milk the better.

Nice fluidity, so that the cream pours evenly and smoothly, is the test of right condition in churning. Cream, if too thick, should be thinned out before the churn starts.—Indianapolis Journal.

### CREAM WILL NOT CHURN.

Advice to a Farmer Who Has a Jersey the Milk of Which Will Not Make Butter.

Cases like the above are rare, though they occasionally occur. Sometimes it is because the cow is too far advanced in lactation or gestation. Sometimes it is because the churning is undertaken when the cream is at too low a temperature. There is a great difference in cows. The cream of some have to be at a much higher temperature to churn than others, especially when on dry winter feed. I once had a cow that her cream could not be churned by itself at a lower temperature than 70 degrees, while ordinarily 60 degrees is high enough. The use of the thermometer and gradually raising the temperature will determine if this is the cause. Another cause of stubborn churning is an excessive amount of albumen for viscous substance in the milk. This can usually be remedied by what is called washing the cream.

If the cream is obtained with a separator, dilute it with about three times its own bulk of warm water and run it through the separator again. This will take out a greater part of the viscous substance that prevents the churning. After the cream has been thus washed, it should be well ripened and brought to the proper temperature and there will be no trouble in obtaining butter. At least I have never known this to fail in such cases. If the cream is obtained by some gravity process, the way to do would be to skim the milk while it is sweet, then dilute it with water, as in the other case, and set it again to cream. This will effectively wash the cream, but there would be some loss of butter in twice setting and skimming. This last method will work where the milk is set in deep cans in ice water to cream, but would not work where shallow setting is used, and the cream is soured and thickened before skimming.—C. P. Goodrich, in Prairie Farmer.

### CART FOR ODD JOBS.

Handy Vehicle That Can Be Made for a Trifle by Any Farmer Handy with Tools.

This low down, roomy cart, is one of the handiest wagons on my farm. It costs but a trifle to make. Take two cultivator or other wheels, tighten the tires, and weld on a square rod to bend an axle to, just the width the box is to be made, and with drop as low as you like the box to rest when hung on the wheels, not less than four or five inches from the ground. Make these cross or bottom bars from hard wood, one inch thick, three inches wide, and the rear one long enough to project eight or ten inches over each side of box on which to set good brace-irons, as shown, with an inch wide strap iron inside of the same length, with both passing through bottom bar to carry the weight of the rear on the side boards; also one each side in front. The floor should be laid with

hard pine flooring, with tongue and groove well leaded to make water tight and prevent swelling. Front of side boards should be cut to slant well forward from bottom to top. The shafts extend the full length of box and are sufficiently long to prevent the horse from interfering with box or bed.

Put the entire wagon, except the bottom, together with screw and bolts. Use hard wood corner pieces in front end. Allow the side to project far enough over forward to allow a rod, with thread and nut at one end, bottom and center, across bed to keep it solid by a firm tension. Lay cleat inside box parallel with shafts, and bolt securely. Run a substantial brace rod from midway of each side of front box to about one foot out on under side shafts to maintain perfect rigidity and equalize the strain in pulling and in any over-balance of weight, also brace shafts with irons horizontally. I have an end gate which is quite handy to use in making a closed box. This picture was taken as one of the dairymen was starting from the barns with a barrel of skim milk for the pig and calf pens. We find use for it in "odd jobs" on an average of half of each day.

Speltz as a Stock Feed.

Prof. Henry, of the Wisconsin experiment station, does not consider that speltz, or emmer, will ever be a popular feed in Wisconsin, or any state that is similar to the Badger state. One great advantage of speltz is that it is a grain that will endure considerably dry weather, and is thus well fitted for South Dakota, where it is grown to considerable extent. In any dry country there seems little doubt but what speltz will be popular and probably deservedly so. Experiments that have been conducted at the South Dakota station seem to indicate that speltz has, bushel for bushel, about two-thirds the feeding value of barley, to which it is often compared.

Lactic acid is an acidity produced by an air germ that breaks up the sugar in the milk.

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### SCHOOL AND CHURCH.

The general population of Canada increased 83 per cent. in the last ten years, the membership of the churches 158 per cent.

It has been estimated that the average schoolboy loses 273 whole school days during the years of his education by the clumsiness of our present system of weights and measures.

Religious tolerance has always been somewhat restricted in Denmark, but the legislature has just passed a bill granting to nonconformists the right to use churches of the establishment at certain times to be decided by popularly elected parish vestries.

Christian education is making rapid progress in South India, and, as usual, it uplifts women. Of each 10,000 women who in religion are Hindus, only 70 can read and write; of Mohammedans, 86, of Christians, 913. Twenty-six out of every thousand inhabitants of Madras Presidency are Christians.

Organized Christian work in the colleges of to-day is in a very hopeful condition. A committee of Hartford seminary has inquired into the religious condition of 66 colleges. They find that there are 2,317 seniors, of whom 1,675, or about 74 per cent., are professing Christians, and 294 are candidates for the ministry.

Philadelphia makes the claim of having the largest city and country club in the union. It is the Young Men's Christian association, and has 7,000 members. The association not only possesses several buildings, which are teeming with men, having an attendance of nearly 2,000 per day, but has a farm of 457 acres near the city, which is the headquarters for young men during the summer months.

A large wholesale and retail drapery establishment in England has a recognized chaplain, and family prayers are held every morning from 7:30 to 7:55, at which all members of the establishment are expected to attend. This is placed first on the list of "Bedroom and House Rules," a copy of which is presented to every newly engaged assistant. Rule No. 2 says: "That all the assistants be expected to attend a place of worship on the Lord's Day."

### QUESTION OF SUGGESTION.

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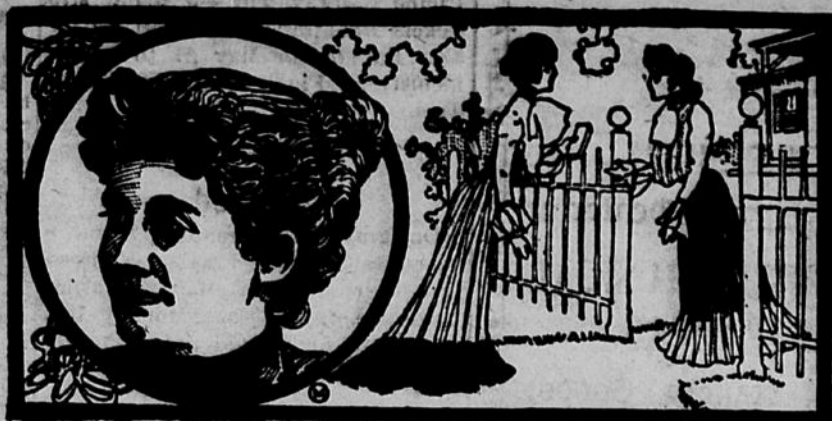
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