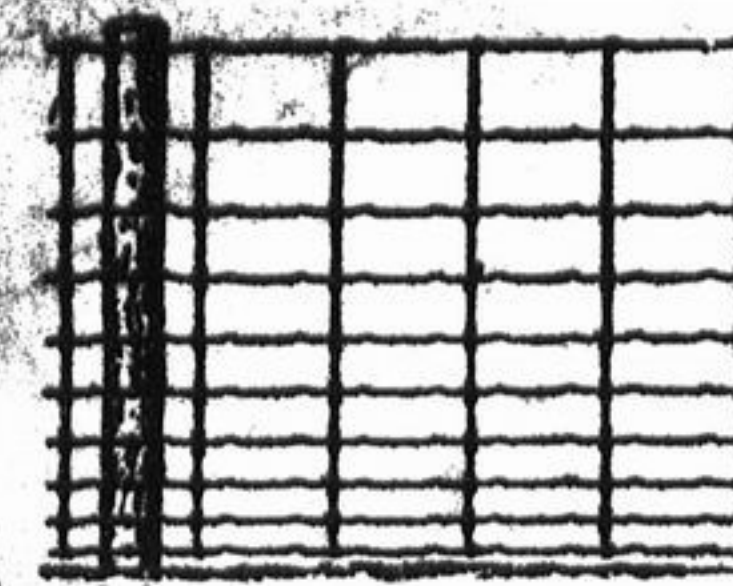


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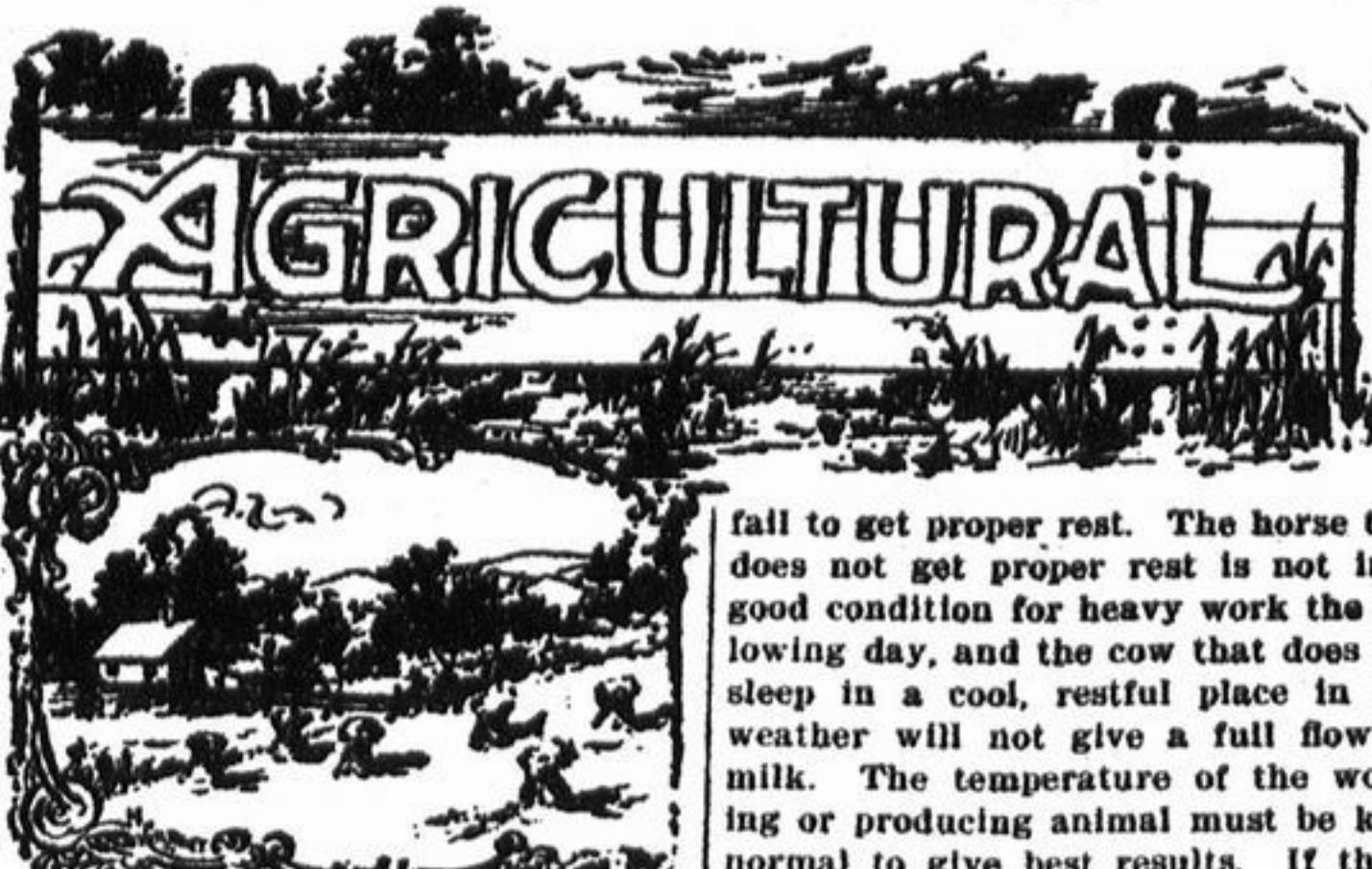
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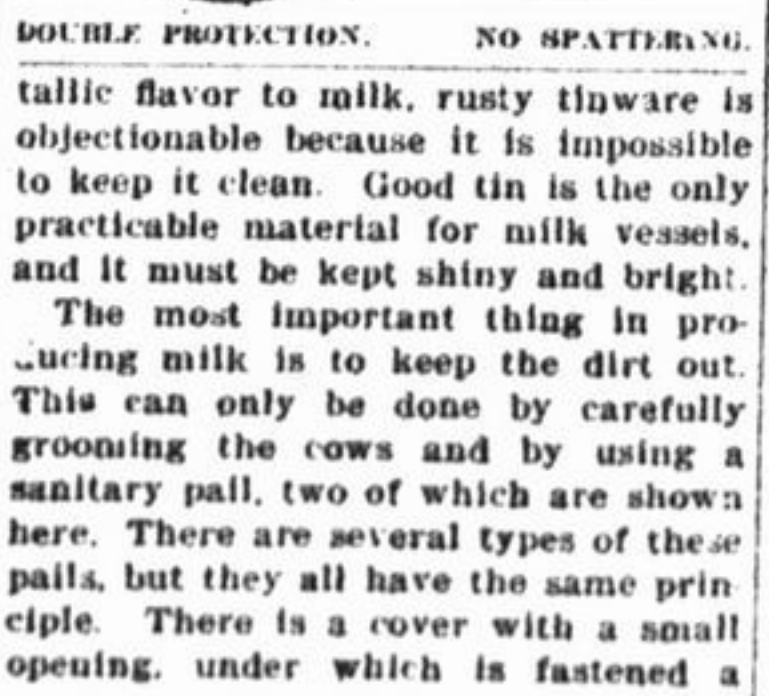


Sanitary Milk Pails.

Much the larger proportion of milk is carried in wide-topped, uncovered pails from the cow to the strainer, a distance of 25 to 100 feet, across a cowyard, under a hay rack, or past a manure pile, thus exposing a large surface of warm milk, which absorbs all kinds of undesirable odors and collects dirt and dust.

Galvanized iron is something used for milk pails, but it is not best, for the rough surfaces afford hiding places for bacteria. Wooden vessels should not be used for holding milk, for it is almost impossible to keep them clean. Besides imparting a metallic flavor to milk, rusty tinware is objectionable because it is impossible to keep it clean. Good tin is the only practical material for milk vessels, and it must be kept shiny and bright.

The most important thing in producing milk is to keep the dirt out. This can only be done by carefully grooming the cows and by using a sanitary pail, two of which are shown here. There are several types of these pails, but they all have the same principle. There is a cover with a small opening, under which is fastened a



DOUBLE PROTECTION. NO SPATTERING.

There are places where a common everyday gate is an utter nuisance and where a turnstile or some other gate substitute or contrivance is particularly convenient and welcome. With the arrangement herewith illustrated the gateway is always closed to animals, but men may pass through it without difficulty. The accompanying drawing will give a clear idea of the plan. The sketch is made to represent a very small gate, but to answer all purposes the wing panels and gate perhaps should be half a rod in length.



SUBSTITUTE FOR GATE.

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chesscloth strainer. The one with the spout strains the milk as it enters the pail, and also as it is poured out—Farm and Home.

Thistle as Stock Food.
Stock of all kinds greatly relish the plant of the Russian thistle, which has fairly jumped out of the ground since the rains, and our Eastern plains are verdant with it. Why not make use of it? So palatable is the hay to cattle that they leave green pasture and break through fences to devour this obnoxious and outlawed weed if it is cut and stacked before the red-dish thistle comes on to the plant, which occurs about the middle of July. Many of our Colorado people have used Russian thistle for forage for several years, and some of them say that it is as good as alfalfa. In a recent analysis the Russian thistle was as follows: Protein, 17.55; ether extract, 3.61; ash, 21.98; crude fiber, 20.14, and carbohydrates, 36.32. All over Eastern Colorado there is a lamentable shortage of protein feed-stuff. Corn, corn stalks, straw, millet, Kaffir and prairie hay are all long on starchy matter, but short on protein. In the thistle we have a crop that grows on the arid reaches which will not only yield a large amount of forage, but a very palatable one at that, and a crop that is rich in the elements in which others are deficient.—Field and Farm.

Saw Rats Freight on Egg.
After an investigation covering two weeks, William Krohbach of Danby, Pa., has learned the reason he has been receiving only two or three eggs a day from his flock of sixty hens, and incidentally found out something about the inventive capacity of rats. One morning he heard a noise in his chicken house, and quietly making his way there, he saw two big rats in the act of making away with a newly-laid egg. One of the rodents was lying flat on its back with the egg tightly clutched in its four paws, while the other rat was dragging it along by the tail. Krohbach was so impressed by the sight that he watched the rodents for three minutes, during which time they carried the egg for twenty yards along the fence until they came to a hole in the ground, into which they took the egg. One of the rats became tired while carrying the egg and changed places with its fellow.

Ventilating Stables.
Horses and cows are in the stable at night for rest. When the weather is warm the atmosphere in close confinement becomes very warm and oppressive, so much so that the animals become very uncomfortable, and hence

Kerosene Emulsion.
Here is a recipe for kerosene emulsion: Hard soap, half pound; boiling water, 1 gallon; coal oil, 2 gallons. Dissolve the soap in the water, pour in the coal oil and churn or beat together briskly with a paddle for at least ten minutes. Dilute from ten to twenty-five times before applying. Use it strong for scale insects. Kerosene emulsion destroys insects which suck, such as plant lice, red spiders, etc. It will also kill cabbage worms, caterpillars, and all insects with soft bodies.

Bordeaux Mixture.
The Bordeaux mixture is the proper remedy to use for all fungous troubles, viz., mildew and rust of beans; potato and tomato rot and leaf-blight; melon and cucumber diseases; celery leaf-blight and rust, etc. The half-strength mixture (two pounds copper sulphate, two pounds quicklime, fifty gallons of water) is strong enough to use in the vegetable garden, except for potatoes.

Utilizing Farm Waste.
Dr. Wiley, the chemist of the Department of Agriculture is making some interesting experiments at Washington in turning farm waste into wood alcohol, to be used as fuel and for manufacturing purposes. His experiments so far have been confined to corn and potatoes, but fodder is to be tried.

Grain Ration for Swine.
It is much the best economy to furnish swine a grain ration when they are on pasture, as it results in better gain and a better product. One man estimates that it takes from one-half to one-third less corn on alfalfa pasture than on a straight grain ration to make a hog ready for market. Many let the hogs run on alfalfa until about five or six months old, by which time they reach a weight of 75 to 125 pounds, feeding just a little grain; then they feed heavily for about two months and sell the hogs at eight months old weighing 200 to 220 pounds. One farmer who raises about a thousand hogs a year and who in one year sold \$11,200 worth, makes a practice of growing his hogs on alfalfa pasture until about eight months old feeding one ear of corn per head daily. He then feeds heavily on corn for a month or two and sells at an average weight of 200 to 225 pounds. Another man feeds all the corn and stop the pigs will clean up, all the while grazing them on alfalfa pasture, and sells at six to eight months old at weights of 250 to 300 pounds. Another, who raises about a thousand head a year, feeds all the corn the pigs will eat, beginning shortly after weaning and continuing until they are ready for market.

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FACTS IN TABLOID FORM.

A watch is composed of ninety-eight pieces.

The German army numbers 5,000,000 men.

Sicily lost 60,000 inhabitants by earthquake in 1693.

The Chinese pupil reciting his lesson turns his back to the teacher.

The average weight of the heart is from nine to eleven ounces.

It is estimated that England annually consumes the milk of 5,000,000 cows.

The world's postal business is increasing at the rate of 7 per cent per annum.

A trackless trolley in the streets of Vienna nearly a mile and a half long operates with success.

The bark of the dog is an acquired habit. In his wild state he never barks, but whines and howls.

Two-thirds of the native population of Uganda has been wiped out by the sleeping sickness in seven years.

The government tests at Washington samples of the chain to be used on the gear of the Panama canal locks withstood tensile tests of 153,000 pounds to the square inch before the metal parted.

Wrecks reduced the effective mercantile marine of the world in 1907 by 863 vessels, of \$51,224 aggregate tonnage, exclusive of vessels of less than 100 tons. Great Britain's percentage of loss was less than that of any other of the principal ship-owning countries.

It is believed by at least one writer that it is because baldness in women has nearly always been studiously concealed that no gentle way of evading the blunt word "bald" has been evolved in contrast with the many ways of dodging "fat," "stout" (which really means sturdy), "portly" ("comfortable" and "embonpoint") are instances of this evasion. But "bald" always remains "bald."

Literally the word "rajah" means "king"; and "maharajah," the "great king," or ruler over several kings; but, generally speaking, the titles "rajah," "maharajah" and "nawab" have no greater significance than the words "feudal lords," as used in medieval times in Europe. Many of them have been made by the will of the reigning chief; many bestowed for meritorious acts and deeds.

Lord Kinnaird, speaking at the annual meeting of the British Royal Normal College for the Blind, drew attention to the interesting fact that 90 or 95 per cent of the college students became self-supporting. One of the subjects which had been found particularly suitable for blind people, he said, was typewriting. For the last three years the conferences held had all been reported by blind stenographers and transcribed by blind typewriters, while, in addition, the reports had been prepared for the printers and the accounts attended to by blind people.

Hogge's Horse, at Buxted, Sussex, England, states a contemporary, in the center of the old iron district, was formerly the residence of Ralph Hogge, an ironmaster. He is celebrated as having been the first to cast a cannon in one piece. This occurred in 1343. Originally, big guns were hooped and dangerous to manage. The worthy merchant's discovery revolutionized the trade, and brought him wealth and fame. His ancient home, embowered in trees, is still in good condition, well worth seeing and quite close to the church. On its facade is a hog in bas-relief.

At the office of one of the Trans-Atlantic steamship companies a well-dressed man applied a few days ago for a pass to the other side and told the clerk to whom he made the modest request that he had no money, but could work his way in the first cabin. He said that he played the piano well, had a good baritone voice and could entertain the passengers at times when there was no ship's music. He was also a ventriloquist and a slight-of-hand performer and could make the entertainments additionally interesting. He was asked to leave his address and told that when the company took up the vaudeville business he would probably hear from it.—New York Tribune.

The ancient whitethorn at Howth castle, which, according to tradition, was inseparably bound up with the fortunes of the St. Laurences and would die with the last of the line, had its counterpart in this country at Husbands Bosworth hall, the old seat of the Turvilles, near Rugby. In front of the hall was a withered walnut tree, and the superstition was that when the tree died so also would the race of the Turvilles come to an end. The year previous to the death of Miss Mary Fortesque Turville, sister of the late Sir Francis Turville, and the last of the family in the direct line, the walnut tree was dead at the top, though it had leaves on its lateral branches. The year she died it had not a single leaf upon it, and on examination was found to be dead.—Court Journal.

It is interesting to note the conspicuous position taken by American singers in the various German premieres of "Elektra." The list is headed by Madame Schumann-Heink, the ardent American citizen by right of naturalization. The American singer of the Berlin ensemble was Francis Rose of Denver. Edyth Walker created the title role when the Strauss work was heard in Hamburg, and in Elberfeld, one of the Rhenish cities, the "Elektra" performance was given under the baton of Herman Hans Wetzel, who if not an American by birth (2) was at least conspicuously associated with New York musical interests for a long time. American singers have also been the chief creators of the role of "Madame Butterfly" in the German stages. Following Geraldine Farrar in the Berlin production came Marguerite Lemon in Mainz, Jennie Osborn-Hannab in Leipzig and Marcella Craft in Kiel, all of whom have won their chief laurels in their interpretation of the Puccini heroine.—Musical Era.

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