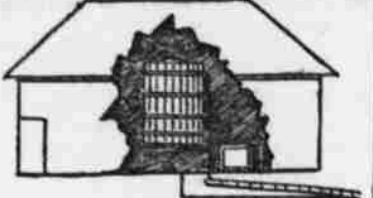




Farm Water Supply.

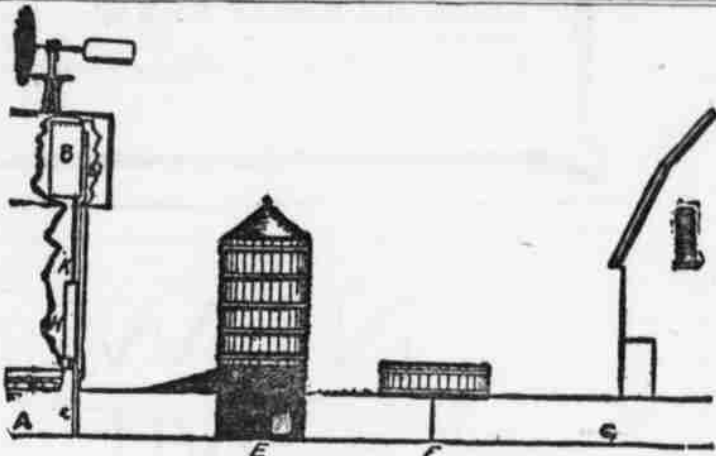
In establishing a water supply system for a farm, the first thing to be determined is the kind of power to be used in making the supply of water available for the uses of man and beast. Wind power is the most common, though gasoline, as well as horse and tread power are more and more coming into use. As to which power should be used it can only be said that local circumstances and conditions will always determine this.

The illustration is a design of a water system where the supply comes from a tubular well and the water is pumped by wind power. The dwelling



WATER TANK IN THE BARN.

and barn are practically on level ground, hence the necessity for elevating the supply wholly or in part so that water may be easily distributed. The yards for the stock in this instance occupy a slightly lower elevation than is occupied by the house and barn. The supply tank in this case is made of good lumber, and is placed on a good, frost-proof brick wall which extends about two feet above the surface of the ground, and also descends to a point about four feet below the



ARRANGEMENT FOR WATER SUPPLY.

surface. The space below the tank is used as a sort of creamery room.

In this system the water is forced from the well through the pipe (A) by windmill power, directly to a forty-barrel galvanized tank (B) located in the garret of the residence. From here it may be piped to any part of the house. An overflow pipe (E) taps the tank near the top and conducts the water to the large cypress supply tank. By this method the freshest water remains in the galvanized tank in the garret. The pipe (G) leads from this supply tank to wherever the water is required for use, to hog lots, stock tanks, etc. By this plan there is a permanent supply under pressure so long as the well or spring is not exhausted and the windmill kept in order.

Where all buildings are nearly on a level it is sometimes practicable to place the supply tank in the barn as indicated in the smaller figure. This makes it convenient to surround the tank with packing material so that the water does not freeze. If one will go a single step further and place the main drinking tank also inside this building, it makes an exceedingly convenient plan for watering stock in winter, because of putting down the lid at night, it is possible to practically exclude frost.

Nut Growing Profitable.

Nut growing is profitable, but it requires years to bring a nut tree to a stage of growth where it will pay well. Walnuts, chestnuts and butternuts will improve with cultivation. In a few years walnut trees will be so scarce that the farmer who has a grove will secure his own price therefor, the timber being exceedingly valuable.

Weeds as Food.

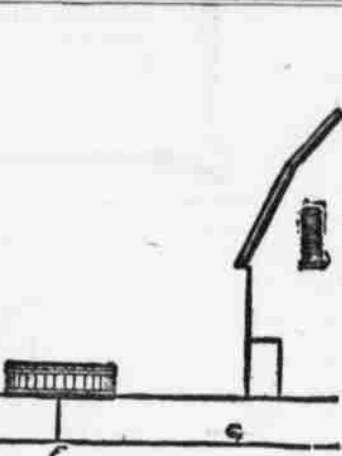
Some of the weeds can be used for food if prejudice against them does not exist. The dandelion is cultivated in France, but it is regarded as a pest here. Chicory is raised in European gardens. Pigweed is a delicacy to the Chinese, and young poke weed has long been known in the Southern States as edible. The common nettle, milkweed and mallows are used in Europe. Purslane (pursley), one of the most persistent and despicable pests in this country, is cultivated in Europe, being regarded as a very valuable plant.

Bacteria in Butter Wash Water.

In a bulletin issued by the Kansas State Agriculture College, C. W. Melick, assistant dairy husbandman, arrives at the following conclusions regarding the effect of bacteria in wash water for butter: It is both practical and economical to sterilize wash water for butter if it can be cooled and used immediately. Otherwise, the practice is a useless expense. A filter for creamery water is only a source of contamination and filth unless frequently cleaned and refilled with fresh filtering material. Water melted from ice, even though kept at 50 degrees Fahrenheit, may become filled with bacterial growth if allowed to stand for a few hours in a wooden tank from day to day without thorough cleaning. Great care should therefore be taken in the utilization of such water for cooling purposes. There is a direct relation between the bacterial content of the wash water used and the keeping quality of the butter. Water kept at a low temperature from 40 to 50 degrees Fahrenheit for a few hours inhibits the development of bacteria, or destroys from one-half to four-fifths of those present.

Alfalfa and Hog Growing.

Alfalfa pasture for hogs has proved to be very profitable. A hog grower says in the Indiana Farmer: "From March 1 to November 1, I keep 200 head of hogs, including some twenty-five brood sows, in a six-acre patch of alfalfa and cut the alfalfa twice, averaging at these two cuttings more than 32 inches in height. These hogs were in this alfalfa patch all the time every day except when the ground was too wet to permit them to run on it. I fed each of them three or four ears of corn a day, so I do not claim that 200 head of hogs could be run on six acres of alfalfa alone that length of time. I always feed corn to my growing hogs along with alfalfa. Of these hogs, 150 head averaged above 300 pounds on November 1. In wet weather I turn the hogs into a corral where alfalfa hay is stacked, and they seem to relish it, as



GOOD GARDEN BARROW.

a change, as much as the green alfalfa."

Barrow for Garden Use.

An illustration in American Agriculturist suggests the attachment to a wheelbarrow here shown. An ordinary wheelbarrow's capacity is too limited for convenience. The attachment can be slipped into the barrow, to the great increase of its capacity. The side pieces should be hardwood strips. The attachment may be supported by hooks from the strips to the top of the wheel-



GOOD GARDEN BARROW.

barrow's back if preferred. Such a barrow will come very handy when carting loose and bulky garden stuff.

Guinea Fowls.

These may profitably find room on many a farm and country place. Except during the first few weeks of their lives, they are very hardy, and require the least attention and feeding of any feathered stock. It is best to hatch and rear the young with hens. The old birds are delicious eating, while the young furnish the choicest tidbits. There is a good demand for them in market. The eggs are excellent for culinary purposes, though smaller than those from hens. The old birds usually pair when the number of males and females in a flock is equal, though a single male will take care of several hens. The guineas are excellent watch dogs, and no nocturnal intruder can escape their vigilance and their shrill alarm.

Testing Eggs.

A simple method of finding out the age of an egg is by means of the air space, which is situated towards the broad end of the shell. If the egg is held up between the hands before the light in a dark room, the air space can be easily discerned. In a perfectly fresh egg the air space is very small, but as age increases it extends, until, when the egg is three weeks old, the air space is about a sixth of the entire egg-space. With practice the age can be told to within twenty-four hours.

HORRORS IN LIFE OF A RUSSIAN COUNTESS.



COUNTESS
DELA
ROMANOFF

That the lives of Russian women are frequently mixed with tragedy, is shown by the history of the 23-year-old widow of the late Count Romanoff. The countess is the eldest daughter, by amorganatic marriage of Grand Duke Sergius, who was blown to pieces by a bomb over a year ago. She was married to Count Romanoff in February, last year, and when he was murdered a few months later she was forced to stand by and witness the crime. Then she was seized in her St. Petersburg home and made a secret prisoner by the officer in charge of the soldiers. She resisted him and escaped last June and has since been hiding in London.

WOMEN AS EXPLORERS.

One of Them Crosses Northern Labrador with Husband.

The arrival of Mr. and Mrs. Stephen Tasker at Fort Kimo on the east coast of the arctic peninsula, adds another to the list of women explorers, says the New York World. As probably the first white woman to cross northern Labrador, she has fairly won her spurs in a field of adventure for which her sex has of recent years shown a rare aptitude. Mrs. Tasker's feat will recall Mrs. Hubbard's venture into Labrador in the track of her husband's ill-fated expedition and the arctic voyage of Mrs. Peary. The return of Mrs. Max Fleischmann from a honeymoon spent in the arctic regions shooting polar bears illustrates new feminine ideals of a wedding journey.

The exploits of Miss Mary Kingsley on the lower Niger still challenge comparison with masculine standards. Accompanied only by native attendants, she penetrated for long distances through the bush in the face of frequent dangers. In her writings she showed rare insight and sympathy with the native point of view, which male explorers have not always done. The reputation made by Miss Annie Peck as a mountain climber is world-wide. From the Matterhorn to the Peruvian peaks, what difficult summit has she left unscathed? She was the first woman to climb Orizaba, and she scaled Mount Sorata, in Bolivia, to a height of 20,500 feet, almost exactly that of Mount McKinley, which Dr. Frederick A. Cook has just conquered.

In mountain climbing woman now asks no odds of man. Miss J. E. Duncan, whose explorations in Tibet carried her into regions previously unvisited, was the first European woman to cross the Changla pass, which is nearly 18,000 feet above the sea, 1,400 higher than any pass crossed by the British expedition to Lhasa. Mrs. Bullock-Workman has scaled great heights in the Himalayas. In April last Mrs. Laura Fitzgerald, an American, was reported to have left Mogador to explore the great Atlas mountains, among which are summits 14,500 feet high. Mountain climbing being in extreme altitudes a test rather of vital endurance than of muscular strength, women who have cool heads find it not beyond their powers. Fitzgerald camped for months at the base of Aconagua, unable to get to the top, although there were no insuperable difficulties except the strain on the heart and lungs. There are probably many women who could with training have staggered with his Swiss guide to the summit.

Right Side for the Heart.

Teacher—Johnnie, on which side is your heart?

Johnnie—On the right side, teacher.

Teacher—No, Johnnie; it's on your left side.

Johnnie—Yes, ma'am; that's what I said.

Teacher—What you said?

Johnnie—Yes, teacher; the left side is the right side for the heart.—Cleveland Plain Dealer.

Held Back.

"That big foundry over there can't get ahead very fast."

"Why not?"

"It's always casting anchors."—Cleveland Plain Dealer.

One reason people frequently take a lawyer's advice is that they have to pay for it.

Granted in Advance.

The young doctor who had lately settled in Shrubville had ample opportunities to learn humility, if nothing else, in his chosen field.

One day he was hailed by an elderly man, who requested him to step in and see his wife, who was ailing. At the close of his visit the young doctor asked for a private word with the man.

"Your wife's case is somewhat complicated," he said, "and with your permission I should like to call the Brookfield physician in consultation."

"Permission?" echoed the man, indignantly. "I told her I knew she ought to have a good doctor, but she was afraid you'd be offended if she did."

The Original Porous Plaster.

It's Allcock's, first introduced to the people sixty years ago, and today undoubtedly has the largest sale of any external remedy—millions of people are daily throughout the whole civilized world. There have been and are, to be sure, but never has there been one to even compare with Allcock's—the world's standard external remedy.

For a weak back, cold on the chest or any 1 cal pain the result of taking cold or overstrain, the only thing we know of to compare with this famous plaster.

Table Mustard.

Common, ordinary, every-day table mustard obtained its name in a remarkably curious way. It is said that Philip, Duke of Burgundy, granted to Dijon some armorial bearings on which was the motto, "Mout me tarde."

This was later carved in a stone archway of the city, but as the years went by the central word became effaced. A certain firm in the city was engaged in the manufacture of snuff, which was the former name for mustard, and, wishing to label its products with the city arms, copied the incomplete motto.

Thus, ignorant people seeing the name "mout-tarde" on the jars, fell into the custom of calling the contents by that title. In time "mout-tarde" was contracted to mustard (mustard).

Mexico now has 60,000 American residents and \$325,000,000 American money.

Those Kindly Persons.

It happened in a railway station. The baby cried and cried and cried. "Perhaps he desires his bottle," suggested a fatherly looking old party.

"He has not been raised on the bottle," cuttingly replied the handsome young woman who held the infant.

The baby's shrieks grew terrific. He made unmistakable signs that he wanted his dinner.

"Beg pardon, ma'am," said the elderly party, "but may I suggest that you—er—permit the child to—er—take nourishment?"

"This baby belongs to my sister," replied the young lady, blushing furiously, "and she won't be here for half an hour. I'm holding it for her."—Louisville Courier-Journal.

Mothers will find Mrs. Winslow's Soothing Syrup the best remedy to use for their children during the teething period.

Philosophically Logical.

Mrs. Gayboy—That's where you are wrong. You don't seem to understand the use of words. If a thing is "round" it can't be any "rounder."

Mr. Gayboy—Then there is no such thing as a "rounder." Thanks, dear. You won't call me one again, will you?

Beware of Ointments for Catarrh that Contain Mercury.

Mercury will surely destroy the sense of smell and completely derange the whole system when entering it through the mucous surfaces. Such articles could never be used except on prescriptions from reputable physicians, as the damage they will do is tenfold to a good you can possibly derive from them. Hall's Catarrh Cure, manufactured by F. J. Cheney & Co., Toledo, O., contains no mercury, and is taken internally, acting directly upon the blood and mucous surfaces of the system. In buying Hall's Catarrh Cure be sure you get the genuine. It is taken internally, and made in Toledo, Ohio, by F. J. Cheney & Co. Testimonials free. Sold by druggists, price 50c per bottle. Hall's Family Pills are the best.

Too Amusing.

Girl—What made you tell on me when I was whispering to you?

Boy—Because you weren't whispering loud enough so I could hear what you were talking about. —Detroit Free Press.



Have You A Cold Room?

In most houses there is a room without proper heating facilities—to say nothing of chilly hallways. Even though the heat of your stoves or furnace should be inadequate to warm the whole house there need not be one cold spot if you have a

PERFECTION Oil Heater

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It will heat a room in no time and will keep it warm and cozy. Operated as easily as a lamp and perfectly safe. Wick cannot be turned too high or too low. Gives no smoke or smell because fitted with unique smokeless device. Can be carried about, which cannot be done with an ordinary stove. The Perfection Oil Heater is superior to all other oil heaters and is an ornament to any home. Made in two finishes—nickel and brass. Brass oil fount beautifully embossed. Holds four quarts of oil and burns nine hours. Every heater warranted. If not at your dealer's write nearest agency for descriptive circular.

THE Rayo Lamp

is the safest and best all-round household lamp. Made of brass throughout and nickel-plated. Equipped with latest improved burner. Every lamp warranted. An ornament to any room whether library, dining-room, parlor or bedroom. Write to nearest agency if not at your dealer's.

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