...OLTURAL.

...OF INTEREST RELATIVE ...FARM AND GARDEN.

WATER FOR FOWLS.

Did you ever notice how often a hen will go to a vessel of water to get a drink, if it be convenient, in course of an hour? If you put a fresh lot of water before fowls, did you ever watch the eagerness manifested to get there first? When such need of drink is so plainly seen, does it not seem a cruel thing to let hours, days or even weeks pass without furnishing the necessary supply? It is stated that three-fourths of the composition of the egg is water. When the hen is not conveniently supplied with the necessary article do you suppose she can derive enough moisture from what she can gather about the yard to manufacture an egg every day, or even every other day? All who are interested in the comfort and welfare of the creatures around them will do what they can to alleviate the suffering that may result from thirst. Those who have not the time to supply fresh water every day or two can construct a fountain in some shaded place which will furnish a supply until the water is exhausted. Take a ten-gallon keg with a small auger so that a row of them may be close to the bottom. Construct a cover to this, the rim of which may be an inch and a half larger in diameter than the head of the keg, and deep enough to cover the holes. Fill the keg with water from the perforated end, place the water-tight cover on it, invert it, and the water will rise in the extra width of the cover until the holes are covered, and there it will stand, a three-quarter inch trough all around the keg, a fountain which will keep fresh in the shade, and into which the fowls cannot step, and thus befoul the water with their feet.—*Dakota Farmer.*

HOME MADE CHEESE.

The first requisite is good milk, and that presupposes good feed for the cows. If there are wild onions or other weeds that flavor the milk unpleasantly it is unfitted for cheese. Everything used about cheese making should be clean and fresh.

The best rennet I have used is Chr. Hansen's rennet tablets. No. 2 is the most convenient size where there is only a small amount of milk. If you are not convenient to some city it will be best to send to some reliable firm for these. Country dealers are apt to ask too much. A druggist asked me $1.50 for a box of fifty last summer. The regular price is fifty cents.

A dairy thermometer is quite necessary, and a wooden or tin or zinc hoop. The size should correspond to the amount of milk you expect to use daily. Eight inches in height and diameter will be large enough for seventy-five to 100 pounds of milk. If there is not milk enough in one milking to make the cheese the size you wish, the night's milk can be set away and warmed with the morning's milk. It should be heated to about eighty-five degrees. One No. 2 rennet tablet dissolved in a teacupful of cold water will coagulate 100 pounds of milk in less than an hour, if the milk is of the average quality. When it is curdled cut with a knife in small chunks that the whey will separate readily. I suppose you can buy vats from which you can drain the whey conveniently and presses that are more costly and handy than those we use on Kansas farms. But as I only made cheese for home use and with as little expense as possible, I will own that I dipped the curds into a clean flour-sack and hung it in a cool place till well drained, then put a clean cheese cloth into the hoop and the curd well incased in that; then covered with a board that just fitted the hoop, and placed a jar that also fitted the hoop on the board and filled the jar with stone and flat-irons, etc., about 100 pounds to each ten pounds of cheese—not all put on at once, but added gradually during the first half day, with care to keep the cheese straight. After twenty-four hours the cheese should be turned the other side up and again pressed. When taken from the press it should be kept in a cool, dry place and turned over every day.

I have only made cheese two summers, and though they were in great demand (at home), yet I would like to improve, and hope some one who has had more experience will improve on my "directions."—*Farm, Field and Stockman.*

FEEDING FOR BUTTER.

One by one the scientific authorities are helping to put a quietus on the misleading and injurious statement that the proportion of butter in milk can not be increased by feeding. It is strange that such a heresy should have obtained currency among those to whom dairymen look for instruction. The writer, led by long experience to differ from the prevalent belief, has singly fought the error and has sustained the opposition to it alone for some years past. And now the professors are coming to the rescue, one by one, and already a powerful influence for the good of dairymen is exerted to encourage them to feed skillfully for increasing the fat solids in the milk. First, the Wisconsin Experiment Station, in a bulletin, declared that by suitable feeding the proportion of butter fats in milk may be increased; then Professor Phelps, of the Connecticut Station, and now Professor Caldwell, of the New York Station, follow in making the same statement. Eight or ten years ago I gave a detailed account of the effects of various foods in this direction, observed through a whole year's experimental feeding, which has been reprinted in the *American Dairyman's Manual*, and which shows how various foods, rich in oil, tend to increase the proportionate quantity of the butter in milk, and how they also affect the quality. This last effect has been recently noted by the chemist of the agricultural department at Washington, and reported in a bulletin, and this is exceedingly noteworthy as showing the importance of choosing those food whose use will not deteriorate the quality of the butter.

This point may be worthy of some explanation. For some years past physicians have known that fats in food or in medicinal preparations, when taken into the stomach, are not digested, but are mixed with the digestive fluids in the form of an emulsion, precisely in a similar manner to the mixture of the fat globules in cream, and that this emulsion is absorbed without change by the villi of the intestines, which are very fine tubes, set so closely together as to leave the appearance of the pile of velvet, and whose office is to absorb the nutriment and pass it into the thoracic duct, the large vessel which is found passing along the spinal column and close to it, and which conveys the nutriment directly into the blood, so that the minute globules of fat in the food thus pass directly into the blood, by which they are distributed to the various parts of the body, and of course to the minute glands of which the milk is formed. And when this glandular substance is broken down to form the milk, these same particles of fat are let loose and escape into the milk and form the butter.

Thus, tracing the fat in the food in which it exists in the form of minute drops or globules in the cells which make up the tissue of plants or grains, we can follow it directly into the milk, without change; and thus are able to account for the effects on the milk of the various kinds of foods given.

The knowledge is of fundamental importance to the buttermaker, and the whole subject is worthy of the most careful study. It relates, too, to the varying ability of the cows to extract the fats from the food, for cows vary very much in this respect, and some can healthfully dispose of twice or three times as much fat as others, and some, as in the case of the Jersey cow Princess the Second, may be able to actually convert seven pounds of fats in the foods into butter in one day. This is a physiological function and ability, and is thus to be inherited and conveyed by breeding, while it is excited and encouraged—educated, as it may be said, or led out, as the word signifies—by feeding and training. Thus, it may not be right to think or speak of such cows as phenomenal any more than we should call the extraordinary young horses Axtell or Sunol phenomenal. They are not so at all. They are instances of the result of human power skillfully exerted over the domestic animals, and every one of the numerous examples of this successful exercise of man's dominion over creation should be an incentive to exertions in the same way by every intelligent dairyman in the improvement of his herd, and in his pursuit of success and profit in his business.—*American Agriculturist.*

FARM AND GARDEN NOTES.

Clean, careful culture compensates.

Feed hellebore to the currant worms.

Bad farm hands contaminate children.

Grow something to show at the fair.

If the soil is dry, cover seeds deeper than when it is moist.

Never forget that pigs in clover enjoy themselves and grow.

Large growing trees should not be planted in small yards.

A well-fed sucking pig is worth two or three half-starved runts.

The old rule is to plant corn when the apple tree is in blossom.

A wise farmer learns from his mistakes as well as from his successes.

Look over last year's bean poles, and if you need more get them ready.

Having begun fruit-growing, stick to it. It is not a business to be picked up one day and dropped the next.

Constant nagging wears away the spirit of the best farm team, precisely as it wears out the patience of men and women subjected to its painful influence.

Do not dose yourself or your stock with medicine for every little ill. Diet and rest. Sleep, and a moderately empty stomach are the best medicines in the world.

"We churned sweet cream two hundred times and sour cream the same number, as an experiment, and failed to find any regular difference in yield of butter," says the *American Dairyman.*

Fruit trees, pear trees particularly, should grow rapidly when young, and not bear much, in order to attain size and bear heavy crops through long lives. Early bearing dwarfs and weakens.

"Buy the Best and Breed Better," is the heading of an editorial in the Jersey *Bulletin.* It is axiomatic and good enough for a motto, without comment. The man who obeys the injunction cannot fail to succeed.

The borers or grubs may be kept out of peach trees by washing the bark with lime wash in which a few drops of carbolic acid are mixed. This should be applied at once and renewed if it is worn off by the weather until July or August.

Mercurial ointment is poisonous, and it is the cause of the slabbering or salivation of the cow. It is not the best remedy for lice, either, as a mixture of equal parts of sweet oil or linseed oil with kerosene is more effective and is perfectly safe.

The mainspring of farming is the seed. It is more important to secure good seed than to prepare for its reception in the soil. The failure of seed to germinate may cost the farmer the loss of an entire crop. The seed is something that the farmer should carefully examine now.

Every farmer should raise pigs and cure his own bacon. There is no meat equal to that produced at home. You will at least "know what you are eating," which is a valuable point in favor of home-raised meat, as only healthy, thrifty stock will be used for home supply.

A prominent poultryman in the East says: "My poultry pay all my family and farm expenses. I take as much care of my chickens as some people do of their children. In winter I keep a fire in their home quarters, and they lay every day in the year. I had rather have hens than cows for profit."

WORDS OF WISDOM.

Guilt is always cowardly.

Actions are ideas in motion.

The man who does nothing is nothing.

A polished rascal is all the more a rascal.

What a man is, depends upon what he loves.

If the heart is pure the life will be all right.

Great haste can never overtake a lost opportunity.

The best soldier is the one who obeys orders the best.

The shortest cut to wealth is through the lane of contentment.

Some men, during their lives, provide for everything but death.

The grandest piano ever made had to be tuned by a tuning fork.

The way to perform a great work is to do a little toward it every day.

No man is in a condition to enjoy riches until he can be happy without them.

Statues are moulded with little touches. Characters are formed in the same way.

When all men become loveable, all will be loved, and will be loveable when they love all others.

When truth goes out to battle it never returns bootless. It is only falsehood that is overcome.

A moment is all the time it takes to die. From life to death is measured by two ticks of the clock.

The poorest soul on earth is the man who has no time or inclination to do anything but make money.

A mule will follow a bunch of hay all day, but he hates to be driven to pasture. There is a good deal of mule in man.

You can never go back to where you were this morning. The wheels of time revolve only in one direction. They never turn backward.—*Indianapolis Ram's Horn.*

A Strange Inspiration.

A New Yorker, famous in the world of letters, awoke one night recently from a sound sleep. So far as he knew he had not been dreaming. He composed himself again and was sinking into slumber when there came into his mind, as though out of the darkness, two lines of verse, rhythmical but senseless. They kept him awake, and after a time two lines more, equally smooth and absurd, presented themselves to his consciousness. It seemed to him as though some one were dictating nonsensical doggerel to him from the shadows of the night. Unable to sleep he arose and went downstairs to his library. He sat quiet in the darkness for a while, hoping that he would fall asleep in his chair. But a second verse, perfect in form but absurd in meaning, came into his mind, and then a third and fourth. Lighting a lamp, he took up a pen and wrote down rapidly the lines that had come to him. As he wrote, new verses fell from his pen, and when he had finished his task a poem of eight stanzas lay before him. He was surprised to find that, taken in their entirety, the verses were far from meaningless.

He at once put the poem in an envelope and directed it to a publishing firm. Placing it among other letters to be mailed by a servant in the morning, he returned to bed and at once fell asleep. Upon awaking he was uncertain whether he had dreamed of writing a poem or had merely transcribed one. As his letters had been posted he had no means of deciding the question. His uncertainty was pleasantly relieved the next day, however, by the receipt of a handsome check from his publishers and a letter praising his poem. The peculiarity of this case which makes it very different from the celebrated instance of Coleridge and his poem of "Kublau Khan," lies in the fact that the author had not been dreaming. He awoke from what seemed to him a dead sleep, and found that his imagination had produced, without conscious effort on his part, a perfect poem.—*New York World.*

Turtles That Draw Boats.

Harry Rockwood, a young man who has been around the globe more than once, was telling some acquaintances about his travels in the Richelieu last evening. Some one asked him what was the strangest sight he had seen in the Old World.

"That is a hard question to answer," he remarked, "but I think a turtle-ride in the Gulf of Siam was as unique as anything. While going over China I stopped at Hatian, a port on the Gulf of Siam, and there enjoyed a strange experience. The natives make the immense turtles common in those ports do service in drawing boats. They swim rapidly, and are worth only a few dollars a pair. They are tamed easily and then fitted out with a light harness and reins. They are attached to the small boats with traces. I rode about twenty miles one day, the animals being managed by the owner of the boat. After they were hitched up we jumped into the boat and the man took up the reins and we were off. The animals paddled along evenly and we went faster than one could row. They are guided by a long stick not unlike a fishpole, and can be handled as easily as ponies. It is not often that any trouble is experienced, but last summer a young man was drowned. Just as he was starting out from Hatian his stick broke, and instead of coming back then he went out to sea, thinking he could guide the turtles by the reins. He would pull up the reins until he upset the animals, but they would soon regain the use of their flippers and go right ahead for the open sea. At the last resort he cut the traces and let his harness and the steeds go. But he was so far from shore that he perished before drifting in.—*Chicago Tribune.*

The Corliss engine used in Machinery Hall during the Centennial Exposition at Philadelphia, is now driving the vast machinery of the Pullman Car Works, at Pullman, Ill.

HARDY shrubs and flowers should be selected with a view of having a supply of flowers from spring until autumn. As some flowers bloom early and others late, selections of varieties best suited to the soil and for each month will assist in ornament the garden until frost appears.

Pine Lands

Are now in demand and persons having such lands for sale will consult their best interest by writing to Joe S. Nix, Atlanta, Ga., who makes a specialty of the sale of improved steam engines, saw mills, cotton gins and other machinery, and also of the purchase of timber lands for persons who desire to engage in sawmilling.

Asking a man to drink in Boston is no longer a "standing offer."

A Remarkable Showing.

It is estimated that Smith's Tonic Syrup made by Dr. John Bull, of Louisville, Ky., is used in not less than eight hundred thousand families. In many localities it has entirely taken the place of quinine, having all the good qualities of this drug and none of its evil tendencies. Its use has a most beneficial effect on the circulatory system and mucous membrane. It instills life into these important portions and prevents congestion. It reduces inordinate temperature and allays all feverish symptoms. It is a true anti-periodic and will prevent or cure chills and fever with invariable certainty. In malarial districts, where colds, fevers, Influenza, etc., are common, it is almost a sacred duty to take Smith's Tonic Syrup occasionally, as by this means the good health of the family is preserved.

Spinsterhood is often the flirt's punishment for contempt of court.

Please Don't Forget It.

That Dr. H. James' Cannabis Indica is prepared in Calcutta, India, from the purest and best Native Hemp, and is the only remedy either in that country or this that will positively and permanently cure *Consumption, Bronchitis, Asthma, Nasal Catarrh* and *Nervous Debility* or break up a fresh cold in twenty-four hours. $2.50 a bottle, three bottles for $6.50. Craddock & Co., Proprietors, 1032 Race street, Philadelphia.

"This is a hard set," as the hen said when she was trying to hatch a porcelain egg.

Children that are peevish and sickly frequently owe their disposition and distress to the presence of worms in their little intestines. They will be more healthy, happy and pretty if you give them Dr. Bull's Worm Destroyers.

Audacity does not make an artist, but if a woman paints you can tell it by her "cheek."

Hall's Catarrh Cure is a liquid and is taken internally. Sold by Druggists, 75c.

It is not polite to pocket anything at the table, unless it happens to be a billiard table.

Smith's Tonic Syrup is giving universal satisfaction in this place.—*Jno. H. Bingham, McKinney, Texas.*

The haymaker will do mower business very soon.

FITS stopped free by DR. KLINE'S GREAT NERVE RESTORER. No Fits after first day's use. Marvelous cures. Treatise and $2 trial bottle free. Dr. Kline, 931 Arch St., Phila., Pa

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A POINT

Was well taken by a Judge in a Georgia city recently. A highly respectable and usually prompt citizen, who had been summoned to serve upon the jury, depended upon a cheap watch, and arrived twenty minutes late. The Judge promptly fined him $50, indicating that in this age of fine watches at reasonable prices, his excuse was not sufficient to relieve him of the fine.

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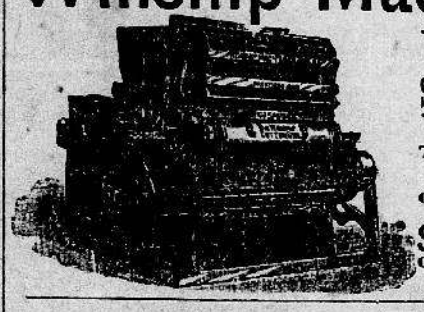

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