

Agricultural.
SHELTER SAVES FOOD—IS PROFITABLE.

Every keeper of animals would actually profit by a little study of chemistry and physiology. Here is a short lesson: All kinds of food, as hay, grain, bread meat, etc., are like wood, mainly composed of charcoal (carbon) and water, with considerable nitrogen in some of them. To prove this, strongly heat any of the above food materials in a close, wet, better, under glass. Water, with some nitrogen gas, will be driven off and can be found in the glass receiver, while only charcoal will remain. Let it burn more air and the charcoal itself will unite with the oxygen of the atmosphere, and also go off as a transparent, lustrous carbonic acid gas. This chemical action sets at liberty heat that was before concealed or assembled, the same as when wood or coal is burned rapidly in a stove, producing an active fire; or as when wood decays, but gives off heat so slow as not to be observed—We must have an everburning fire in both the animal and human system. If the surrounding atmosphere is cold, and carries off heat rapidly from the surface of the body, we must increase the internal production of heat by putting on more food, or by surrounding the body with a covering that prevents the escape of much heat.

It is not plain then, that by keeping animals warm, by means of close buildings, or shelter against heat-stealing winds, less food will be needed, and there will be less waste of flesh in making heat? Any arrangement of shelter, ever stable, shed, blankets—anything that will prevent the natural warmth from passing away from the surface of any animal—will be a great saving of food required to keep up the absolutely necessary internal life warmth; will prevent loss of flesh; will allow the food to go more to adding to weight of flesh, or the yield of milk, or of wool. Shelter and external warmth in cold weather are most economical and therefore profitable in the keeping of farm stock.—*American Agriculturist for December.*

WHAT TO STUDY.

Pope, the poetical philosopher said, "The proper study of mankind is man, and yet, how little is the real science of man studied. If people understood and loved the health, and well-being, without of sorts would resort to a common sense like Barlock Blood Bitters, many of the "ills that flesh is heir to" might be effectually remedied. It invigorates and regulates all the secretions to a healthy action.

NOTES OF LIVE STOCK IN WINTER.

The farm animals at this season are directly dependent upon the care and attention of the farmer. To pass the winter with profit they must be well kept. Animals are very complicated engines, and must be run by careful engineers. The food they receive is the fuel, and the daily rubbing, cleaning, etc., may be likened to the inspection, cleaning and oiling of the engine. The fuel must be equal to the demands made of the animal engine, else the machinery will be run at a disadvantage, and therefore with diminished profit. When the water is low and the fire almost out, the engine is a source of loss to the owner. On the other hand the fire may be brisk, and the boiler well supplied, but some screw is loose, or a part rubs another too closely and the friction thus produced neutralizes much of the force. So in the animal machine, all the parts must work harmoniously together, or in other words there must be perfect health to obtain the best results. An animal may have the best food in sufficient quantity, and still possess a hard winter, and without profit to its owner. Food of the best quality without shelter is in the animal economy like fuel in an engine that is rusty and loose and out of order. Both are expensive methods of arriving at desired results. It takes too much force to run the machine in such cases. As a farmer to have a good engine kept in good order, so it is to have an animal in health and comfort. The thoughtful farmer will see many other points of likeness between the animal machine and the one constructed by human hands, but this is enough to suggest the importance of keeping farm animals in a healthy and comfortable condition by means of warm stables with clean floors and pure air.—*American Agriculturist for December.*

ITS WORK IN STRATHROY.

It often happens that the opinion of an experienced man, an expert, if we so call him, conveys greater force than an aggregation of unselected, unselected testimony. And then, too, personal experience or observation is so much more convincing than mere assertion. Tried to habits of analysis and logical accuracy, and from the very nature of their daily occupation, given to the most incisive criticism of anything of a proprietary nature, chemists, as a class, hesitate very long before indorsing anything of a remedial nature, whose virtues have been announced through the public press. St. Jacob's Oil, however, is so universally successful and so unvaryingly accomplishes all that it promises that the able chemist W. J. Dyas, Esq., of Medical Hall, Strathroy, Ont., sends, with his friendly recommendation, the following from David Harrison, Esq., 9th Con., Township of Carleton Place,—"Having suffered with inflammatory rheumatism since last July, and hearing of St. Jacob's Oil, I sent for a bottle of the article on the 15th of October. At that time I was confined to the house, and could not possibly get out of bed without assistance. After four applications of the Oil the pain ceased entirely, and I was able to go about Strathroy in less than a week. I can give too much praise to St. Jacob's Oil for what it has done for me, and I believe it to be a most reliable remedy in rheumatism. Its wonderful efficacy should be brought to the knowledge of everybody.

A FOOD BATH FOR MILK.

Hay is not rich enough in protein for the best production of good milk; the addition of roots only makes the matter worse; corn meal, while improving the rest somewhat, cannot alone with hay make it what should be. The best ration is not, of course, necessarily precisely the same for all cows, and for all conditions, that which would be profitable feeding in

one case might not be so in another. But for a guide to work by, I will have one that is proved to be better, we may as well take the standard ration given on the high authority of Emul Wolf, and based on the results of careful experiments, even if it is not all in this way always be led to the best results, it will be better than no guide at all, in trying new methods of feeding and of supplementing the fodder produced at home by imported feeds without any standard. A cow in milk should have, per day and per 1,000 lbs. live weight, 24 lbs. of organic matter or vegetable substance estimated as perfectly dry, containing 3.5 lbs. of protein, 0.4 lb. of fat, and 12.5 lbs. of carbohydrates, all reckoned as digestible, that is to say, all fodder contains some indigestible protein, fat, carbohydrates, and other matters, but these are counted out in this make-up of the ration.—*For. & Cultivator in American Agriculturist for December.*

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It is at the head of the list for all purposes of a family medicine. It is used with unprecedented success, both internally and externally, in all cases of rheumatism, neuralgia, sciatica, sprains, strains, bruises, scalds, frost bites; ulcers, and often cures asthma.

ELLI PERKINS' STORIES.

THE ENGLISHMAN WHO COULDN'T SEE A JOKE.
The English people are the slowest people on earth to see a joke. Yesterday I was riding over the Grand Trunk, near Toronto, and the typical Englishman, with eye glasses, and a pair of glasses hung around his neck, and a bundle of papers and umbrellas under his arm, got on the train.

THE LIME KILN CLUB.

"I should like to hev de secretary read do follerin a worry loud letter," said the president as he handed over a letter.

DEAR BRO. GARDNER.

There was deep silence in the Hall for a long minute, during which the thermometer went up 13 degrees. Then the president said:

RESPECTFULLY.

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ED. X. A. WILKES, of Little Falls, N. Y., one of the best authorities in the world on Cheesemaking and Creameries, will contribute a series of articles on "VEGETARIAN" diet, and will also answer all questions sent by subscribers in the MAIL.

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