DAIRY AND POULTRY.

INTERESTING CHAPTERS FOR OUR RURAL READERS.

How Successful Farmers Operate This Department of the Farm-A Few Hints as to the Cure of Live Stock and Poultry.

Destroying Our Market Abroad.

The secretary of agriculture of Mis-

souri, in his last report, says: Adulterated Cheese, -One of the worst features of this business is that imitation butter compounds and adulterated cheese are destroying the market for United States dairy products abroad. To illustrate, in 1880, the United States sold in Great Britain one hundred and twenty-eight million pounds of cheese, while Canada only sold forty million pounds or less than one-third what the United States did. In 1898 this condition of the trade was reversed, the United States selling to Great Britain only forty-six million pounds, while Canada sold one hundred and fifty million pounds, or more than three times the amount sold by the United States, a condition that may be attributed almost solely to the fact that in this country the laws permitted manufacturers to brand skim birds dropped off one by one, starved milk and filled cheese as full cream ar- to death through lack of animal food, ticles, and as such it was exported and so that only 20 of the 33 were alive at sold.

Adulterated Butter.-The same increase in the sales of Canadian butter and decrease in the sales of butter from the United States may be noted since butterine has been manufactured and placed upon the market in imitation of and sold as creamery butter. Indicating this decrease in 1898, New York exported to Great Britain only sixty-five thousand packages, while Montreal exported two hundred and twenty-seven thousand packages, and in 1899, with Secretary Wilson, of the United States department of agriculture, making every possible effort to extend the sale of dairy products in Europe, New York exported one hundred and three thousand packages, while Montreal exported four hundred and twenty-five thousand packages, or more than four times as much as this great country with its largely extended area, its abundance of all kinds of stock, food and grasses and its superior climatic conditions. The pure food products of this country are equal in character to those of Canada. The demand should be as good and the rope may be attributed to the fact that we have offered for sale in that country fraudulent imitation articles, that we have lost the confidence of consumers and brought into question the purity of our product.

Making a Natural Starter.

ous plans, but one which is satisfactory enough is as follows: A perfectly healthy cow from a cleanly, well kept dairy is selected. After the under parts of the body are carefully brushed, and the udder moistened with a damp cloth, the first few jets of milk from the teats are rejected, and the rest is drawn into a sterilized vessel. This is then covered at once and taken to the dairy, heated to a proper temperature and passed through a separator. The skim milk thus obtained is again collected in a sterilized vessel, carefully covered, and set aside to sour. After it has become properly soured it serves as a starter for the cream ripening process. Of course there are many other methods of obtaining a natural starter, for a natural starter is nothing more than a lot of skim milk or whole milk obtained under specially cleanly conditions from an exceptionally good dairy and allowed to sour

naturally. Of course it is impossible for the dairyman to be sure that such a natural starter contains the species of bacteria that is wanted for ripening. Sometimes it may contain proper species and at other times an unfavorable species. Logically then the use factory. But our dairymen are not so preceding year. much interested in the logic of the method as they are in practical results, and care not whether the process they use is theoretically the best, provided it gives them a good quality of butter. There can be no question that the use of natural starters thus made has been a very decided advantage to the butter maker as it has been adopted in the last ten years.

Clean and Unclean Dairies.

A California milk inspector has this to say: Unclean dairies have been so widely advertised in official reports and newspaper articles that many citiof getting their milk. And many perthe same effect also on the use of pure one of the stragglers now and then. milk. It is unfortunate that the excellent features of the best dairies are not given as much prominence as are relation to poultry keeping that gives the defective features of the worst, so more satisfaction than a well-built as to show those interested that good | poultry fence of wire on posts that are milk is on the market as well as bad, so deeply set they will never incline in lowed, greatly to the benefit af all con- vexation. The posts should be so deepcerned. Although only a few dairies ly set that they will stand wind and first-class dairies and others like them of frost.

could be trought to the attention of the public as forcibly as the worst types, a decided step would be taken toward the improvement of the general city supply.

Powls With or Without Most Foods. The Geneva experiment station has, as previously mentioned in the Farmers' Review, been making trials in feeding fowls with and without meat in their food. A part of the report says: The results were convincing, almost startling, in the case of ducklings fed the contrasted rations. The first lot of ducklings was fed on corn meal, ground oats, animal meal, and a little skimmilk and dried blood. The second lot was fed on wheat bran, corn meal, ground oats and skimmilk or curd. Both lots were fed green alfalfa; and sand and coarse grit were freely supplied. Before the experiment had been long under way it was not unusual to notice scrawny, grain-fed birds, with troughs full of good, apparently wholesome food before them, standing on the alert and scrambling in hot haste after the unlucky grasshopper or fly which ventured into their pen; while the contented-looking meat-fed ducks lay lazily in the sun and paid no attention to buzzing bee or crawling beetle. The 32 meat-fed birds lived and thrived; but the vegetable food the close of the fifteenth week of contrasted feeding. They were then fed for four weeks on the meat meal ration, and made nearly as rapid gains as the other lot at the same size, two months before; but they never quite overcame the disadvantage of their bad start on grains alone. Some of the comparative averages for ten weeks from birth, the period of profitable growth for the larger ducks, are shown graphically below, the first figure or upper line representing the meat fed birds in each instance:

Total weight attained. Cost of food for Dry matter in food for I bound gain.

3.11bs.

5.2 lbs. In conclusion, then, it may be said that rations in which from 40 to 50 per cent of the protein was supplied by animal food gave more economical resupply far in excess. The unfavorable suits than rations drawing most of condition of our butter trade with Eu- their protein from vegetable sources. The chief advantage was in the production of rapid growth, although the cost of production is also in its favor. While inferior palatibility may have had something to do with the marked results, especially with the ducks, the whole bearing of these experiments and others not yet reported seems to in-The method of making this natural dicate that the superiority of the one starter is simple. There may be vari- ration is due to the presence in it of animal food.

A recent government report treats of the health and condition of horses for the year ending March 31. It summarizes as follows:

Losses .- Of the 10 states each est!mated to contain 500,000 horses or upward, all except Missouri report losses from disease somewhat less than those of the preceding year. The year 1898-99, however, was characterized by a rate of mortality slightly higher than that of any previous year for which figures are available, and accordingly a comparison of the year now under discussion with the ten-year average is less satisfactory. Ohio, Indiana, Iowa, Kansas, Nebraska, and Texas report a rate of mortality below their respective ten-year averages; in the case of Pennsylvania and Missouri the percentages of loss agree exactly with the ten-year averages, while in New York and Illinois they are slightly above such averages.

Condition.-The condition of healthfulness and flesh on April 1 was very high, being only 3 per cent below the normal, as compared with 5.6 per cent of a natural starter is very unsatis- below the normal on April 1 of the

Chicks on Free Range.

We notice that one poultry writer is advocating giving the old hen full liberty to drag her chicks anywhere. He says that if this be done the chicks will be hardier, more fully developed and in every way better birds when mature than those reared to the weaning age with the hen confined to a coop and a few square rods of ground. But we would suggest that the trouble comes in the fact that there are likely to be very few birds to mature. By the time the old hen has dragged the zens think well-conducted dairies do lives out of some of them, and cats not evist, or, if they do, no way is and rats have had their pick, to say known by which one can be assured nothing of the bout with the gape worm, the number will be few. Nor sons will go without milk whenever are we convinced that it is healthful possible rather than run the risk of for a chick to be over exercised or that getting the dangerously impure arti- it is rendered hardy by being soaked cle which they are convinced is very with the dew or chilled by cold winds. common. Thus the scarce articles have | When a hen drags her chicks to a rethe effect of reducing the production | mote corner of the farm the mink or and use of impure milk; but they have cat finds it a good chance to gather in

Firm Fences .- There is nothing in A practicable plan by which this could any direction. It pays to have a firm be accomplished could easily be fol- fence. It will save a great deal of were visited, it was readily seen that rain, frost and soil moisture. This can at least a part of the milk going into be obtained only by having the holes Sacramento and San Francisco is pro- dug so deep that the bottoms of the duced with great care and can be re- posts will be below the region subject lied upon as a safe and wholesome to heaving in the spring, which does As already suggested, if these not necessarily mean below the region

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Theory may be well enough in its way, but lawyers and physicians prefer practice.

Piso's Cure cannot be too highly spoken of as cough cure.-J. W. O HRIEN, 322 Third Ave. N., Minneapolis, Minn., Jun. 6, 1900.

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If you have not tried Magnetic Starch ry it now. You will then use no other,

is friends and faces his enemies.

Foster as a Historian. Ex-Secretary of State John W. Foser has just completed writing a work on American history, which is to appear next fall.

Salt in Knife and Pork Handles. Handles of forks and knives are stilized for the storage of salt and epper under a new patent, each handle being formed of a tube, which has spring clips to hold it on the shank, with an internal reservoir for the salt or pepper, which is shaken through the ends.

Hopeful as to Results.

Witham, the Georgia banker, and his party of cashiers and pretty girls, left New York for the south the last of the week. There have been no marriages as the result of the trip, although it is understood that matrimony was one of the objects of the junket. There is the consolation of knowing that seven engagements have been made, however, and doubtless the weddings will take place in Georgia in due time.

An Aerolite in Soak.

Pawnbrokers take some curious pledges, but it is not often that they receive one from another world. A London pawnshop, however, exhibits in its window as an unredeemed pledge a magnificent earolite, a mass of fused metal that fell, as it were, from heaven to provide a poor man with his beer. A ticket bears the statement that it was brought from the arctic regions by a sailor.

More than half the champagne sold in France in 1898 went to England.

United States courts in New Mexico cost the government about \$75,000 a

year.

High Rental for a Botel.

The Park Avenue hotel, at Fourth ter. avenue and Thirty-third street, New York, has passed into new manage-It was leased last week for ten years for nearly \$1,000,000. This rental is 25 per cent more than was paid Foot-Ease, a powder to be shaken into for the last ten years. The edifice was built by Alexander T. Stewart, who intended it for a weman's hotel. It has been a quietly fashionable hostelry for a numebr of years.

> It is estimated that the number of Germans and their descendants in the United States is 15,000,000.

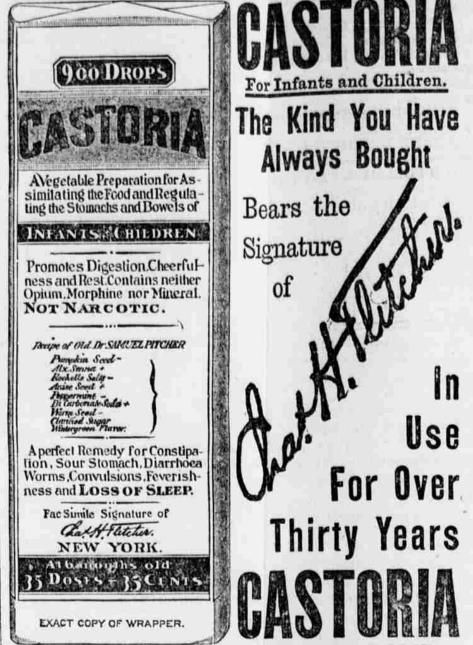
By a recent militia order British infantry batalions will henceforth regiments.

A man of many callings-the hucks-

A son of Li Hung Chang is to enter the Harvard Law school next fall,



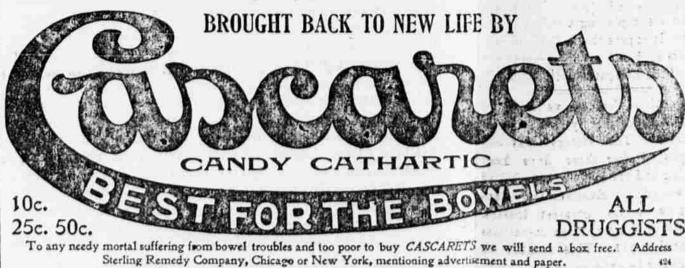
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He thinks he lives, but he's a dead one. No person is really alive whose liver is dead. During the winter most people spend nearly all their time in warm, stuffy houses or offices or workshops. Many don't get as much exercise as they ought, and everybody knows that people gain weight in winter. As a rule it is not sound weight, but means a lot of flabby fat and useless, rotting matter staying in the body when it ought to have been driven out. But the liver was overburdened, deadened-stopped work. There you are, with a dead liver, and spring is the time for resurrection. Wake up the dead! Get all the filth out of your system, and get

ready for the summer's trials with clean clear blood, body, brain free from bile. Force is dangerous and destructive unless used in a gentle persuasive way, and the right plan is to give new strength to the muscular walls of the bowels, and stir up the liver to new life and work with CASCARETS, the great spring cleaner, disinfectant and bowel tonic. Get a box to-day and see how quickly you will be



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