

the cows, and in this building is the large box stall where the cows calve. The reason is, partly, because this building is quieter, but much more because it is nearly of an even temperature. If you turn out thirty or forty milking cows, and leave a very few young calves or a newly-calved cow there, the temperature falls in a surprising way, and these animals get chilled, while in the other barn it is not so. Also, it is better for the herd to have no calving in their midst. We soon offer the calf a pint of her dam's warm milk, and this is put in a tin like a wash-basin, as it is lighter to hold and has no sharp, upright edge like a pail, to press on the calf's throat. Wet the fingers of one hand and put in the calf's mouth; with the other hand raise the basin while gently coaxing the calf's head towards it with your fingers in its mouth. Remember, it is *against nature* for a calf to put its head down to drink, so be patient. Hold the basin well up and don't let the calf get its nostrils under the milk to choke and splutter and splash you all over, and it will soon put its head in a pail and drink itself.

(To be continued).

DUCK AND CHICKEN WEIGHTS.

A well-known poultryman in New Jersey tested the weights of chickens and ducklings at various ages to see whether the increase of growth in the ducks would pay for the increased amount of food they required, which was about twice as much for young ducks as chickens. His reputation should be a guarantee that both were well fed and properly fed on good food. The weights were: Chickens, one week old, 2 ounces; two weeks, 4 ounces; three weeks, 6½ ounces; four weeks, 10 ounces; five weeks, 14 ounces; six weeks, 18½ ounces; seven weeks, 20½ ounces; eight weeks, 2 pounds. Ducks, one week, 4 ounces; two weeks, 9 ounces; three weeks, 1 pound; four weeks, 1 pound 9 ounces; five weeks, 2 pounds 2 ounces; six weeks, 2 pounds 11 ounces; seven weeks, 3 pounds 5 ounces; eight weeks, 4½ pounds. Thus it would seem that upon double the amount of food the duck made more than double the weight. As the prices upon ducks and chickens at that age are not far apart, though usually the young duck sells for a little more, it would seem that the ducks were the more profitable. And yet we think the chicken gave some profit over cost of feed at that age.—*American Cultivator*.

BOOKS AND BULLETINS RECEIVED.

Bulletin No. 18. Experimental tree-planting on the plains, by U.S. Department of Agriculture.

Bulletin No. 67. Factory tests for milk, by the Agricultural Experimental Station, Madison, Wisconsin.

Report No. 10. A report on flax culture for seed and fibre in Europe and America, by the U.S. Department of Agriculture.

Beet-Sugar Industry. Special report of the condition of the industry in the United States, prepared by the Department of Agriculture at Washington.

The Oxford-Down Flock Book. Volume X. Published by the Oxford-Down Sheep

Breeders' Association. R. Henry Rew, secretary, Westminster, S.W., London, Eng.

Flock Book. National Cheviot Sheep Society. Volumes I. and II. 1898. It contains a history and description of the Cheviot sheep and the rules of the society. The secretary is Howard H. Keim, Ladoga, Ind.

CORRESPONDENCE.

THE USE OF FORMALIN TO PREVENT MOULD ON CHEESE.

Editor of FARMING:

I have had many enquiries of late regarding the use of formalin to prevent the growth of mould on cheese in the curing room, and with your permission I would briefly give our experience with it.

It might be well to explain that formalin is a 40 per cent. solution of formaldehyde gas in water. It is also called formal or formol. As yet is not generally kept by druggists, but any good drug store will procure it on short notice.

It is being used quite extensively for disinfecting purposes.

A solution of 10 parts formalin and 90 parts water is effective in preventing the growth of mould on cheese. Possibly less would do, but we have not tried it. In our experiments we have found the best results follow spraying the cheeses as soon as they were placed on the shelves. Prevention is better than cure, and if the formalin is not applied until the mould appears the stains of the mould remain on the cheese, although no further growth occurs.

For spraying we find an ordinary atomizer used for medicinal purposes—which can be procured at any drug store for from 75c. to \$1—to answer very well. One application was sufficient for three weeks, even when the air in the room contained 95 per cent. of relative humidity, which is higher than cheese-curing rooms are ever likely to be naturally. Cheeses in the same room not treated were simply covered with mould in a few days.

I would recommend spraying the interiors of cheese and butter factories before the season's operations begin with a one per cent. solution of formalin. A spray pump, such as fruit men use, would be most suitable for this purpose.

The fumes of formalin, or rather the formaldehyde gas, has a pungent odor and is irritating to the throat and nostrils, but is not injurious. It is better not to allow the pure formalin to come into contact with the skin. It has a very drying action, and the sensation is not a pleasant one.

J. A. RUDDICK,
Supt. Kingston Dairy School.

THE TORONTO EXHIBITION.

Entries for the principal departments of the Toronto Industrial Exhibition, to be held from August 29th to September 10th, closed on Saturday, the 6th inst. They are of the most encouraging description, but so much money is being given and the classes are so numerous that that's a wonderful. Entries for grain, field roots, and horticultural products, do not close until next Saturday, Aug. 13th. For poultry they close on the following Saturday yet again. The bench show prize list has just been issued by Mr. W. P. Fraser, secretary, whose address is Ontario Jockey Club Offices, Leader Lane, Toronto. The prize list calls for \$2,800 in prizes in money and kind, and entries close on Thursday, Aug. 25th. So many and such brilliant attractions as will be offered at the Exhibition this year were never before secured. The entertainment in front of the grand stand will be largely contributed by animals, of which the famous diving elks, Madame Pianka's performing lions, and some clever horses, one of which jumps through hoops of fire, are the most remarkable, although there will be a dog and monkey circus, trick donkeys and mules, and so on. Great preparations are being made for the Foresters' demonstration on Wednesday, Aug. 31st, and for the uniformed drill competition, which is open to all and every order. Two brilliant spectacles, one of which will take place on the lake in front of the grounds in the day-time, and will be made realistic with the co-operation of the soldiers at the Fort, who will spring mines, blow up

the *Maine*, and destroy Cervera's fleet, as well as fire shot and shell with mortars and quick-firing guns; and the other, to be given at night, the Siege of Santiago, with captive balloons, fireworks galore, and a thousand troops, as well as companies of dancers, are attracting much attention abroad, and they should, for twenty thousand dollars, be spent on them.

CANADA CENTRAL EXHIBITION.

The special attractions at the Ottawa Exhibition this year will be unique and startling. Amongst other specialties provided for the amusement of the public will be a magnificent spectacular and military production representing "The Siege of Delhi," together with a select programme of fireworks interspersed. Altogether it may be stated that the special features will excel all previous efforts in the same direction. Entries for the live stock exhibits close Sept. 13th.

Publishers' Desk.

Grind for Profit.—The Joliette Champion Grinder made by S. Vessot & Co., of Joliette, Que., is claimed to be the best machine made. It does the most work for the least power and saves expense every time.

The Ontario Agricultural College.—The reopening of the college will take place this year on Sept. 26th. Those desiring to enter should apply to the president as early as possible for circulars giving information as to the course of study.

Medicines for Animals and Poultry.—Attention is called to the advertisement of Spratt's Patent Limited, giving a list of their new style remedies for dogs and poultry. These remedies are in the most perfect form possible, and furnish the best medium yet discovered for the administration of drugs to all kinds of pet stock.

Farm Laborers' Excursions.—The Canadian Pacific Railway will run excursions from all stations in Ontario, Toronto and west to Winnipeg, and all stations north, west and south, on August 16th, and from east of Toronto, to and including Sharbot Lake, to the same points in the Northwest, on August 18th. The rates for these excursions are extremely low, viz., \$10 going and \$18 for the return trip. Those seeking employment or intending to visit the Northwest, and desiring further information, should apply to Mr. C. E. McPherson, 1 King street east, Toronto. See the advertisement in our advertising columns.

A MAGNIFICENT PRIZE.

Nearly every reader of FARMING knows The Gurney-Tilden Co., of Hamilton, by reputation at least. Many of them are using their celebrated "Souvenir" stoves and ranges, and have a kindly feeling for the firm in consequence. As one of our lady friends remarked not long ago, "My stove is very properly called a 'Souvenir.' It keeps the makers in kindly remembrance whenever I use it. It is so thoroughly satisfactory." But very few have ever thought an opportunity would be afforded them of obtaining one of these magnificent stoves for nothing, or, rather, for the few minutes work required to write a short description of it. We shall be greatly surprised if the offer which the company make in our advertising columns is not taken advantage of by at least one occupant of every home into which FARMING goes. The prize is a grand one, a trial for it costs nothing, the competition is open to any farmer's wife or daughter who reads the advertisement, and more than one member of the same family may compete if they choose. Who will be the first to try for it? Mr. C. R. McCullough, Principal of the Hamilton Business College, and President of the Galt Business College, will be the chairman of the Essay Examination Committee. It will be noted that there are cash prizes, amounting to \$115 offered in the competition, in addition to the "Souvenir" prize, so that a large number of the competitors will be able to secure substantial results. FARMING suggests that you write direct to the head office of the company in Hamilton for particulars.

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Stock Notes.

A REPRESENTATIVE of FARMING visited the dairy herd of Mr. Wm. Willis, of Newmarket, recently and found everything in connection with Pine Ridge Farm progressing very favorably indeed. The Pine Ridge Jerseys are looking exceptionally well considering the extremely hot, dry weather and drought, which have prevailed in the Newmarket vicinity for some weeks past. The herd of Mr. Willis consists of eight first class registered Jersey heifers, sired by King of Glenduart 35749, and two heifers sired by 2007, the sweepstakes Jersey bull for two years at the Toronto Industrial. Three of these heifers are due to calve this fall, and all of them are for sale. They are all beauties, and intending purchasers should see this lot before buying elsewhere. Mr. Willis is now milking 12 cows, and though the supply is not so large owing to the drought, it is up to the standard in point of quality. St. Lambert's Florence, one of his best cows, has given 7,000 lbs. of milk during the past eight months, which is a pretty good record indeed. Mr. Willis has a fine flock of Cotswold sheep consisting of eight aged ewes, all registered, and four yearling ewes, also registered. There are also one dozen spring lambs in fine shape, sired by the celebrated ram Muggans. This ram is the sire of the four sheep recently sold to Mr. W. W. Wilson, of Muncie, Indiana. These sheep brought an exceptionally good price, one yearling ram bringing the high price of \$50. Mr. Willis intends exhibiting his purchases at some of the leading American fairs, and says that the above lot are the finest sheep he has ever taken out of Canada. This speaks well for the quality of Canadian sheep.

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