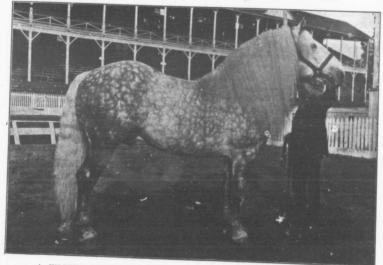


VOL. XXVIII

PETERBORO, ONT.



A WORTHY REPRESENTATIVE OF HIS CLASS AND OF HIS BREED

The horse breeding season, as it is commonly known, is again with us. What breed to select must rest with the breeder himself. It will depend upon his natural inclinations, his mares and upon the demand of the market on which he hopes to sell the progeny. In selecting a stallion, make sure that he is worthy of your patronage, and don't permit his service fee to bar you from realizing on the additional value of his get. The illustration shows the champion Percheron stallion at the London, Ont., Fair, 1908, as exhibited by Messrs. Hamilton & Hawthorne, of Norfolk Co., Ont.

> DEVOTED TO BETTER FARMING AND GANADIAN GOUNTRY LIFE

TAKE NOTICE

Every Farmer Every Farmer's Wife Every Dairymaid **Every Person Interested** in Dairying

Should take notice that to make a success of dairying it is necessary to have cows that give an abundance of milk, and more important still is the kind of a separator they use to separate the cream from the milk. Now, we do not want to dictate to any person, but if you are open to receive advice on the separator question, we can give it to you. The advice we will give you has been gained from the experience of thousands of separator users. They know that there are some very good separators, but when it comes down to advising their neighbors which separator is the best, they all agree that for all-round efficiency, there is no separator to equal the SIMPLEX LINK-BLADE. They are simple in construction, easy to clean, and made in the "last for ever" manner that has made them popular, even with those who purchased their machines years ago.

GET ONE OF OUR NEW BOOKLETS, NOW,

D. Derbyshire & Company

Head Office and Works: BROCKVILLE, ONT.

Branches: PETERBOROUGH, ONT.

MONTREAL and QUEBEC, P. Q.

WE WANT AGENTS FOR A FEW UNREPRESENTED DISTRICTS



Dairy Herd Competition

The Dairymen's Association of Western Ontario will conduct a Dairy Herd competition during 1909 along similar lines to that of 1908, offering \$100.00 in cash prizes. 1st, prize to the patron sending the largest amount of milk per cow to any the patron sending the largest amount of milk per cow to any cheese factory in Western Ontario from May 1st, to Oct. 31st, 1909—\$15.00 in cash, and possibly a cup or medal, 2nd, \$15.00, 3rd, \$10.00, 4th \$6.00, \$5th, \$4.00. Also 1st prize to the patron who furnishes the largest result of butter fat new contractions. unt of butter fat per cow to any mery in Western Ontario from creamery in Western Ontario from May 1st to October 31st, 1909—\$15.00 in cash, and possibly a cup or medal, 2nd, \$15.00, 3rd, \$10.00, 4th, \$6.00, \$4.00.

The rules of competition will be the same as last year. This early notice is given so that patrons may make such preparations as they desire be-fore the 1st of May. Later in the season prize lists and entry forms will be sent out to the different cheese and butter makers for distribution among their patrons. We believe these competitions have been the means of stimulating the production of milk, and we trust that a larger number of entries will be received this year.

Spring Care of Winter Wheat

From cultivation experiments car-ried on at the Nebraska Experiment Station with winter wheat it was Station with winter wheat it was shown that no increased yield could be secured from harrowing it in the spring. Harrowing broadcasted wheat resulted in an average loss of almost three bushels per acre, while harrow-ing drilled wheat resulted in a loss of ing arried wheat resulted in a loss of nine-tenths of a bushel an acre.

It should not be assumed that the cultivation of wheat would not be of

value in drier regions. Cultivation is for the purpose of conserving moisture, but in the years in which these experiments were made on wheat there experiments were made on wheat there was no lack of moisture. In fact in the two seasons when spring rainfall was below normal (1905 and 1906) there was some increase from culti-

vation.

Rolling winter wheat in the spring has not failed in any of the four years to give an increased yield, the average increase being 5.1 bushels per acre. The rolling was given early in the spring, soon after frost was out, and about the time growth started. Barrowing after rolling was not as good as friing alone, probably due to the plants again after tie roller had pressed them firmly into the soil.

into the soil.

Early spring rolling of winter grain, pressing the earth as it does firmly about the plant roots, produces good results. When frost comes out in the spring it is very apt to leave the soil filled with small cracks or cheekers. checks, especially around the plants. If these checks are examined closely, it will be seen that a large number of roots are thus exposed, and if the weather continues dry they are killed or at least injured. Plants have been aken up in the spring where half of

taken up in the spring where half of the roots were injured in this manner. If the soil is not wet at the time of rolling—and it should never be rolled when wet—rolling aids in no small degree to form a surface mulch. It does this rather than compact the surface.

Highest Priced Canadian Cow

When Brown Bros., of Leeds Co., Ont., received \$2,000 for their record breaking Holstein cow, it was thought by many to be the highest price ever paid for a Canadian cow. A corres-pondent of the Truro News disputes pondent of the Truro News disputes this claim stating that the highest price was for Mermaid, of St. Lam-bert, a Jersey, bred in Hamilton, Ont., brought to Bedford by G. W. Boggs, afterwards sold to John C.

A. R., and sold by him to an Upper Canada man, who sold her for \$4,000. She was afterwards sold in Killogue's sale in New York for \$25,000. Her two year old heifer was sold at the same sale for \$16,000. The milk and butter record for Mermaid also raised her price, and together with her breeding was what made her valu-

Cobourg Horse Show

The Cobourg Summer Horse Show ill now become an incorporated ody, under the name of the Cobourg Horse Show Association. This the decision reached recently at important and well-attended meeting important and weir-attended of officers, directors and interested citizens. Preliminary arrangements were made also for the show this year, which will be held on Aug. 17, 18, 19 and 20. A large barn to give accommodation to some 70 or 100 horses is to be erected in order to provide increased accommodation to lar-achilitizes from a distance. No vide increased accommodation to larger exhibitors from a distance. No pains will be spared by the horse show committee to make the coming show in August, the biggest show of its kind in Canada, and they are undertaking the work with the hearty will be the again in Donegan Park, where there is a fine track and seating accommodation for several thousands of commodation for several thousands of people. Improvements made to the grounds last year involved an expense of between one and two thousand dollars, but the great increase in gate, grand stand and box receipts, entry fees, etc. instified the fees, etc., justified the committee in

their work.

The Cobourg Horse Show, since its inception in 1905, has had an appreciably good effect upon the breeding industry in the Midland district, and last year was the means of gathering together many of the most celebrated horses in Canada. Miss K. L. Wilks.

H. C. Cox, Geo. Pepper, Toronto; Senator Beith, Bowmanville, T. H. Hassard, Millbrook, were among the well-known exhibitors. the well-known exhibitors.

The new organization will meet shortly to appoint officers and make further arrangements for this year's show. The 1908 officers were: Hon. president, D. F. Donegan; president, J. D. Hayden; vice-president, Chas. J. D. Hayden; vice-president, Chas. E. Speer, sr.; treasurer, E. W. Har-graft; secretary, John H. Davidson.

Rural Mail Delivery Boxes

Kindly advise me where I can get one of the Government rural mail delivery boxes? What do they cost? The mail goes boxes? What do they cost? The mail goes past our house every evening. I wish to secure one of the boxes that I may have my mail delivered at my gate.—A. C. R., Russell Co., Ont. Rural mail delivery routes are only

inaugurated upon already existing routes. Any person living on or con-tiguous to a rural mail route and not within one quarter of a mile of the corporate limits of any city, town or village who desires his mail deposit-ed in a box authorized by the Department at a given point on the line of the route by the rural mail courier may take advantage of the opportunity afforded.

Such person shall provide and erect a box known as the King Ed-ward mail box on the road side, located in such a manner as to be reached by the courier without dismounting from his vehicle or horse. This box can only be obtained from the Post Office Department of Canada. It is

The usual procedure for the establishment of a rural delivery route is the forwarding of a petition to the Postmaster General, on a form supplied by the Department. Anyone wishing to take advantage of the sys-tem signs the form, thereby guaran-teeing to erect a box. On receipt of Ont., brought to Bedford by G. W. this petition, the matter is taken up Boggs, afterwards sold to John C. with the contractor and the Post Spencer, and sold by him to Geo. W. masters en route.—A. Bolden, P.O. McCully, now Conductor on the D. Inspector.

Issu Each

Vol. 2

Cows are

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Each Week

FORMERLY THE CANADIAN DAIRYMAN AND FARMING WORLD

Vol. XXVIII.

FOR WEEK ENDING APRIL 22, 1909.

No. 16.

PREPARATIONS FOR SUMMER DAIRYING

J. H. Grisdale, Agriculturist, C.E.F., Ottawa

Cows are frequently badly ted, hence they prove unprofitable. Provide supplementary feed for the days that will surely come when pastures are not as good as under June conditions. Suggestions on suitable soiling Crops.

THE great majority of our Canadian Dairy Farmers are interested in Summer Dairying, and in Summer Dairying alone to the exclusion of that other brand of the industry commonly called Winter Dairying, and mistakenly considered well nigh impossible or at least quite impracticable in most parts of Eastern Can-The season for Summer Dairying, however is rather short. It starts out with a month or so of uncertain feeding in the spring. It ends up too often with eight or ten weeks of bare cold pastures, odds and ends of roughage, scant care and rapidly drying off cows, so that December usually sees the final dying effort of even the most truly altruistic cow.

This too often neglectful treatment of the dairy cow is due most commonly to the rather poor returns the average dairy cow makes to her owner for the food he does manage to give her. The poor returns from the average dairy cow in Canada are in almost every case due to the too often meagre supply of rather inferior food that falls to her lot. So there you are. Cows are unprofitable, hence badly fed; cows are badly fed, hence unprofitable.

TIME FOR A CHANGE.

It is time for a change in this matter. Surely we "the intelligent animals" should be willing to do our part. Our part is, give our cows lots of suitable feed when needed. Such feed is needed throughout the lactation period. We may not be ready to start right now this spring and make a revolution or a marked improvement in our feeding methods, but there is absolutely no reason why we cannot, every one of us, make a radical and most profitable change in our Summer Feeding this year.

SUPPLEMENT THE PASTURES. After the cows are on grass there is usually no scarcity of forage for a month or six weeks. This shows itself in the groaning docile cow and the liberal milk flow. Shortly after Dominion Day, however, a change may be noted. The milk goes into smaller space and the docile cow becomes uneasy and a roamer. Even before the first hint of such a change is the time to begin to prevent it. An abundance of good succulent and nutritious forage is the thing to ward it off. Supplement the pasture even while yet it seems ample. It is surprising how much forage a good dairy cow will consume in addition to what looks like a plentiful grass supply. Every pound she eats under such conditions is clear profit to the farm-The final part is the profit yielding part of the ration. The Dairyman's every look and touch and act should say to the cow in full flow of milk, "Just a little more won't you?" It's just a little more" that makes the money. Let us all get busy and be ready to say even to the worst old cow in the herd next July, "Just a

little more won't you?" We'll all be astonished at what she will do, but we'll more than be astonished at the way the good ones will respond.

There's always lots of feed on the farm in July. The trouble is one hates to enter a field of rolling clover, growing grain or waving corn and cut therefrom a section to serve the daily needs of the dairy cow. It very seldom has been done and is little likely to become a practice widely spread. It is folly to count on such action on one's own part. May resolutions are very certain to succumb to fears for February forage when the hot July sun wilts things down. Yes, to depend upon utilizing a part of the regular crops to supplement failing pastures would be a most mistaken policy, although it is quite certainly the policy, which not a few well meaning dairymen attempt to follow and fail to carry out. A SPECIAL CROP SECTION.

The proper policy, the right thing to do is, set aside a portion of the farm whereon crops shall

Words of Congratulation

I must congratulate you upon the constant improvement of Farm and Dairy. It should be read by all who have the industry at heart and wish to make a profit out of it .- H. Bollert, Oxford Co., Ont.

be especially grown for supplementary summer feeding or soiling purposes. This area should include about one acre for each three dairy cows in the herd, that is for a herd of 15 cows in milk, there should be five or six acres devoted to soiling crops. The area selected should, generally speaking, be located near the buildings. It should be divided into three or four nearly equal parts. A regular rotation should be followed.

SOME REQUIREMENTS OF SOILING CROPS. In deciding upon the crops to grow some sential points or requirements of successful feeding must be kept in mind (1) An abundance of forage, (2) Quality should be such as to insure milk production, (3) It should be ready at the time needed, and (4) there should be such crops as will allow of a rotation in order to permit of the same land being used continually.

SOME SUITABLE SOILING CROPS

As crops capable of filling these requirements one might name Red Western Clover, Mammoth Clover, Peas and Oats mixture, Corn, Millet, Vetches, Alfalfa, Sugar Cane and Fall Rye.

Red Western Clover is peculiarly well suited for Eastern parts of Ontario, Quebec and Maritime provinces. It gives a very early cut, and if desired will give a second crop or furnish good

Mammoth Clover gives a later and possibly

somewhat heavier crop and is probably somewhat better suited for Western Ontario where climatic conditions do not often favor a second crop of clover.

Peas and Oats Mixture. These two mixed in equal parts by weight and sown at the rate of 31/2 bushels an acre usually prove very satisfactory both as to quality and quantity of feed produced. By exercising a little care at cutting time it is possible to leave a good stand of clover if the right amount of that kind of seed has been sown along with the grain. This mixture should be cut as soon as it falls and whenever it falls in order to give the clover a chance. If it should stand till the oats are in the milk stage, it should then be cut in any case since leaving it stand after that date means loss of feeding value and palatability. The addition of wheat or barley or both these cereals in moderate quantities to the seed mixture will improve the feed. This is more likely to be true if the soil is rich and strong. The substitution of vetches for peas would prove quite satisfactory.

Corn, to prove of material value as a soiling crop should be sown early and in such a way as to assure ears developing. Sowing broadcast or in rows close together will, of course, produce considerable forage that will be eaten up well by cows. This feed will, however, have very little milk producing value. Better to select an early variety such as Longfellow or Angel of Midnight and sow in rows about three feet apart. This will insure a good supply of valuable forage for the latter part of August and early September.

Millets are rather uncertain in Canada, but where it is desired to sow some land as late as early July then Hungarian Grass will quite possibly prove successful. It should be sown on warm, well prepared land at the rate of 40 lbs.

Sugar Cane if sown late in June on warm dry soil that has been well fertilized is likely to be ready to use in August and will prove a palatable and valuable feed. It may be sown in rows about 30 inches apart at the rate of six or eight lbs. seed an acre.

Fall Rye. Where one fails to get a catch of clover the land may be broken up early in September and sown to Fall Rye at the rate of 11/2 bushel an acre. This will be cut in June and might be followed by millet or white turnips or sugar cane for September feed.

Vetches of various kinds are usually satisfactory whether sown alone or mixed with some cereal. If sown fairly quickly, they have the happy peculiarity of growing up again ater they have once been cut. The hairy vetch is probably the best variety but the cost of the seed is prohibitive.

Alfalfa. Where it can be successfully grown, no crop is likely to prove more satisfactory as a soiling crop than lucern or alfalfa. A suitable field seeded to this crop is certain to give excellent returns in the way of forage and the forage will be of a character to insure a most liberal milk flow if fed at all freely. Alfalfa requires a good rich, well drained soil and a field that never for

even a few hours lies under water summer or winter. It is better to sow it on root or corn land without a nurse crop. Keep the field cultivated till early June, then seed down at the rate of 25 lbs. an acre. Cut any weeds that may grow up. Do not pasture it in the fall. It may be expected to give two or three crops the first season and three or four crops each succeeding year. It must be top dressed every two or three years.

A ROTATION.

If at all possible as already stated a rotation should be followed on the land given over to soliing crops. To begin with alfalfa must not be considered one of the rotating crops. Pick out the most suitable field or plot and keep it in alfalfa if alfalfa will grow. On the balance of the land a three course rotation is the best.

1st year—Corn or sugar cane or white turnips, (manured.)

2nd year—Peas and oats mixture, seed down 10 lbs. clover an acre.

3rd year—Clover, manure in summer ready for corn or roots next year.

There will thus be each year a plot of clover, a plot of peas and oats and a plot of corn or hoed crop..

The clover field should receive the summer manure as it is hauled out and is likely to give a fair second crop to feed along with the corn in September. The clover sod and the manure turned under the next May and throroughly worked provide ideal conditions for corn. Part of the corn area, say one third, should be sown as early as possible to, say Longfellow and the balance equally to Longfellow and White Cap, Yellow Dent Leaming later in May. Sow in rows 3½ to apart and eight inches apart in the row.

The corn land fall ploughed should be sown to the oats and pea mixture and seeded down with clover 10 lbs. an acre. Sow one third plot as early as possible, one third ten days later and balance ten days later still. If the clover fails from any cause the field might be seeded to rye for early spring feed next year and again to Hungarian grass after the rye was harvested.

PLAN OF CROPS FOR NEXT FOUR YEARS.
PLOT I PLOT III PLOT III

PLOT I PLOT II PLOT III
1999-Corn. 1999-Peas and oats 1999-Clover
1910-Peas and oats 1910-Clover 1910-Corn
1911-Corn 1911-Peas and oats
1912-Corn 1912-Peas and oats 1912-Clove

The area for soiling crops should be near the buildings and thus always convenient for feeding and for receiving summer manure. To the man who has silo capacity and chooses to grow more corn than sufficient for his winter needs, the best solution of the problem is ensilage for summer as well as winter.

An Experience With Cement Silos

M. E. Maybee, Northumberland Co., Ont.
In giving my experiences relative to silo construction and filling, I take it for granted that nearly all dairymen are convinced of the paramount importance of silage. In all probability many are thinking seriously of building a silo this coming season. My experience in building a cement silo last summer will probably serve as helpful information to some.

I gave the contract to a man in a nearby town who has the rings made especially for building round silos. He sent two men and I provided three more, with an extra one for raising the rings morning and noon.

My silo wall is 16 inches thick at the bottom tapering to eight inches at the top. It is 12½ feet inside diameter and 30 feet high. I purpose continuing it three feet higher with lumber this summer when I shall roof it. It stands five feet in the ground. I required to build this silo 35 barrels of cement, 40 yards of gravel and sand, 12 loads of stone and 80 pounds of 1-4 inch iron, besides a quantity of planks, lumber, scantling and poles for scaffolding. We built just five feet a day by filling two sets of rings of two and a half feet each. It required one day for scaffolding and one for plastering the inside and laying the floor. One man can whitewash it in a day. I paid transportation charges for rings and men, from their home to mine, both ways, also wages for the men while they were travelling and \$10 for the use of the rings. When I get the roof on the whole sile complete will have cost me \$175.

I have my own outfit for filling the silo. This I consider a decided advantage. It consists of a 5 H.P. gasoline engine and a cutting box with 36 feet of carriers. We cut the corn down by hand and lay it down in sheaves without binding. It requires two teams with drivers and one man in the field to keep the cutting box going, one man to feed and one in the silo. Although it takes from two and a half to three days to fill the silo in this way one can get much more into the silo than were it filled in one day by means of a larger outfit, which later also requires more men. A man is practically independent when he owns his own outfit as he requires only a few extra hands and he does not require to cut his corn all down at once and take the risk of a heavy rain or having it lie too long in the sun. It requires about ten acres of hill corn to fill our silo. The silage has kept perfectly.

Some Points in Stallion Selection

T. R. James, Middlesex Co., Ont.

No matter what type of horse is decided upon, the animal should have a strong, well knit body, large sound joints and good action. Tendons should be prominent with fine silky hair; the latter indicating that the

bone is of a dense texture, hence of a good, lasting quality. Where this is the case the temperament of the animal is likely to be vigorous and the constitution hardy and healthy. On the other hand when coarse profuse hair is present it is usually an indication of spongy bone and a tendency to disease, such as grease.

It is advisable therefore to select sires that have clean, wide flat legs, which denote large conformation of bone and well developed tendons. As the wearing qualifications

of the horse depends largely upon the animal having strong, well developed hoofs, sound hoofs should also be especially considered.

The general principle of heredity is that "like begets like." There are departures from this rule it may be urged, but, however, it proves true in the majority of instances. It should be remembered that bad points and qualities are as likely to be transmitted and reproduced as the reverse. Stallions should be selected that are of the right type for the production of the class of horse desired, care being taken to reject unsound, and imperfect animals, those of bad temper, and intractable disposition. Other objectionable traits should likewise be avoided.

Horse Breeding

- Dr. H. G. Reed, V.S., Halton Co., Ont.

Horse breeding is the most attractive branch of agriculture to many farmers in Ontario. During the last four or five years in the hands of the careful breeder it has proved not only very attractive but very profitable. It is to be feared, however, that the prevailing high prices for horses may have induced men to start breeding who have not a sufficient knowledge of horse conditions to make it a success.

The raising of horses is like every other branch of farming in that in order to get the best results a superior article must be produced. A man to be a successful breeder must be a good judge of the stock he is producing. He ought to be quite familiar with the latest ideals in type and conformation in the different breeds and to possess some ability—the more the better-in the matter of selecting stallions that will "nick" with the different mares, thus giving his females a chance of producing progeny that will be an improvement in the dam. In the hands of a skilful breeder each succeeding generation should be an improvement on the last, but it requires a lot of thought and study as well as some natural ability to enable a man to do this. Unfortunately far too few farmers have the necessary ability while many give the science of breeding no thought at all, but go at it in a "happy go lucky" way, which renders success an impossibility.

MODERN IDEALS.

The successful breeder must be up-to-date. Horse ideals, like everything else in the world, change. The high-class draught horse of to-day differs considerably in type from the horse of 20 years ago. In the older fashioned horse weight was the prime consideration, he had coarser legs with great quantities of hair growing all around the limb and often covering almost the whole of the hoof. He was short and upright in the pastern and shoulder and often different in action. To-day while weight is certainly very much to be



A Champion High Stepping Stallion

The Hackney represents the carriage horse of Oniario, Brigham Radiant, the champion hackney at the Canadian National Exhibition, Toronto, 1908, is shown in the Illustration.

be desired we are willing to sacrifice a little of it for quality. We want the clean, flat, flinty bone with a fringe of nice silky hair—when present at all—growing up the back tendons, and not all around the leg. We want the sloping shoulder and somewhat springy pastern, which together with a brisk, prompt, vigorous action, the feet being lifted well from the ground and extended in a straight line with the hocks well together, add very much to the appearance as well as to the value of a draught horse.

value of a draught horse. Great change has also taken place in the carriage horse. It is not very long since a carriage horse was supposed to be 16 hands high or over, and those most highly thought of and most likely to win in the show ring are often 16½ hands high and even higher. The popular horse of today is not over 16 hands and some of the very best have been only 15½ or even slightly under that. The strong points of excellence in the up-to-date carriage horse are conformation, style, and action. He must be stylish in all respects, whether standing or in action, must have high knee and back action, must be square gaited, and if

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The case qu tion is a very food had cau of fat in the well be raised which dropped would have re ing been con quite possible when the cow the food. It period of lacta that we some richer milk or preceding year nearly alike as as previously s erage to be ab of lactation. Changes of t

Changes of t marked as they which makes th he has along with these the ability to go fast all the better, although speed does not count for as much as a stylish, trappy way of going. Then a carriage horse ought to have good manners. Of course this may be said of all horses, but it applies with special force to the carriage horse, because he is usually employed to draw women and children in a gentleman's rig through the streets and parks of the larger cities.

CARRIAGE HORSE OF ONTARIO.

The hack now represents the carriage horse of Ontario and the qualities just described are more likely to appear in this breed than in others, one high class carriage horses are produced from the Standard bred, but he is essentially a road horse and the percentage of really good carriage horses from this breed is comparatively small, while the percentage of good Hackney bred carriage horses is relatively high.

No pronounced change has taken place in the type of the Standard bred and the Thoroughbred. Speed at the trotting and running gaits are prime factors in those breeds. Most of our really good road horses are produced from the Standard bred, while our best saddle horses have always a strong dash of the Thoroughbred in them.

The farmer who is ambitious to breed high class horses of any breed has a grand field of operations open before him and he can engage in no calling which will give him a better chance to put into practice any mental powers he may have or give him greater scope to exercise any skill he may have acquired than in an effort to improve the quality of the horses he is producing on his farm.

Varying Percentages of Butter Fat

Prof. G. E. Day, O. A. C., Guelpa. I have no desire to engage in any controversy regarding the matter of feeding fat into milk as set forth in Farm and Dairy for April 8th by Mr. Mann, but can speak only from experience, just as the writer of the article in question has done. It is a very common experience to find cows that vary in the per cent. of fat in their milk when changed from one food to another, but if the change is from a lower to a higher percentage it is difficult to maintain that higher percentage through an extended period of feeding. When a person comes to observe carefully the results from a large number of cows, he will find a tendency for each cow to produce during a period of lactation, milk of a certain average quality, which is difficult to alter. The per cent. of fat may go temporarily up or down under different kinds of food, or even on the same food, but it is generally found that the milk produced during a given period of lactation will correspond in average per cent. of fat very closely with the milk of other periods of lactation. Cows during their first period of lactation seldom give as rich milk as they do during subsequent periods.

The case quoted in the article under consideration is a very interesting one and looks as if the food had caused the alteration in the per cent. of fat in the milk. The question, however, may well be raised as to whether the per cent. of fat, which dropped during August to 2.3 per cent. would have remained the same had the bran feeding been continued for several months. It is quite possible that it might have gone up again when the cow became thoroughly accustomed to the food. It is not always safe to compare one period of lactation with another, for the reason that we sometimes find cows will give slightly richer milk one year than they did during the preceding year, even when the conditions are as nearly alike as it is possible to get them, though, as previously stated, the tendency is for the average to be about the same for different periods

Changes of this kind, however, seldom are so marked as they appear to be in the case quoted, which makes this case especially interesting. It is worthy of note-that this cow varied all the way from three per cent, to four per cent. upon the same food. It would seem, therefore, that the oare influences at work which may alter the percentage of fat in milk quite independently of the food, otherwise we cannot account for these variations. If Mr. Mann would conduct similar experiments with all the cows in his herd, he might find that they would act differently under similar treatment. This, at any rate, has been our experience. It would seem also as if some cows were more susceptible to influences from changes in foods than are others. This cow appears to have been particularly sensitive to changes in here have been particularly sensitive to changes in here

Dairy Farms Competition

Definite arrangements in connection with the Dairy Farms competition announced in our issue of April 8th are fast nearing completion. Full particulars will be given next week. Watch for the announcement on April 29th. Tell your neighbors about it.

food. What is true of this cow may not be true of all cows, nor of cows in general, and it is unsafe to draw conclusions from a single instance.

I am very glad indeed that Mr. Mann has contributed this very interesting article to Farm and Dairy, and I trust that he will go on making similar investigations, because work of this kind is of value in throwing light upon many problems which are not yet fully understood.

Our Way of Dairying

Frank Webster, Victoria Co., Ont.

We have confined ourselves strictly to a butter business. We ship all our product in pound prints, to one customer, except in the case of a few private customers who desire a supply packed for the season. Our business might be called Winter Dairying. We rarely, or never, breed our cows until December. We try to have them all sattled in March, consequently they begin freshensing: in September, and are mostly all in by New Year's.

Were we asked for our reasons for winter dairying we would say we have more time to attend to the work in winter; the price of butter is generally higher than in summer, the cows are dry at a time when flies are plentiful and pasture is scarce; and we can get a larger yield per cow by this system than to have them freshen in the spring.

For the bulky part of the feed we rely on ensilage and alfalfa. These two crops give a large yield per acre and are reliabed by stock of all kinds. For concentrates, we depend mostly like the properties of the weak of the period of the second balanced ratios. To do this we sometimes use oil cake meal, Bran is very hard to get, and is expensive as well. We leave it out of our calculations. We have found that when feeding alfalfa we can get very fair yields without feeding a leavy grain ration. Thus we cheapen the cost of production.

Our cows are tested at intervals, so that we have a fair idea of what they do in butter fat. As we weigh the milk from each can we can feed as we think each cow requires. In a general way we feed one pound of concentrates to from four to six pounds of milk produced. To the cow giving a large flow of milk, relatively low in butter-fat, we do not feed as great a proportion of concentrates to total bulk, as we try to give the cow with perhaps a smaller flow of milk, but sometimes a larger production of butter-fat, an allowance to meet her needs.

For the increase of the herd, we use a registered sire, of a family of heavy producers. We
keep heifers from our best cows. Undesirables,
we get rid of as soon as possible. Any surplus
skim milk goes to pigs, colts, cows, or anything
that needs it. Often we raise one litter only
from our brood sows in a year. At such times
we try to have them farrow about the time the
cows freshen.

This is a brief outline of the dairy business, as we have followed it. We experience the usual undercurrent of worry, care, at times disappointment, that is connected with any business. Our herd after nine years of breeding from sires of one breed, perhaps, does not show the uniformity of type that one might wish to see, owing to having used, for foundation, any cow that was a good producer. Our average production per cow, however, has increased quite noticeably.



Danish and Irish Farmer.—"If those Canadian Packers and Farmers will only keep on quarrelling among themselves, we'll soon have this all to ourselves."

MACHINES

WILLIAMS BROS., Ithaca, N. Y.

DAIN HAY LOADER



The Dain Hay Loader being a raker bar loader, will meet all the requirements of a Hay Loader. It will handle the hay from the swath, will handle the hay from the swath, ble conditions. It is a Rake as well as a Loader, as the hay can be mover. It is durable, easily handled, generally called the one man Loader.

Ask your agent about it, or write s for special information.

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Lands are offered for settlement in some cases FREE, in others at 50 CENTS per acre, in various districts in NORTHERN ONTARIO.

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DONALD SUTHERLAND, Director of Colonization,

HON. JAMES S. DUFF. Minister of Agriculture

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CHEESE FACTORIES FOR SALE SHOULD BE ADVER-TISED IN FARM AND DAIRY.

DRILLING Some Peterboro County Farmers Interviewed

In company with Dr. Hucho an agricultural attache of the Imperial German Consulate at Montreal an editorial representative of Farm and Dairy recently visited some of the leading farmers in the vicinity of Peterboro. Questions asked by the doc-tor of one of the farmers called on brought out the following informa-The main crops grown on this tion. particular farm are oats, barley and a few peas. Roots are grown for the a few peas. Roots are grown for the cattle. He had no silo and grows no corn. He has been in the milk busi-ness over 20 years, selling the milk for the most part to dealers in the city who come to the farm for it. For city who come to the farm for it. For the winter he realizes four cents a quart, and in summer three cents. Not unlike many farmers, he keeps no particular breed of cattle. "Any-thing that will milk," said he, "flat our requirements." Such stock he assured us was selling at the present time from \$40 to \$50 a head. When aged these cows are sold to some one else that wants them, or are disposed of to the butcher.

case that wants them, or are disposed of to the butcher.

At the next place called on, as at other places we found some fair specimens of grade cattle. The herd was headed by a Durham bull. We were informed that Holsteins are gaining favor in this stable and that soon the Durham sire will be replaced by a Holstein. The city trade also takes the milk from this farm. The stables are fitted up very conveniently and water basins were installed. As grain was scarce, the cattle are being fed on roots, mixed hay, and straw. There is no silo on the place. Asked if a silo would not pay, we were informed that probably it would, but that there is a lot of hard work about corn. A few hogs are kept on this farm. few hogs are kept on this farm. Sheep are not stocked, dogs and hounds from the nearby city being given as reason for not keeping them.

A farm outside the range of the city milkman was next called on. A city milkman was next called on. A cream separator had been installed, and the cream is being sent to the Peterboro creamery. The skim milk is utilized at home for feeding pigs and calves. The cream business, we were informed, had proved quite profitable during the past winter as they had received an average of 29 cents a pound for butter. Here again no formed the basis of the ration for the dairy cows. When asked as to the profitableness of winter dairying, the farmer replied that as the milk the farmer replied that as the milk was richer in fat when the cows were stabled and fed fodder, he believed that dairying paid about the same in winter as in summer. He kept no records so could not be sure. One half acre was the extent of his land annually devoted to corn.

WHY SHEEP ARE NOT BAISED.

WHY SHEEP ANE NOT RAISED.

Dr. Hucho made a particular point of enquiring into why sheep were not raised. In every case the reply given to the question "Why do you not keep sheep," was "it is hard to keep them. There are too many dogs straying around the country from the city." In Germany," said the Document of the city. "In Germany," said the Document of the city." In Germany, "said the Document of the city." The Germany, "said the Document of the city." tor, "such an excuse would not be sufficient reason for not keeping sheep. Dogs are not allowed to run loose at will. Their owner would be fined or the dogs killed. All dogs are tited and when allowed to run, they must be muzzled, thus there is no danger from them." Asked by the farmer of what use would the dogs be, the doctor replied, "They are kept to the first the sum of the countries. At one pets as in other countries. At the sum of the countries. There are few fences. We have boys to watch the cows. There are far too many dogs in this countries are far too many dogs in this countries. are far too many dogs in this coun-try. Farmers should keep sheep in-stead of dogs."

Another farmer called on was an admirer of Percheron horses. Several good ones were in his stable. Asked

as to why he preferred the Percheron the farmer replied "they are more of horse. The Clydes a general purpose horse. are all right in town or for heavy loads but you have got to let them walk. With the Percheron, they can be trotted. They can be used for any purpose." Questioned further as to the Percheron, the farmer said that he had always admired the Percherons and was told in reply that they were and was told in reply that they were the best tempered, possessed the best legs and feet of all breeds of horses and thus could best stand the travel in cars. "It pays to raise good hors-es," continued the farmer. "We be-lieve in raising good ones. We have good tired of the poor serul stallions got tired of the poor serul stallions and pay a fee of \$15."

and pay a fee of \$15."

COW STABLES NEED LIGHT.

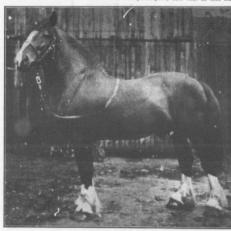
The cow stable on this farm like many others was dark and gloomy. In fact we could not discover the cows until a door had been opened to admit light. In remodelling the barn recently, the small windows that were

and they had to turn to dairying. "Our farmers," he stated, "should recognize that it would be to their great advantage to get right into dairying, grow corn and clover more abundantly and put up silos."

The Business of Dairying

While much has been written on the subject of dairying, there is a lack the subject of dairying, there is a lack of simple, practical, common sense information in connection with this great industry. "The Business of Dairying," by Clarence Lane. B. S., Assistant Chief of the Dairy Division. U. S. Department of Agriculture. a book recently published, is intended to meet the needs of the average dairy farmer. It presents in a clear concise manner various business methods and systems which will assist the dairyman to reap greater profits. It aims to meet the needs of the average dairy farmer.

The book teaches that the farmer's occupation must be conducted on business principles, and that in this business



A Home-bred Clydesdale-A Credit to our Horse Interests

Merriman 326, owned by Messrs. Nichols & McIlmoyle, of Peterboro Co., Ont., is bright bay. He weighs 1970 lbs. He has that strong, short back that horsemen like see. High quality is indicated in his flat bone, his feet, and in the fine silly ather on his legs. He has carried off premier honors on several occasions in very strong company

thought to be sufficient in olden days ness as in any other, an accurate achad not been enlarged. Though no count of receipts and expenditures silo was on the farm, one is to be must be kept in order to determine built this summer. Speaking of the where profits are made or losses ocsilo, the farmer said, "Fever farmer cur. Simple methods for keeping should have a silo, if he keeps cows. It has records and accounts of all I shall put up a stave silo as I be-lieve it to be about the best. It is presented, and in as many instances the cheapest and about as good as a possible the forms and methods any," Modern improvements in the themselves have been used instead of way of standardness, water basins, ce.—descriptions of them. No other book way of standardness, water basins, ce.—descriptions of them. No other book any. Modern improvements in the way of stanchions, water basins, ce-ment floors are a part of the stable. The cattle kept are a mixed lot of The cattle kept are a mixed for or grades, showing strong dashes of Shorthorn and Jersey blood. "A few Jerseys," said the farmer, "should be in every herd. They tend to keep the test up to a good average." The milk on this farm is separated at the house and the orean sent to the milk on this farm is separated at the house and the cream sent to the creamery. The main crops grown are mostly barley and oats, and roots for the cows, although this coming sum-mer considerable corn will be grown to fill the proposed new silo.

An Elgin Co., Ont., man that we called on, speaking of the agricultural conditions in the neighborhood of Peterboro said that our farmers do not grow enough corn. He likened the farm conditions of Peterboro Co. to those of Elgin Co. 20 years ago. The latter had cropped the land with grain until they could get no more

themselves have been used instead of descriptions of them. No other book has been written that touches upon so many practicable phases of dairying as does this volume. It may be secured through Farm and Dairy for \$1.25 net.

trate of Soc

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Resea geese:

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an acre a seeding ti very thore two bus. acre. Lea break up to clover years in Agricultur

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an acre

Our RECOVERI Clyde mare that was sol-landed from when sold. pneumonia, were sufferin I any chance or any part J. R., Durha Your inv unfortunate

edy against of an a false rep You migh by having t veterinarian

PAYING F PAYING F years ago gr three boys. The son-in-lar three children the other two and also to cl continued unt The father the boy. The bo grandparents grandparents a er has not paie the youngest c middle of Mar to take the y agreed upon, March, 1909. Thas a farm of en agreen

If the gran

Improving Poor Land

I have some run out land that I would like the goal I cannot spare any stable manuers and I cannot spare any stable manuers. Other crops. I plowed about one are goal of the goal

wille, N. S.

Two lines of effort might be suggested for the improvement of the field in question.

1. Work the land very thoroughly and sow buckwheat. This should be ploughed under in August and the land seeded down to fall rye. The next spring the fall rye should be ploughed under and the land sown to cats and clover. At the same time a dressing of say 20 bushels lime and 500 lbs. land plater an acre would almost certainly insure a fair

Well Pleased

am a subscriber to Farm and Dairy, and am well pleased with the paper. I wish there and Dairy, and am well pleased with the paper. I wish there were many more farmers in this section taking it. As I am a cheesemaker, I am sure it would profit both themselves and me.—H. Gre:rim, Hastings Co., Ont.

catch for clover and a decent crop of oats. Work the land very thoroughly.

2. The other line of work would be to start in at once with heavier dressings of lime and land plaster, say 30 bus, of lime and land plaster, say 30 bus, of lime and land lime and seeding time when the last beam very thoroughly worked. So has been very thoroughly worked to live the lime and the lime and lime The other line of work would

Our Legal Adviser

RECOVERING PURCHASE PRICE. RECOVERING PURCHASE PRICE.— A Clyde mare out of a recent importation that was sold directly after they had been landed from the boat, had even developed when sold. Shortly after she developed when sold. Shortly after she developed when sold. Have I any chance of recovering purchase price I any chance of recovering purchase price or any part of it from the importers?—I.R., Durtham Co., Ont.
Your investment has turned out Your investment has turned out

Your investment has turned out unfortunately, but you have no remedy against the vendor, in the absence of an express warranty, or of a false representation on his part, which he knew to be untrue.

You might have protected yourself by having the mare avanined bear.

by having the mare examined by a veterinarian before purchasing.

FAYING FOR BOARD.—About seven rear ago grandparents took charge of the part ago grandparents took charge of the part ago grandparents took charge of the part ago grandparents of the seven the seve PAYING FOR BOARD.-About

If the grand-parents can prove an express agreement on the part of

FARM MANAGEMENT of the children, they would certainly have a right to recover the amount. It would not be necessary that the agreement should be evidenced by a

RETURNING CRIB-BITER. — A sells a horse to B at an auction sale for \$300. No.hing was said about the quality of the horse. He was a fine looking horse, the was a fine looking horse, beginning. Can B make A take the horse began, B., Talbotville, Ont.

Ont. There being no warranty or mis-representation the maxim "Caveat emptor" applies to this case, and B cannot compel A to take horse back or to refund the purchase money.

DAMAGES ON BURNT FOREST TREES. DAMAGES ON BURNT FOREST TREES.

-Two years ago I reforested two steep hillsides near the railway. When burning
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growth and the chance of securing the
second stand of replant this
area.—II. R. N., Brant Co., On sellows CouThe law requires the Railway Cou-

The law requires the Railway Com-The law requires the Railway Company to remove the weeds and other inflammable material from their roadway, but does not authorize them to dispose of the same by fire. Having deliberately set out the fire, they are responsible for any damage which you have been thereby subjected to.

You should consult a solicitor, and have him place your action in court.

have him place your action in court, if the Company declines to settle. Your action should be brought within six months after the injuries were

was forbidden to remove any timber, some of which was cut. Can B hold the man that bought the place responsible for this timber?—W. C., Grey Co., Ont.

The right to take the fire wood granted by the lease, would come an end at the expiry of the lease, unless it expressly provided for the cut-ting and removal at a later date, and if such express provision existed, B. would have to prove either the registration of the lease, or direct notice to the purchaser, of such provision.

The purchase of the piece of slash

The purenase or the piece was, as we understand from the queswas, as we understand from the question, a separate transaction. The purchase would not be valid against the purchase of the farm, unless it was evidenced by a written document containing all the terms of the transaction, and unless the purchaser had express notice of its provisions.



H.M. THE KING

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Claremont, Ont. March 3rd, 1909.

To Messrs Wm. Cooper & Nephews, Toronto.

DEAR SIES.—I have used your Worm tablets on a Clyde Stallion, the Favorite (1882) and have much pleasure in stalling that after trying many other preparations which failed, the Cooper by a stalling that after trying many other It was a very had case, indeed so bad that I thouses completely cured the coll. It was a very had case, indeed so bad that I thouse the completely cure for worms.

Yours truly,

Yours truly,

(Sgd.) THOMAS GRAHAM.

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Province.

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K999999999999999999 HORTICULTURE

Celery in the Home Garden

A. V. Main, Lanark Co., Ont. Celery should be cultivated in small Celery should be cultivated in small gardens more than it is. It is one of our best vegetables for winter use. We ought to grow more of these. The first week of April is about the right time for sowing and the selection of three varieties will supply an early sort and two kinds with keeping qualities for winter. I recommend Paris Golden Yellow, White Plume and Giant Pascal, the latter variety keeping crisp and sweet till March.

Sow in boxes or pots of finely sift-ed loam, leaf mould and sand, cover the seed thinly and water cautiously the seed thinly and water cautiously with a fine rose can. A hotbed will cause germination in twenty days. With sowing in a cold frame or in the open, celery is slow to grow and often remains in a stagnant state till the season gots too advanced and the young plants make no headway. Transplant the section for the season gots too advanced the young plants make no headway. Transplant the section of the season of good rich loam with decayed manure incorporated with it, add a small quantity of sod to promote good healthy leaves. Keep moist and near the glass.

smail quantity or sod to promote good healthy leaves. Keep moist and near the glass.

Towards the end of May, set the boxes outside in a position not too exposed to the hot sun. Supply with water in the evening and look over your plants well to have fine individual plants for planting out the last week of June. Where several thousand celery plants are required, the most practical procedure is to fill garden frames with six inches of manulen frames with six inches of manulen, then transplant the seedlings watern, then transplant the seedlings watern, then transplant the seedlings watern, then transplant the firm of a guare, the plant with frames and cut out each plant with frames and cut out each plant with terms and cut out each plant with lawe a fine basement of manure and get so check in the open field.

PREPARING THE TRENCHES

Celery adapts itself in a moist sitdation and seldom attains anything on thin, dry, exposed soils. To concation and seldom attains anything on thin, dry, exposed soils. To conserve moisture and for the purpose of blanching the stalks, throw out trenches two feet wide and eighteen inches deep. A space of three and a half feet should be allowed between the transhes to accompandate the soil inches deep. A space of three and a half feet should be allowed letein a half set should be allowed letting that is thrown out. A good thick stratum of manure should be mixed with the soil in the bottom of the trench. Use some of the soil that has been thrown out, if the subsoil is shallow or heavy. A good foundation of decayed manure is indispensation of decayed manure is indispensation of decayed manure is indispensation of the solid part of the stall part of the solid part of the stall part of the stall part of the solid part of the stall part of the solid part of the stall part

HORTICULTURAL BOOKS

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from reaching the interior parts of the celery and facilitates the work of filling the trenches with soil. Soil is the best material for bleaching. Three 'earthings up' are required, the last one at the end of Septem-ber. In celery cultivation, we should remember that 500 plants well grown give more returns than 1500 plants of poor quality. of poor quality.

Potatoes Mostly Mud

Mr. R. H. Curry, Canadian Com-mercial Agent at Nassau, has for-warded the following letter regarding Canadian shipments to an importer in the Bahamas. It is not advanced that this complaint is characteristic of the exports to that colony, but it will serve to illustrate the manner in which the importer views such laxity in business.

which the importer views such laxity in business.

"Being a Canadian and therefore interested in the development of trade between Canada and the Bahamas, I would like to call your attention to some shipments that have come here from that country, which will utterly ruin the trade. One, be will utterly ruin the trade. One, be will utterly ruin the trade. One, some so small as to be worthless, others for the country of the country with the country with the country of t

out of a barrel of which only 20 were not absolutely rotten, and those full of worm holes and bruised all over. Of another lot of potatoes, a few were of good table size but the greater part about the size of a large marble, which no one would buy. In each of these cases the importer said he would never buy more."

The Catalpa For Reforesting

Would Catalpa speciosa be suitable for reforesting in my district and where could I secure plants or seed?—K. J. F., Northumberland Co., Ont.

Catalpa speciosa so often referred to im American journals, is found growing naturally in the region of the Wabsah River. It grows in bottom lands of the very finest soil and the accounts of the remarkable growth in plantations are usually derived in plantations are usually derived to the control of the plantation are usually derived to be considered to the control of the contro Catalpa speciosa so often referred for reforesting light soils, and I doubt whether the growth will make doubt whether the growth will make it a good investment on good soils, unless it be along the southern part of the Province. Seed and plants of the catalpa speciosa may be obtained from D. Hill, Dundee, Illinois.

For poor soils in Ontario the Black Locust will give much better results.

Strawberries and Currants

J. I am thinking of setting out about 50 strawberry plants. Which is the best method for planting? What is the best hind of berry for a sandy loam? Shall I need two kinds of plants—perfect and immediately a seven three year old black can be seven three year old black of the seven three best time and methods.—Mrs. A. H. C., Oxford Co., Ont.

1.—Strawberries should be planted in spring as soon as the old bud has produced new plants strong enough for transplanting or as soon as plants can be secured from the nurseryman. It is difficult to say which is the best variety of strawberries for any par-ticular soil. There are many good varieties, but each of them are lackvarieties, but each of them are lack-ing in one or more particulars. He Clyde is a good yielder and large in size but being light in color and not as firm as others, it is not a good shipper. It makes an excellent berry for home use and for the home mar-



The EDISON HONOCR

Is there anything that will give more pleasure to a house full of children than an Edison Phonograph?

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FREE. Ask your dealer or write to us for illustrated catalogue of Edison Phonographs, also catalogue containing complete lists of Edison Records, old and new.

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National Phonograph Company, 111 Lakeside Ave., Orange, N.J., U.S.A.

ket. The Williams is the most popular commercial variety in the province. Persons who propose planting should ask their neighbors, that have been auccessful with strawberries, to tell them the varieties that have done best in that place. If either the Clyde or the Williams is grown, it will not or the work of the wor is perfect. Should some other variety be chosen find out whether it is per-fect or imperfect. If imperfect, some perfect sort that blooms about the same time should be planted with

2.—It will soon be too late to take cuttings from current bushes. Take them at once and store them in sand for a couple of weeks to cause the butts to callus. Store with the butts purpermost. When taking the cut-ting, select last year's growth and cut the butt end off squarely just be-low the joint and the top end between

joints, leaving the cutting about six to eight inches long. If you purpose growing your bushes in tree form, remove all the buds on the cutting except the top one when planting and place the cutting in the ground to the full depth leaving only this one bud above the ground. If the bush form is desired, plant the cutting in tact. Currant cuttings may be planted with more or less sugcess as soon ed with more or less success as soon as taken from the old bush, but it is best first to induce them to callus.

Pleased With Premium.—I am to day in receipt of the alarm clock you sent me for securing one new subscription to Farm and Dairy. The clock arrived in good shape and I am pleased with it. I think the clock alonies well worth more than you chargfur the paper and colck together. It was not not be paper and I see me reason why it will not keep good time.—Geo. Jacques, Perth Co., Ont.

Drop

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hang a ment is from floo I have saw in a as being find this gular att roosts at Can you in a drop nests un what heig from the it slope to put the wall or a wall or a

From 2 enough in roosts all board. tion of shown, nests, eac wide and inches h under th edge of and allow port same would ha ches on of the nes

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there they co door is opene arrangement the drop bos the wall at th

Pointer Wilbur Benn

The incuba hecessary evil large number An essentia the breeding a the very pink active. One or results from or been pampere lif possible bre fowl, mated One is more li ality of the flocase watch the loses that, fail

*********** POULTRY YARD

Dropping Board and Nesting Arrangement

Arrangement

My hen house is divided into two paris.
Each part is 9 feet by 11 feet, with a
place for rocets at the north end or side,
which is made warm,
hang a cuttain. Each rocal raranged to,
hang a cuttain. Each rocal seven feet
com floor to ceiling.

I have been using swing rocets such as I
saw in an issue of your paper described
saw in an issue of your paper described
into the part of the side of the side

gular attention to put up and lower the rocests at the proper time.

Can you deserved, me how I can put in a dropping board, as to have the nests under the dropping board he what height should the dropping board before the floor, and at what any abound it slope to the front, and where is the put the nests, whether at the north that the foot in the board of the curtain?—G. E., Grey Co., Ont.

tion of nests, as shown, having six nests, each 12 inches wide and 12 to 15 inches deep and 20 inches high. Place under the outside edge of drop board and allow it to sup-port same. Thus you would have 18 in ches on either end of the nests for the

The following is the method of hatching, which I follow:

natching, which I follow:

1st. Moisture—One can not have
too much moisture in a machine. Fill
up the pans with water at the start,
and keep it there until the machine
is closed up the 15th day.

2nd. Vertileties. De not come at

is closed up the 10th Cary.

2nd. Ventilation—Do not open at
all for the first 10 days, after which
the ventilators may be gradually opened up, till the date of closing the
machine, when they must be closed to
retain the moisture. There is nothmachine, when they must be closed to retain the moisture. There is noth-ing in the air cell notion 40 go by in controlling ventilation accounts of the Eggs of different ages vary inhead air cells any way. The egg can eat be dried out too little, it is nearly al-ways dried out more in incubators than under broody hens.

3rd. Tomorasture. Buy et a high

3rd. Temperature—Run at a high ord. Temperature—Run at a mgn temperature from the start; in win-ter 103-4 degrees on eggs. You do not need it quite as high in summer. One will find there is not as much difference then between top and bottom

of eggs.
4th. Cooling—Do not cool at all From 20 inches to two feet is high enough for a drop board and the mosts about 10 inches above the long the hatch if one does.

The hatch should be cleaned up before the hatch is one does.

THE NESTS. Fig I.-To Be Placed Under Dropping Board

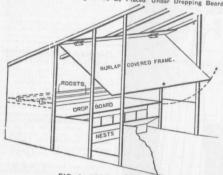


FIG 2.-ROOSTS AND NESTS Showing Arrangement of Dropping Board, Curtain, Etc.

hens to get in under drop board. From the end of the 21st day. They do not there they could enter the nests over the three-inch strip. The horizontal door is opened to secure the eggs. This arrangement is shown in Fig. 2. Have the drop board level and hinged to the wall at the back.—F. C. E. This

Pointers on Incubation

Wilbur Bennett, Peterboro Co., Ont.

The incubator is at its best only a hecessary evil. Where one requires a large number of chicks hatched early one must depend on the incubator.

An essential part of incubation is the breeding stock. They must be in the very pink of condition, lean and active. One can never secure good

the very pink of condition, lean and active. One can never series good results from over-fat fowl, that have been pampered for egg, that have been pampered for egg with the period of the condition of the condit

require much cooling in summer either; the large operators do not make a practice of cooling, especially of

eggs.

. Turning—Eggs do not require to be turned over shuffling or moving about is all that is required. This should, up to the 18th day, be done at

ahould, up to the 18th day, be done at least twice daily.

6th. Testing—Eggs can be tested on the fifth day. If one will do it by annlight a small hole in a dark cloth vanulgh which the rays of the sun can enter, makes an efficient tester. They should also be tested later to remove any dand oversteen the state of the sun dand oversteen the state of the sun dand oversteen the sun dand ove any dead germs.

It is a good plan to thoroughly

It is a good plan to thoroughly wash the machine with a solution of senolem before setting. A 10 per cent solution kills the germs of mold, and disfects it. Do not onen up the machine until the hatch is all completed, the temperature may be allowed to run up then to 105 degrees while the control of the co

the wick renewed occasionally. I consider a hatch satisfactory if I get 50 per cent. to 60 per cent. of the eggs set, in chickens,—that is on an average. Sometimes if one's fertility is high one will go away ahove this average. Sometimes if one's fertility is high, one will go away above this, but more often not. Eggs should go 85 per cent. to 90 per cent. fertile on

Raising Chicks in Winter

"It is not a difficult matter to hatch chickens in January," said Professor Graham while lecturing before the Peterborough Poultry Asso-ciation recently. "They hatch as



An Early Clutch

Early hatched puliets make the most profitable winter layers. Plan to have your hatches all off before the end of May. well in March or April. The trouble comes in raising them. The January chicks grow well for about three weeks, then they get weak on help get, their bodies seem to get lead to be about their attendant goes into the undertaking business."

An experiment was carried on at

taking business."

An experiment was carried on at the College during the past winter in raising January chicks. It proved very successful. It seems some important that the chicks shall get out of doors and on the ground. Small runs were provided from the brooder and out of doors the chicks had to go. They were driven out daily whether they wanted to go or

FREE EGGS

For only two new yearly sub scriptions to Farm & Dairy, at \$1 each, we will send a setting of eggs, of any of the standard varieties of fowl. Replenish your flock. Add to it. It will cost you nothing but a little time. New subscriptions to Farm & Dairy are easily obtained

Sample copies on application.

Circulation Department,

FARM & DAIRY Peterboro, Ont.

not and allowed to go in as soon as they cared to. This method kept them from going over on their legs.

them from going over on their legs.

Improve Your Flock,—Poultrymen wishing to increase their flock, or to obtain new stock should avail themselves of the opportunity that we offer, to get new stock absolutely free of cost. We will send a pair of the best pure bred fowls, to any one sending us only four new yearly subscriptions to Farm and Dairy, at \$1.00 to the property of the p

Prof. W. R. Graham in his illustrated lecture on "Poultry Raising," given recently before the Peterboro Poultry Association showed a poultry plant where 10,000 laying hens had been kent. It was not a success It. Poultry Association showed a poultry plant where 10,000 laying hens had been kept. It was not a success. It went out of business in three years. On such plants the hens lay all right, the trouble is to raise them. The birds get smaller and smaller each year. They develop long heads and lower tails and shortly become subjects for the undertaker.

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TESTER

DISCOVER

WHICH WILL POSITIVELY DETERMINE THE FERTILE EGG BEFORE INCUBATION

POINTS THE WAY START RIGHT TOU ENDRIGHT

"XX" means fertility. Every good egg registers at some point on the scale of "The Breeders'

Magic Egg Tester," according to its condition, and this wonderful little instrument tells instantly whether an egg is fertile or not BEFORE incubation. The scale reads like a thermometer and so easy that any 10-year old child can test eggs. The fertile eggs register at "XX" and the tester never fails to tell whether fertility is strong, weak or absent. A well-known poultryman of Western New York says:

"Used your Brenden' Maje, 'ingues Falls, Nr. J. Ass. 10, 1900.
"Used your Brenden' Maje, 'ingues Falls, Nr. J. Ass. 10, 1900.
rest in al liked of tests. Simple Fgf Fuster since Aug. 1900. 1000 voorrest in al liked of tests. Simple Fgf Fuster since Aug. 1900. 1000 voorrest in al liked of tests. Simple Fgf Fuster since Aug. 1900. 1000 voorrest in al liked of tests. Simple Fg. 1900. 1000 voorrest in al liked of tests. Simple Fg. 1900. 1000 voorrest in all kan test in the Pale Fg. 1900. 1000 voorrest in all kan tests in the Pale Fg. 1900. 1000 voorrest in all kan tests in the Pale Fg. 1900. 1000 voorrest in al liked tests. Fg. 2000. 1000 voorrest in al liked tests. Fg. 2000

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MAGIC EGG TESTER WORKS

BRIDGEBURG, ONT.

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The Feeders' Corner is for the use of our subscribers. Any interested are invited to sak questions, or send items of vited to ask questions, or send items of prompt attention. Recessessessessessessessesses

Feeding Young Heifers Retention of Afterbirth

tion of Afterbirth

The young helfer that I hought at Mr. Rice's sale is doing fine. As I hope she will make a good producer, and as there is a great deal in raising young helfers, be a great deal in raising young helfers, be will deal in raising the property of the great she will be a great deal in raising young helfers, would like to get your alpful deal from the hot get the got his cattle from call-hood up it I they are cows. I would also like to get from him how he treated his cows (if he grow him how he treated his cows (if he form him how he treated his cows if the form him how he treated his cows if he day thus affeited if their afterbirth did by this afficiently pure hore him how the same that he was a supplied to the same him how the same him had been a supplied to t

In the case of a cow not cleaning In the case of a cow not cleaning properly, I do not advise or allow any-one to take the cleaning way by insertion of the hand, as there is danger of injuring the womb. Simply give the cow in her feed or water or by drench 25 drops carbolic acid (full strength). Give this in a pint or more of water three times a day

for four days. That would be 75 drops of carbolic acid each day. Give this internally and no external or other treatment is required. If the afterbirth is hanging out after two days of ealiving, get two sticks and place the afterbirth between them; grasp both ends of stick and roll it around pulling gently. This will take away considerable of it. The rest will come away itself in a week by giving the carbolic treatment. Sprinkle zencome away itself in a week by giving the carbolic treatment. Sprinkle zen-oleum diluted behind the cow to keep

any odors from affecting others.

Any time after two years old is a good time to have a heifer drop her first calf. Perhaps between 25 and 30 months is best. It will depend up-30 months is best. It will depend up-on whether you are practising sum-mer or winter dairying. If the latter you can have her calve in January, when she is two years old if not more. March is a good time to have a cow calve when it is desired to raise the calf, as it gets a good start before fly

To develop a heifer for the dairy is simply to keep her growing and in a healthy condition. Neither to fat or too thin. As grass will soon be here good pasture is all that is required, but if the heifer is to freshen in January, see that there is some-thing for her to eat next fall so that she will not have to roam over pasand will not have to roam over pas-tures that give very little nourish-ment. Start to stable early in the winter, and feed succulent feed, en-silage roots with straw and a little meal.—Geo. Rice.

I am not prepared to say that a bull will be so injuriously affected by high feeding as is the heifer, but I

Fattening Heifers-Dairy Form

I have read with much interest the articles relative to the full way done to dairy heifers by becoming failure as we do with our heifers during heifers are good on the outperformed by the state of the I have read with much interest the ar-

casions and have had several rather unpleasant experiences in our herd which lead me to think that the ground, that over-feeding or high fit-ting permanently injures dairy heif-crs, is well taken. High fitting, how-ever, and the fat or flesh that heifers will law on whan organ is good are ever, and the fat or flesh that heifers will lay on when grass is good are quite different things. The heifer that does not do well on good grass is not likely to amount to much as a dairy cow. Yet the heifer that gets excessively fat even on grass rather than grows and develops as she should is likely to prove uneither. than grows and develops as sne snould is likely to prove unsatisfactory as a dairy cow. The happy medium of lots of growth and good condition when grass is plentiful is the right thing

do not like to see the bull in very do not like to see the bull in very high fit either. Any tendency en-couraged in the sire is apt to be transmitted to the offspring to a greater or less extent. Dairy bulls are not expected to be so "angular" or scant of flesh as the dairy cow. They are, however, ex-pected to show more or less dairy con-

formation. The records behind the for more in making a selection than so called dairy form,—J. H. Grisdale, Agriculturist, C. E. F., Ottawa.

Feeding for a Record

Kindly inform me what you consider the Ainuly inform me what you consider the best feed for a cow to give the most butter. One of my cows has a record of giving 15 lbs, of butter a week on the poorest of pasture. We wish to put her up to a test in May or June.—Mr. H. B., Colebrook, Ont.

Any cow on milk test or butter test Any cow on milk test or butter test in late May or June should by all means have access to good pasture grass. She should not be expected to walk too far to get all the grass she cares to eat. In addition she should have what she will eat of the following mixture:

| Oats . Barley | , | | | | | | | | , | * | * | | | | .200 | lbs. |
|------------------|---|---|---|---|----|---|--|--|---|---|---|--|--|--|------|------|
| Bran | | | ý | | ı, | 4 | | | | | | | | | 100 | lbs. |
| Corn | n | 1 | e | a | 1 | | | | | | | | | | 200 | lbs. |

say five or six pounds a day. She will possibly not give enough more milk to much more then barely pay for the amount of this meal, but she will make a better showing and the strain on her will be less marked.—
J. H. Grisdale.

Substitutes for Milk

In feeding young calves the milk sup ply is short, what would recommend as a substitute for a part of the ration?—J.C.M.

Success has been attained by many in raising calves on the short milk ra-tion when Blachfords calf meal is substituted.

Dairying a Profitable Business

R. E. Lampkin, Brant Co., Ont.

I have found dairy farming a good way to build up a farm. If proper feed is grown such as corn good way to build up a farm. If proper feed is grown such as corn for the silc, and plenty of clover hay in rotation with the regular grain crops, a good herd of cows furnishcrops, a good herd of cows furnish-es the means whereby the crude pro-ducts of the farm can be converted into a more saleable commodity such as milk, which can be sold at one's door. When one has the help the milk can be made into butter at a much better profit, because then you have the milk for your calves and pies.

that it takes to grow our crops. The ordinary farmer does not keep enough stock. The more stock kept on a farm the more profit there will be, as stock enriches the soil and the land will produce larger and better crops. By weeding out all the cows that do not return a good profit and are only more than the stock of the soil of t

I find Farm and Dairy very interesting. It is a very good paper.—Al-len J. Rogers, Saskatchewan Co., len Sask



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Mating breedin produce this yea Single Comb Rose Comb I Single Comb

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FIRE

Farm Fire Protection

The one great fault to be found ith water as a fire fighting agent, with water even though one is fortunate enough even though one is fortunate enough to have it always at hand for instant use, is the fact that water will not only not extinguish a blaze caused by oil, as oil will always float it will cause it to apread.

this reason we strongly advocate the use of dry-powder fire-extinguishdry-powder nre-extinguish-ers as we are safe in stating that at least 70 per cent. of fires in rural districts are caused by exploding lamps or lanterns.

Another advantage claim-ed for dry-powder over liquid extinguishers is that in case of a fire in the chimney
as so often happens, all that
as so often happens, all that
as seemed to be a considered to be a case of a fire in the chimney

DRY POWDER EXTINGUISHERS

DRY POWDER EXTINGUISHERS.

The dry powder extinguisher as shown by illustration 1 is a metal tube some 18 inches in length by 2 in in diameter and weighs when loaded from one and three quarters to two and one quarter pounds. It is suspended by a ring on the cap, from strong hook or nail and to operate all that is necessary is to give the tube strong nook or nail and to operate all that is necessary is to give the tube a sharp downward pull, thereby re-moving the cap; throw, not sprinkle the contents forcibly at the base of the

The number of concerns using this type of extinguisher can only be com-

puted by the thousand and when the writer called on a number of Toronto firms he found each and every user a strong endorser. The writer has himself tested the efficiency of drypowder and has, with about a handful of the mixture, extinguished a fire built of cotton waste, coal tar and gasoline. Need anything more be fire built of cotton waste, coal tar and gasoline. Need anything more be said? When a fire has been extinguished it can readily be seen how much powder remains and if only a small portion has been used the cap can be replaced and the powder used at some future date. Directions for refilling, etc., are sont out by the manufacturers of the machines.

LIQUID EXTINGUISHERS. As the foregoing has been exclusive-

ly in reference to dry-powder extin-guishers let us now turn our atten-tion to the larger though more expensive liquid chemical fire-extinguisher

as shown in illustra-tion 2. This machine is made of copper, 24 inches high, seven inches in diameter and weighs about 17 and weighs about 17 pounds when loaded. This mode of operation is practically the same in all liquid machines; i.e., to turn on, turn machine unside down chine upside down, holding machine with the left hand directing the stream by the hose which is held in the right hand, to shut-off reverse the machine to former

In all cases it is necessary to then take the machine out of doors and allow it to discharge itself as it is impossible to judge the quantity of showing large time. of chemical remaining in the machine. of chemical remaining in the machine. The cost of the average is very slight, being less than 25, and is as follows: One and one-half pounds of Bi-Carbonate of Soda dissolved in two and one-half gallons of water, placed in the body of the machine, four fluid ounces of Commercial Sulphuric Acid, placed in the class hatfal, in the reads. othness of Commercial Suppurite Acid, placed in the glass bottle in the neck of the machine. In all cases the man-ufacturer sends full instructions. The advantage of a machine of this nature is readily realized when the fire is over-head or in fact any place where it is impossible to throw a powder, as the force generated by the chemicals when they come in contact with each other is sufficient to throw a stream some 40 or 50 ft., thus enabling the operator to extinguish a fire of greater magnitude than perhaps the dry powder could cope with.

INSURANCE RATES. In the larger centres the insurance companies grant a reduced rate where fire-extinguishers are installed. Howcompanies grant a reduced rate where companies grant a reduced rate where fire-extinguishers are installed. However, as this only applies to machines which are approved by the "Board of The work of the state of the control of the state of the building this phase in the matter will hardly affect those in the matter will hardly affect those in the work of the work o

surance company offer to pay you for the injuries you received while attempting to saving the fire-crazed horses? And so on down a long list of such questions and invariably the answer is in the negative and you begin to realize that "an ounce of prevention is worth a pound of cuts." so in every case.—W. G. R. York Co., Ont.

Clydesdale Association

An important meeting of the Executive Committee of the Clydesdale Horse Association of Canada was held in the Walker House, Toronto, last week. President John Bright, of Myrtle was in the chair. The principal subject under discussion was to the control of Clydesdale records in this touther and in the United States. Reports were presented showing that the present the present of the control of t An important meeting of the Execu-ve Committee of the Clydesdale gratulation to Canadian farmers, and confirmed the breed as the "horse of the well-worked farm."

The registrations for the first three

of the well-worked farm."

The registrations for the first three months of this year are without precedent, and far surpass the returns for the same period of the year 1907, a year ahead of all previous years by 200 per cent.

Some time ago Mr. J. W. Brant. accountant of the National Live Stock Records of Ottawa and Live Stock Records of Ottawa and Mr. william Smith of Columbus, Ont. without Chicago to confer with Profits of the American Association in regard to the facilitation of Canada and Canadian horses in the Tunied States. Mr. Brant was present at the meeting, and reported that the matter will be thoroughly thrashed out at a meeting of the American Association in December.

Production and Care of Milk

Cecil R. Lloyd, Hastings Co., Ont While taking sufficiently good care of his stock during the winter, the av erage farmer turns his cows out erage farmer turns his cows out in the spring long before the grass has re-ceived a good start. The consequence is, that the milk supply fails were ten during the cold wet spring, when it should be at its height. In the middle of the summer it often herpens that long southways the spring of the spring that long southways the spring of the summer it of the spring that long southways day weather the spring of the summer it of the spring of the spr middle of the summer it often happens that long continued dry weather des-troys the pastures. The average farmer having made no provision for such an emergency, finds his con-steadily decreasing in their milk flow Such a decrease reduces the profits to steadily decreasing in their milk flow Such a decrease reduces the profits to a minimum. By autumn they will not even have gained up, owing to the cold weather and lack of shelter. Our farmers will never be worthy of their calling until they make as when procalling until they make as much procalling until they make as much pro-vision for the drought blasted pastures of summer, as they do for the cold winter, and also till they provide shel-ters for these cattle during the incle-ment weather of spring and fall.

That the milk should be delivered at the cheese factories in good condition is very important. A great deal of milk arrives at the factors at the cheese maker at the cheese the cheese maker no alternative but to send in the cheese maker should have taken it in regardless of consequences. The main trouless of consequences. The main troubles lies in the fact that the farmer does not know the real importance of having the milk in first condition, while the average cheese maker should be a supportant of the condition of the conditi PURE MILK ESSENTIAL it should be remembered that an infer-rior quality of milk means a decreased vield of cheese. Besides it materially lowers the quality. It places the cheese maker in an embarrassing and difficult position. If he accepts the impure or overripe milk, he is in dan-ger of spoiling the entire output, and

THICK, SWOLLEN GLANDS

that make a horse Wheeze Boar, have Thick Wind, or Choke-down, can be re-

ABSORBINE

W. F. YGUNG, P.D.F., 123 Monmouth St., Springfield, Mass LYMAN, SONS & CO., Montreal, Canadian Agents.

then losing a considerable amount of mone. Then also it is not fair to the careful patrons for him to accept milk which would lower the standard milk which would lower the standard of hs product and reduce the quan-tity of cheese that can be made from a given amount of milk, thus reduc-ing the price per hundred. This loss may be caused by the negligence of a few, but it affects all the patrons equally.

CAUSES OF CONTAMINATION.

The principal causes of bad or tainted milk are, impure food or water, dirty utensils, exposing the milk to dust or other sources of infection,

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ST and

Oil Cake Meal - 100 lbs. Shorts or Middlings 300 " Salt 1 - 1144 Cheaper Than any I Calf Meal

Scald and Feed Warm

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Remarkable Discovery That Cuts Down the Cost of Paint Seventy-Five Per Cent.

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A preminent manufacturer has discovered process of making a new kind of paint without the paint with the paint wit

VENTILATION For Dwellings, Rural Schools and Stables

By Prof. F. H. KING

This is a new book dissued December 1989, which treats in a conclety practical way, the question of Ventilate. It is desired to the desired of the desired o

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DO From the kind that won for me YOU and will win for WANT you.

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Correspondence a Pleasure

. MARCY **Dufferin Poultry Yards** BARRIE

An ounce of prevention is worth a pound of cure. Did the insurance you received bring back that valuable mare you lost in the fire last year? The barn was insured but did the in-



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AUCTION SALE OF VALUABLE CREAMERY PLANT

OF VALUAGES CHEAMERY PLANT Under instructions from the creditors of the Dauphin Cream-ery and Produce Company, Limit-ed, the lands, buildings and plant of the said company, situate in the Town of Dauphin, in the Province of Manitoba, on the following premises: Lots 19 and 20, in Bloom Lag above on a day registrate. premises: Lots 19 and 20, in Block 1, as shown on a duly registered plan, No. 243, of the Town of Dauphin, will be offered for sale by public auction, at the KING'S HOTEL, at DAUPHIN, aforesaid, on Sata the hour of 3 o'clock in the afternoon, by Mr. S. A. McLean, Auctioneer.

Auctioneer.

The Assignee is informed that there is in the creamery on the above premiese a complete butter plant, and also a complete set of machinery for pasteurising milk.

The property will be offered for sale en bloc or in separate parcels as may be further directed by the creditors.

creditors.

Terms of sale, one third cash, one third in three months, and balance in six months.

The property will be sold subject to a reserve bid.

to a reserve bid.

Further particulars will be made known at the time of sale, or may be had from be had fr

R. C. SPARLING, Assignee, or Messrs. Harvey, Edwards & Bowman (Hls Solicitors), Dauphin, Manitoba.

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both during and after milking, and to boon during and atter milking, and to keeping it at too high a temperature after milking. All these causes can be remedied by a little care and fore-thought. Great precaution must be thought. Great precaution must be taken to have the milk pails and oth er utensils in a clean and sanitary condition. See that all loose dirt is carefully brushed from the udder be-fore commencing to milk. Remove are commencing to milk. Remove are commencing to milk. Remove he milk as quickly as possible after tilking to a place where it will be comparatively free from contaminamilking to

The temperature at which the milk The temperature at which the milk is kept is another important point. Germ life thrives best at a temperature of 70 degrees or over. The milk should be cooled immediately after being drawn to at least 50 degrees in summer and 60 degrees in the fall. to summer and 60 degrees in the fall to summer and 60 degrees in the fall to summer and 60 degrees in the fall. The second of the fall to be sufficient to the fall to the fall to be sufficient to the fall to the fall to be sufficient to the fall to be suffici accomplish this ice is almost an indispensable necessity.

Referencesessessesses CITY MILK SUPPLY DEPARTMENT

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not higher than 45 degrees F. until VIII. It shall not be more than 24 hours old when delivered to the

IX. It shall not contain during the months of June, July, August and September more than 10,000 bacteria September more than 10,000 bacteria per cubic centimeter, as shown by a 48-hour culture on nutrient agar medium at 37 degrees C, nor in the remaining months of the year more than 5,000 bacteria per cubic centimeter as demonstrated by the same tests.

X. The veterinary inspector and the physician of the Commission shall each month inspect the herd, the health of the employes, and the hygienic conditions of the dairy generally. ally. XI.

XI. All bearers of a physician's rescription for certified milk shall

be deemed preferred customers.

In order that this standard may be obtained the Commission makes the following recommendations

1.—THE BARNYARD.

Standard for Certified Milk
A circular of information for dairymen, concerning the requirements for
certified milk, has recently been issued by the milk commission of the
Toronto Academy of Medicine. The
standard is as follows:

1. The herd milk shall contain The barnyard should be free from

Rideau Dellah's Lena DeKol 3893

This cow is yet another demostration of the value of good ancestry. In a seven day official test, she produced 20 lbs. butter, as did her dam before here. She is sired by a grandson of De Kol Ind. She demostrates also that the so-called dairy type is likely to stick close to good productors and before might have been better, when the photo was been better, see the state of last summer, when the photo was the grown might have been better, duction in March, 1908, amounted to \$3.560, and in four months, \$125.64. She is owned by R. F. Hicks, York Co., Ont.

in any way, nor frozen.

VI. It shall be derived only from cows which have been tuberculin testcows which have been tubercuin test-ed by the veterinarian of the Commis-sion before entering the herd, and have been found healthy, and which shall have been so tested every six months thereafter.

VII. It shall have been cooled to 45 degrees F. within one half hour after milking, and shall be kept at

The stable of th tight floors, preferably of cement. They should be whitewashed inside at least twice a year, unless the walls are painted or of smooth cement finare painted or of smooth cement fin-ish, which can be washed down fre-quently, and the air should always be fresh and free from bad odours. There should be an adequate water supply, and necessary wash-basins soap and towels. The nanure should be removed from the stalls twice daily, except when the cows are in the daily, except when the cows are in the ing and evening milkings. The man-ing and evening milkings. The man-ure gutter must be kept in a sanitary condition, and all sweeping and cleanare gutter must be kept in a sanitary condition, and all sweeping and clean-ing should be finished at least one hour before milking, so that at the milking time the air may be free from

III .- WATER SUPPLY. The whole premises used for dairy Perfection in Ammunition

DOMINION SHELLS

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purposes, as well as the barn, should have an abundant and easily accessi-ble water supply, absolutely free from any danger of pollution with animal matter.

IV .- THE COWS. The cows should be examined by a The cows should be examined by a skilled veterinarian at least once a month. Any animal suspected of being in bad health must be promptly comoved from the herd and her milk rejected. Never add an animal to the herd until it has been tested with tuberculin, and it is certain that it is free from disagree. All berculin, and it is certain that it is free from disease. All cows shall be tuberculin tested every six months at least. Do not allowed the teneroum tested every six months at least. Do not allow the cows to be excited by hard driving, abuse, loud talking or any unnecessary disturb-ance. Do not allow any strongly-flavtalking or any unnecessary disturbance. Do not allow any strongly-flav-noved food, which will affect the flavor noved food, which will affect the flavor fla should be rejected.

ing should be rejected.

The regulations governing the milkers, the ers, dealers other than milkers, the the milk, the dairy, and other regulations required by the commission will be given in a subsequent issue.

Items of Interest

The high-stepping carriage team illustrated in Farm and Dairy. April 8th, and owned by Mr. T. A. Cox, has since been sold to Mr. McMillan of Since Been sold Winnipeg, for the snug sum of \$1400.

Messrs. Manhard & Gilroy intend holding their second sale of register-ed and tested Holsteins on Tuesday, May 25th, on the Brockville far grounds. The animals to be sold number 50 head.

Continuous growth is necessary to make swine profitable and this can-not be obtained without plenty of

A few pigs are often more profit-able on the farm than a large num-ber, but every farm should have a

Where alsike grows too rank, for the best production of seed, this rank growth may be overcome by sowing six or seven pounds to the acre. and the sum of the service of the sowing six of seven pounds to the acre. To the sum of the service of the service of the service of the lipping the clover, or pasturing.—T. G. Raynor, B.S.A., Seed Dept., Ot-

I am very much interested in Farm and Dairy. It is the best paper I have ever taken.—H. Bertram, Peterboro Co., Ont.

Pos Maple ley, Si culture sistano eral fi was b ciation said A ago th were I were st Denma ever si develop

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about e \$2.50 for The cost per mon factory." once a benefits Near Ing would he \$35. She and as h milk a y she must however, she would cow prod year. Sh

esting.
Another The man about her fice. "Co rid of the profit," s sible to v vents one he knows There of 66 per cows in D of testing. of 66 per County?

Tob

est draft roller ever built. Nothing filmay or shoddy about it. Fre Booklet E tells why you should buy the "Bissell." Write today T. E. BISSELL CO. Ltd., Dept. M., ELORA, ONT

STEEL LAND large anti-friction duces friction to ti

Possibilites in Cow Testing

Possibilites in Cow Testing
In addressing the patrons of the
Maple Leaf cheese factory, Peterbore
Co., last fall, Mr. C. F. Whitley, Supt. of Cow Testing Association,
stated that the Department of Agriculture was endeavoring to give assistance to the farmers through several fields; the work of cow testing
continued to the companion of t

Cow testing associations aim to develop better strains of cows. Their work consists in finding out exactly where the consists in finding out exactly where the consists in finding out exactly where the consists in finding individually where the consists of the consists o Cow testing associations aim to

once a month by the maker at the factor, and the content of the length of the content of the length of the content of the length of the length

day. She was found out by cow testing.

Another cow in another association gave 1,000 lbs. of butter in a year. The man who sold her knaw nothing about her, and sold her at a sacrifice. "Cow testing helps one to get about her, and sold her at a sacrifice, "Cow testing helps one to get rid of the average cows producing no profit," said Mr. Whitley. "By knowing what each cow is doing, it is possible to work up the whole average of the herd and, best of all, it prevents one selling his best cows that he knows nothing about.

"There has been a general increase of 66 per cent in the production of the cows in Denmark, due to the practice of testing. What would an increase of 66 per cent. mean in Peterboro County? A cow giving 5,000 lbs. now

would give 8,300 lbs. after. would give 8,300 lbs. after. Surely this is worth working for, it is not? It is estimated that 22,000 cows a kegin in Peterboro County. Taking the half that number, say 10,600 cows, and did we increase their output 50 per cent., it would mean in increased return of over \$185,000. These are big figures but they are facts.

facts.

"Where one is keeping 20 cowe at present, three of which are no good present, three of which are no good and are producing no profit, it would mean a saving of \$200 a year at least if he were fit of them. Cow testing has proven good in hundred: of cases. Many have doubled their production in five years through following out the work of the Cow Testing Association."

Asks for a Fair Deal

H. A. Drummond. Wentworth Co., Ont.

It a. ADramond, Wentworth Co., ont.

Is it possible to revive the hog business? I think it is but not under existing conditions. I have read through the columns of our agricultural papers many articles on this important question and almost every writer seems to have a different idea. To my mind that, which is most influencing the price of hogs on foot and causing the fluctuations in the market is the importing of American hog products in the market is the importing of American hog products of the control of the American market.

Our packet quantities, by our packers. This are quantities, but the control of the American market.

Our packet of the American market, the mand buy the American hog products on a low glutter of the control of the Canadian farmer.

On account of the cheap corn the

farmer.

On account of the cheap corn the Americans are able to produce a certain class of hogs cheaper than we can in Canada. The Canadian farmer in the production of live stock has demonstrated the fact that he needs no preference, but is it fair to assume that this American week the state of the control of the contro preference, but is it fair to assume that this American pork should come into our cents a pound duty, while, when we as Canadians wish of the comparison of

This question is a live one and I believe the farmers will stand in a body for it in the future. The majority of farmers might favor free

body for it in the future. The majority of farmers might favor free
trade but as all manufacturing industries have high protection, why should
the farmer which is the source from
which all other industries exist have
practically none? The answer to this
is. The farmer has been asleep and
has not properly made his request
known to the proper source.

There is one thing we censure both
the packer and the Government for:
They have never put a brand on our
hog products going to the British market, and the result is that other countries that do not attempt to produce
as good a class of goods as we do can
ship their thick, fat product to the
British market and it is put on the
retail counter and sold as Canadian,
thus injuring our reputation. thus injuring our reputation

It is emis to me that the packer does not care what becomes of the export business and is catering the home trade where competition is not as keen and profits naturally larger. We might ask: "What does it mean to see one firm controlling 20 stores or more in Toronto".

Torontor

If the Government and the packer
will give us a fair deal we will produce the goods to fill all requirements:

could be spent better by employing better advantage on their farms.—P. laboring men to keep the roads in a Farley, Peterboro Co., Ont. out the farmers to work on the roads, when their time could be spent to

Have you forgotten to renew your subscription to Farm and Dairy?



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sey Cattle Breeders Associations.

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CIRCULATION STATEMENT.

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OUR PROTECTIVE POLICY We want the readers of Parm and Dairy want to the part of the Parm and Dairy want to the part of the Parm and Dairy want to the part of the Parm and Dairy want to the part of the Parm and Dairy want to the part of the Parm and Dairy want to the part of the part of the parm and parm an

FARM AND DAIRY PETERBORO, ONT.

TORONTO OFFICE: Room 304 Manning Chambers, 72 Queen St., West, Toronto.

DAIRY FARMS COMPETITION

The beneficial results of a dairy farms competition are practically beyond estimation. The competition to be held this year in Ontario as outlined in Farm and Dairy for April 8th will have far reaching effects. It will have the effect of leading those who take part to put forth a special effort to improve their farms and methods of management generally Neighbors of the competitors will be come interested and watch closely what is done. The best methods followed on the competing farms will quickly be noted by other farmers in the section and be adopted by them more or less readily. Competitions of this nature have the effect of establishing illustration farms throughout the Province and as the farms are managed by practical farmers the object lessons they teach are correspondingly more valuable.

The great objection to the manner in which prizes are awarded by local

agricultural exhibitions lies in the fire the necessary draft to waft it into ply giving the fields a stroke with men who are not the best class of a few cattle or sheep or for seed grain or for farm products and yet be one of the poorest farmers in his section. It happens only too often that exhibitors purchase their exhibits before the fair with the object of winning a few prizes. Where, however, whole farms are entered and the judges visit the farms at different seasons of the year, it is necessary that the competitors shall be all round good farmers before they can win a prize. Farm and Dairy hopes that farmers generally will assist in making the proposed competition a great SHOOOSE

FIRE PROTECTION

Every man who tills the soil and who owns buildings of any description is interested in adequate fire protection. Who in these latter days would think of doing without fire insurance upon their houses, and the contents of the home, and insurance upon the more valuable farm buildings, as well as upon their contents? With few exceptions, the insurance carried is far from an amount equal to the value of the buildings in In case of fire, much loss and inconvenience is bound to result.

While most people in rural districts place more or less confidence in fire insurance, there is another form of protection from fire which has been overlooked. On but few farms, is there any well planned means of extinguishing a blaze should such a misfortune happen. In all public places, and in hotels in cities, where, owing to civic fire fighting organizations supplementary means of fighting fire would seem unnecessary, we find in convenient places, reliable hand chemical extinguishers. Why should similar facilities not be at hand upon all farms, and those living thereon be acquainted with their use? A simple and reliable chemical fire extinguisher can be had at small cost. Should occasion arise to bring it into use, it would instantly be worth many times its purchase price.

The great value of such protection was forcibly brought home to an editorial representative of Farm and Dairy recently, while visiting at "Dunain," the country home of Mr. Barlow Cumberland, at Port Hope. Mr. Cumberland keeps a fire extinguisher, with an extra charge for it, close by, in a convenient place both upstairs and down, in his home. One is also kept in the barn. Not long ago, when descending the stairs with a lighted coal oil lamp in hand, one of the members of the household missing her footing, dropped the lamp over the stairs. In a moment all was in flames. The timely use of this fire extinguisher prevented what would have otherwise resulted in a costly conflagration.

On another occasion, its value was demonstrated at the barns. Smoke was seen to be issuing from under the floor in the driving barn. The extinguisher was brought into use, and without tearing up any boards,

fact that they are frequently won by flames, the extinguisher readily disposed of the danger. In this particufarmers. A man may win a prize for lar case water would have been of little use, as the fire could not have crops. We must rely upon stored up been located on the instant. Those who have their own best interests at heart will see to it that some adequate protection against fire is installed, and acquaint all hands about the place with its use.

PREPARE FOR SUMMER DAIRYING

In spite of many previous experiences with shortage of summer feed and the falling off of the milk supply that is inevitable under such conditions, many of our dairymen in the past have failed to make preparations to keep up the milk flow after the luxuriant pastures have been eaten down and June conditions have past. Let us not be caught napping this year. Now is the time to plan what supplementary feed we will furnish our cows this coming summer. Under normal conditions, the cows will not lack for pasture during June. After that date, however, with few exceptions, supplementary feed can with profit be furnished to the cows.

Those who previously have allowed their dairy cows to rustle for themselves during the summer, as well as provident dairymen of long experience, will find suggestions of value in the article on page 3 of this issue dealing with summer dairying and soiling crops by Mr. J. H. Grisdale, Agriculturist at the Central Experimental Farm. If we will but be not only hearers of the word but doers in connection with the suggestions made by Mr. Grisdale, the dairy industry from the producers end at least will receive great impetus this coming summer

EARLY SEEDING

We all realize that upon the seed time depends the harvest. We should note also that the yield per acre at harvest time depends much upon the date of seeding. Experiments conducted at the Ontario Agricultural College for a long period of years with sowing grain at different dates after the land was fit to work have I shown conclusively that grain should be sown in the following order: spring wheat, barley, oats, and peas. By actual experiment it has been shown also that an average decrease in yield per acre of 56 pounds of oats, 53 pounds of barley, 29 pounds of spring wheat and 23 pounds of peas resulted for each day's delay in seeding after the first week in which the ground was fit.

It is apparent that delays in seeding time are costly. While it is not advisable under any circumstances to work land before it is fit, all attention should be given to getting the seed in after the proper time has arrived. It would be a poor policy, however, to give adequate cultivation for the sake of getting the seed in hastily. Much of the loss as indicated may safely be attributed to loss of moisture through exaporation. Where it is found that seeding has to be unduly delayed benefit will rethe ordinary drags. In average years the rains of summer are insufficient to meet the needs of the growing moisture. Hence the great need of early seeding or cultivation to conserve all the moisture possible.

OUR HORSE INTERESTS

It is unfortunate for the horse interests of our country that many of those who breed horses have not a higher appreciation of the value of a good horse. We are all familiar with horse breeding practices as they are commonly carried on. The owner of the stud, the groom and probably greatest of all the service fee enter into the considerations of the prospective breeder, rather than the breed, the breeding, or the individual merit of the stallion. Much of this indifference to a superior sire can be charged up to the practice of breeding from old, worn out, crippled and unsound mares.

That old and oft repeated adage, The best is none too good," is doubly applicable when it comes to selecting horses and mares for breeding purposes. The best mares at our disposal are not too good to breed, and the best stallion available will not be any too good to mate with our best mares. In mating mares this season let us realize that our responsibility is not only personal but national. Let us breed from the best, that the offspring will be of high merit and such that will command a ready market at a profitable price when it has reached a saleable age.

One or two mares at least, on the average farm, can just as well be used for breeding purposes. When carefully handled they will do practically as much work, and the colts can be raised to a working age at a cost that will scarcely be noticeable. Those who have a young horse or two to sell each year find such sales a pleasing addition to their income, and when bred right there is always sure sale awaiting them.

PRODUCTS THAT SELL THEM-SELVES

Marketable products of a quality superior to what is commonly rated first-class find ready sale. Especially is this so with products of the maple. Mr. Wellington Sager, of Wentworth Co., Ont., a user of a Champion Evaporator when interviewed by an editorial representative of Farm and Dairy in Western Ontario recently, said that there was no trouble about the demand for syrup, when it was made thick. He counted on making his syrup sell itself. It was not his policy to ask a man to buy, yet he assured us that he could sell 75 gallons to-day to people that have asked for it.

Although the standard for maple syrup is 13.2, Mr. Sager required his to weigh 15 pounds. The syrup, though it would sell as it comes from the evaporator, is all taken to the house and clarified. When put through a clarifying process it is that much better. Commenting upon the and without giving the smouldering sult in conserving moisture by sim- question, Mr. Sager informed our recurren season anothe his pr had to Wha equally duets o ary ou

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readily obvious so far be prod In vi tion in sown in ments d vation o the Lir Station this issu results

market

indicato in excer wheat in cated. 1 propound many cas wheat th tate the chinery, are in a Three F

Three f to dairyi bec and a roads, sm They are generated roads are ther of w son and Although ahead of production making of the ma to suffer

Bad roads gress in evriculture, bing. When ng a good on many m comes tir of working better, he b factory at soon, his to Most of the in existence eract the e to draw m roads.

Small fac ing. Every seems, those harm is don stry on a Many small tle milk for Those scant class appara poorly paid products.

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presentative that last year he sold his entire output at an advance over current market prices. When the season was over, he was informed by another prominent syrup make, that his product was the only batch he had to compete against.

What is true of maple products is equally applicable to many other products of the farm. While the ordinary output is often a drag on the market, the high class article sells readily at a premium. The moral is obvious. Turn out an article that is, so far as possible, the best that can be produced.

In view of the unfavorable condition in which much fall wheat was sown in Ontario last fall the experiments dealing with the spring cultivation of fall wheat as carried on by the Lincoln, Nebraska Experiment Station and cutlined elsewhere in this issue are of especial value. The results of these experiments would indicate that it is not advisable, save in exceptional cases, to harrow fall wheat in spring. It is clearly indicated, however, that rolling gives pronounced beneficial results. many cases it will be well to roll the wheat this season if only to facilitate the work of the harvesting machinery, as many of the wheat fields are in a very lumpy condition.

Three Foes of Quebec Dairying

Three foes are doing much damage Three foes are doing much damage to dairying in the province of Que-bec and also in many other parts of the Dominion. Those foes are: Bad roads, small factories, and poor milk. They are all of one family, being generated one by the other. Bad roads are the grandfather and the fa-ther of whom small factories are the roads are the grandfather and the fa-ther of whom small factories are the son and poor milk the grandson. Although the province of Quebec is ahead of the other provinces for the production of first class butter and production of first class butter and of the path of th

Bad roads are an impediment to progress in overything pertaining to agriculture, but more specially its darying. When a farmer has drawn during a good while his milk to a factory on many miles of poor roads, he soon on many miles of poor roads, he soon of workings on the road to make it with the second of the second of the second has been as the nearest corner and, factory at the nearest corner and, and the second has thought becomes a reality. Most the numerous small factories in existence have been built to counteract the numerous small factories of the second has been been built to counteract the resulting from having to draw milk to factories on bad roads. BAD ROADS

Small factories then go on increasSmall factories then go on increasing. Everybody knows, except, it
seems, those whould them, what
harm is done to the whole dairy industry on account with the state of the control of the control
Many small factories and poor profits
he milk for each one and poor profits
he milk for each one and poor profits
hose scant profits bring with them
poor buildings, chears supplies, third
class apparatuses, unskilful because
poorly paid labor, hence poor dairy
products.

POOR MILE.

Poor milk is the worst evil resulting from the existence of as many small factories. When maker receives only a few hundred pounds of milk, he can't be and is a better about the quality of the extended the milk of the milk

is at the head of a large factory so is at the head of a large factory supplied with a good quality of fair milk he is independent of negligent farmers and sends back all bad milk that is brought to him. This can not be done by the poor maker of a poor factory who would soon, by so doing, be obliged to close the door of his establishment. This explains why so many poor dairy products come from many poor dairy products come from establishment. This explains why so many poor dairy products come from districts where the makers are oblig-ed to receive all the milk, bad or good, brought to them, on account of the competition that reigns amongst all the small factories of such dis-tricts. THE REMEDY.

What is to be done against those three foes? The first since to be fought is surely bad order, since they are the generators of the table three are the generators of the table table three are the generators of the table tabl

sent to rotiow the regulations of that law.

As to the unwanted small factories, two things should be undertaken to make them disappear. The first is to work to the centralization of many poor ones, in one strong and well equipped. This can be done by the co-operation of farmers from the co-operation of farmers from the first, would take the resolution of making better roads under the operation of the law mentioned above. The second is to fight against these factories by means of the laws redistrictive to hygiene which, well applied, should make them fall under their application and close their doors. The Quebec local government is, we are recently informed, studying this question and may soon give it a satisfactory solution.

Then, with cond roads, and stone.

ton and me, tory solution.

Then, with good roads and strong milk will soon disapfactories, poor milk will soon disap-pear and we will hear no more of the three foes we have to fight against, just now

Swine in America

Swine in America

"Swine in America" by F. D. Coburn, of Kansas, treats of this wast industry in a most exhaustive manner. The work is handsomely printed to the party of the

A Good Worker

A Good Worker

I secured the list of six new subscribers I sent you for Farm and Dairy, within one and a half miles of my own home. I have more now to send you. I did not even have a copy of Farm and Dairy with me when I canvassed my friends. They took my word for the paper, I explained the good merits of the paper, and they all took it.

If you will be the avery farm home in July believe that every farm home and Dairy, and my own business arranged I would like to spend 12 months towards that end.—A. F. P. It is desirable to mention the name of this publication when writing to advertisers



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Sulphate of Potash and Muriate of Potash

Creamery Department
Butter Makers are invited to send contributions to this department, to ask questions on matters relating to butter making and to suggest subjects for discussion. Address your letters to the Creamery Department. Butter Makers are invited to send contribu-ions to this department, to ask questions on natters relating to butter making and to sug-seat subjects for discussion, Address your letters to the Creamery Department. *************

Notes On Alberta Dairying

C. Marker, Dairy Contaissioner, Alta. The dairy industry of Alberta is making steady, substantial progress. Never, perhaps, in the history of the Province has dairying commanded more attention from the farmers than it does at the present time. The dairy cow is gently but firmly pushing her way to the front to take the important place she deserves in the economy of the farm. Her number last year exceeded that of the previous year by more than ten per cent., reaching a total of 110,357. The annual value of her milk products is estimated to be \$8,000,000. Probably a shade over two thirds of this sum C. Marker, Dairy Commissioner, Alta. estimated to be \$3,000,000. Probably a shade over two thirds of this sum represents the value of the milk, cream, butter and cheese used for home. home consumption, leaving nearly \$1,000,000 worth of butter and cheese for shipment to outside markets, mainly to British Columbia and to

CREAMERIES AND CHEESE FACTORIES.

The development of factory dairying is shown concisely in the following table, upon which is recorded the comparative number of factories, the butter and cheese output, the value of product, and average selling price per pound for the years 1900, 1907 and 1908.

The figures for 1900 and 1907 are taken from Bulletin VII, Census and Statistics, Dominion of Canada, and those for 1908 are based upon returns received at this office as to quantity of production. The values given for

Craamary Danagement cheese.

OUTPUT OF CREAMERIES IN ALBERTA,

| Year. | Creameries. | Lbs. of butter | Falue at Freameries. | Average price per pound. |
|----------------------|----------------|-----------------------------------|----------------------------------|----------------------------|
| 1900 1907 1908 | 16 45 51 | 601,489 1,507,697 2,107,485 | &123,305 &362,782 &526,871 | 20.50c 24.06c 25.00c |
| OU! | TPUT OF | CHEESE | VACTORIES | IN |

Ave

Through the establishment of butter and cheese factories during the past few years the quility of our dairy products has become greatly im-proved and, as a result, the demand and the selling price considerably en-

Thus, by the application of improved methods in the handling of the dairy stock and of the milk and cream on the farms; by the employment of skilled workers in our ployment of skilled workers in our creameries and cheese factories and in the safe transportation to market of the finished products, the butter and cheese of Alberta, the creamery butter particularly, has won and now enjoys the confidence of the trade, appeals to the fancy and pleases the natte of a discriptional community consuming. palate of a discriminating consuming public

ORGANIZED CO-OPERATION An interesting and valuable experiment in co-operative dairying has for some years been carried on in the form of the so-called Government creameries. There is an interesting history attached to this movement, but suffice it to say here that early in 1906 the directors of the co-operative associations, whose creameries had been operated by the Dominion Department partment of Agriculture since oir inception, were advised that the Dominion Government found it neces sary to withdraw from that work in

sary to withdraw from that work in the Province, more especially as the business of the creameries had then been placed upon a sound basis. This announcement having been made, the associations unanimously requested the Provincial Government to continue the work which had been commenced under the auspices of the Dominion and conducted to the evicommenced under the auspices of the Dominion and conducted to the evident satisfaction of the patrons of the creameries. The request was granted and the Provincual Government made the necessary provision not only to continue the work that had been commenced but also to undertake naw work. dertake new work.

CREAMERIES IN 1908.

During 1908 21 co-operative creameries were operated by the Department, they were patronized by 1370 farmers, had a butter output of 850,000 pounds representing a selling value of \$220,000.00, making an average price of 25.9 cents a pound at the creameries. the creameries.

Aside from the commercial aspect there can be little doubt that the cothere can be little doubt that the co-operative creamery work has done much towards establishing a public sentiment in favor of the principle of co-operation. As an instance I may mention that during the past few months applications have been received from some 40 different dis-ticts for Government operated co-op-erative creameries.

The evidence taken last year by the pork commission throughout the Pro-

vince showed very clearly that the farmers have confidence in that principle, and it is further emphasized in the report which that commission recently presented to the Legisla-

Dairy Notes

Nova Scotia's cheese output in 1900 was 568,147 lbs. of the value of \$58,321, and in 1907, 181,956 lbs. of the value

The factory or creamery should be an example of neatness and clean-liness, with all utensils in first-class condition.

Ontario's cheese production decreased 1.72 per cent in the years 1900 and 1907, but the value of the product increased by 12.39 per cent. in the seven

Milk should be bought on its merits, by some satisfactory arrange-ment following well founded sanitary and hygienic rules, by which the pro-duction of milk of superior quality is encouraged, and milk of low grade either rejected or gradually im-proved..

In 1900 the number of employees in butter and cheese factories in Canada was 6,886. In 1907 it was only 6,362. Though the number of employees de-creased there was an increase in the total amount of salaries and wages paid, from \$1,464,110 in 1900 to \$1.719,-978 in 1907, the average per employee in 1900 being \$212.62, and in 1907, \$270.14, an increase of 26.55 per cent.

\$270.14, an increase of 28.55 per cent. In 1907 the average price of cream-ery butter for all Canada was 24c, and of cheese 12c a lb. For the same year in Manitoba the average price of cheese was 11c, and butter 25c; in Saskatchewan, 13c for cheese and 25c for butter; in Alberta, 12c for cheese and 28c for butter; in Alberta, 12c for cheese and 38c for butter; lab for cheese and 38c for butter.

THE BEAUTY and convenience of Sharples Tubular Cream Separators stick in your eye. You simply can't forget them.

The supply can is so steady and easy to fill. It need never be moved to take the Tubular apart. All separators, except the Sharples, have cans set right above the bowls-such cans must be lifted

off before the machine can be taken apart, which is doubly unhandy if the can happens to be full.

The few, simple running parts are all enclosed in a dust proof case in the head of the Tubular. They are entirely self oiling, needing only a spoonful of oil poured right into the gear case once a week. The gear case cap lifts off without unfastening anything. This makes Tu-

The light Tubular bowl, hung from a single frictionless ball bearing, and driven by self oiling gears makes Tubulars so light running that the medium sizes can be turned by one who is

bulars very neat. Your wife will appreciate that, and also the light, quickly washed dairy Tubular bowl which contains one tiny, instantly removable piece, very much like a napkin ring in shape

and size. Tubulars run remarkably easy because they

are built remarkably well and in the only right way. They skim twice as clean because they develop twice as much skimming force. Avoid wishing you had

bought a Tubular by buying a Tubular.

> The manufacture of Tubulars is one of Canada's leading industries. 1908 sales way ahead of 1907-out of sight of most, if not all, competitors combined. 1909 is doing still better. Write

> for Catalog 253



To oil the Tubular, simply pour a spoonful of oil into the gear case once a week. The gear wheels throw this over themselves, and the bail bearing supporting the

The top of the supply can, on the largest dairy Tubular, is only 3 feet 3 inches above the floor. Easy to fill, steady, need never be moved to take out the bowl. An exclusive Tubus and the steady of the supplementary of The Sharples Separator Co. Toronto, Ont. Winnipeg, Man.

It is desirable to mention the name of this publication when writing to advertisers

lar advantage.

Che Makers is depar

April

Experim G. A.

In 1898 on at Co. to determ recover th n the whe manufactu ter. Since in New profitable Centrifuga making w Experim

recently by Guelph D last year or making fr has been tion, and be and the Da ment of A on further As forme that an av butter coul lbs. of when portant ma of Ontario

At the pre and whey by had all (that the fat whi from the ch vince of On the revolue by 3.64 per manufacture into censide revenue from would have bappears to b age, but is a gate, and if have been p ing price of tion would g

EXPERIM So, during periments of chell, Superin Dairy School, Herns, Chief Western Onta ditions; and b of Dairying a lege in the Ex experiments v whether or not facturing but facturing butt profitable to t tory of Ontar facture, the q of course, wor the whey, and siderably in dif Mr. J. W.

tests from two GET A I

RURAL PUBLI

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**************** Cheese Department

Makers are invited to send contributions to this department, to asis questions on matters relating to chesionshinking and to suggest sub-bisects for discussionshinking and to suggest sub-bisects for discussionshinking and your fetters to the contribution of the cont

Experiments with Whey Butter

G. A. Putnam, Supt. of Dairy Instruction

In 1895 experiments were carried on at Cornell university, New York, to determine if possible, whether or not it was advisable to attempt to recover the butter-fat which was lost in the whey from cheese factories, and manufacture it into commercial butter. Since then a number of factories in New York State have found it profitable to recover this fat by use of Centrifugal separators, and have been making whey-buter on a commercial scale.

scate.

Experiments were made more recently by Prof. H. H. Dean, at the Guelph Dairy School. Within the last year or two the question of butter-making from the fat lost in whey has been receiving increased attention, and both the Agricultural College and the Dairy Branch of the Department of Agriculture decided to carry on further experiments.

and the Dairy Branch of the Department of Agriculture decided to carry on further experiments.

As former experiments have shown that an average of about 2½ lbs of butter could be procured from 1,000 lbs, of whey, it looked as though this mestion of whey-butter was an important matter when the figures for the entire industry for the Province of Ontario were taken into account. At the prevailing price for cheese of the province of the province

EXPERIMENTS CONDUCTED
So, during the season of 1908 experiments of a fairly exhaustive
mature were carried on by
titlell, superintendent of the Bernath
Berns, Chief Dairy Instructor
Western Ontario, under factory conditions; and by H. H. Dean, Professor
of Dairying at the Agricultural College in the Experimental Dairy. These
speriments were carried on to see lege in the Experimental Dairy. These experiments or to see whether or matthis question of manufacturing buttle greater than the profitable to the argue cheese factory of Ontario. Trage cheese factory of Ontario. Trage cheese factory of Ontario. The control of the control of

different seasons.

Mr. J. W. Mitchell reports the tests from two cheese factories, Balderson and Harrowsmith. The Balderson and Harrowsmith.

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Book Department
RURAL PUBLISHING CO., LIMITED
Peterboro - Ontario

son factory throughout the season, June to October, yielded three pounds of butter problem of butter problem of butter problem of butter problem of butter produced by the same period yielded of these two factories is 2.25 pounds of butter per 1,000 pounds of whey. The Babeck Loop problem of the butter probl

is a wide difference in whey in different factories.

The report of Mr. Frank Herns shows that there was a wide difference also in the factories under his investigation. He reports that the fat in whey varied from as high as .33 per cent. to as low as .15 per cent., and states that the loss was always greater when the milk arrived at the factory in an over-ripe or greasy condition. He places the average mechanical loss as the state of the stat

returns from making whey-butter will be more profitable than is shown from these experiments, and if their loss of butter-fat in the whey is less than 23 per cent., their products in the manu-facture of whey-butter will be cor-respondingly lower.

COST OF MANUFACTURE

COST OF MANUFACTURE
The cost of manufacturing wheybutter from whey is fully as important
I factor as the yield. Mr. Mitchell
states at his cost took into consideration at his cost took into concideration at his cost took into concideration, and allows, inches cost
of fuel, wages for win interest on
investments, and allows, inches cost
ioration, and he found that it
cents a pound to manufacture
whey-butter. There is one factor in
Mr. Mitchell's estimate which is
rather high for ordinary conditions,
namely the factor of wages, for which
butter med \$50.00 a month, and the
butter manufactured averaged 25 lbs.
a day.

a day.

Mr. Herns estimates the cost of manufacturing whey-butter in the Kerwood factory at seven cents at lb. Taking an average of these mates it would make the cost of manufacturing whey-butter under best factory conditions, nine can be. (Concluded next week)

Conclusions of Si--J. W. Mitchell, 2½ pounds of butter per 1,000 pounds of butter per 1,000 pounds of whey; Frank Herns, 2½ pounds of butter per 1,000 pounds of whey. Prof. H. H. Dean, 2½ pounds of butter per 1,000 pounds of butter per 1

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to dairy literature. It contains a surto dary iterature. It contains a sur-prising amount of new material, sys-tematically arranged and clearly pre-sented. The work, which is profuse-ly illustrated, contains 480 pages [5] inches x 7 inches]. It can be had through Farm and Dairy for \$1.75

The Season's Opening.—At Belleville, Ont., the first cheese board session of the season was held in April 15th when 50 boxes colored were sold at 12½c. and 110 boxes of white were offered; but as only 11½c. was bid, factorymen refused to sell, 12c. being demanded.

In ten years I have known of only one case of milk being adulterated in factories where the milk has been paid for by the test. I have known of socres of such cases in factories where the milk has been paid for by weight. —Dairy Instructor R. W. Ward, Peterbor Co., Ont.

WANTED—Cheesemaker, capable of tak-ing full control of 50 ton factory in Peterboro County. Apply April 23rd at cheesemakers' convention. Peterboro.— Richard Killen, Ennismore, Ont.



flow many cows can you keep?

Are you keeping the most possible? Would it not be possible for you to keep more cows on your present land if you adopted improved methods of dairying? If you will investigate the

I. H. C. CREAM HARVESTER

you will almost certainly find that you can increase your you wiit almost certainly find that you can increase your dairy herd, making greater profits with even less labor and less expense than you require under present conditions. I. H. C. Cram they consider a consideration of calling bundreds of dairymen to enlarge their operations. They get all the butter fat, skimming closer than you can by hand. They save work, warrer, time and trouble. worry, time and trouble.

They give you the warm skim milk, fresh and sweet, as a nourishing food for your calves, pigs and chickens. It requires only the addition of a little oil meal to take the place of the butter fat extracted to make it an excellent feed.

I. H. C. Cream Harvesters are made in two styles:
Dairymaid and Bluebell. Either machine will be a great
help to you—will enable you to keep the maximum number
of cows.

Dairymaid

This machine is chain driven and is made in four sizes: 350, 450, 650 and 850 pounds capacity per hour. The

chain transmits power from the crank through the gears to the bowl with minimum friction. This makes the Dairy-maid exceptionally light-running, also very simple and durmana exceptionally ingist-tunning, also very simple and durable. The crank and the supply can are at the most convenient height from the floor, and the spouts are high enough to permit the separated ordite to be discharged into ten-gallon milk cans. The frame is constructed to keep milk and dust out of the gears. In every feature the Dairymaid is a winner.

Bluebell

The Bluebell is a gear drive machine and made in four sizes 350, 450, 650 and 550 pounds capacity per hour. The gears are accumeltely cut from the finest material procurable, Al oling facilities are provided, making the machine long-lived. The finest is constructed so that it is absolutely impossible for milk or dust to gain access to the gears—this eliminates about 90 per cent of ordinary separator troubles. Yet the gears are easily accessible. The supply can and trank shaft are in the most convenient locations.

Call on the International local agent and examine the machine he handles. If you prefer, write direct to nearest branch house for a beautiful illustrated catalog fully describing these machines.

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ALWAYS seek the good that is in people and leave the bad to Him who made mankind and knows how to round off the corners.

Goethe's Mother



Sowing Seeds in Danny

By Nellie L. McClung. (Continued from last week.)

HOCKALUTS?" asked Danny, to be sure that he hadn't been mistaken.
"Yes," went on Pearlie to keep him still while she fixed his shock of red by the hadn't been with the high and her heavy burden arrived at Mrs. Franci's back don arrived at Mrs. Franci's back don arrived at Mrs. Franci's back being Camilia who sat a rockinghadn't been meet he went on Pearlie to keep him still while she fixed his shock of red hair into stubborn little curls, and she told again with ever-growing enthusiasm the story of the pink lady, and the wonderful things she had in the box tied with store At less Danny was completed and stood on a chair for inspection. But here a digression from the main issue occurred, for Brown the main issue occurred, for Brown the main and complained that Patsey had not contributed one thing to Danny's wardrobe while he had had to give up both his tookings and his pants. Pearlie stopped in the work of combing her own hair to see what could be done. "Patsey, where's your gum?" she

"Patsey, where's your gum?" she asked. "Git it for me this minute," and Patsey went to the "fallen leaf" of the table and found it on the in-

side where he had put it for safe

keeping.

recoing.

"Now you give that to Bugsey," she said, "and that'll make it kind a' even though it does look as if you wu gettin "off pretty light."

Pearlie struggled with her hair make it lie down and "net dacint," but the inage that looked back at her from the cracked glass was not encouraging, even after making ailowance for the crack, but she comforted herself by saying, "Sure it's Danny she wants to see, and she won't be lookin' much at me any-way."

Then the question arose, and for a while looked serious-What was Dan

while looked serious—What was Danny to wear on his head? Danny had
no can, nor ever had one. There was
one little red toque in the house that
Patsey wore, but by an unfortunate
accident, it had that very morning
fallen into the milk pail and was now
drying on the oven door. For a
drying on the oven door. For all
when Mary bed surjected that
when Mary bed surjected that the second as

when Mary had an inspiration.

"Wrap yer cloud around his head and sav you wuz feart of the earache, the day is so cold."

anne, the day is so cold."

This was done and a blanket off one of the beds was pressed into service as an outer wrap for Danny. He was in such very bad humor at being wrapped up so tight that Pear-

lie had to set him down on the bed

"It's just as well I have no mitts." she said as she lifted her heavy hurden. "I couldn't howld him at all if

haired Camilia, who set a rocking-chair beside the kitchen stove for Pearlie to sit in while she unrolled Danny, and when Danny in his rather Danny, and when Danny in his rather remarkable costume stood up on Pearlie's knee, Camilla laughed so good humoredly that Danny felt the necessity of showing her all of his accomplishments and so made the face that Patsey had taught him by drawing down his eyes and putting his fingers in his mouth. Danny thought she liked it very much, for

"It is sweet to look into his inno-cent eyes and wonder what visions they will some day see," went on Mrs. Francis, dreamily, but there she stopped with a look of horror frozen on her face, for at the men-tion of his eyes Danny remembered his best trick and how well it had worked on Camilla, and in a flash his eyes were drawn down and his mouth stretched to its utmost limit. "What alist the child?" Mrs. Fran-cis cried in alarm. "Camilla, come here."

here. The material countries come here. Camilla came out or the pantry and gazed at Danny with sparkling eyes, while Pearlie, on the verge of tears, vainly tried to awaken in him some sense of the shame he was bringing on her. Camilla hurried to the pantry again, and brought another cookie. "I believe Mrs. Francis, that Danny is hungry," she said. "Children sometimes act that way," she added, laughing. "Really, how very interesting; I must see if Dr. Parker mentions this strange phenomenon in his book." "Please, ma'am, I think I had better take him home now," said Pearlie. She knew what Danny was, and was feraid that preater distance might

She knew what Danny was, and was afraid that preater distance might await her. But when ahe tried to get him back into the blanket he lost every joint in his body and slipped to the floor. This is what she had feared—Danny had gone limber. "I don't want to go home" he wailed dismally. "I want to stay



Evenly trimmed trees, good lawn, and smooth, well-kept road of a kind that should be more numerous. This cemetery is in Peterboro County, and although in a small city, its care and management could be copied by smaller and more rural and more trush with small expense and not much effort. See article in April 15th is us. We will be gial to publish photographs of similar nature.

Danny's interest in his surroundings, and his eyes were big with wonder when Mrs. Francis herself came in. "And is this little Daniel!" she

"And is this little Brainel".

"And is this little Daniel!" she recird rapturously. "So sweet; so innocent; so pure! Did Big Sister carry him all the way? Kind Big Sister. Does oo love Bis Sister?. Does oo love Bis Sister?. "Nope," Danny spoke so quickly, "just like chockaluts him, isn't it, really?" she said, "with the world all before him, the great untrud future lying vast and prophetic vaiting for his baby feet to enter. Well has Dr. Parker said. "A little child is a brundle of possibilities and responsibilities." "If ye please, me'an". Possibilities."

den. "I couldn't nowld him at all if billies."
I was bothered with mits. Open the dure, Patsey, and mind you shut it said timidly, not wishing to contract tight again. Keep up the fire, Mary, dict the lady, but still anxious to set tried to make it loss personal, but at

with her, and her; want to see the yalla birds, want a checkalut."
"Come, Danny, that's a man," pleaded Pearlie, "and I'll tell you all about the lovely pink lady when we go home, and I'll get Buggey's gum for ye and I'll."
"No," Danny roared, "tell me now about the pink lady, tell her, and her."

"Wait till we get home, Danny man." Pearlie's grief flowed afresh.

Disgrace had railen on the Watsons, and Pearlie knew it.

"It would be interesting to know that mental food this little mind has been receiving. Please to tell him the story, Pearlie."

had him rolled in."

At which Camilla again retired to the pantry with precipitate haste.

"Did you see the blue, blue sky, Dannel, and the white, white anow, and did you see the little anow-birds whirling by like brown leaves?"

Mrs. Francis saked with an air or great childishness.

"Nope," said Danny, shortly, "Syne," said Danny, shortly, "Banny and shortly, and the shortly shortly shortly shortly shortly shortly shortly shortly shortly arms. "Danny shortly, and the shortly sh

Danny's little arms tightened around her neck.
"It's her," he shouted. It's her," Who Mrs. Burton Francis went up to her sitting room, a few hours later to get the "astchet" powder to put in the box that was to be tied with the store string, the sun was shining on the face of the Madonna with the string and it seemed to smile the waste of the Madonna to the waste of the Madonna of the waste of the Madonna of the waste of the waste

CHAPTER II. The Old Doctor.

se beside Mrs. Francis's com-de home stood another large weather-beaten and dreary fortable home house, weather-beaten and dreary looking, a house whose dilapidated verandahs and broken fence clearly indicated that its good days had gone by. In the summer time vines and

Prescribe successfully.

When he came to Millford.

When he came to Millford, years ago, his practice grew rapidly. People wondered why he came to such a small place, for his skill, his wit, his wonderful presence would have won distinction anywhere.

His wife, a frail though very beautiful woman, as first them.

tiful woman, as first thought nothing of his drinking habits—he was never of his drinking habits—he was never anything but gentlemanly in ber presence. But the time came when she saw honor and manhood slowly but surely dying in him, and on her heart there fell the terrible weight of a powerless despair. Her health had nover been robust and she quickly sank into invalidism.

The specialist who came for

and the control of th

(To be continued.)

The

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position are and



filled by a to fill the is one of t whether th or a shade

The tall suited for the low gro ntermediat between th necessary. and hangin Another plants, is n plants, but so as to fur

planting so looking spot a bright ar select chiefly iage plants, ance of the of flowering mixture of v low should low should and relieve green foliage of scarlet fle the main pothe effective baskets and lowing list of the varieties

ed for sum Tall Plants aded Pos lantana, coleriums, ivy-leav Low Growin



Box Fille inor) nastur folia, annual alvssum, dwar Charlie, dust gumnocarpa) A seum, petunia, and other fam lium lanatum, perennial trops For very St a.

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Window Boxes

The Canadian Horticulturist. By Wm. Hunt

The main point to be considered in selecting plants for a window box, is their suitability for the position they their suitability for the position they are to occupy as regards a sunny or shaded position. As a rule, plants that succeed in a sunny position, will succeed to some extent in a shaded position, with poorer flowering results possibly. Plants suited particularly for a shaded position, however, will not succeed well in a burning, sunny position, even with the best possible care and culture. This fact should be borne in mind when esting a box



Box Filled for Sunny Position

filled by a florist or in selecting plants to fill the box or stand yourself, as it is one of t's main points leading to success of failure. Tell the florist whether the plants are for a sunny or a shaded position when getting a box filled.

whether the plants are for a snany or a shaded position when getting a box filled.

The tall growing plants are best suited for the back row of the box, the low growing and those of a trailing habit for the front and ends, and intermediate sized plants for filling in between the back and front row if necessary. In filling rustic stands and hanging baskets, place the taller growing plants in the centre.

The point in the selection of plants, is used to have good sized plants, but only to have good sized plants, but only to have good sized plants, but only to have good sized plants, is used to have a first of the selection of plants, is used to have good sized plants, but only to have a bright and pleasing looking elect chiefly bright, light-colored select chiefly bright, light-colored select chiefly bright, light-colored select chiefly bright, light-colored filled should be used to brighten up and relieve the ground-work of dark green foliage and the heavier shades of scarlet flowers so often seen in window boxes. Brightness is one of the main points to be considered in the plants includes most of the varieties leads to the plants includes most of the varieties of sanday plants.

The plants is the plants in the pl



Box Filled for Shaded Position

winor) nasturtium, Othonna crassi-folia, annual and perennial sweet alvasim, dwarf ageratum creeping Charlie, dusty miller (Centaurea youncarps) Mezembryanthemum ro-youncarps) Mezembryanthemum ro-pomocarps) Mezembryanthemum ro-dominia, verbena, Mme. Salerio and other managements of the salerio and other managements of the salerio for the salerio of the salerio of the salerio for the salerio of the salerio of the salerio of the For very Sunny Position.

For very Sunny Position .- Cacti,

echeveria, agaves, Sansevizria zeylan-ica, aloes and other succulent plants can often be made use of. Tall Plants for Shaded Position.—

Tall Plants for Shaded Position.
Palms, dracemas, syperus, fuchsias,
begonias, aspiditras, araucaria, rubber plant (Ficus elastica) Asparagus
plumosus, Pondanus Veitenii, Pandanus utilis and crotons.
Swood Pans convolvulus tropped.

Sweet Peas, convolvulus, tropgeo-lums Cobea scandens and climbing nasturtiums can also be used very ef-fectively in some positions as a back-ground, as well as forming a shade for the window for the window.

for the window.

Low Growing Trailing Plants for Shaded Position.— Lobelia, cigar plant (Cuphea) nasturtium. Tropacolum canariensis, tradescantia, senecio lum canariensis, tradescantia, senecio or German iy Lophospermum scand-ens, Campanula isolepsis, Canvolvulus minor, leopard plant (Farjugium) Anthericum variegatum, Asparagus Sprengeri, Festuca glauca, Scirpus

Sprengeri, Festuca glauca, Scirpus riparius.

Many of the plants mentioned, such as salvia, ageratum, petunia, verhena, centaurea, Cobea scandens, lobelia and tropeculum and propeculum and proper an

Farm House Plans

From time to time we have had the pleasure of publishing in Farm and Dairy, plams of up-to-date and attrac-tive farm houses. We purpose pub-lishing two or more sets of plans furntive farm houses. We purpose publishing two or more sets of plans furnished us recently by a competent architect in Ontario, together with brief descriptions of the plans. We wish our good housewives to criticise these plans and let us know what they think of them. Any suggestions for improving these plans, or any plans of farm houses, that are thought to be better adapted for farm homes, will be gladly received, and if suitable will be published in this department will be published in this department of the property of



Suggested Plans for a Model Country Home. First Floor Plans.

In the house illustrated, the first In the house mustrated, the first story walls are of grey-white plaster, the upper side walls being shingled and stained in silvery grey. Stepping from front entry, one finds well-lighted hall. Near the door is a roomy coat-closet, with outside light. At one side, convenient to the kitchen, are the stairs to the second floor. At the right is a pleasant living room, having a large open freplace directly opposite the hall. The front wall is centred by three windows grouped together, and, opposite is a French door opening to the spacious verandab.

is a French door opening to the spa-cious verandah.

Beyond the living room is a cheer-ful dining room. This room is con-nected with the kitchen by a com-nectious pantry, having built-in cup-boards and shelves which add materi-ally to the housekeeper's comfort.

We had a definite aim in placing the kitchen in the front of the house.





s always admired and mostly lesired. How is yours? We ure or remove all complex-onal troubles. Don't go about ith a pimpled, blotched, auddy or discolored complex-CLEAR SKIN TREATMENT ill cure you. It has cured any thousands. Consulta-

Superfluous Hair, Moles, etc. permanently removed by electrolysis. Satisfaction asfor our handsome treatise on ooklet "K."

HISCOTT DERMATOLOGICAL INSTITUTE 61 COLLEGE STREET, TORONTO, ONT.

This Washer Must Pay for Itself

MAN tried to sell me a horse once. He said it was a fine horse, and had nothing the matter with it. I wanted a fine horse. But I iddn't know anything about horses much And, I didn't know the man very well, either.

So I told him I wanted to try the horse for a month. He said, "All right, but pay me first, and I'll give back your money if the horse isn't all right."

Figure, our pay me grat, and I'll give back your money if the horse isn't all right. Well, I didn't like that I was afraid the horse wann't "all right," and that I might have to which for my money if I once parted with the So I didn't buy the horse, all wanted it badly. Now, this set me thinking. You see, I make Washing Machines-the "190 Gravity" Washer.

And, as I said to mysel, I of the people gray think about my Washing Machines as I thought about the horse people gray think about my Washing Machines as I thought about the horse people gray think about my Washing all my Washing Machines by mail. (I've sold 20,000 kell me. You see all my Washing Machines by mail. (I've sold 20,000 kell me. You see all my Washing Machines by mail. (I've sold 20,000 kell me. You see as all my Washing Machines by mail. (I've sold 20,000 kell me. You see as all my Washing Machines by mail. (I've sold 20,000 kell me. You see as now the before they pay for them, just as I wanted to try the horse or a month in the work of the my machine.

Now, I my machine.

When I say Mail the time I mean half—not a little quicker, but twice as quickly.

I know it will wash a tubfull of dirty clothes in Six minutes. I know no other machine ever invented can do that, in less than 12 minutes, without

no other machine ever invented can do that in less than 12 minutes, without wearing out the clothes.

I'm in the Washine Machine business for keeps. That's why I know these things so surely. Because I have to know these. And there isn't a Washing Machine made that I haven't seen and studied.

Our "1900 Gravity" Washer does the work so easily that a child can run a simost as well as a strong woman. And it don't wear the clothes, nor fray the edges, nor break buttons, the way all other washing machines do.

It just drives soapy water clear through the threads of the clothes like a become plane wight.

It just drives soapy water clear through the threads of the cootness time a Force Pump might.

If people only knew how much hard work the "1900 Gravity" Washer saves every week for ten years, and how much tonger, their clothes would sail over each other trying to tune. The saves were wear, they would fall over each other trying to tune. The saves were what I were they would reall over each other trying to work waif for people to ask me. I'll offer to do it grant of I'll "make good" the offer every time. That's how I sold 200,000 Washins.

I will send any reliable person a "1900 Gravity" Washer on a full month's

how I sold 200,000 washers.

I will send any reliable person a "1900 Gravity" Washer on a full month's free trial! I'll pay the freight out of my own pocket. And if you don't want the machine after you have used it for a month I'll take it back and pay the freight that way, too. Surely, that's fair enough, inst' it!

Doesn't it grove that the "1900 Gravity" Washer must be all that I say it is! How could. I make anything out of such a deal as that if I hadn't be finest thing that ever huppened for Washing Clothee-the quickest, easiest he first that washer on savely. It will save its whole cost in a few months.

the finest thing that ever happened for Washing Cluthes—the quicket, easiest and handsomest washer on earth. It will aver in whole cost in a few months in Wear and Tear on clothes alone. And then will aware 50 cents to 75 cents a week over that in washerscomany wages. If you keep the machine after a month's trial, I'll let you pay for it out of that it saves you. It is save you do cents a week, send me 50 cents a week till paid for. I'll take that cheerfully, and I'll wait for the money until the mealthe itself earns



Now, don't be suspicious; I'm making you a simple, straightforward offer. You don't risk anything, anyhow. I'm willing to do all the risking myself! Drop me a line to-day and let me send you a book about the "1900 Gravity" Washer that washes clothes in 6 minutes. Or I'll send the machine on to you, if you say so, and TAKE ALL THE RISK myself. Address me this way :- F. D. V. Bach, Manager "1900" Washer Company, 357 Yonge street, Toronto, Ont. Don't delay. Write me a post card now, while you think of it.

April

neeses

Wash a celery, ar pt. boilin with water

1 qt. mil. Brown tablesp
ed, add 1
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milk, stir
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add corn. whipped cr soup disher Wash ar split peas. qts. cold w 1 stalk cele

and pepper and rub th Drain off mon, and fine; pick of fish add 1

of 4 eggs be teasp peppe parsley, and eggs beaten

into a butt To a 1/2-11 ing bones ar mashed pot fine, pepper ly, make in fry in deep

left over, ac salt, and flo

fry brown, l

For this the but it may the top just

cheese is not ed with the ed with the

baking tablesps in

The women of the farm home must

The women of the farm home must necessarily pass the greater portion of the daylight hours in the kitchen. The summer kitchen is separate from the main kitchen. This will prove an advantage, both summer and winter. In winter meals can be prepared in the outside kitchen and the winter kitchen utilized as a dining room, with an entire absence of heat and unpleasant odors of cookery, while, during the winter, the entry will act as a buffer to the cold.



Attractive Second Floor.

SECOND FLOOR PLANS.

On the second floor are four good On the second floor are rour good bedrooms, a sewing room and a bathroom. The owners' room can be directly over the dining-room, and is provided with a closet, each, for the mistress and the master. Each of the other bedrooms has a good closet and windows faning, in two directions. windows facing in two directions.

With the exception of the hall, the woodwork throughout this floor is finished in white enamel, than which there is no better or more sanitary

there is no better or more sanitary finish for bedrooms and bathrooms, as it may readily be cleaned. The future of Canada lies to a great extent with the agricultural world, the farm being without a doubt the backbone of the country. Is it not then our duty to make life on not then our duty to make life on not then our duty to make life on the farm more pleasant and attrac-tive and our farm houses "homes" in the truest and best sense of the word, so that the advantages of city life will be equalled by the attrac-tions of "the old home down on the farm?"

The cost of this house is estimated at about \$4500.00.—C. Stevenson, Wentworth Co., Ont. ***************

The Upward Look

A Lesson From the Israelites

But the Egyptians pursued after them x x and when Pharaoh drew night he children of Israel lifted up their eyes x x and they said unto Mosse, because there were no graves in Egypt, hast thou taken us away to die in the wilderness?—Exodus,

19; 9, 10, 11.

19; 9, 10, 11.

As we read the history of the children of Israel there is one thought that must come to us all: That is, how wonderfully God revealed Himself unto them. What a fortunate people they were. While they were still in bondage in Egypt God manifested His love for them by protecting them from the plagues that played such havoc with the Egyptians. He promised them to lead them into a land flowing with milk and honey. Later He revealed His power by saving them from the Egyptians, without injury or loss to them of any kind, just whose their destruction was a land flowing with milk and honey. Later He revealed His power by saving them from the Egyptians, without injury or loss to them of any kind, just when their destruction were interested to the sound that the same injury of the people of the word of the same in the same His cloud to lead them by the He sent His cloud to lead them by the He sent His cloud to lead them by the minutes were performed for their benefit, the Israelites appear to have grown accustomed to the special mecries that were showered upon them and to have come to look upon them as their right. This may account for the fact that whenever anything happened that seemed to them to be out of the ordinary they were thing happened that seemed to them to be out of the ordinary they were ready to give up in despair and to find fault with God, and even to forget Him and to run after strange

Gods, just as they are shown to have done by our text. How natural it is for us to think that if God would only reveal Himself to-day, as in days of old, foolish indeed would the nation, or individual, be that neglected His teachings.

nation, or individual, be that neglected His teachings.

And yet I how like we, each of us, are to the Israelites. We enjoy advantages that few people have. We are surrounded with mercies on every side. The Bible is full of promised blessings for all who love and serve God. These, however, are apt to be all forgotten whenever trouble cross-es our path. When our plans are thwarted and our cherished hopes seem blighted we are only too quick like the Israelites of old, to forget that God knows better than we do ourselves what is for our own good, and to complain about the hardness of our lot. Our thoughts are so our right and to forgot lessings are inclined to look and the sent person. The sent person was our right and to forgot lessings and the sent person was all the sent person was a surright and to forgot lessings and the sent person was a surright and to forgot lessings and the sent person was a surright and to forgot lessings and the sent person was a surright and to forgot lessings and the sent person when the sent person was a surright and to forgot lessings and the sent person was a surright and to forgot lessings. can we keep ourselves free from being even more forgetfu of God's love than were the Israelites.—I. H. N.

'S CATALOGU

FOR SPRING AND SUMMER

nor 2/08 Lis I received the goods quite dape and am very pleased with good Value and will be pleased to recommend to my friends

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THE COOK'S CORNER

Send in your favorite regime, for publication in this column. Inquiries will be cooking are solicited, and will be cooking are solicited, and suffer receipt of same. Our ac gooding after receipt of same. Our accounting to the contract of two new years and the contract of two new years, who will endeavor to publish where letters or quiestions of most interest to thinking to quiestions of most interest to the contract of th

Wash and cut fine 4 small heads Wash and cut fine 4 small heads cert, and put in a stew pan with 1 pt. boiling water; cook until tender, with water below boiling point. Put 14. milk over fire in double boiler. Brown 3 tables flour, add 1 tables putter, stir until blend-tables putter, stir until blend-tables putter, stir until blend-tables putter, stirring constantly till it is of double to the stirring constantly till it is of the double to the stirring constantly till it is of the stirring constantly till it is of the stirring constantly a puree sieve into this cream sauce, add pepper and 1 scasp sait, and serve at once. If you do not wish to brown the flour we 1 tablesp less. CORN SOUR

One can corn rubbed through a colander. Heat 1 qt. milk in a double boiler. Rub together 2 tablesp butter and 1 of flour, and add to milk. Then add corn. To make extra good, add whipped cream after it is put into the soup dishes, 1 tablesp to each dish.

soup dishes, I tablesp to each dish.

Wash asker Tra sour.

Wash aloak over night 2 cups asker to the split peas. Put into kettle with 4 que.

Asker to the search of the

of 4 eggs beaten light, a tablesp ment-de butter, 's teasp salt, a scant 's teasp pepper, 1 teasp finely chopped paraley, and lastly the whites of the eggs beaten stiff. Turn the mixture into a buttered loaf. Bake 's hour.

segge oeasten stiff. Turn the mixture into a buttered loaf. Bake ½ hour.

To ½ bb. can salmon, after picking home and skin out, add 1 cup cold mashed actions a stiff of the s

Day After Day

Some one has said, "It is the daily grind of small worries that kills women," and I guess it as a said of the cannot visit much—the same task of a much work to do at home that she cannot visit much—the same task of the home. Well, never mind, dear sister, you only have to do one thing at a time, you know.

Don't pile up work in your mind, dear sister, you only have to do one thing at a time, you know.

Don't pile up work in your mind, dear sister, you only have to do one thing at a time, you know.

Don't pile up work in your mind, the task has the ten the same take the same task of the task that the task of the same task of the s

We owe our best to our home and we can not give it when every mo-ment is one of hurry and worry.

Nature Studies

Feery boy and girl is interested, or should be, in Nature studies. Why not try and learn more about the birds and flowers this year than you birds and flowers this year than you be found that? We will send you a beautifully illustrated set of Nature Study post cards, 50 in each set, absolutely free, for only one new subscription to Farm and Dairy, at \$1 a year. These cards give you the names of birds, flowers, and some fruits, and are true to nature in every respect. Address to nature in every respect. Address to nature in every respect. Address Circulation Department, Farm and Dairy, Peterborough.

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Shears that are always sharp; always ready to cut anything and every-thing. The best shears for every purpose in the household. Heat nicked is inch Tension Shears give a shaloutely FREE for only ONE NEW SUBSCRIPTION to Farm and Dairy.

CIRCULATION DEPT. FARM AND DAIRY,

PETERBOROUGH, ONT

GREASE YOUR MACHINERY

But NOT your Dishes or Clothes

The maker of one of the best known soaps says that his soap is a fine thing for greasing bicycles and automobile chains. Then he tells how good this same machine grease is for washing the dishes you eat from and the clothes you wear. This doesn't sound very clean.

But you must have something for your household and dairy cleaning. The ideal cleaner should not only clean, but sweeten and purify. It should be perfectly harmless, absolutely thorough and should produce the best results with the least labor.

You get all of these qualities and others equally unusual and desirable in every sack of



You cannot grease your machinery with this harmless washing and cleaning powder because it contains no grease and no greasy soap or soap powder.

What you can do with it is to wash and clean everything, everything about the house and dairy more thoroughly and more easily than with anything else.

The dishes come out shiny and unstreaked. Clothes are easily made white, soft and sweet. They last their life out, because there is nothing to injure them. Milk cans, pails, separators, churns, etc., are sweetened and purified. Floors and tables, tubs, bowls, sinks, kitchen utensils, all come out from a bath in Wyandotte Cleaner and Cleanser as clean and fresh as a May morning.

Its remarkable cleaning powers are not due to acids or other harmful chemicals for it contains none. It harmlessly loosens and dissolves dirt and grease so that it is all rinsed away leaving only sweetness and purity. The qualities of Wyandotte Cleaner and Cleanser are so unusual that you will scarcely believe what a boon it is without seeing for yourself. Therefore, we ask you to



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Get a sack from your dealer. Use it all. If it does not do all we claim, take back the empty sack. The dealer will return your money.

TRY IT TO-DAY

THE J. B. FORD COMPANY, Manfrs. WYANDOTTE, MICH., U.S.A.

This Cleaner has been awarded the highest prize wherever exhibited

April

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Redetteetettettettett OUR HOME CLUB

SHOULD THE FARMER AND HIS WIFE TAKE A HOLIDAY, AND WHEN?

Farmers with their wives should take a vacation, above an own ple. There are several reasons why vacation, above all other peo-First, because they can afford to do so. Also while they are away, the farm and stock, ctc., is still growing into money. Not as rapidly as when watched carefully by the husband

watched carefully by the husband and wife, but nevertheless they are making fairly good progress. The health of every man, woman and child should be studied most carefully. If health is gone, practi-cally all is gone. A vacation of from two weeks to one month rests the body and soul from constant worry; overs the system time to rebuild where gives the system time to rebuild what has been overtaxed during the hard

has been overtaxed during the hard work of months or perhaps years.

A change of scenery has a wonderful effect on mankind. It brings into activity, brain cells which have been lying down and out for many years. The power of mind over matter is of vastly more importance than we often think, and by keeping the mind bright and cheerful the natural body is greatly benefitted. Often people express a wish for more grace, etc., (when they are already leading a very consecrated life.) I think what they need most is either an improved conconsecrated life.) I think what they need most is either an improved condition of health or something in the way of a holiday.

When should this holiday be taken?

When should this holiday be taken? Probably the best time to suit the greatest number of farmers would be June, just after the spring work is completed and before having and greatest number of farmers would be June, just after the spring work is completed and before haying and harvest. Do not wait until you have a time with nothing to do at home, or you will wait until you are too old to enjoy holidays..."The Doctor." THE FARMER'S HOLIDAY

Should the farmer and his wife take a holiday and when? Of course, why not? Who is more worthy of a good holiday and who takes them less seldom than the farmer and especially his wife? But then the difficulty always presents itself when the farmer wants a holiday; who is to look after the stock, milk the cows, feed the hogs, etc., etc. The old adage, "Where there's a will there's a way," I have found to work out every time. take a holiday and when? Of cour why not? Who is more worthy of I have found to work out every time

My good wife and I have done some travelling in our day and we don't regret it. True, it cost us some money and time, but it was time and money well spent. It gave us a broader vision, a better opportunity to turn our little means to good account and it gave us a greater scop of usefulness. If you want to live count and it gave us a greater scope of usefulness. If you want to live a narrow, lean life, just stay at home and work and slave and save,—and then die and leave your hard earn-ings to others to squander. ('Tis too

often the case.)

I believe farmers and their wives ought to travel more than they do, in order that they may observe how other people do things. We are apt, if we remain perpetually in our small if we remain perpetually in our small circle to become opinionated and pos-sessed with the feeling that ours is the only neighborhood in which there are good farms and farming. But we have to disabuse our minds of this misconception if we go even 50 miles away from home into the next county. We sometimes get erroneous ideas another locality, state or province by hearing invidious remarks concern-ing that part of the country. I will say more later on this subject.— "Father."

HELPING THE HUSBANDS

HELPING THE HUSBANDS
Where one wife would help her husband another would fail entirely. A
woman's sphere is the home. The
Bible says, "she looketh well to the
ways of her household," and in doing
this she is helping her husband. In
going about her work cheerfully,
meeting the little difficulties brightly,
the labels him weep but heat of she is helping him more but, best of all can she help him in learning the smallest details of his business, discussing, planning and counselling together. This brings them closer to-gether and she will be a helpmeet in the truest sense of the term, helping herself even more than she is helping husband.

When we hear of a home where the husband and wife do not agree, our heart aches for them both; it is perhaps only some little thing that has caused the breach. Those little things which seem so big in the early mar-ried days, will, if not dwelt on, soon which seem so big in the early mar-ried days, will, if not dwelt on, soon become mole hills and the future is almost assured. "The house that is divided cannot stand."

It is a mistaken idea for a wife to suppose she is helping her husband in doing his work. It is like successin doing his work. It is like success-fully bringing up children—each must do his or her share. Should the husband become "pushed" for time, then she will gladly assist him over the busy spell, and he will learn that one good deed deserves another, or when the wife has extra work he will cladly nut his shoulder this shoulder. when the wife has extra work he will gladly put his shoulder to the wheel— then when evening sets in—the even-ing of a life well spent, "these two will be twain."—"Mother."

HE All-purpose Flour, and superior for every purpose. Highest grade in the world. Purity

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CLASS A

Option I 1 doz. Gladiolus bulbs, mixed. 3 (only) Dahlias, mixed. Option 2

1 Asparagus Plumosus Fern. 1 Boston Fern. 1 Half Hardy Tea Rose.

Option 3 1 Root Violets.

Hardy Phlox. 1 Iris. Option 4

Option 4
Packages of seed, as follows:
Alyssum, Little Gem.
Aster, Crown Prince, mixed.
Aster, Blanche Lyon, branching.
Aster, Giante Comet, mixed.
Aster, Improved Victoria, mixed.
Balsam, Improved Camelia.
Burnthy Double Frince.

Dianthus, Double Fringed.
Mignonette, Sweet.
Nasturtium, Gunther's.
Nasturtium, Tom Thumb, mixed. Pansy, Giant, mixed.
Petunia, Giant of California.
Phlox, Grandiflora, (mixed).
Sweet Peas, selected.
Stocks, Colossal, mixed.
Verbena, Mammoth.

Option 4 is one choice only. one choosing this option will be sent all the seeds mentioned in this op-

CLASS B

Option I lb. Special Mixed Sweet Pea Special Mixed Nasturtium

seed, tall. 1 oz. Special Mixed Nasturtium

Seed, short. 1 oz. Morning Glory seed. Option 2

Collection Garden Vegetable Seeds. Option 3

1 Bulb, Lilium Speciosum Album. 1 Bulb, Lilium Speciosum Rubrum. 1 Bulb, Lilium Auratum. Option 4

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The Sewing Room

Patterns 10 each. Order by number and size. If for-children, give ago: for adults, give bast measure for kirts. with an analysis of the pattern orders to the Pattern Department.

DOUBLE BREASTED COAT 6162



This coat is chic This coat is chic and smart yet quite simple and is adapted to seasonable cloaking ma'erial. There is the slightly shortened waist line and there are the long close sleeves and patch pockets. The coat is made with fronts, side fronts, backs and fronts, side

with fronts, side fronts, backs and side-backs. Material required for medium size is 6 yds 27, 38, yds 44 or 27, yds 52 in, with % yd of velvet. The pattern is cut for a 34, 36, 38, 40 and 42 in bust and will be mailed on receipt of 10 cts.

GIRL'S NIGHT GOWN 6262



IT GOWN 6262
The simple, comfortably full night-gown, that is slipped on over the head without any opening, and drawn up by means of a ribbon threaded beading, is a favorite. This one can be made either with long sleeves gathered long sleeves gathered into bands or with loose short ones as lliked. It is appropriate for all materials.

Material required for medium size (19 yrs) is 6 y, yds 27, 37s, yds 36 or 37s, yds 46 in wide, 2 yds of beading and ofiging for long sleeves, 2% yds of beading and edging for short so

The pattern is cut for girls of 6, 8, 10 and 12 yrs of age and will be mailed on receipt of 10c.

SECTIONAL SKIRT 6252.



The skirt with straight lower edges is always in demand for washable mater-ials. This one can be made from flounc-ing, from bordered material or from plain material trim The skirt is made

the sairt is made in three sections, the two lower ones being really flounces that are jointed one to the other, then both the skirt.

Material required ium size is 2½ yds. of flouncing. 7½ yds. 11 in. wide; or 7 yds. material 24, 5% yds. 32 or 4 yds.

The pattern is cut for a 22, 24, 26, 28, and 30 in. waist and will be mailed on receipt of 10 cts.

CHEMISE WITH SQUARE OR ROUND



SOUARE OR ROUND
The simple, plain
chemise is always a
favorite one. It involves very little
labor in the making
and it is most confortable and satisfactory. The chemise
is made with front
and back portions,
and the sleeves are
cut in one with it
Material required
for medium size is
2½ yds 36 or 44 is for med 21/2 yds

for medium size 2½ yds 36 or 44 wide with 2½ yds beading and 3½ yof edging.

The pattern is in sizes for a 32, 36, 38, 40 and 42 bust and will mailed on receipt ten cents.

PURITY FLOU

illers have bee millers have bey year as they a year as they a Ontario oats. above an expoint and its for the are quoted at and here at 44 50c a bush. on The barley mar ley is quoted at quote barley at 90c to 60c on the are quoted her and 95c to \$1 a market.

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MARKET REVIEW AND FORECAST

Toronto, Monday, April 9, 1909. — Genteral wholesale trade rates on the quiet stand is likely to continuous and the past ten days has put a damper on business to some extent and in several not been as large dustiness done nas everal not been as large dustiness done not been as large for likely and there are observed in the continuous and the continuous and the continuous and there is no expectation of the continuous and there is no expectation of the country. Call loans are quoted at 4 per cent. and discounts as 6 to 7 per cent, and discounts are 6 to 7 per cent, and 6 per cent. WHEAT contracts of the country points are paying 8 to 85 for 10 per cent.

WHEAT

as to nature or the account. Consequences as to nature of the account.

WHEAT
There has been something doing in wheat during the week. A break in the market both at Chicage and Winniper, the middle of the week, caused some server losses and spenializes found their was only short-lived and by the But it was only short-lived and by the But it was only short-lived and by the Parket or work have come suever nearly back to their old level of the Priday May wheat c'osed at Chicage at \$1.375. The Patten crowd have come suever nearly back to their old level on the Priday May wheat c'osed at Chicage at \$1.375. The Patten crowd have come suever nearly back to their old level on the Priday May wheat c'osed at Chicage at the same short of the server of the ser

Although supplies of bran show some in-crease at Montreal and the demand is not so keen quotations show little reduc-

\$\$ For You in This \$\$ Free Booklet ECCS, BROILERS OR MARKET

POULTRY-WHICH?" Tells why and wherefor. Gives inside facts important to beginners. Send for it to-day BRANT POULTRY YARDS

The seed market shows no change excepting in red clover which is selling here at 25c a bush, higher. Local dealers at 25c a bush, higher. Local dealers of the control of t

HAY AND STRAW

The hay market remains unchanged. At Montreal stocks are equal to the limited demand and quotations for balet hay the theory of the state of the sta

POTATOES AND BEANS

At Montreal Maritime potatoes are quot-ed at \$1 a bag and Quebecs at 80c a bag in car lots there. Prices have advanced

Our Seven Club

Have you joined it? Do you know what it is? It is this; get a club of 7 new yearly subscriptions to Farm and Dairy, at \$1 each. Send it to us. We will in return send you a pure scriptions to Farm and Many, at \$1 cach. Send it to us. We will in return, send you a pure bred pig, of the Yorkshire, Berkshire, or Tamworth breed, eight of the Yorkshire, or Tamworth breed, with pedigree for registration. Ask the seven subscribers you get, to do the same. If they send us a club of 7, we will galdly send them a pig also. Seven new subscriptions to Farm and Dairy can be secur-farm and Dairy can be secured to the secure of the sec

INCORPORATED 1886

The TRADERS BANK

\$6,350,000

and Surplus of Canada Total Assets \$34,000,000

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THE BANK FOR THE PEOPLE One of the 80 Branches of this Bank is convenient to you. Your account is invited.

have been worked off better than expected. A year ago at Montreal butter sold locally at 34c to 55c for old of the sold locally at 34c to 55c for old of the sold locally at 34c to 55c for old to 35c for new. Quotations there at the end of last week were 21c to 25c a 1b for fall creamery and 19c to 195c for freeh. Prices here show little change, especially Prices here show little change, especially expected by the sold of t

20c to 22c a lb.

20c to 22c a

MAPYE SYRUP.
Considerable maple syrup has arrived here from quebe during the week. The season there is reported to be an exceptionally good one. From 95 to 51 a gailon is being paid for the best grades of syrup. At Montreal new syrup is quoted at the control of the syrup is quoted at the control of the syrup is a total of the syrup at the sy

HORSE MARKET

The horse market continues active, though the demand is more local than it was. The demand for the West fell off somewhat during the week and most of the brying was for Ontario points. At the brying was for Ontario points. At the brying was for Ontario Demander of the brying was for Ontario Demander of the bright of them being shipped to points all built of them being shipped to points all out of them being shipped to points and on the point of the bright of t

UNION STOCK YARDS PRICES

UNION STOCK YARDS PRICES

West Toronto, Monday, April 19. — The
run strong of the Monday of the Mond Let. At Belleville on Thursday new colored cheese is now quotable on the market. At Belleville on Thursday new colored cheese but was not accepted. Offers of 13,5 of an all pril make of colored cheese but was not accepted. Offers of 13,5 of all pril make of colored cheese but was not accepted. Offers of 13,5 of all pril make of colored cheese but was not accepted. Offers of 13,5 of all pril make of colored cheese but was not accepted. Offers of 13,5 of all pril make of colored cheese but was not accepted. Offers of 13,5 of all pril make of colored cheese of the colored cheese but was not accepted. Offers of 13,5 of all pril make of colored cheese of the colored cheese of the colored cheese is a colored cheese is a colored cheese is a colored cheese is a colored cheese of the colored cheese is a colored cheese is a

FARM FOR SALE

A very fine farm situated three quarters of a mile from the city of Three Rivers, encous, containing the containing the containing the containing of 50 head of o

P. A. GOUIN, Prop. Three Rivers, P. Q.

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BUTTERMAKER—Wants situation as as-sistant. Dairy School graduate and one season's experience.—E. A. Hodges, 280 Farley avenue, Toronto.

ONLY A FEW LEFT-14 kt. gold fountain pens. We will give one free in return for one new yearly subscription to this paper, at \$1 a year. Write, Box 933, Peterboro Ont.

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BARRED ROCKS, BUFF ORPINGTONS.— Fertile eggs from best laying strain; \$1 per 15: \$4 per 100.—Wilbur Bennett, Box 298. Peterboro, Ont.

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DAVID A. MACFARLANE, Kelso, Que. milkers. good testers and good lookers. AVID A. MACFARLANE, Reiso, with milkers, good testers and good lookers. Several young bulls for sale; prices G-9-8-09

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Have been bred and imported with a view to combine quality with production. The herd contains some noted winners. Nether Hall Goodtime (Imported) now heads the herd. Young stock for sale.

0-5-19-09

J. W. LOGAN.

and Yorkshires

t

Ayrshire Bulls and Yorkshire Pigs FOR SALE

High class Ayrshire bulls and bull calves from one to twenty months of age. Bred from deep milking stock; prices right Also Yorkshire pigs for sale. Apply to D. BODDEN, Manager

or HON. W. OWENS, Proprietor Riverside Farm, MONTE BELLO

RAVENSDALE STOCK FARM

Ayrahires, Clydesdales

W. F. KAY, Philipsburg, Que

0-5-19-09

BURNSIDE AYRSHIRES

Are in such demand I will make another importation, Will attend great dispersion sale of the world re-nowned Barcheskie Herd of Mr. And, Mitchell, will assessed the second of the second of the choice of the choice of the choice of the second of the choice of the second of th E-9-15-09 Howick, Que.

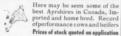
HUME FARM AYRSHIRES On hand young bulls for service. Ser-eral very choice August, 1906, also helfers in ealf, young ows and cows any desired age. Family cows a specialty. Orders booked for Torkshire pigs, orders for im-positing a yrabires solicited. Phone in re-sidence Hoards Station, G. T. H.

AL X. HUME & C ., Menie P.O.

STONEYCROFT STOCK FARM Harold M. Morgan, prop., Ste. Anne de Bellevue Chotce young Ayrahire Bulls and heifers for sale. Yorkahire pigs from Imported Sires and Dams, February and March litters. Largest selection. High-est quality. Write for prices.

E 5-26-09 E. W. BJORKELAND, Manager.

STONEHOUSE STOCK FARM



HECTOR GORDON.

Cap Rouge, Que. E-tf

Howick, Que.

AYRSHIRES

SPRINGBROOK AYRSHIRES are large producers of milk, testing high n butter fat. Young stock for sale. Or-lers booked for calves of 1909, male and emale. Prices right. Write or call on 0-3-24-10 W. F. STEPHEN, Huntingdon, Que

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"Togo" 1983, of Site Annes breeding. Also
two bulls, one year old sired by Togo,
and from deep milking females. Other
young stock for sale. Write for prices.
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Bull Calves dropped this spring. By imported Bull. First prize Toronto, Ottawa, and Halifax. Long distance phone e-3-25-09 W. W. BALLANTYNE, Stratford, Ont.



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GEO. H. MONTGOMERY

hillipsburg, Que.

Imported and home bred stock of a ages for sale. See our stock at the leading shows this fall. Write for price, ROBT. HUNTER & SONS

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HOLSTEINS

FOR SALE-30 HEAD of HOLSTEINS If you are wanting a choice young cow or heifer it will pay you to write me before making

GORDON H. MANHARD E-5-6-09 Manhard P.O., Leeds Co., Ont. miles north of Brockville on C.P.R. (Clark's Crossing) E-5-5-09

SUNNYDALE

Has just completed official 7 day butter re-cords for four young cows, write for par-ticulars. I have for sale bull caires for triculars. I have for sale bull caires for triculars. I have for sale bull caires for veid County and the complete of the veid County and the county of the breed. Also the highly bred four year old bull Hengerveid De Kol Keyes, related to Sara Jewel Hengerveid. Who with her daughter, Sara Jewel Hengerveid 3rd, re-cently sold for \$5,500.

A. D. FOSTER, Bloomfield, Ont.

LYNDALE HOLSTEINS



Head your Head with a son of sara Hengerveld Korndyke whose lam was recently sold for \$2,000, als 3 nearest dams average 25,12 be, butter each in 7 days. Only 2 of his sons left. We still have a lew sons of Count Dekol Petertje umber of Heifers for sale, e-1-27 10 BROWN BROS, LYN, ONT.

SPRINGBROOK HOLSTEINS AND TAMWORTHS

32 Choice Young Tanworths, from imported sows and sired by imported Knowed King David. A few rich bred Holstein bulls and several females. Bargnins to quick buyers.

A. C. HALLMAN,

BROOKLAND HOLSTEINS

AVRSHIRE CALVES FOR SALE
OUT OF

RECORD OF PERFORMANCE COWS

PRICE:—\$35 when one month old

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**BROOKLAND HOLSTEINS
**POR SALE—Bulls & for service, from good individuals. Sired by Marie Korn dyke Wayne, whose dam and sires dam wilk, and \$2 to \$10 to \$1.0 t

J. W. MCCORMICK

STOCKWOOD HERD OF AYRSHIRES ands for everything that is be for SALE—Stock of both sexes.

D. M. WATT, St. Louis Station. Que



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HERBERT SMITH

week. Beginning with the Union Stock
Yards on Monday, the run was not up to
the average and the quality of the effering of fat cattle was generally speaking
only medium. There was a run of 130 cars
only medium. There was a run of 130 cars
of the city market on Wednesday and
the city market on W day noon when things became easier, and several lots of cattle remained unsold, drovers refusing to accept the prices of-

fered.
There were a few export cattle on the market on Thursday and the bulk of those offering were bought for butcher's purposa. Export steers sold at \$5.50 to \$6, and export bulk and cows at \$4.50 to \$470. The steep of the s dressed weight.

b dressed weight.

Prime lots of butchers' steers and heifcrs, 1900 to 1909 lbs each sold on Thursday
at 83.20 to 85.50: loads of good cattle at
85 to 85.55: medium to good, 84.75 to 85;
85.60 to 84.55
and canners and come cove, 83.50 to 84.75,
and canners and concerns, 83.50 to 84.75,
and canners and control of the prices in the country for cattle and when
the break in prices on Thursday came
would have lost money had they sold
would have lost money had they sold
85.60 to 85.75
86.00 to 85.75
87.77
88.00 to 85.75
88.00 to

Trade in stockers and feeders has ruled light and there is little change in the market. Steers, 500 to 900 lbs each, at \$3.75 to \$4, and stockers, 500 to 700 lbs each, at \$3.75 to \$4. and stockers, 500 to 700 lbs each, at \$7.85 to \$1.25 a cwt.

to the state of th

would bring more money out there are lew if any of this kind offering.

The sheep and lamb trade rules steady-under continued light receipts. Export ewes sold on Thursday at \$450 to 85 and rams at \$5.50 to \$4.25 a cwt. Yearling lambs of choice quality sold at \$7 to \$7.50 lambs of choice quality sold at \$7 to \$7.50 lambs of choice quality sold at 87 to 87.50 and common rough lambs at \$5 to \$6 a cwt. Spring lambs are coming on the market in much larger numbers and prices for these have declined. Many of those on for ineas have declined. Many of those on the market on Thursday were too young and small and should have been kept with the ewes a few weeks longer. The bulk sold at \$3 to \$6 each, with a few of the larger and best ones bringing a little more money. Lambs are quoted steady at Buffa-lo at \$6 to \$638 a cwt. money. Lambs are quoted steady at Bi lo at \$6 to \$6.35 a cwt. The hog market took a sudden jump

ward during the week, and prices at f.o.b. points have been the highest of the sea-

THE BACON SITUATION

THE BACON SITUATION
The bacon market is stronger than it has been for some time. Last week Danish killings fell off to 30,000 hogs, as compared with an average of 40,000 during most of the winter. Whether this falling off is temporary or not, is hard to say. A temporary or not, is hard to say. A temporary or not, is hard to say. A temporary of the second that the rules strong though somewhat irregular. Hog products are high the world over.



ROCK SALT for Horses and cattle, in tons and carloads. Toronto Salt Works, Toronto.

MISCELLANEOUS

HARRISON BROS., Mt. Albert, Hereford cattle, Ox-

BERKSHIRES AND TAMWORTHS Choice Berkshire Boars fit for service and sows rest to breed, by imported sire. Choice Tamworths, ages, by a Toronto and London prize winning bo Prices low, considering quality.

Maple Leaf Stock Farm Corinth Ont. SPRUCE LAWN SHORTHORNS

Four bull calves, reds and roans, from milking strains, 10 to 16 months. Females

But the supply has not increased and packing houses are running on short time, thus increasing very materially the cost of bacon. The quality of the hogs arrivnacting houses are running on short time thus increasing very materially the cost of bacon. The quality of the hogs arriv-ing now is good though there is a danger of light hogs being sold because of the high prices being paid. Farmers should high prices being paid. Farmers should till they average from 130 to 200 their hogs till they average from 130 to 200 main grand against his and not sell their about till they aversee from \$10 to 200 her many learning to the their accordance of the control of Early in the winter there were too many heavy hogs. It is better to sell when hogs are ready for the market. The Trade Bulletin's London cable of April 15th re Canadian bacon, reads thus: "The market is firmer and 2b higher with good demand. Canadian bacon 54s 64 to 65s."

PETERBORO HOG MARKET.

PETERBORO HOG MARKET.

Peterboro, Monday, April 19, 1999. — Danish hogs delivered on the English markets lest week totalled 32,000. The demand in lest week totalled 32,000. The demand in the sense of 87.25 a cwt. MONTREAL HOG MARKET

Montreal, Saturday, April 17. — There has been a good demand for live hogs this has been a good demand for live hogs this week, and prices have been advanced over those current a week ago. Receipts have been light, and were quickly picked up, the offerings at the end of the week feething 8425 a ewt for selected lots weigh-ed off cars. This is an advance on the week of 25 to 35 a cwt. There is every prospect of prices being fully maintained next week. The demand for dressed hogs is

The demand for dressed hogs is only fair and the trade is practically from hand to mouth, as dealers are unwilling to pay the high prices asked. Fresh killed abattoir stock is quoted at \$11 to \$11.25 a owt, with sows at \$1 a cwt less. EXPORT BUTTER AND CHEESE

The receipts of cheese this week into Montreal amounted to 80 hoxes as common which was a common which was a common which are a common which are a common which are a common which was a conducted when the was a conducted which was a conducted which was a conducted with which was a conducted with which was a conducted with which was a conducted which was a conducted with was a conducted with which was a

point to the same conclusion. A great deal, however, depends upon the weather and the comparative value of cheese and butter, as wherever possible factorymen will make the article which gives the best butter, as wherever possible factorymen will make the article which gives the best butter, as wherever possible factorymen will make the article which gives have been so the consecution of the control of the co come dealers looked for even higher prices to rule and unless there is a good deal of fresh butter offering here next week, we may see a further advance in prices. The receipts for the week amounted to 2,277 pkges, as against 1,919 pkges, for the previous week, a very sn



netacae OUR

April

WATERVI robins are son. Plowir chards is s chards is s tered well. in many pl ponds is ab reported as bbl. Banan but oranges eggs, 16c; b hay, \$10 to hay, \$10 to are high, as ally rising. from \$2.50 to tapped but ing made as big call for proved Yelle

COMPTON Quebec as a acre than th ers are Quebec s More grain obroadcast. I roadcast. I est results rom two to oats an acre from two to acre. About from two to clover an a timothy. We the seed we

SIDNEY C

storm swept (April 7) do windmills an Within a ra in the nighbo a number of partially so, structure) has age has been though sever stock out of t to collapse a tered in ever suffered heav CHAPMAN.raging the at prospects are s considered markets take averages abou ing syrup he extent. and although well, sickness common. Fee main much th tatoes are qui at 65c a bag and shorts at

BOBCAYGEO started to ploy of snow and c to it for a fe the stock will tion. Farmer rain and warr year; the runs WOODVILLE menced yet. T wintry again, operations son fairly dry an turns warmer far distant. I be getting stro loaded last w for May cattle seiling much tion of barley on the local

VIC

HALI KINMOUNT.-on the 9th was ero weather. d, is not hurt heavy rain wh good by draw tling the groun letting their st why the hay

(LATE GRAND'S REP all ages. Prices to suit all, E-5-16-09 T. W. McCamus, Baillieboro, Ont. THE TEMPLIN MFG. CO., FERGUS. C It is desirable to mention the name of this publication when writing to advertisers

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OUR FARMERS' CLUB stallions have been brought into Kinmonin, a Clyde and a half bred Percheron. The Clyde was bought by a syndicate.—L. T. K 9999999999999999

NOVA SCOTIA

WATERVILLE.—Spring work has again commenced in the Annapolis Valley. The robbins are unusually plentiful this seathers are plentiful, at three for \$6: eggs, \$6: butto-ranges are plentiful, at three for \$6: eggs, \$6: butter, \$18: for this seathers are plentiful, at three for \$6: eggs, \$6: butter, \$18: for this seather, \$18: and KING'S CO., N. S.

QUEBEC

QUEBEC
COMPTON CON, QUE.
COMPTON CONTREE. — The farmer of
Quebee as a rule sows more seed to the
acre than the Outario farmer. More drill
acre than the Outario farmer. More drill
of the Company of the Company
of Quebee used in Outario; the farmers
of Quebee used in Outario; the Company
of Compa

ONTARIO

HASTINGS CO., ONT.
SIDNEY CROSSING. — A terrific wind storm servine through last Wednesday, deptil 7; deptil 8; dept HASTINGS CO., ONT.

suffered heavily.—J. K.

CHAPMAN.—Maple syrup making is engaging the attention of most farmers. The
make to date has not been large and the
prospects are that this will not be what
is considered a good sap year. The local
is considered a good sap year. The local
is considered as for such control of the
principle of the supply and the price
average take all the empty and the price
average take all the empty and the price
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principle syrup has never been rule wintered
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VICTORIA CO., ONT.

VICTORIA CO., ONT.

BOBLATGEON. — Scale of our farmers started to plow a few days are, but a fail we and cold weather has put a stop of the started to plow a few days are, but a fail to the started to

HALIBURTON CO., ONT.

HALIBURTON CO., ONT.
KINMOUNT.—The heavy snow which fell
on the 9th was followed by two nights of
sero weather.
ed. is not hurt, than the show The
deavy rain which fell on the show The
heavy rain which fell on the
say rain which fell on the
ground Too many farmers are
leiting their stock run over the fields thus
sacking them. They will then wonder
why the hay crop is so light. Two new

BRANT CO., ONT.

BRANT CO., ONT.

FALKLAND.—A severe wind storm passed through this section recently and did consequence of the consequence of t

ST. GEORGE. — Warm weather, southset of the state of th

OXFORD CO., ONT.

OXFORD CO, ONT.

GOLSPIE. — We had one of the worst windstorms recently that the oldest set-tlers can remember. It did a great deal of damage. A number of windmills are proposed to the same interest of the same interest of the same interest of the same is running were good although it of the same interest of the same inter

GOSSIP

RECORD OF PERFORMANCE

Five more Holstein-Friesian cows and heifers have been accepted in the Record of Performance with the following re-

of Performance with the following records:

Malahide Princess (4615), at 7 years and 256 days of age: number of days in milk, 350; ibs. milk, 19621.75; ibs fat, 462.73; at 1962. The fat, 462. The fat, 562. Owned by G. Marine, 1962. The fat, 562. Owned by A. Smith & Son, Millgrove, Ont. Son of age: number of days in milk, 355; lbs. milk, 15346; lbs. fat, 564. The fat, 562. T

LIVE HOGS

We are buyers each week of Live Hogs at market prices. I For delivery at our Packing House in Peterborough, we will pay equal to Toronio market prices. If you cannot deliver to our Packing House, kindly write us and we will instruct our buyer at your nearest railroad station, to call on you.

THIS WEEK'S PRICES FOR HOGS DELIVERED AT FACTORY

\$7.25 a Cwt.

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HULL, - BRANTFORD

read Dan Beard's book, "Guns and Gunning'—it will be a revelation to you. For exciting this book is next best to actually recording this book is next best to actually the endown of the second of the





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Send FARM & DAIRY 7 new yearly subscriptions at \$1.00 each and we will send you as a premium a Pure Bred Pig. Your choice as to variety. Pedigree for registration. Start a club to-day.

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Diamond Tooth Harrows

Used on your farm this Spring will increase the yield and insure a good erop for you. They are doing it for others, and will do it for you also. Do not hesitate to order any or all of them. They will make good.

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a few miles of it. We suggest that you

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Ont. Wind Engine & Pump Co. Ltd. TORONTO

MUNROE'S DISPERSION SALE

MUNROUS DISPERSION SALE

As reported in Farm and Dairy last
when the Munroe Dispersion Sale proved
the Munroe Pure Milk Company, Winnipes,
with the exception of two bulls, Johanna
Continua Dair Payne, and the 1907 InContinuation of the Sale of Dairy of the
Sir Fayne, were sold. The result of the
sale of pure breds follows: BULLS

Schirk
Daisy Lisse, H. Hancox, Dominion
City Jonima Teake De Koi, Homer Smith, 500 00
Jonima Teake De Koi, W. M. dib. 200
Primess Teake De Koi, W. M. dib. 200
Olarabell Teake Pride, T. E. Brewster 250
Olarabell Teake De Koi, P. H. A. 255
Olosephine Teake De Ko Barabell Yeane
Josephine Teake De Kol, P.
Lowe
Lowe
Lowe
Connery, Bird's Hill
Osephine Teake De Kol 4th, J.
McFayden, St. James
Modest Maiden 5rd, W. M. Gibson,
Modest Maiden 5rd, V. M. Boyd, 220 00

220 00 200 00 ett. Selkirk Clothilde Pride, James Dav-200 00 ison, Neepawa
Modest Maiden's Ann, Mr. McKinnon,
Minto
Modest Lass 2nd, James Gunn, Stone-Neepawa Maiden's Ann, Mr. McKinnon, 190 00 190 00

Teake 2nd, James Herriott, Lily Ann's Girl, J. B. Burnett, East

Selkirk... B. Burnett, East
Butter King's Butter Girl, J. Atkinson, Winnipeg Beach 115 00
Butter King Queen, W. H. Thompson,
East Selkirk 116 00

. 60 00 Selkirk Britonia 2nd, Isaac Ovens Teake Pride, Thos. Lay 130 00 85 00

Bass centification and Issue Ovens and Convent Teach Pride. Thos. Lay cook, Cagary Ca

James che Belle Teake, N. Wilson, Minto butter Girl's Pride, H. E. R. Smith, Revelstoke, B. C. butter Queen's Pride, J. Smith, St.

mes gie Pietertje Colanthus, Jas. Heraggie Pietertje Teake, Brown, St.

Anguler Pictertje Teake, Brown, 81, 158 00
Charles
Cha

Lucy Piebe De Kol, W. H. Thompson Lucy Treherne's Girl, J. McFayder 70 00 Annie Treherne's Girl, J. Smith ... 105 00 Katydid Kweene. W. H. Thompson 50 00 Katydid Kweene. W. H. Thompson 50 00 Katydid Feake, H. Haneax ... 180 00 Katydid's Pride. John Gamel, Pilot Mound. Modest Maiden, H. Hancox Modest Maiden 3rd's Teake, N. Wil-105 00 Lady Bonheur 3rd, R. Nesbitt, Car-Name.
Dalsy Teake Queen's Pride, J. B. 370 of Market Teake, John Roberta. Sp. 200 Aconeth Sir Pride, W. Brett, Dugald 102 50 Aconeth Sir Pride, J. B. Bretz, Sp. 30 Aconeth Sir Pride, S. Johannes, St. Charles.
St. Charle man. Lady Bonheur 4th, W. M. Gibson Lady Bonheur 5th, H. Hancox Lady Bonheur De Kol, J. B. Fleming.

Unice Beauty, Capt. Meincke 140 00

GOSSIP THE RIGHT WAY TO COOL MILK 275 00 200 00

THE RIGHT WAY TO COOL MILK Every dairyman is familiar with the problem of trying to keep milk sweet naturally, and there is no one who has not suffered loss from milk souring before it could be sold. Most of them know that it could be sold. Most of them know that this trouble may often be traced to prope cooling and ventilation, but a great many do not know how the difficulty may be averseemed. By far the simplest and easiest way to

or the simplest and easiest way to repare milk so it will keep is to cool quickly by thorough aerating—bringing into contact with pure air so that the nimal heat, odors from food, etc., may be emoved at once.

Many devices have been offered, but none has proven more satisfactory than the im-proved Champion Milk Cooler-Aerator, which has a record of sixteen years of satisfactory service in dairies all over the

As suggested by its name the "Improved As suggested by its name the "Improved Champion' strains, cools and aerates the nilk in one process, using whatever is available at the dairy-running water, as available at the dairy-running water, and will cool the milk within two states and will cool the milk within two states are the manufacturers claim that this process, which checks the formation of the batteria that cause source, and the states of t

So confident are they that this device will prove salisfactor; in evaluation and they are making a proposition cashing any dairyman to get one on the table and the scellent qualities for himself. Full particulars concerning this offer, together with the firm's latest catalogue, may be had upon request to the Champion Milk (Cooler Co. 33rd street, Cortland, New York. confident are they that this device

Messrs. Wm. Cooper & Nephews, Toronto: I received from your agent, Mr. V. dobin, one can of your disinfectant I received from your agent, Mr. V. Bobin, one can of your disinfectant Bobin, one can of your gainst beautiful or the lockup at Oakville, and the control of the control of

(Signed) ALEX. McCLEARY, Chief of Police, Oakville, Ont.

HOLSTEIN-FRIESIAN NEWS

Farm and Dairy is the official organ of The Canadian Holstein-Friesian Association, all of whose members are readers f the paper. Members of the Association are invited to send items of interest to Holstein breeders for publication in this column.

BULL TRANSFERS FOR FEB., 1909.

BULL TRANSFERS FOR FEB., 1999.
The publication of these transfers is paid for by the Holstein-Friesian Breed-er's Association Count, Robert Barnett to Laguer Bell's Gount, Sobert Barnett to Laguer Bell's Gount, Sobert Barnett of Abbekerk Pietertje Prince, Wm. 8. Armstrong to Thomas J. Lancaster, Bursesville, On. 10. Per Boy, Levi Monroe to Frank E. Arnett, Allenford, Ont. Aggie Lass Sir Teaks, Munroe Pure Milk Co., to W. J. Head, Prince Albert, San.

Aggie Lass err.

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to F. E. Pettitt, Burgeswille, Ont.
Baron Roberts 2nd. P. C. Pettitt to
John Millo Camboro, Ont.
John Millo Camboro, Ont.
Glettia Rotte Mercena, W. H. Simple Contra View Petertet A. Pred Bell to
Ont.
Contra View Petertet A. Pred Bell to

Thomas, Zenda, Ont.
Jenina Sir Pride De Kol. Munroe Pure
Jenina Sir Pride De Kol. Munroe Pure
Jenina Sir Pride De Kol. Munroe De
Jenina Sir Pride De Kol. Munroe De
Jenina Sir Pride De Kol. Monade to John
Memore. John D. MoDonald to John
Major Abbekerk, P. O. Pettit & Son to P.
B. Pettit, Burgeswille. Ont.
Major Abbekerk, P. O. Pettit & Son to P.
B. Pettit, Burgeswille. Ont.
Malor Abbekerk, P. O. Pettit & Son to P.
Monadide Dorlieka. George H. Gaughell
Melahide Dorlieka. George H. Gaughell
Mornington De Kol. Janae Wagler to Jos.
Mornington De Kol. Janae Wagler D. M. Van
Petter Lander De Kol. Janae Wagler L.
Mornington De Kol. Janae Wagler L.
Mornington

nold J. Dr.
Prince R
O Wesley
Princess
Wm. Couch
Prince Wm. Couch
Prince Wm. Couch
Prince Wm. Couch
Robert D
Henry Bed
Rob Roy
B. Allison,
Romeo Te
ton, Frank
Royal Cou
ton to Will
Sadie Qu
Countrymar
Ont.
Sara Jew Ont.
Sara Jew
Brown to J
Shadelawn
Roy H. We
Sir Aaggi
Farm to F.
Sir Abbek
mons to Art
Sir Acme
Abrans, Su
Sir Evergr
Walter Pate
Sir Helbon
ling to Eds
Ont.
Sir Konwti

April

Prince Pool J. Da

Ont.
Sir Kouwt,
Johnston, A
Sir Wilfrid
Wm. T. Ed
Victor Bob
Beddie, Pres
Victor Wa
Robert McFr
Vida Princ
Patter to Fr
Vrouka Ki
Hawse to Vont. Westholme Westholme

COW TRA Anggie Bell ames Mothe Anggie Bell ames Mothe Aaggie Bell Sathan Crock Aaggie Bell oseph Barne Aaggie Bell Joseph Ba Aaggie Bell aggie Bell Albert Wel

Bessie Remus, Hartley, Downs Blizzard, M. A. Tillsonburg, On Bonnie Lindley Lowrie, Tillsonb Brema 3rd, M loughby, Smith's Butterfly Girl,
Bowman, Spring
Canaan Carme
Dr. L. de L. Hai
Charlotte P. 4t
Sinclair, Norwice
Cora Albert D.
don H. Manhar
Countess Annie
Nathan Cocker,
Countess Calam

Dalsy Rell, M.
rie. Tillsonburg,
De Kol Calamit
to Lorne C. Nel
Duchess Concor
kin to George Ont. to George
Ont. to George
Ont. Esther D. De 1
E. Hulet, Norwie
Fanny Fern, R.
Sons, Aylmer, Oi
Fedora, Hubert
blane, St. Paul
Floas Belle De
to John T. W.
Francy Beryl W.

Walter Mart Lisy Rell, M.

to rge Son bbs M.

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April 22, 1900.

Prince Rosch Canary, M. L. Haley to Ar. Prince Rispert Book Canary, M. L. Haley to Ar. Prince Rispert Book College and Prince Rispert Book Co

Bether D. De S. Gillespie. Westwood.
Esther D. De S. Gillespie. Westwood.
Quora ird. Forrest Caldwell to Fred Bell.
Flamp Fern. R. Willis to E. Laidlaw &
Hong, Aylmor, Ont.
Strong, Rubert Gladu Jr. to Romeo LeLious Bell. Bell. Bell. The Chester. Cinc.
Flores Bell. Welf. Malvern Cont.
John T. Welf. Malvern Cont.
Francy Beryl Wayne De Kol, Justus H.
Francy Beryl Wayne De Kol, Ju

ARE YOUR AVARY

OUR crop will be ready for cutting before you realize it. You would like to have things move along smoothly when you begin the harvest, for you will have men and teams in the field and be

There is just one way you can be assured of having things move

along smoothly.

Get fully ready now. See that your harvesting machines are right.

Get fully ready now. See that your harvesting machines are right.

Description of the full control of the full control of the full chain your artenion.

The full chain your artenion for you, and it will enable you to escape

If you are not already provided with one, the famous Deering binder should claim your attention.

It will save all your grain for you, and it will enable you to escape the vexatious delays that many farmers experience in this busy season. Your grain may be down or tangled.

It matters not. The Deering binder will handle it. It matters not. The Deering binder will handle it. It as strong machine. You will not be troubled with breakages. It is a strong machine. You will not be troubled with breakages. It is a strong machine. You will not be troubled with breakages. It is a proved machine. It is a proved machine and it is possible to severe in a perfect-working binder.

It is a proved machine. The Deering line of more than a generation and its superior has never been in use for more than generation and its superior has never been in use for more than ageneration of the provention of t

INTERNATIONAL HARVESTER COMPANY OF AMERICA, Chicago, U. S. A.



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WE SUPPLY THESE MADE OF STEEL

Our Customers have found these Easier to Erect, Just as Durable, and FAR CHEAPER

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BRANTFORD, ONT.

Why do I sign all my advertising?



STAND back of word in this advertising. just as I stand back of my goods. That is why I sign them with my personal signature.

Every now and some meaning, clever advertising expert says lon't you realize it is out of date to write your advertising in the first person singular? People don't sign their own ads. any more. It's the day of big corporations, not of individuals."

Maybe they are right—they ought to know. But I think I shall go on signing my ads. just as long as I sign my letters. You see, I consider this advertisement just as direct and personal a message to you as it would be if I wrote it to you in a letter. I expect you to believe what it says. So I sign it with my own name. Would I do that if it said anything but the exact truth?

I would like you to know that I mean every word in this advertisement—that I stand right back of every statement it makes-that you can hold me personally

answerable for every claim it makes-and my business and personal reputation amount to something, I think, without conceit.

That is what my advertising means to me, and what my signature means to you. That is why I sign my ads. personally. I think I shall keep right on signing them

G. A. Pedlar.

What Does It Mean to Say 'Guaranteed'?

THIS business was founded in 1861 almost fifty years ago. It has grown till it operates the biggest plant of kind in the British Empire. That the kind in the British Empire. That

Pedlar products have quality. The Pedlar reputation upon making that quality good enough to guar-

That specially interests the man who roofs with Oshawa Steel Shingles. From the minute that roof is on the responsibility for that roof's goodness rests on us-not on the buyer, but on this Com-A ne signed and reputation and the personal word of its President.

There is a gradient.

There is a gradient to the personal word of its President.

There is a gradient to the personal word of its president.

There is no quibble about the Pedlar

guarantee. It isn't full of loopholes and gateways for dodging. It is plain, straight-forward, honest. It says, simply, that ev-ery Oshawa-shingled roof, properly laid,

OSHAWA"

GALVANIZED STEEL

SHINGLES

guarantee will go with the renewed roof.

And by "good" the Pedlar guarantee
means good in ever roof-sense of the word
—means a roof free from leaks, free from

rust holes, free from the need of paint or repairs-a roof that is just what a good roof ought to be.

Twenty-five years the guarantee covers. The roof that's Oshawa-shingled will be a good roof, though, for four times that long-for a cen-

When you consider that no other roofing at all is guar-anteed at all, and that every Oshawa-shingled roof is guaranteed this way, there is scant room for argument etterness of Oshawa Steel

about the betterness of Shingles (Guaranteed.)

A new roof for nothing if they leak by 1934 will be a good roof for twenty-five years, or —that roof will be renewed free of all cost to the owner, and the same kind of a

Why You Should Roof With Oshawa Shingles

BECAUSE Oshawa Steel Shingles (Guaranteed) are made of anteed) are made of extra heavy (28-guage) semi-hardened sheet steel, even-ly and heavily galvanized on both sides and all edges. Therefore Oshawa-shingled roofs are proof against rust and will need no

Recause Oshawa Steel Shingles (Guaranteed) alone have the Pedlar four-way lock, which makes these shingles the easiest and simplest roof to lay (no tools but a ham-mer and a tinner's shears) and yet makes mer and a tinner's snears) and yet makes one seamless, unbroken sheet of heavy steel, that is really wet-proof and that is also WIND-proof. Such a roof keeps a building cooler in summer, warmer in winter, and dry always.

Because Oshawa Steel Shingles (Guaranteed) actually cost less than five cents

square-100 square feet-or a year per square—100 square feet—or about a tent the cost of common wood shingles, yet an Oshawa-shingled roof is fire-proof as well as wet-proof and wind-proof, also it is perfectly insulated against lightning—these steel shingles keep a building safer against lightning than light-ning rods will.

Because Oshawa Steel Shingles (Guaranteed) relieve your mind and your pock-etbook of ALL roof worries there are—and still cost little enough to be an economy for roofing any permanent structure, from a great factory to a hen house. They cover millions of dollars' worth of property all over Canada, and cover it right—else they wouldn't be there.

Send for the meaty little free book that tells you some roof facts you perhaps don't know, but ought to—tells you the compara-tive worth and cost of all kinds of roofing —puts the whole roofing question plain be-fore you. Send for Roofing Right Bookel No. 9 before you spend another dollar for any roof. Learn that Oshawa Steel Shin-gles (Guaranteed) will pay you better, and why

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