

VOL. XXVIII

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RURALHOM

PETERBORO, ONT.

AUGUST 12



PART OF A BRITISH COLUMBIA DAIRY RANCH—THE TOWN OF ARMSTRONG IN THE DISTANCE PART OF A BRITISH COLUMBIA DAIRY RANCH—THE TOWN OF ARMSTRONG IN THE DISTANCE Dairying is destined to become one of the greatest branches of agriculture in British Columbia. The industry is steadily on the increase. Milk, cream, butter and other dairy products bring excellent prices in this Province: annual average prices that are not surpassed elsewhere in America. High prices are due partly to supply not equalling demand, but, also, largely to the high uniform quality of the products marketed. The photo reproduced shows part of the meadow land, on Mr. M. Levar's dairy ranch. The comfortable, beautiful homes of B. C. dairymen give assurance that dairying is profitable. Near the vicinity of Armstrong fruit growing is another industry that is being successfully practised.

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GOULD COLD STORAGE COMPANY Grey Nun and William Streets

Would Stimulate Road Building

Would Stimulate Roka Bulluing
Ed. Farm and Dairy,—The suggestion on "Good Roads and How They
Rothwell and published in Farm and
Dairy June 24 that the system in
Yogue in the State of Oho, where the
Government pays half the cost of
Government pays half the cost of
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a good one. Such a system
a good one. Such a system
would do much towards securing good stone roads be applied in Untarious a good one. Such a system would do much towards securing good on Ontario. If our Legwould do much towards securing good roads in Ontario. If our Leg-islature would increase the grant to permanent roads to 50 per cent., and there are many reasons why they should, it would be an inducement to should, it would be an inducement to the counties to more generally adopt the present county system of road construction. Throughout the great-er part of old Ontario the roads have en built by the farmers themselves the old statute labor system and by the old statute labor system and through large grants from the gen-eral funds of the township. These roads are now being used by a class of travellers unthought of when they were being made. The automobile, we are told is here to stay and we we are told is here to stay and we must make the best use we can of it. And to that end we must have

stone roads.

The present system of County roads is a good one. It may be the best we can get. With the Government grant increased to 50 per cent and the County to raise each year a sum that would make 40 per cnt so distributed that each municipality in the County would receive all that was ted that each municipality in the County would receive all that was paid by them to be expended on the roads in their own municipality and a special frontage tax of 10 per cent. to be levied on farms benefited according to their assessment on their lands, the work of road building all lands, the work of road building all, to be done under a competent over-seer appointed by the County Council, much improvement should result. Were this to be done we would soon see our leading roads handed over the Counties to the Countie see our leading roads handed over to the Counties to be improved and stoned. I am very much pleased to see the active part taken by Farm and Dairy in bringing the question of road improvement up for discus-sion in its columns. I trust that it will result in helping the rural dis-tricts to obtain better roads.—Alex. Town, Warden Carleton Co., Ont.

Agricultural Societies' and Fairs' Report

Many of the annual various societies printed by order of the several Legislative Assemblies in the several Legislative Assemblies in Canada, though they contain much information of value and amply repay a careful perusal, are too often unattractive, printed on a poor quality of paper, lack illustrations and are generally deemed, by every one they are intended to help, dry, uninteresting and not worthy of study. In marked contrast to such is the ninth annual report of the Agricultural Societies of Ontario. Bound in a neat cover, containing Agricultural Societies of Ontario. Bound in a neat cover, containing much valuable information (which is printed on an excellent quality of paper) and profusely illustrated throughout, the report is both interesting and instructive, and is one that will be carefully preserved by all who are fortunate in securing a

Copy.

Verbatim reports of the addresses delivered at the Annual Convention, many of which are of a most valuable nature and by recognized authorities, nature and by recognized authorities, will bear careful study and should be read by all interested in farming. The distinctive feature of this report is its splendid illustrations among which we make particular mention of the portraits of the Hon. Jas. S. Duff, Minister of Agriculture for On, tario, and H. J. Gould, the president of the Ontario, and read that the properties of the contract of th The Unitario Association of Fairs MONTREAL - QUE.

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

horses, cattle, sheep and poultry at Toronto and other fairs. Among other illustrations there appear typical scenes at spring and fall fairs, a plowing match, and exhibition par-ades, notable among which are those illustrating processions at the Bob-

caygeon fair.

The report is live and interesting The report is live and interesting from cover to cover. The superin-tendent, Mr. J. Lockie Wilson, is to be commended on the success of his efforts in compiling this report, which will be much appreciated by all into whose hands it may fall.

Alfalfa Hay for Horses

It is common practice to feed horses too much hay. It is common among y. It is common amo horse owners full mangers when not at work. But in London, the cab horses for example, are given hay for but two hours ple, are given hay for but two hours a day, in the evening. At the end of two hours the mangers are cleared Careful testing in decreasing the timothy hay ration one-half has not shown that the horses required any more grain than before to keep them in equally good condition.

Horses do not need a heavy ration of alfalfa hay. Fed with grain probably 10 or 15 pounds of it is equal to a manger full of other hay. As they became accustomed to the alfalfa it may be increased a little, and the grain decreased. It is a rich food and should not be used as freely as hay with less protein.—From Co-burn's "The Book of Alfalfa."

Items of Interest

The sixth annual meeting of the The sixth annual meeting of the American Breeders' Association is called for December 8, 9 and 10, at Omaha, Nebraska, in association with the National Corn Show held at that place December 6 to 18. A program of addresses by prominent breeders of of addresses by prominent breeders of live stock, prominent breeders of plants and scientists prominent in the study of the heredity of plants, ani-mals and men is being prepared. Arrangements are being made to have many of the addresses illustrated many of the addresses illustrated with stereopticon views and moving pictures.

It is to be hoped that the medals given this year by the Toronto Indus-trial Exhibition will be an improvetrial Exhibition will be an improve-ment on those given during the past few years. A well known exhibitor of pure bred stock, who has shown acck at all of Canada's leading fairs, told Farm and Dairy that medials giv-en by the Ottawa exhibition were good most those and the properties of the conones, those awarded at Calgary and Winnipeg were mice, while those at Toronto for the past three years were so poor he was ashamed of them.

An exhibit of specially selected plants and seed taken from seed plots of members of the Canadan Association will made at the Toronto Industrial Exhibition, Aug. 30 to Sept. 13, and at the Canada Central Exhibition, Ottawa, Canada Central Exhibition, Ottawa, Sept. 10 to 18 inclusive. This exhibi-is being made with a view to giving greater publicity to the work winch a being done in Canada by the Cana-dian Seed Growers' Association in the improving of cultivated plants, and in order that a medium may be pro-vided through which the officers or the Associations. Association may come in touch with a greater number of those who are spe-cially interested in the problem of crop improvement. Arrangements have been made to place a special educational exhibit of selected plants and cational exhibit of selected plants are seed in the Agricultural building of each of the above mentioned Fairs. This exhibit will be in charge of the Secretary or some other officer qualified to discuss the general work of the Associat n. It is to be hoped that a large n other will take advantage of this opportunity to learn more of this important movement.

Issued Each Weel

Vol. XXVII

The Delights of V Ga

C INCE the fa attention r that direct when wisdom in exactness in fini determinant exc gain their ambit many will be di in victory, in ha win in strong of the competition more valuable th

GRATIFICATIO In many cases i fact that more th not be placed at many are worthy tion. However, of every exhibitor for every man in good stock a pride probably furnish of gratification, so the zealous exhib there is often a qu tive, especially at tions. The elemen of the breed (to w pins his faith), ar in particular, prov ing card. Not in hibit at a fair le purchaser to make on some particular

particular herd. strength and excell manifested in the sure to make an in fluence upon the m tain as to which i form a very large c ers. Consequently long lines of splend and well fitted, brot ers. As a matter mands the best tha

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Although the larg tures and give many breeders to exhibit, not possibly offer, t exhibiting at even fair. Many claims of farmer and smaller game and support l his co-workers fair d bration, a gala day, entertainment, and t

FORMERLY THE CANADIAN DAIRYMAN AND FARMING WORLD

Vol. XXVIII

FOR WEEK ENDING AUGUST 12, 1909.

No. 32.

EXHIBITING AT FALL FAIRS, AND ITS EDUCATIONAL VALUE

H. Barton, B.S.A., Macdonald College, Que.

The Delights of Victory in the Show Ring.—Small Fairs worthy of the Stackman's Attention.—The Knowledge Gained from Show Ring Experience, and its Value to the Farmer and His Sons

C INCE the fall fair season is approaching our attention may once more be concentrated in that direction. The time will soon be here when wisdom in selection, care in fitting and exactness in finish will be placed in the scale of determinant excellence. A few exhibitors will gain their ambitions, not all will be satisfied, many will be disappointed. Everybody delights in victory, in having an animal good enough to win in strong open competition. The stronger the competition and the less the restriction the more valuable the victory and the greater the honor.

GRATIFICATION IN SHOWING.

In many cases it seems a regrettable fact that more than one animal cannot be placed at the top, when so many are worthy of special distinction. However, while the ambition of every exhibitor is to win, there is for every man in the exhibiting of good stock a pride and pleasure which probably furnish the largest measure of gratification, something which only the zealous exhibitor knows. True, there is often a quite different incentive, especially at our large exhibi-tions. The element of advertisement of the breed (to which the competitor pins his faith), and of his own herd in particular, provides a great drawing card. Not infrequently the exhibit at a fair leads the expectant purchaser to make his final decision on some particular breed and some particular herd. The comparative strength and excellence of a breed as

manifested in the display at the exhibitions is sure to make an impression and exert much influence upon the man who is just not quite certain as to which is the best breed. Such men form a very large class among our average farmers. Consequently we are not surprised to see long lines of splendid animals, carefully selected and well fitted, brought out by the various breeders. As a matter of business their interest demands the best that they can supply.

SMALL FAIRS ARE WORTHY.

Although the large exhibitions have many features and give many inducements to persuade the breeders to exhibit, which the smaller fairs cannot possibly offer, there is much to be said for exhibiting at even a small country or township fair. Many claims can be made as to why the farmer and smaller stockman should get into the game and support his own fair. For him and his co-workers fair day is a sort of annual celebration, a gala day, a day of wholesome educative entertainment, and the one day in the year, we

might say, when the people who share in common agricultural interests, have a chance to associate, compare notes, and draw conclusions in quite the same way.

THE PROPELLER OF THE EXHIBITION.

The show ring is the real propeller of the whole exhibition, therefore the stock owner, whether he have many or few animals to exhibit, should, for the sake of the exhibition as a whole with its social, educational and inspiring influence, consider hearty co-operation his duty, as well as his opportunity. To the stockman who exhibits, the



One of the Taking Features of the Bobcaygeon Fair

Possibly no one thing adds more to the success of a fall fair than a well-ordered, well planned procession. Bohcaygeon is noted for making such a distinctive feature of its exhibition. The illustration shows a part of the 1908 procession, with Mr. Louis Parker, driving his yoke of our.

fair, be it large or small, has a special significance and value. His interest should be deep, his inspiration great. Above all, the experience and knowledge gained from selecting, fitting, exhibiting and possibly breeding his own animals for the show ring, together with the lessons of comparison learned from his own observation and that of the judge at the fair; these are the things that mean most to the exhibitor; herein is the real pleasure and profit in exhibiting at any fair.

Unfortunately too many who exhibit stock fail to appreciate this special significance. Every one who visits country fairs knows in what poor condition a great many otherwise good animals are brought out every year. How some farmers can allow themselves and their farms to be represented by a herd of poor, miserable looking cattle and probably a string of their shabby looking horses, when a very little feed and attention could have made them a credit and pride to their owners, is a mystery. To such men the fair means comparatively nothing. Exhibiting stock in that shape is not only a waste of time but

an injury to their business and to themselves.

PREPARING FOR THE SHOW.

If the fair is looked upon in its proper light the stock will be selected long before the fair, in fact may be bred for it. Pampering is by no means necessary in fitting animals for show purposes; simply a little care and attention for the most part, for some time before, to gradually but surely bring them to that condition and give them that finish which so often turns the balance in a hard fought battle. The practice of fitting and watching animals, managed in such a way, improves and develops in the owner and his boys (should there be any) an interest and attachment which become a mighty inspiration and give farming a new meaning. We hear a great deal these days, about keeping boys on the farm; if live stock held a proper place a great deal of

our farming would be a much greater pleasure and a much more attractive business than it is. The fellows who leave the farm to accept worthless positions and small remuneration are those who have not had much on the farm to afford any interest or attachment to it, consequently the farm had no fascination for them. They are not from farms where live stock interest and enthusiasm exist.

LACK OF JUDGMENT THE FAULT.

Proper management of live stock and a little show fitting do not mean a great lot of extra labor and expense as many people would have us believe. A surprisingly small amount of attention and feed will make a wonderful improvement. There is no excuse for the poor condition in which we find so much farm stock, particularly horses. Some will tell us less work and more feed will change things. In many cases this is true,

but the trouble is not so much excess of work and lack of feed as it is lack of judgment in working and also in feeding.

SKILL IN HANDLING HORSES.

The proper care, working, and driving of ordinary horses mean skill and the great majority of the farmers themselves will do well to make some observations where ability in this direction is displayed. How often we find men on adjoining farms with practically the same work for their horses, frequently on the same feed and yet one man has his horses in elegant condition while those of the other man are a disgrace to himself and to his farm. In many cases the horses had they been given the same usage should have been equally good. It is simply a question of management and judgment. The one man with his horses in respectable condition can and does, with a very little extra touch at the last, fit them in creditable condition, while the other man can neither show nor sell with any credit or satisfaction to himself. The real necessaries are not often forgotten but after all, the little extras,

such as regular feeding and cleaning make the difference between the shabby and the fine looking horse.

Exhibitions stimulate this greater interest in stead and whether the prize be large or small that should make little difference, the prize itself is of comparative insignificance. The real value lies in the extra investment, the farmer's increased interest in that investment and his increased interest in himself and his own education.

Some Experience With Fall Wheat

Jas. Kitchen, Brant Co., Ont.

Should we in this older Province of Ontario grow wheat, or should we leave it to the newer lands of the west, which seem so well adapted for this particular cereal? The fact of so many Ontario farmers continuing to raise it, proves that wheat can be raised profitably, though perhaps not to the same extent as it was a few years ago.

A clover sod, especially if it is plowed soon after the hay is taken off, makes one of the best locations for fall wheat. The sod should be plowed early so that the ground can be well worked to rot the sod and make a solid bottom, which is one of the most important points in preparing land for wheat. A clover sod is preferable to the bare summer fallow, which latter was followed so extensively a few years ago and which took so given to the corn crop.

If the land is rich in plant food it is a good plan to sow wheat after spring grain. Barley leaves the soil in better shape for wheat than does oats, as it is harvested earlier in the season and consequently a longer time is available to prepare the land for wheat. Barley also does not take so much fertility from the soil as do outs. On our heavy land the practice of sowing wheat on barley land is 'ollowed quite extensively.

The safest kind of soil for wheat is the limestone land. In all seasons, one with another, wheat on such soils is not so liable to rust, or heave with the freezing and thawing of the early spring. We should consider the suitability of the soil for certain kinds of seed and the proper time to sow. As a general rule some variety of white wheat has proved the most reliable on the limestone soil, though we have known mixed wheat to do even better some years. For clay land red wheat has proved to be the most profitable. One of the most difficult problems in growing wheat is to get the variety most suited to one's own farm. A new wheat is always an experiment no matter how well it has succeeded in some other locality. When trying a new wheat the safest plan is to grow two or three acres of it only and then sow it alongside of some variety that has proved itself to be adapted to one's immediate neighborhood.

We cannot be too careful in the cleaning of the seed. It goes without saying that we should take out all foul seeds. We should also take out the small grains, for a large grain will produce a plant that will make a more vigorous growth and also stool more than a plant from a small seed. When all seed is plump less will be required per acre.

An important thing to consider also is the proper time to sow. Some say that the early sown wheat is the best. Others claim that they have had better results from late sown wheat. One year with another it will be found that wheat sown during the first 10 days in September will give the largest yields, that is, provided that the ground is in good condition for the proper germination of the seed. The quantity of seed to sow an aere depends largely on the richness of the soil. On average land a bushel and a half will give the most satisfactory yields.

Photos of farm buildings, farm houses and rural scenes are always welcome for publication.

Methods of Dealing With Sow Thistle

Several articles referring to sow thistle have appeared in recent issues of Farm and Dairy, Mr. Glendinning, I notice, advocates pasture and short rotations. In Farm and Dairy July 8th "Cynacus" takes this method to tack. I believe both are right. Circumstances, soil, drainage both are right. Circumstances, soil, drainage and degree of infestation are the factors that make the difference. I agree with Mr. Glendinning that a short rotation and pasturing, especially with sheep and horses, will control the pest. But that is only effective when the weed is found in small patches—not covering over one-hundredth of the area.

Where a farm is overrun the only method to be effective is to summer fallow part of the area. Put that part into buckwheat after cultivation in the early part of the season, following buckwheat next year by corn. Keep the soil well worked and in short rotation until all the far:a can be cleaned. If we could get three springs in succession with moderate rains and an early chance to get on land I believe the sow thistle would be largely brought under control. There is no possibility of conquering sow thistle in wet, undrained parts of a clay field. No grass will run it out. There is quite a lot of evidence to show that a thorough plowing at a certain stage of its growth will do more to kill it than all the rest of cultivation during the year. Last year that time was June 20th to July 1st. This year I am not sure there was such a time.

I have known this pest for 40 years. When I

Thoroughly Up-to-date

Editor, Farm and Dairy,—I mustcongratulate you on the success of Farm and Dairy. It is a paper that is thoroughly up-to-date in everything relating to dairy farming. It is a pleasure to read it from cover to cover. Anyone desiring to keep up with the times, as it were, cannot do better than to study Farm and Dairy.—Wm. Reid, Lambton Co., Ont.

first knew it we did not think anything of it. The part where it grew was undrained and in a few years the sow thistle disappeared. I am suspicious that seed must live in the soil for quite a long time. Last year I plowed down a thick, old sod. It was at least ten years old. I planted potatoes on it, and was surprised to find the sow thistle thick on about one fourth of the area. On a 200 acre farm I have 30 or 40 acres thick with a little here and there. The balance is quite clear. I never expect to live to see it cleared from our land. I do hope and expect to see the time in a few years when we succeed in understanding the weak points a little better so that we may control this pest as well as the Canada thistle is now controlled. On farms situated similar to Mr. Glendinning, use his method of eradication. Under other conditions vary your method to suit those conditions.

Some Fruit Problems

E. B. Yarwood, Prince Edward Co., Ont.

Last fall, Mr. R. M. Winslow, spent considerable time investigating our orchard conditions and has surprised us sorely as to the ravages of the canker fungus. Now that the farmers' attention has been directed to it, we hope that some one will find a remedy. None that I know of use the line sulphur, and not very many use even Bordeaux mixture.

A few years ago my apples got so bad, I started spraying once thoroughly, following the wind around the trees and I got immense benefit. Near-

er the water, apples do not seem to need spraying so badly. A few years age, a neighbor who has a small old sod orchard let the caterpillarstrip off every leaf and next year to everybody's surprise his trees were loaded with beautiful apples—the best around. Why°

METHODS OF FRUIT SELLING

We are not up-to-date in selling our fruit. We can co-operate in a good many wayssuccessfully but seem to have no one to go ahead in co-operative fruit selling. Raising so much factory stuff makes a great demand for day help in the fall and most men p-fer wasting in a crowd, so, selling the orchard is the easiest way and at present the best way. A large acreage of fruit and factory stuff makes large demands on the manure pile and a good many have experimented with commercial fertilizers but have not received the satisfaction expected.

Dairy Problems in Manitoba

N. J. Kuneman, M.A.C., Winnipeg, Man.

We are face to face with the question of testing our cows and of weeding out the poor ones. By careful breeding and feeding and by selecting good sires of those strains that have records for large milk production we can greatly increase the yields of our herds. Many farmers feel that they cannot afford to purchase expensive animals. Well, why not co-operate and get a bull of the right sort? Instead of an average production of about 2,500 lbs. of milk a cow per year, there is no valid reason why the average yearly production cannot be increased to at least double that amount in five years' time.

Many in Manitoba have declared that they will have to go out of keeping cattle, or cut down their herds, owing to the fact that pasturage is becoming scarcer, consequent on the once open prairies having been taken up and cultivated. Before deciding to cut down the herd, we should not overlook that fact of great importance, the fertility of the soil. When dairying is practised the soil will not be robbed as it most assuredly will be where grain farming is practised exclusively, and where there is little fertilizing material to return to the soil.

Have We Many Farmers Like This?

(It is unfortunate that conditions such as are described in the following letter from Mrs. Hopkins are a reality. We are thankful that such cases are rare.)

Editor, Farm and Dairy,—It is astonishing to what a degree the prejudice against the English immigrant, is growing; prejudice so great that the poor fellows often are not given a chance to show what they are good for. The tales of woe, hunger and mal-treatment that some of them can tell, are harrowing. They are often homeick and in want, and find nearly everywhere cold looks and scornful refusals of employment. If they do manage to find work, the employers in too many cases take advantage of their desperate need and condition. In the matter of wages and work the farmer treats the immigrant as he would not dare treat a Canadian, no matter how mean he may be.

The story of one poor fellow will serve as an illustration. Bred a butler in England and falling out of employment he came over with the brightest hopes imaginable. Landing in Montreal, where for two months he searched in vain for work, and where as time went on, he had to sell the best part of his clothes, his illusions fast took wings. Despairing of city work he started to tramp along the country roads begging every farmer he met to give him a chance. At last, when he had almost resigned himself to the idea that a great, strong, able man must starve on the road in a country where the need of workers seemed to be so great, a farmer said he would ers seemed to be so great, a farmer said he would ers

take him in if months for not too glad to acc gave the farme faithful service. farmer offered year at ten do grant gladly co rolled away. A erally hanging it er paid him a q poor man asked few articles of come forth with any money on h him some old to be paid him. A the immigrant's the farmer that more. The farm made a list of a had been forced for them, togeth breakages and lo sibly fasten on h sum of \$70 hand ficent balance of

The poor Engling that he had farmers, he hired where by his brought a tree detect which laid pital for months, ever, he met some sens who were procuring him we line, when he ree Every word of ti

I think it will pl cause of the Engl us. Cities are The problem of li is getting greater sing year, while th laborers in the co rious as to crippl From every quart thority and wisdo the warning, Land." The sett question lies with If they are obstin to take green hane them; refuse the p time to teach the can any one do? crowd into the c hours. The rule f be fixed if necessar pay along with n worker in the city

Farmers will simp selves the reasons desirable and remove sons. As for the q grant, let us remen nations the most of we give him a fair take a little patier helping forward the ment of the country fluity of the foul cit ing need of the cour a thousand evils, soo Let'us not shut our ary work calling at we cannot do more us at least be fair with them .- Mrs. V

Your methods and ed for publication in

take him in if he would consent to work three months for nothing. The hungry man was only too glad to accept and beginning straightway gave the farmer three long summer months of faithful service. At the end of that time the farmer offered to keep him for the rest of the year at ten dollars a month. Again the immigrant gladly consented, and another six months rolled away. At the end of that time he was literally hanging in ribbons, for the farmer had never paid him a cent. On every occasion when the poor man asked for the wherewithal to get some few articles of clothing, the farmer had always come forth with the same excuse of net having any money on hand and at the same time giving him some old trousers or boots to tide over till be paid him. At last, after ten months' service the immigrant's latience gave way and he told the farmer that he would not work for him any more. The farmer then sat down, pencil in hand, made a list of all the worn out things the man had been forced to accept, charged a round price for them, together with the full cost of all the breakages and lost tools, etc., that he could possibly fasten on him, and deducting this from the sum of \$70 handed the waiting man the magni-

ficent balance of \$15.

The poor Englishman was staggered and feel-

ing that he had had enough of farmers, he hired for the bush, where by his inexperience he brought a tree down across his chest which laid him in the hospital for months, but where, however, he met some charitable persens who were instrumental in procuring him work in his own line, when he recovered.

Every word of this story is true. I think it will plead a little the cause of the English exile among us. Cities are overcrowded. The problem of life for the poor is getting greater there every passing year, while the need of farm laborers in the country is so serious as to cripple its resources. From every quarter men of authority and wisdom are sounding the warning, "Back to the Land." The settlement of the question lies with the farmers. If they are obstinate and refuse to take green hands, as they call them; refuse the patience and the time to teach them, what then

can any one do? Besides, even experienced men crowd into the cities. Why? First the long hours. The rule from 5 s.m. to 6 p.m. should be fixed if necessary by law. Secondly the small pay along with minor disadvantages that the worker in the city has not to put up with.

Farmers will simply have to study out for themselves the reasons why the work they offer is not desirable and remove as far as possible these reasons. As for the question of the English immigrant, let us remember that after all he is of all nations the most desirable for our country. If we give him a fair chance to adapt himself and take a little patience to teach him we shall be helping forward the grandest humanitarian movement of the country, that of removing the superfluity of the foul city tenement to the ever growing need of the country and thereby help to right a thousand evils, social, economical, and religious. Let us not shut our eyes and hearts to this missionary work calling at our doors, and if perchance we cannot do more work for the "English," let us at least be fair and square in our dealings with them.—Mrs. W. E. Hopkins, Russell Co.,

Your methods and experience will be appreciated for publication in Farm and Dairy.

In Favor of the Winter Foal

L. C. Cameron, Halton Co., Ont.

In view of the great demand that exists for good horses many would find it profitable to breed their mares in the fall and to raise a winter foal when the mares would otherwise be idle. Where suitable mares and proper stabling are available, winter foals are worth at least a trial. A roomy box stall, kept well bedded is essential. Oats and good clover hay with a few oats, are also a necessary part of the equipment. When fed well and given exercise each day in the open, when weather permits, both mother and foal will thrive. Colts arised in winter and weaned in the spring just before going on grass, make fine animals.

The secret of getting big prices for horses is to use marcs of good conformation and having these free from hereditary disease. Secure the service of the best stallion possible. He must be sound, and of good conformation, possessing weight and true action. Back of this see that he descends by a long line of good breeding on both his sires' and his dam's side. This characteristic should insure prepotency. This latter qualification is necessary in order that his off-spring will with reasonable certainty inherit his characteristics.



Some Good Ones in which the boys are Interested

Clydesdale horses are the pride of the Redmond farm. in Peterboro Co., Ont. Two of the brood mares, and the imported stallion, "Hassard's Pride," may be seen in the illustration, Mr. S. F. Redmond, who is holding the stalling in the background, is an enthusiastic horseman, and one of the well known stockmen of the county.

A Rural Telephone System

R. H. Spence, Wellington Co., Ont.

Our telephone system is controlled by a joint stock company. The company when first started was assisted by the leading citizens, such as the doctors, merchants and the leading farmers, working together. They had first to take out a charter from the government to give them the right to build the line. The company after getting their charter, appointed an agent to get stock. The shares were fixed at \$10 a share. Not more than five shares were allowed to any one person. This enactment was made because at business meetings a shareholder is entitled to as many votes as he has shares. It was thought that in this way the farmer who could not afford to take much stock would be given an equal footing with his more wealthy neighbors. The agent canvassed the farmers in the district in which the telephone line was to run. His object was to receive enough shares to build the line. Almost all the farmers canvassed took one share on the ground that they thought it was a good thing for the district. Those wishing to have a phone installed in their house had to take two shares. Farmers putting phones in had to find their poles and put them in from the road to their houses.

The company supplied the wire and strung it in the lane.

BUILDING THE LINE

When the company had enough money raised to build the line they advertised for tenders for the supplying of the poles and for the building of the line. The poles were laid on the ground for 75c. a piece. The line was built for \$16 a mile. The man building the line had the holes to dig, poles to place, wire to string and the phones to place in the houses. The company maintains the line.

The phone service costs \$10.50 a year, payable quarterly. The line is divided into what is called a circuit. One circuit is supposed to carry 12 phones, but in our neighborhood there are two circuits, each having 14 phones. This was caused on account of so many farmers, after seeing the benefit of the phone, getting one placed in their home.

Those wishing to send a message have to pay 15c. whether he has a share or not; 5c. of this goes to the party from where the message was sent, and 10c. goes to the company. Those having the phone have the use of about 65 miles of telephone service on the rural line, having about 60 phones, besides the use of about 60 phones on the Bell line, all for the rate mentioned.

CHEAPER THAN BELL LINES.

Rural lines can be built more cheaply than the standard Poil lines. Rural companies do not have to pay as much for their charters and they do not need charters at a standard size of pole. The standard that the Bell Co. sets is a pole 26 feet long and five inches at the top, whereas those used in our rural line were 22 ft. poles and between four and five inches at the top.

Some may think the cost of the service is rather high for the first year, but the dividend one receives is good interest on his money. Those having the phones would not have them taken out did they cost wice the money. Some thought so many bells ringing would make a confusion, but after the novely of the thing after the novely of the thing wore off the bells were no bother whatever. If there is one person more than another who berrefits by the phone it is the farmeris on more than another of the distance he is er, on account of the distance he is

from town, and from his neighbors. The matter of being always in touch with markets is of no small consideration.

During the hot days of summer dairy cattle should be kept in the stable more during the day and turned out at night. Feed them on ensilage, good, sweet, clover hay and any coarse grains that may be on hand that can be fed at a profit. —John Fixter, Macdonald College, Que.

Keep the speed of the separator a little over rather than under the indicated speed and you will have a richer cream, and obtain a cleaner skimming. After milking, do not allow the temperature of the milk to fall any more than can be avoided before it is run through the separator. —James Stonehouse, Creamery Instructor.

Were the truth known as to just why the average cow does not give a larger annual production of milk, it would be found that much of the fault rests with the milker. Low production is often more the fault of the milker than it is of the cow. Careless hired help, children, or old people, should never be trusted to milk cows. The work requires the best that is in a strong man.—Gavin Graham, Peterboro Co., Ont.

FARM !

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I have a pate uarter acre in

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Could you advise a would be the best loam ground? The se

loam ground? The so with a heavy clay floods in the spring thave raised heavy or it does not last long top, and poor at that sowed on it until la the grass does not can rust. I do not care

rust. I do not care plowing it now, inter grass on it about Au is anything better, w. Some of my neighbor falfa, some say red it. Glen View, Ont,

The chances are

getting a good car sowing at this time

Grass for

Where taken in to plow and wor weeks and sow

If any spo vals. give a thorough broad toothed cul

Do not so plowed for a cou should have been

plow at on shallow furrow four inches) or

quack grass.

owed. Please ethod of getting trass. Y

A BIG MONEY SAVING DISK HARROW

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BOOK DEPARTMENT THE RURAL PUBLISHING CO., LIMITED PETERBORO -

Holstein-Friesian Record of Merit and Record of Performance

G. W. Clemons, Sec. H.-F. B. A., St. George, Ont.

a number of Farm and Dairy readers do not seem to understand the exact difference between the re-cords published by the Holstein-Friesian Association under the headings of "Holstein-Friesian Official Tests" and "Holsteins accepted in the Re-cord of Performance" we herewith give a short description of each system of testing.

tem of testing.

The "Holstein-Friesian Official
Tests" are the records accepted for
entry in the "Record of Merit," a
system of registration by performance
in which only such cows are entered
as have produced the number of ibs. of
butter fat required by the standard.
The tests accepted must be made under the supervision of an official testder the supervision of an official test-er vouched for by an Agricultural College or Experimental Station, and must be sworn to by each and every person assisting in making them. The standard for the seven day test is as

A cow in the two year form must produce 8 lbs. butter fat.

Three year old class, 8500 lbs. milk and 280 lbs. fat.

Four year old class, 9500 lbs. milk and 323 lbs. fat.

Mature class, 10500 lbs. milk and 357 lbs. fat.

A New Factor Influencing the Per Cent. of Fat in Milk

The question of increasing the per cent. of fat in milk has been a subject for discussion at almost every farm-ers' meeting. The farmer as a rule ers' meeting. The farmer as a rule ers' meeting. The farmer as a rule assumes that the richness of the milk assumes that the richness of the milk can be increased by heavy feeding. College and Experiment Station men basing their conclusions upon the re-sults of numerous investigations in numerous investigations silis of numerous investigations in different parts of the world teach that the per cent. of fat cannot be influenced by the character of the ration, except as the work done at the New York Experiment Station indicates that the state of th York Experiment Station indicates that phosphorus compounds may produce a slight effect. In view of the discussion on this question, and the experiences given in Farm and Dairy experiences given in Farm and Dairy in recent months, the following mat-ter written by C. H. Eckles, Professor of Dairy Husbandry at the Univers-ity of Missouri, in Hoard's Dairy-man, throws considerable light upon

from birth until she came in milk on a ration of skimmilk and hay with-Irom outer one came in milk on a ration of skimmilk and hay without any grain whatever. As a consequence, she was decidedly thin at calf birth. The milk of the heifer in good condition tested over 4 per cent. at the start while the milk from the one in thin condition tested about 3 per cent. The fat heifer declined in weight for saveral weeks and during this time continued to show a high per cent. of fat. When her weight the same as the other. The thin basic man as the other. The thin basic man as the other. The thin basic man as the other made in weight and basic made no decline in the fat in her aboved no decline in the gain in live showed no decline in the fat in her milk. Later she began to gain in live weight, she having been put on a lib-eral grain ration immediately after calving. Her per cent. of fat increa-ed alightly until the two became prac-tically together. Similar results have been obtained with two other pairs of harfare under similar treatment. been obtained with two other pairs of heifers under similar treatment. The most marked example of how this works out is shown in the follow-A MARKED EXAMPLE.

"A mature Brasey cow was fed a lib-eral ration for two months before calving in order to get her unusually fat. Immediately after the birth of the calf she was put on a ration that was sufficient only to maintain her body weight, according to maintain tenance values as usually estimated, tenance values as usually estimated. She was fed for 30 days on a ration of three and one half pounds grain and 7 pounds hay a day which was estimated body maintenance. At the beginning she produced 21 pounds Immediately after the birth of estimated body maintenance. At the beginning she produced 21 pounds milk a day. During the 30 days the decline in milk was very slight. In-deed—at the end of the 30 day period she was producing 19½ pounds a day. During this time she lest 115 pounds in live weight. In the beginning the she was producing 19½ pounds a day. During this time she lost 115 pounds will be used to be used to

the 30 days period the per cent. of fat in the milk declined about two per cent. "Further and more extensive trials "Further and more extensive trails are necessary to fully prove this law and, especially to determine its metes and bounds, but it is netween these results are of great significance in a number of ways. In the first place it will mean that short periods are absolutely valueless in assurance. lutely valueless in carrying on feeding trials with dairy cows. If a cow will produce milk for a month without having any food to furnish the necessary material, it is evident that the effect of any feed cannot be measured in a short period. In an experi-mental way it also has a bearing or methods of carrying out many lines of investigation, as, for example, the feet of feeds on the composition milk, since here we will have to avoid the probability that milk fat taken from that stored in the body and se-creted in the milk, is of different composition from normal milk fat.

INPLUENCING SEVEN DAY TESTS "Another other interesting question (Continued on page 9)



The Grand Champion Draft Stallion at the Winnipeg Industrial Exhibition

The Grand Champion Draft Station at the Whomps the Station of the Haliflax (Imp.), Two Year Old Percheron Stallion. Owned by Colquboun Beattle, Brandon. Winner of First in Class. also Champion Stallion, all ages, if Vinner of Championship for Best Braft Stallion, any breed, at the Winniper Indian Championship for Best Braft Stallion, any breed, at the Winniper Indian Championship for Best Braft Stallion, any breed, at the Winniper Indian Championship for Best Braft Stallion, any breed, at the Winniper Indian Championship of the Winniper Indian Champion Ch

A cow in the three year old form must produce 10 lbs. butter fat.

A cow in the feur year form must result in the benefit of Farm and Dairy readers.

A cow in the four year form must produce 11½ lbs. butter fat. A cow in the full age form must produce 13 lbs. butter fat or more chaughters which have made official butter records that are recorded in butter records that are recorded in the Record of Merit. The "Record of Merit. The "Record of Performance" is

a semi-official system, superintended by the Department of Agriculture, for testing cows for a full milking period, but must be completed with-in 12 months. In addition to fulfil-ing the requirements of the stand-ard set, a cow, in order to qualify for registration, must prove herself a regular breeder. The care of the cows and the weighing of the milk is carried on by the owner of the cow, or by his agent. The verification of the weights of milk and the testing for fat are looked after by the offi-cers, of the Liye Stock Branch of the semi-official system, superintended the Department of Agriculture. or the weights of milk and the testing for fat are looked after by the offi-cers of the Live Stock Branch of the Dominion Department of Agriculture. The standard for this yearly test is as follows:

the better to said the last few years considers.

"During the last few years considerable data have been gathered in our experimental work here with dairy cows which late that it is possible in another way to increase the per cent. of fat to an abnormal degree for cent. of fat to an abnormal degree for cent. cent. of fact to an absorbinat degree for a longer time. The rule gree for a longer time. The rule seems to be that when the ration of is insufficient to support lk production and she on the fat stored on milk milk production s on the fat body, that the draws oraws on the fat stored on her body, that the per cent. of fat in the milk is increased. The reverse seems to be true as well; that is, when she is gaining in weight or storing fat on her body there is a tendency for the per cent. of fat in the milk to be lower. This increase in the per cent. of fat in milk due to transfer of fat from the body to the milk is most marked immediately after calving. ter calving.
"In the course of one of our investi-

cers of the Live Stock Branch of the Dominion Department of Agriculture. The standard for this yearly test is as follows:

Two year old class, 7500 lbs. milk and 255 lbs. fat.

sowing at this time if from now on the from now on the firm now favorable the infactory catch. Yo isfactory catch. Yo isfactory catch. Yo he kind of grass may length the for any length the for any length the for any length for now in the firm of the firm of

Quack Grass in New Ground I have a patch of quack grass about a quarter acre in extent. Piece of ground I have a patch of quach: grass about a quarter acre in extent. Plece of ground in new. Just oats rown first and sed do down with timoth. It has save: be a form of the test method for grounderly red of this quack grass. You completely red of the quack grass. You will be greatly appreciated as some rough will be greatly appreciated as some rough of the down of the grant of the gran

Quack grass, couch grass (Agropy-rum repens L.) is one of the most dif-ficult weeds to eradicate. If it is desired to get rid of the weed this year probably the best plan would be to plow at once with either a very shallow furrow (absolutely not over four inches) or with a deep for four inches) or with a deep furrow, eight inches or more. The style of plowing to adopt should depend upon the soil. If a good strong, soil then plow deep, if a light soil use a shallow furrow. ow furrov

If a shallow furrow is turned it should be laid as flat as possible and then rolled with a heavy roller and harrowed at frequent intervals with a common harrow. After the surface is fairly well worked up a spring tooth or stiff toothed cultivator should be or stiff toothed cultivator should be used. If the weather is dry the roots might be left upon the aurface. If there is sufficient rain roll to cause the roots to start up roll to cause the roots to start up roll to cause the roots to start up roll to support the roots to start up roll to cause the roots to start up roll to support the roots to support the roots and the rate of about eight lib. an arc. Do not sow till land has been plowed for a couple of weeks and it plowed for a couple of weeks and it should have been well worked during that time.

that time.

If deep plowing is practised then a jointer should be used and it should be set to cut as deep as it will do good work. The land should be rolled as soon as plowed. Roll each half day's plowing as it is done. Harrow with disc harrow at frequent intervals. If any spots of grass show up give a thorough working with the placed teathed sulfivator. Do not use give a thorough working with the broad toothed cultivator. Do not use spring toothed cultivator. Where taken in June a good plan is

Where taken in June a good plan is to plow and work for a couple of weeks and sow about two bushels buckwheat an aere. Be sure to postpone seeding till a good growing time so that grain gets a good start.—J. H. Grisdale.

Grass for Low Land

Grass for Low Land
Could you advise me what kind of grass would be the hest to sow on a field of coam ground the the hest to sow on a field of coam ground. The field coam ground the sould be some compared to the sould be some compared to the sould be sound to the sould be sould be

The chances are very strong against getting a good catch of timothy by sowing at this time of year, although if from now on the weather should prove favorable there might be a satisfactory catch. Your letter indicates the kind of grass not suitable for the field in question. Red top is the only grass that will stand being under wages. grass that will stand being under water for any length of time. I would

Quick Methods of Curing Hay

Ed. Farm and Dairy,-The article I contributed and which appeared in Farm and Dairy July 1st, on "Cur-ing Hay by Modern Methods," was again verified this present season.

FARM MANAGEMENT street even seeding. Give stroke of the common harrow after seeding, then roll.—J. H. Grisdale.

The remedy therefore, is one of the simplest, and at the same time one of the most effective, that could be ap-plied, and consists in merely thresh-Farm and Dairy July 1st, on "Curing Hay by Modern Methods," was again verified this present season. If you could examine my present crop, the hay from 30 acres of which is already stored, you would find that none of it is discolored by wet weather. Our hay for the past three years, has been cured by the use of the Dain Side Delivery Rake and Loader. We did no coiling whatever, bisulphide into shallow dishes, and

Raking up a'Field of Timothy, the Last of the Hay Crop

Much timothy is allowed to stand too long thereby becoming mature, and of inferior feeding quality. Harvesting is much simplified when the hay is ripe as it cures more readily, but in these days of modern hay making machinery—tedder, side-delivery rake, and loader—there is little justification for allowing hay to cure on

Hundreds of tons of hav that were out in coils in our recent downpour of rain will largely result in more up-to-date methods being used in future and a more general use of improved hay-ing machinery such as side delivery rakes and loaders.—F. C. Caldwell, Carleton Co., Ont.

The Angoumois Grain Moth

Throughout the southern part of Pennsylvania there has for some years Pennsylvania there has for some years been an annual destruction of hund-reds of thousands of dollars worth of wheat in the bin by a little pest very commonly called the White Weevil or Moth weev!. As a matter of fact it is not a weevil but a moth, the larva of which lives within the grain of wheat and bellow it out the the of wheat and hollows it out to such an extent that it becomes a mere hull of bran. It is ruined for milling purposes, and, of course, badly injured

for domestic use.

The Angoumois Grain Moth is so named from the province of France named from the province of France where its ravages were first most not-ed. The mature moth lays its eggs on the grains of wheat while in the head or straw and as it feels voraci-ously and but a short time, it multi-plies rapidly, giving several success-ive broods. Where the sheat is left in the straw in the straw, at the stack or mow, it has been for the stack or mow, it has been for the stack or mow. pt in a bin. Several farmer Zoologist Surface mey have acted upon his recommendation of threshing the grain soos are harvest, and have found the results quite satisfac-factory. One farmer reported that half of his crop, which was threshed

this year. We find it a waste of labor placing them on the grain under cover and entirely useless.

Farm and Dairy is to the farmer what a trade paper is to the mer-chant. No up-to-date farmer can afford to do without his trade paper. —H. J. Carter, Prince Edward Co.,

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ter for any length of time. I would saggest your sowing a mixture of five pounds timethy, 15 pounds red top and three pounds asike clover an acre. Cultivate land thoroughly, get and three pounds asike clover and acre. Cultivate land thoroughly, get and three pounds and the pounds and the pounds asike clover and acre. Cultivate land thoroughly, get and three pounds asike clover and laft of his crop, which was threshed

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**THE MASTE WORKAL Seasons District Configuration of the field and the other half sowing crosswise to en
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HORTICULTURE

************** Methods of a Practical Pear Grower

"One of the best pears that I grow is the Wilmot," said Mr. E. C. Beman, of Bowmanville, Ont., to an editorial representative of Farm and Dairy who visited that locality this summer, "It is a good cropper and very hardy. I have taken 120 barrels very hardy. I have taken 120 barrels of this variety off of half an acre. The Bartlett did well with me until a year or two ago, but now it is not doing so well. I grow the Clapp for earliness but not for profit. The Bose is a good keeper and shipper but it is not as hardy as I would like."

Pears grow best on a strong clay loam of good depth running from six to eight feet before striking hard-pan, according to Mr. Beman, who discussed pear culture in general with our representative. He plants his trees 30 feet apart one way and 20 the other. They are cultivated from the time of planting until they are about 10 years old when they are left

are trained in pyramidal Trees form. Each year, varieties such as Clapp and Wilmot, have the new growth headed back about one half. The trees are kept fairly well thinned

In reference to spraying, Mr. Beman said, "I spray for codling moth and fungous diseases with Bordeaux mixture and Paris green as soon as the blossoms drop and repeat the dose two weeks later. I believe that pro-fitable spraying depends more upon thoroughness in doing the work rather than upon the number of times that it is done."

Strawberry Pests

Strawberry Peats
In regard to strawberry peats, State
Zoologist Surface, of Pennsylvania,
states that the best general monand
of suppressing them lies in monand
method of summer treatment of the
strawberry plant, which many persons
would hesitate to apply, but which
they will fird so effective that it will
become a regular feature of their
mode of culture after its benefits have
been observed. This consists of nothing more nor less than mowing the
strawberry leaves as low as possible ing more not less than moving the strawberry leaves as low as possible shortly after the berries are picked, throwing these together with a little straw between the rows, drying them

quickly on a hot, sunshiny day, and then burning them at once.

The strawberry leaf rust and leaf spot are among the diseases that are spot are among the diseases that are very destructive and contagious. They can be partially prevented by the use of Bordeaux mixture, but the germs causing the leaf destruction remain in the old patch from one year to another. Also, the aphis and several other insect pests attack the leaves during the summer. It has been found that if the leaves are mow-ed closely on a warm, dry day, and been found that if the leaves are mow-ed closely on a warm, dry day, and slightly dried and mixed with just a little straw and then burned, the peats are practically all destroyed, and the plarts themselves escape un-injured. Consequently, this is the time of year to give such treatment. Good you runners we he formed at Good new runners will be formed at

Good new runners will be formed at once : especially, if a little commercial fertilizer or finely-divide! manure from the stable or poullay house be scattered over the roots of the old plants and these be cultivated in the regular manner. New leaves will yet be formed this season, and the plants will be put in good condition for bearing a much more abundant and a healthier crop next year than if the leaves had not been burned. Persons who doubt the efficiency of this treatment should mow the leaves of

some of the plants, and see the resolution 1:25000 was followed by yel-

Bordeaux Mixture

The Illinois Agricultural Experinent Station has issued a bulletin (No. 135) on "Bordeaux Mixture." It filled with valuable information, which may be summarized as follows

1. Bordeaux mixture was discovered by accident in the fall of 1832 by Professor Millardet, of Bordeaux, France

2. Original formulas have been greatly modified. The first formula contained more than six times the copper sulphate and nearly 12 times the lime per gallon of water that is used in the present standard 4-4-40 for-

3. It is conclusively demonstrated that mixtures made with air-slaked lime are not only extremely injurious to foliage, but are much less ad esive than are mixtures made with fresh slaked lime,

4. The chemical reactions that occur 4. The chemical reactions that occur when copper sulphate and I me are combined take place in a manner to give best results only when the in-gredients are combined in certain definite proportions. Hence formulas should be strictly followed. 5. Equal and full dilution of the

milk of lime and the copper sulphate solution, before mixing, give: mix-tures that are least injurious and of maximum ad tesiveness.

6. With all precautions taken, injuries to foliage sometimes occur and are not to be avoided. In such cases injury is usually associated with unforweather conditions

7. Rightly made Bordeaux mixture is remarkably adhesive. When once dried on the leaves it is not easily removed by rains, but continues its defensive action for lon r periods.

There is decided advantage in the maintenance of an excess of lime on the leaves. This must be accomplished by subsequent applications of milk of lime and not by additions of lime to the original mixture.

There is no evidence indicating danger to orchard trees from accu lation of copper sulphate in the soil as result of spraying.

10. Well made Bordeaux mixture contains no copper in solution, but small quantities of copper become soluble very soon after application to foliage. The presence of free calcium hydroxide, in large excess, retards, but does not entirely prevent, solution of

11. Bordeaux mixture on yields soluble copper more rapid y un-der the action of meteoric waters than under the action of waters artificially applied. Injury to foliage follows the action of rain in some cases, but does not result from water artific a'ly ap-

12. Physical condition of leaves at time of spraying is important. Leaves injured by insects, or attacked by fun-

gi are especially susceptible to ad-ditional injury by Bordeaux mixture.

13. Epidemics of the trouble known as "yellowing of the leaves" appear to have no relation to weather conditions and no evidence has been found that Bordeaux mixture causes vel'ow-ing. Experiments do show definitely that copper sulphate solutions cause yellowing and that the degree of yellowing depends upon the strength of

Healthy bark of trunk and branches is impervious to Bordeaux mixture and to solutions of copper sul-

15. Copper sulphate solutions vary ing between 1:100 and 1:1000 when ab sorbed by trees through wounds, in-variably kill the leaves which then be-

ome brown. 16 In one instance absorption of a

lowing of leaves.
17. Examinations of drip waters

from sprayed trees show the early appearance and continued presence of copper in solution. They also show the extreme adhesiveness of Bordeaux mixture and the slow solubility of the

The conclusions 18. The conclusions to be drawn from the work recorded in this bulle-tin will be mentioned in a later issue of Farm and Dairy.

Growing Ginseng

I would lile to start a girs ng garden, but feel that if the farmers start to grow it by the acre, in a few years they will rlut the marke. What do you think about it?—S. R., Huron Co., Cnt.

If a linear way the control of the c or on the state of the shade besides all the other propert the shade besides all the other perhaps \$i\$, consider the shade, probably costing perhaps \$i\$, consider the shade, probably costing perhaps \$i\$, consider the shade, probably cost of the shade, probably consider the shade, probably consider the shade probably consider the shade point of the shade probably considering the peculiar nature of ginseng, that it can be grown more profitably in small plots. It is well adapted for suburban residents of cities and towns was have gardens of cities and towns was have gardens of cities and towns was have gardens of cities and towns who have gardens to produce annually, say, from 15 to 30 or 50 pounds of dry roots or more according to their means and room to according to their means and room to grow it in. If it is near the house, they can attend to it in their leisure, time. Such people will find it a vi interesting occupation besides and largely to their income. Of ourse, the farmer could grow it may some will but the avarage farme would will, but the average farmer would not give it the care and tention needed for success.—We Gilgore, needed for success Peterboro Co., Ont. Gilgore,

The apple crop is under the average. Peach crop is light. Orchards are quite free from insects, except the green aphis.—J. E. Annable, Nelson, B.C.

The strawberry crop was exceptionally good, being above the average. Raspherries are about half a crop. Blackberries promise well. Plums are a medium crop; apples, below the average, the yield being lessened somewhat by the rawages of the aphis. The area of sprayed orchards is increasing every year. Growers are be-

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WOOD WASTE DISTILLERIES CO. 213 to 217 St. Clair Ave., Cleveland, Ohio

coming more alive to the benefits to coming more alive to the benefits to be derived therefrom. We have three associations in this district for the packing and exporting of apples, the last one being formed about a couple of years ago.—R. C. Fowler, Burling-tan Out. ton, Ont.

Potato Diseases .- At the Vermont Potato Diseases.—At the Vermont Agricultural Experiment Station, Bordeaux mixtures and lime-sulphur were used to combat injuries in potatoes. The lime-sulphur plots gave a 37 per cent. larger yield than did the unsprayed plots, while Bordeaux twice applied yielded 67 per cent. more and that applied four times 141 per and that applied four times 141 per and that applied four times 141 per applied cent. more and that applied four times 141 per cent .more than did the unsprayed plots. Eighteen years of Bordeaux usage at the Station emphasize its value. The lowest gain has been 26 per cent, the highest 215 per cent., the average 92 per cent.



desirable to mention the name of this publication when writing to advertise

POUL

******* Poultry In Prof. F. C. Elf.

In the last t Dairy we have Poultry Indus compared it wi er countries. er countries. to in the egg da. Mr. Has where the differ

purchased by a Paid the fa Gross profit Freight to Gross profit Gross profit o Gross profit Loss from h Cost to cons IS CO-OPERA

It has been s amongst poultry in Canada, the sparsely settled a a spirit to co-ope objections one h similar lines by people. The coestablishme farmers can combenefit. What v '81 there were 3,576 bined value for of over \$6,000,00 of products sold \$30,000,000. Wha done for the dair it can do for the

If farmers can fruit and milk in operate with poul are but few interest or milk but who poultry also. Co-poultry products few instances. As poutry products few instances. As circles are realized less follow. As h inary educational more than priva justified in doing slow. It is felt these lines would good results. good results.

As already note sistance in other co canada have had assist the producer article, to assist with his neighbor to find the best ma pose the Poultry ition of Eastern Can Its objects and the constitution wishes to do for pe ada what similar se for the poultry ind and Great Britain. is not intended the is not intended the should act as a mi and sell. Its worl educational. By es two local branches circles it will demoof combination. It to keep the buyers i members and establi dards of dressed poul The constitution, dressed poultry and printed and may be sing the Secretary.

A Camera for Four N

POULTRY YARD

************* Poultry Industry in Canada

Prof. F. C. Elford, Macdonald College In the last two issues of Farm and Dairy we have sought to outline the Poultry Industry of Canada, and compared it with the industry in other countries. We shall now deal with compared it wish the industry in our-er countries. We shall now deal with the matters of where the money goes to in the egg business and show that co-operation is practicable in Canco-operation is practicable in Can-ada. Mr. Hastings provides the fol-lowing table of figures which shows where the difference of prices goes to. "Elements of cost of a dozen eggs purchased by a New York consumer.

IS CO-OPERATION PRACTICABLE? It has been said that co-operation amongst poultrymen is not practicable in Canada, that farmers are too sparselysettled and of too independent a spirit to co-operate. To answer these objections one has but to notice what done by co-operation along similar lines by and among the same people. The co-operative fruit pack-ing establishments illustrate that establishments illustrate that farmers in consider the farmers in consider the farmers and the farmers in consider the farmers in considerable for mutual benefit. When the farmers in considerable for formers of over \$6,00,000 and a total value of products sold in '01 of nearly \$30,000,000. What co-operation, judiciously encouraged and controlled, has done for the durity industry. It can do for the poultry industry. It farmers can co-operate with their If farmers can co-operate with their

If farmers can co-operate with their fruit and milk interests, they can cofruit and milk interests, they can co-operate with poultry products. There are but few interested in either fruit or milk but who are interested in poultry also. Co-operation in selling we instances. As the benefits of such every instances. As the benefits of such classification and the such as the such interests of the such as the such as the interest of the such as the suc

HOW IT CAN BE ACCOMPLISHED As already noted, Government assistance in other countries has usually found an outlet through existing societies. In the past the poultrymen of Canada have had no organization to exist the producer to a row a better assist the producer to grow a better assist the producer to grow a necessary article, to assist him to co-operate with his neighbor and to help both to find the best market. For this purpose the Poultry Producers Association of Eastern Canada has been formall the shietes and simple are set forth Its objects and aims are set forth the constitution. in the constitution. The association wishes to do for poultrymen of Can-ada what similar societies have done for the poultry industry in Denmark and Great Britain. For the present it of combination. It will also endeavor to keep the buyers in touch with the members and establish uniform stan-dards of dressed poultry and eggs.

The constitution, rules, grades for dressed poultry and eggs are being printed and may be had by addressing the Secretary.

A Camera for Four New Subscriptions

Objects and Aims of the Poultry Producers' Association

A. P. Hillhouse, President, Brome Co., Que.

Co., Que.

Although we do not hope at first to revolutionize or change the whole poultry industry, we do hope to remedy certain existing conditions which are greatly to the disadvantage of industry as a whole. The backing of the poultry industry is the farme on the farm, and although poultry plants now and in the future may be considered the condition of the co

be to assist farmers.

Most farmers are small producers of eggs and poultry. Owing to the light eggs and poultry. Owing to the light weight and perishable nature of these products they do not produce individually to enable them to take frequent and regular shipment distant or best markets. To remedy these conditions we consider that a co-operative system might be established in various localities and eggs and poultry brought into a central listed in various localities and eggs and poultry brought into a central packing and shipping point. At pre-sent, farmers have individually small lots that cannot be marketed till they lots that cannot be marketed till they are stale. These could be gathered together and would make a sufficient parcel to be shipped while still fresh. This would do away with the stale particle of the country of marketing even at the country of marketing even at the willows. tised in all parts of the country, of marketing eggs at the village gro-cery in exchange for goods. No at-tention is given to age. No at-tention is given to age quality. They never reach the consumer of the long after their best. The egg is at its best when just laid and the hoge time taken in nutriue it on the hoge time taken in putting it on the con-sumers' table the less it is worth.

sumers' table the less it is worth.

Then by establishing grades for these eggs establishing grades for these eggs we believe that the whole trade will be greatly improved. We do not want the saying that "anguis an egg" to continue. We all know that these reaches the continue of the co is an egg" to continue. We all know that there are vast differences in eggs, in an egg to continue. In said house that there are vast differences in eggs, and we want people to say these are "selecta" or No. 1 from Stambridge, from Farnham or from Bondville as the case may be, and we want then to be selects and No. 1's. We do not want that there be any question with the selects and No. 1's. We do not want that they are just what they are want that they are just what they are want to dealers and consumers to be able not one of the select want, knowing that they will receive that grade and pay for it and get value for at they pay. The same will apply to poultry of all kinds. We want more produced of the better quality and less of the poorer, more quality and less of the poorer, more will apply to poultry of all kinds. We want more produced of the better quality and less of the poorer, more sold at a profitable price and less at an unprofitable price. This will be in the interest of the producer, deal-

in the interest of the producer, dealor, consumer, and the country.

The farmer should not sell his
poultry at seven, or light cents a
pound as they run, wheat two or
three weeks more of crate dealing
double this price might be obtened
for might be obtained.

Farmers fatten their cattle and their
hogs. Why should they not fatten
their poultry? There is no place
where they can be fattened better and
more economically than on the farm. where they can be fattened better and more economically than on the farm. It will not take any more time feed-ing for fattening, than it has taken

ing for fattening, than it has taken for all other agrees of their growth. One of the mid essential feeds for fattening—statening—milk—is usually found on the farm.

We have been looking up the reasons why more fattening of poultry is not done on farms. We find the chief difficulty seems to be the lack of experience in killing, plucking and naking, cusntities too small for even of experience in killing, plucking and packing, quantities too small for even cases, lack of knowledge of the mark-tos, and the feeling of uncertainty that exists between producer and the consumer. Under my producer and the consumer. Under with packing and shipping centres all those difficulties will be overcome. Farm-

ers will not be required to do the plucking, packing or shipping and will know that the market end will be handled capably and satisfactorily for them.

At present it is not the intention At present it is not the intention of the Association to buy and sell the produce of the branches, but to assist in the bringing the consumer nearer the producer. This may be done by shipping as direct as possible and through as few hands as practicable. All members will not receive the right to the use of the brand of the Asso-ciation, but only those where there is a local branch, and the produce is shipped through the local manager or perhams in association, as well as the proshipped curough the local manager of perhaps in exceptional cases where the individual may not have co-oper-ation privileges. The gradings may be severe but none too severe for an Association that wishes to have its brand stand for the best. It is not expected that the Association will brand state to the Association will market large quantities under the brand this year. It will rather pay more attention to quality than quan-

Fattening Ducklings

Fattening Ducklings

When ducklingsarefrom five to nine
weeks old, fattening should commence. The age at which the duckline and the great of the state of the about 25, those as even in age as pos-

sible being selected.

The finest food for fattening is boil-The finest food for fattening is boiled rice, with the addition of a little fat. This fed three times a day produces the finest flesh, of first-class quality and flavor. Those who supply a second-class trade employ middlings and barley meal; others, again, use maize. The barley-meal and middlings form a good suiter for the barley-meal and middlings form a good suiter. dlings form a good mixture—not as good as rice, however, but maize is a most unsuitable food, and should be avoided. It has the effect of produce It has the effect of producing fat rather than flesh. Green food ong iter rather than flesh. Green food and grit must be regularly supplied, without which good results will not be achieved. The birds should be fed three times a day, and no water should be given them to drink after they have finished eating.

Hens Have Diarrhoea

eat very well. Kindly tell me what to do.-Mrs. R. E., Durham Co., Ont,

Make the boiled potatoes and milk Make the boiled potatoes and milk into a mash and in it put epsom salts, one haif teaspoonful to each hen. Don't feed any more potatoes until next week when the dose may be repeated. Don't feed so heavy on potatoes and milk for a week or two.—F.C.E.

A New Factor Influencing the Per Cent of Fat in Milk

(Continued from page 6.)

brought up by these experiments is its relation to the common method of carrying on seven day tests of dairy cattle. It has been the subject of comment frequently by leading auth-orities that in recent years much highorities that in recent years much night er fat percentages are secured in seven day tests than was formerly the case. The possibility of increasing the per cent. of fat in milk for a period after calving by the means mentioned has apparently been used mentioned has apparently been used by those who are the most successful in making these phenomenal seven day tests. A cow that will average 3.2 per cent. of fat for the year, can with reasonable certainty be made to test 4 per cent. or even higher for a week if properly handled. The way it is done is to fatten the cow as much week if properly handled. The way it is done is to fatter the cow as much as possible before calving. Then af-ter calving the animal is fed only moderately and the test is begun with-in four or five days. Under these in four or five days. Under these conditions the animal has insufficient feed to support the enormous milk and fat production. Since her body is loaded with fat, this fat is taken

loaded with fat, this fat is taken from the tissues and a large amount of it secreted in the milk.

"As said before, a large amount of additional investigation will have to be carried on to establish the limitations of this principle and to make it to the said of the sa possible to understand its full significance. The investigations under way in this line, it is hoped, will supply data that will make it possible to reach some definite conclusions. The material already at hand is sufficient and so consistent in every respect that in the opinion of the writer there that in the opinion of the writer there is no doubt of the accuracy of the general proposition laid down. The reason for presenting this preliminary statement regarding this work is that it will be some time before results can be worked out in detail and on account of the investment of the investment. suite can be worked out in detail and on account of the importance of the subject and its many applications, it seemed to the writer to justify this preliminary notice."

I am feeding my hens wheat and todied potatoes and buttermile occasionally, but a number of them have died. They have diarrhoea and when they have diarrhoea. Farm and Dairy is pure, clean their combs turn black and they do not jos. Keller, Lambton, Ont.

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Get a Copy of our New Premium List

Farm and Dairy has recently issued a new Premium Catalogue, in which illustrations and descriptions are given of a large number of useful premiums that will interest you. These premiums are not for sale but are being GIVEN AWAY. Full descriptions are given for securing any premium that may interest you. Write for a copy. Send us a post card, and one will be sent you by return mail. Address:

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We want the readers of Farm and Dairy want of the property of the readers of OUR PROTECTIVE POLICY

FARM AND DAIRY PETERBORO, ONT.

MUCH IMPROVEMENT POSSIBLE

The dairy herds of Canada are capable of great improvement. The average yield of the Canadian cow is repeatedly stated to be practically 3,000 pounds per annum. Thanks to the work being done by the cow testing associations satisfactory evidence of much higher averages is available. Cows giving as high as 13,000 pounds of milk in a year are not uncommon, while records of whole herds in Ontario that average from 8,000 to 10, 000 pounds in a year have been cited.

That part of the report of the Scottish Agricultural Commission that deals with the milk yields of Canadian cows gives these as ranging from 4,038 pound in Ontario to as low as 2,184 pounds in Prince Edward Island. The report reads :-

'These figures contrast most unfavorably not only with Scottish and Danish records, but also with the records of well fed and well selected herds in Canada. In Ontario one herd of 65 cows had an average record of over 10,000 pounds. Even in Prince Edward Island several herds Truro College farm, we found a Hol- der campion and perennial sow stein cow with a record of over 18,-000 pounds."

These contrasting figures were received by the members of the Commission with bewilderment. With an average of a little over 200 gallons, (2,000 pounds)-and of course many herds must be well under that average-how can such dairymen carry on their business at all? More bewildering still, why should they?

As the work of the cow testing associations spreads, those cowsthat do not produce more than the average Canadian cow will cease to be kept. It is gratifying to note that where individual records of cows are available for a period of two years or more, each year sees a considerable increase in the average herd production.

HEAVY HORSES IN DEMAND

Farmers in certain sections of Durham and Ontario Counties, Ont., have wisely devoted much attention of late to breeding heavy horses. Large numbers of young horses ranging in age from sucking foals to those in their three year old form were seen in this district recently by an editorial representative of Farm and Dairy. It appeared as if horse breeding was common to nearly all farms in that section, and a noteworthy feature of the situation was that for the most part all seemed to breed the same class, the Clydesdale.

Reward is already coming to these farmers for their enterprise in pinning their faith to one breed and breeding it in numbers. The district is becoming noted as one where heavy horses are raised. Buyers with long prices are coming there in search of such stock. Only recently a buyer from Quebec spent several days in the region back of Oshawa buying horses for the lumbering business. He wanted good sound horses from 1500 pounds up. He found them difficult to get and when located he paid \$200 to \$250 a head for them.

This buyer came past Montreal to get these horses. Many could have been obtained in that city. He preferred, however, to buy direct from the farmers where he could see the horses at work. He was not particular as to their condition, simply requiring that they be of suitable conformation, up to weight and sound, and for such he was willing to and did, pay the price asked. Other localities may well take a pointer from this experience and get into the heavy horse business. Breed them right and they will command prices that spell profit and if enough are available, buyers will soon be abundant. Heavy horses are the right sort to breed. They are the most easily handled and are practically sure of a

IS IT A HOPELESS TASK?

There are some, who, considering the rate at which certain weeds are spreading, are about ready to throw up their hands and take the consequences. Three weeds loom up very large in some districts in this connec-

thistle. Of these three the first is most common as yet. It is the least dangerous, and yet it is a most universally hated weed. If one's troubles, so far as weed life is concerned, were confined to mustard he might count himself happy. This is one of the few weeds which seems to interfere with the growth and development of crops very little. No one, however, would court its favor even if it did not give very serious trouble. Being a simple annual it is easily killed. If it could be prevented from going to seed it would soon run out. When the land gets full of seed it becomes a difficult matter to eradicate it because of the great vitality of its seeds which may remain unimpared in the soil for it is hard to say how many years.

In the old country some few years ago, experiments seeking to eradicate mustard were tried on some fields almost entirely occupied by mustard plants. In ten years, by thoroughly spraying the young mustard with a solution of copper sulphate, and practising a short rotation, together with best methods of cultivation to grow and otherwise kill the young plants, it was claimed that they had succeeded in practically exterminating it.

With bladder campion and perennial sow thistle the task of extermination is more difficult, but it can be done and it will pay to do it. The most effectual means of dealing with these is by a process of smothering them through cultivation, best done with a broad-shared cultivator. Keep both of these plants from going to seed until they can be handled in a summer fallow. Plow once quite deep and after that give frequent cultivation throughout the season with a broad-shared cultivator and both bladder campion and sow thistle must succumb. A number of definite ways of dealing with these weeds have recently been discussed in Farm and Dairy, to which those specially interested might with satisfaction to themselves refer.

WHERE ALFALFA IS HIGHLY VALUED

Alfalfa is becoming more and more prized as a valuable forage plant. In some sections that seem peculiarly adapted to alfalfa and where it has been thoroughly tested it has become very popular and is proving a most profitable crop. The district in the vicinity of Caledonia, Haldimand County, Ont., comprises some rather rolling ground. In many cases, the hillsides are a stiff, red clay, not the kind of land that the average farmer would choose to produce the best of crops or that could be worked easily. While in that section recently, an editorial representative of Farm and Dairy learned that about 25 years ago, a Mr. Douglas, a progressive farmer, sowed some alfalfa seed and thereby discovered that these clay hillsides are adapted to the growing of the alfalfa plant. Since that time,

have areas as large as 100 acres devoted to this crop. They find that in conjunction with corn in the sile. alfalfa is one of the best and cheap est feeds for dairy stock. The alfalfa is fed to all kinds of stock and gives excellent results.

Under ordinary condition, land in that vicinity would not command a high price. Since it has been found that this particular soil is suited for the growth of alfalfa, land values have risen and the values will yet go up Land that will produce alfalfa with the certainty of this soil, would be cheap at \$100 an acre. When we consider the success that some have met with in the growing of alfalfa, it is surprising to find that other farmers in the same locality with land that is equally suited for this plant have never sown a handful of alfalfa seed but stand by timothy and red clover (mostly timothy) and the growing of fall wheat and oats, selling the same from their farms. It is noteworthy, and not surprising, to find that men in that locality who have grown the most alfalfa are gradually buying out their less enterprising neighbors.

Too much of any one thing is often a bad commodity to have on the farm. Many realize the truth of this as applied to swine. The same is almost equally true of any other branch of the farm. It is true of wheat. Because the price is a fair one, well up to the dollar mark, is no reason why the acreage in wheat this fall should be unduly increased in Ontario. The man of averages, he who follows mixed farming in its truest sense, is the one who in the long run is the pros perous farmer, Sow a reasonable acreage to wheat this fall if you are so situated as to make such advisable, but let not the present price of wheat unduly influence the area that you will sow.

Harvester Excursions (The Toronto Globe.)

The demand of the West for labor in the harvest fields is again in sight, and no doubt there will be plenty forthcoming even for handling the splendid crop in immediate prospect. Many newly-located settlers will be eager to earn ready money by helping on established farms. Some Ontario farmers who have finished their own harvesting will welcome the chance of seeing the country and returning with a surplus. Homeseelsers will as usual improve the opportunity, and there will be the expected recruits from the unemployed and the newly-arrived immigrants.

Experience should suggest provision against former mistakes. The rowdyism that attended last year's excursions should be prevented, both by care on the part of the railway authorities in the distribution of the men, and by the presence of a sufficient number of constables to preserve the peace. The men must not be made to feel that they have grievances, and their tendencies to boyish have averaged over 7,500 pounds. At tion. These are wild mustard, blad-growing alfalfa. Now, some of them Earlier excursions covered only parts

ate owing to laborers. The during a sever out of work opportunity. T entirely differe gests preparat there will be a bor available, industries the year. Every in problem of co for none need of men available few busy weeks farmers will be of keeping their ployed. This adoption of 1 change will serv of avoiding any

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Exhi At many of the United States regu

United States regular ter scoring exhibit that appear to be work in the way what the defects a their products are might be worth c might be worth conection with Cana At one of these tions held at the school last Februa

butter and cheese entry of cheese was expected during th few extracts from few extracts from ments on the scor educational value Most of the cheese from old milk. Th old milk. The ented whey flavor, in some cases "ran flavor was also four its. The judges point is due to milk being long in winter bad been kept in before being deliver The judges, as a re ter care of the milk the thorough sterilizing utensils used imilk at the farm. that there will be

of the railway lines, and tickets were not good to points where sufficient work could be obtained to validate the return checks. The result was that men who could not pay full fares to where work could be obtained were stranded. Men thus treated are easly prompted to acts of violence when an opportunity arises.

Last season was specially unfortunate owing to an unusual excess of laborers. The excursions were held during a severe depression, and men out of work eagerly seized the opportunity. This year conditions are entirely different, and the change suggests preparation for the time when there will be no great surplus of labor available, during what is in most industries the busiest season of the year. Every industry must solve the problem of continuous employment, for none need expect to find a force of men available for service during a few busy weeks every year. Western farmers will be forced to devise means of keeping their men continuously employed. This can be done by the adoption of mixed farming. The change will serve the further purpose of avoiding any threatened exhaustion of the soil. If the profit is not so large nor so immediate, there will be an attendant advantage in the assurance of labor for the sudden demands of harvest. So far by a confiding trust in chance the labor has been available every season. But such trust may some day be misplaced. The farmers in the prairie country should provide systematically for a supply of labor before the need is impressed by a serious and widespread A harvest without the labor to handle it would be indeed a calamity.

Receseseseseseseses Creamery Department

Butter Makers are invited to send contribu-ions to this department, to ask questions on the contribution of the contribution of the contribution of the peat subjects for discussion, Address your cities to the Creamery Department.

Cheese and Butter Scoring Exhibitions

At many of the dairy schools in the United States regular cheese and butter scoring exhibitions are conducted that spirar to be doing excellent work in the way of showing makers what the defects and good points in their products are. Similar contests might be worth considering in connection with Canadian dairy schools.

At one of these contests or exhibit.

At one of these contests or exhibitions held at the Wisconsin dairy school last February, 87 exhibits of butter and cheese were soored. The entry of cheese was small as would be accused during the winter waspen. entry of cheese was small as would be expected during the winter season. A few extracts from the judges' comments on the scoring will show the education value of these contests. Most of the cheese scored was made from old milk. The flavor in many cases was marked "unclean," "fermented whey flavor," "lacking," and in some cases "rancid." A "bitter" flavor was also found in a few exhib. ne cases "rancid." A "bitter" was also found in a few exhib-Bavor was also found in a few exhibits. The judges pointed out that this is due to milk being kept at the farms too long in winter and also that it had been kept in too cold a place, before being delivered to the factory.

The indoes, as a remedy, advise before the control of before being delivered to the factory. The judges, as a remedy, advise better care of the milk on the frail, and the thorough sterilization of oil milking utensils used in handling the milk at the farm. They other that there will be no danger of design the farm that there will be no danger of design.

veloping a bitter flavor in the cheese, veolong a litter havor in the cheese, even if the milk is held at a low tem-perature, while at the farm if all the milk utensils are perfectly clean and carefully scalded before they are used. The texture of the cheese indicated that the above that the cheese presses were in a cold that the cheese presses were in a cold place as the cheese did not seem to close up properly when in the press. As a remedy the judges recommended pressing the cheese in a place where the temperature does not go below 60 decrease.

BUTTER CONTESTS.

In the butter contest blanks were filled in by the makers giving information covering the processes connected with the processes connected with the first of the butter from the time when the nike or cream is received until the butter from the time when the nike or cream is received until the butter from the time when the nike or cream is received until the butter from the time when the processes of the processe

WATER CONTENT OF BUTTER.

WATER CONTENT OF BUTTER.

It is interesting to note that there has been a gradual increase in the moisture content of the butter of about two rose one during the seven years previous content of the butter of about two rose one of the property of the prop is expected that in a few years the average water content of American creamery butter will be at least 14 per cent or about the average at the content of the Danish butter at the content of the butter in this February exhibition the butter in this February exhibition the butter in the part of mose of the property of the content of the content of the content of the content of the cent, which is believed as the judges pointed as the judges pointed as the judges pointed to the cream being churred in the content of the content of the per cent; the lowest 88.50, moisture 10.2 per cent, and the average 91.76 points with an average moisture content of 15 44 per cent.

EDUCATIONAL VALUE OF CONTESTS. But the point that concerns Canadian dairymen, is not so much the quality of cheese and butter made in other countries, as the educational value of these scoring exhibitions. Is of sufficient importance to justify electronic establishment of similar scoring the establishment of similar scoring exhibitions in Canada? The maker should benefit very much by having his butter or cheese scored by com-petent judges at regular intervals during the season. He would know then where he was at and could change his methods or seek to remedy defects in other ways. defects in other ways.

Butter from Petroleum

A report from New York says that The Standard Oil Company has de-The Standard Oil Company has de-cided to drive the cow and the dairy-man out of humans. Its skilled chemists have dien since the company of t

ered, every precaution possible has been taken by Standard Oil officials to been taken by Standard Oil officials to prevent the secret leaking out, and it was only by accident that it be-came public. The butter, cream, sweet milk, buttermilk and cottage cheese markets soon are to be domin-ated by Standard Oil (so the report states). None of the officials, chem-ists or employees of the Standard Oil



When the agent for the imitating Cream Separator has finished his assault on your intelligence, ask him :-

Where did you come from?

How long has your machine been on the market? How long will it be?

Why should I buy it rather than the De Laval? As you claim it to be the same as the De Laval, why should I take a chance, when I can buy the genuine De Laval?

Has your machine the Split Wing Tubular Shaft? Why not?

Won't it be a long time to wait until the patents expire?

Will you agree to skim as well as the De Laval? Then put it in the order that it must do as well as the De Laval or no sale

THE DE LAVAL SEPARATOR 173-177 William St. MONTREAL

WINNIPEG

VANCOUVER

Adulterated Milk

Adulterated milk is defined by the Act governing its sale in New Act governme.
State as follows:
1.—Milk containing more than 88
1.—Milk containing less than 12
2.—Milk containing less than 12
per cent. of milk solids.
3.—Milk containing less than 3 per

* Company will admit that the company is soon to invade the dairy product stance whatever.

In the application of the Act in-In the application of the Act in-spectors are guided by a comparison of the sample sold with that of a sam-ple of the milk of the whole herd tak-en at milking time on the owner's premises.

The creamery at Melfort, Sask., which was started in July, is reported to be making good progress, about 3,600 to 4,000 pounds of butter per week being made during August.

3.—Milk containing less man oper eent of fats from which any part of the cream has been removed.
5.—Milk which has been diduted with water or any other fluid, or to which has been added or into which

What About Your Fall Order

NOW is the time to get busy on Autumn Supplies Look your stock over carefully and you will find that you are short of some useful articles. your order early and thus avoid any unnecessary confusion. We handle a full line of DAIRY SUPPLIES and our prices are right.

Rennet Colorings, Salt, Cotton, Brushes, Brooms, Glassware and Tinware.

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R. M. BALLAN

STRATFORD, ONT.

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

Makers are invited to send contributions to this department, to ask questions on matters relating to chessensking and to suggest subjects for discussion. Address your letters to The Cheese Maker's Department.

Mr. Barr's Lectures Bearing Fruit

Last fall patrons of cheese factories in a considerable part of Peterboro County were privileged to hear Mr. Geo. H. Barr, Assistant Dairy Commissioner for the Dominion, given is illustrated lecture on the "Care of Milk for Cheese Making." Among other places, this lecture was made to the places, this lecture was the Warminter cheese factory, which is in close proximity to Warsaw, an editorial representative of Farm and Dairy was pleased to learn that Mr. Barr's efforts were bearing fruit. Mr. Gavin Graham, the manager of the Warminster factory, stated that Mr. Barr had worked wonders so far as the milk coming from some of his patrons was concerned. One patron in particular had always given continual trouble in sending unsound milk. It was a common thing to send back at least 900 mounds or more of Last fall patrons of cheese factories milk. It was a common thing to send milk. It was a common thing to send back at least 200 pounds or more of his milk a week. Since caring for his milk as recommended by Mr. Barr, his milk had come in in perfect condition, not a pound having been returned this season. "The system recommended her in the property of the system procommended her in the property of the system procommended her in the property of the system procommended her in the process of the property of the system procommended her in the process of the property of the process of the

"The system recommended by Mr.

"The system recommended by Mr.

Barr," said Mr. Graham, "is all

right. If cooled by water and covered up immediately and kept from all sources of contamination, the milk can be left on the covered stand over Sunday and be in good condi-over Sunday and be in good condi-ation of the sunday morning. It is no trou-ble, tell how the milk delivered at longuists. At the reg before the factory has been cared for. Old coolers and acrators where the milk from start to finish.

runs over a bridge, and is exposed to the air, are all wrong. Should there be any wind blowing, they get the benefit of all that is going from the barnyard, and the seat of most of the trouble in this district is that invari-ably, farmers have their stands in very close proximity to their barn-verds.

"Like many other factories in Eastorn Ontario, we separate the whey
and get all that is in it," continued
Mr. Graham. "The whey seems to
be as good for feeding purposes as
it was in other years. Now farmers
get it fresh every day. Years ago,
they used to get in a supply large
enough to last a week. The whey
used to be drawn from the vats and
elevated from the lower tank to the
higher by means of an ejector, and 'Like many other factories in Eastelevated from the lower tank to the higher by means of an ejector, and as the farmers draw the whey from the bottom of this elevated tank, they get but very little of any fat that it might contain when first dipped."

Making Butter from Whey Cream

J. J. Hogan, Peterboro Co., Ont. One of the first factories in Peterboro Co., Ont., to commence the manufacture of butter from whey was the Schearer Factory, one of the largest in the district and one that hardist stalled the Ruddick system of old storage. The Shearer factory was receiving daily during July about 12,000 pounds of milk, making approximately 12 cheese. The whey is separated and the cream made into butter. At the time or writing, we One of the first factories in Peterbutter. At the time or writing, we are making a little more than two pounds of butter out of the whey from pounds of butter out of the whey from each 1000 pounds of milk, or the whole amount of whey daily yields about 28 pounds. At the request of Farm and Dairy, I give the following outline of how our whey butter is handled

We are placing on the market

a new cheese box which elimin-

ates all the undesirable features

This box is made of three

pieces of veneer, with the grain

running from top to bottom. It

also has the advantage of a hoop

placed near the top as shown

in fig. 2, thus making it very strong and durable. In fact it is impossible to break it with ordinary handling. Every box

of the old-style package.

When the whey is ready to remove When the whey is ready to remove from the curd it is run into a small pan placed at the end of the vat. the whey being conducted from there by means of a five inch leader to a large vat under a part of the factory built especially for this purpose and which is most convenient to the separator. From this tank the whey is elevated by means of a three quarter inch ejector to a small receiving can at the separator, the whey being at a temperature of about 110 degrees F. The whey is separated at this temperature. perature.

After all the whey has been separated, the cream, which will test by



Cans on a Roadside Milkstand

Case on a Roadisc Minarase Much unsound milk can be traced to un-washed cans having teen left standing ex-posed to the sun. The cans Illustrated, when photographed at 239 pm., in the photographed at 239 pm., in the photographed at 230 pm., in the universal photographed at 230 pm., in the

the Babcock about 40 per cent. butthe Babcock about 40 per cent. but-ter fat, is placed in a tank built es-pecially for the purpose so that the cream can is surrounded with water and ice and the cream reduced to 40 degrees F. After cooling for about 15 minutes, pasteurized starter made from pure culture, testing by the acidimeter about 30 or 35, is added. The cream is left in the cooling tank at a temperature of about 40 degrees for about 12 hours. It is then churned in a No. 6 barrel churn run by a belt. The churn is revolved at about 40 turns a minute. The butter generally comes in about one hour It. generally comes in about one hour. It is washed and salted to suit the trade, is washed and salted to suit the trade, the same as one would do with any butter. It is worked by a hand work er, printed, and placed in a box made purposely for it in one end of the tank which is surrounded by the ice cold water. This keeps it in good condition for the consumer.

Patrom stake above

conductor for the consumer.

Patrons take about one half or more
of our product. They seem to like it
well. The remainder is sold to stores
in Peterboro at 23 cents a lb. We
have received no complaints whatever
from the consumers, Should any have received no complaints whatever from the commers. Should any points in the butter not be made and the points in the foregoing, I will be plead give any additional information that may be requested through Farm and Dairy. I would like to know how whey butter is handled in some of the oth ** factories. To my fellow cheese makers, I would say, send in your ex-perience to Farm and Dairy and let to be published through its columns.

The value of Red Deer District as a dairy district, and of Red Deer town as a distributing point of the residential centre was never more distributing to the value of valu loads are projected for this fall.— Red Deer Advocate.

Renew Your Subscription Now.

All Say Same

Users of Sharples Dairy Tubular Cream Separators know Tubular superiority. Read what they say:

Glanwilliam, Man, Nev. 7;—"I tried a "bucket bowl" and Tubular. I learned that, if I used the 'bucket bowl', I would lose enough in two years to purchase a Tubu-lar,"—Alf. Gustafson.

Lower Milistresm, N.B., March 5:—"Tried two 'bucket bow!' machines but preferred the Tubular."—J. E. McAuley.

Rocanvillo, Sask, Feb. 5:—"Since using the Tubular and discarding the 'bucket how!', we find dalying a pleasure instead of a toll. Tried four others before pur-chasing Tubular."—Jessle Miller.

Fox Hill, N. B., Aug. 1:—The Tubular can be cleaned in 7 minutes, whereas the 'bucket bowl' 1 previously owned required 30."—H. M. Campbell.

Bowden, Alfa., Feb. 11:—"I used a disk filled 'bucket bowl' but find the Tubular rauch easier to turn and clean."—Sec. Hawkins.

The manufacture of Tubulars is one of Canada's leading industries. Sales exceed most, if not all, others combined. Write for Catalog 253.

THE SHARPLES SEPARATOR CO. Winnipeg, Man



Pigs as Premiums

It affords us pleasure to note how popular our "Pig Offer" is proving. We have sent out a great many pigs this spring as premiums for clubs of this spring as premiums for clubs of seven new yearly subscriptions to Farm and Dairy. We have been gratified to learn that they been countered to the provided the seven out have proved satisfactory in every case. The following letter the popularity of our Pig Offer. "We received the pig which you sent us for securing seven new subscriptions to Farm and Dairy. It is a fine pig and we think it is a great credit to the man that raised it. We cannot thank Farm and Dairy enough for such a nice gift." John Meyers, Leeds Co., Ont.
Farm and Dairy is always anxious Farm and Dairy subscriptions to Farm and Dairy and the provided that the provi

Farm and Dairy is always anxious to give credit where it is due, and we take pleasure in stating that the

Contains Valuable Information

Everyone interested in dairy-Everyone interested in dairy-ing should read Farm and Dairy and put into practice the valuable information that it contains.—J. J. Hogan, Prop. Shearer Cheese Factory, Peter-boro Co., Ont.

above pig was ordered from and ship-ped for us by, Mr. Alex. Hume, of Menie, Ont. Any of our readers who have not yet secured one of our pure bred pigs, cannot do better than to send us a club of seven new subscrip-tions and thereby win a premium of a pure bred pig. Each of the seven new subscribers will have the same privilege. We will send a pure bred privilege. We will send a pure bred privilege. We will send a pure bred pig to any one upon receipt of a club of seven new subscribers to Farm and Dairy taken at only \$1.00 a year.

As I cannot get along without Farm and Dairy, please find enclosed \$\frac{1}{2}\$ for my renewal subscription for one year. Every dairyman should have Farm and Dairy.—Wm. Bauer, Wellington, Ont.



August 12,

SYNOPSIS.—The consists of Mr. Wat children. Pearl W. the mainstay of the Bruton Francists. Street of the Constitution of the C Bud Perkins, wh

the Perkins family mother a 'regular last induced to sin all-ye' contained t all ye contained to and in it was set for of one, young Wi home and native la der age, and "left" he left." His moth of blue around his you son," she sai will watch for you fled!" The song went the mother watched Willie roamed afar, been scalped by savi for dead upon the wise maltreated by large, he began to the after shipwrecks, a hair-breadth escapes mother's cottage doe had gone long years

Then, of course, ceive his mother, aft all boys returning a

Oh, can you tell m How far to Edin

But he could not

But he could not no, no! She knew chief blue, still tied, When the applause generous, had been a sel wanted to know lie got his necked w long meanderings, or wash, how did he do

George Slater gra

young Willie went.
one very like the one
off with. He noticed t
dow as he passed, t
cheap for cash.

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Cheese Manufacturers





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transportation charges. For full information regarding prices, deliveries, its advantages, etc., write

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DOU can never tell what your thoughts will do. In bringing you hate or love; For thoughts are things, and their airy wings. Are swifter than carrier doves,



Sowing Seeds in Danny By Nellie L. McClung

ALL RIGHTS RESERVED. (Continued from last week)

Continued from last teeck)

SYNOPSIS.—The Westen framily live in a small town in Manitoba. The family consists of Mr. Watson, a many live in a small town in Manitoba. The family consists of Mr. Watson, a many live in a works on the "section," and nine children. Pearl Watson is an imaginative, so where the state of the family. Mrs. Watson is often employed, if I years old, and is the manitobal of the family. Mrs. Watson is often employed, and the state of Mrs. Francis, who tries some of her family consists of the state of Mrs. Francis, who tries some of her pet theories on Danny. Camilla Rose 1st of Mrs. Francis, who tries some of her far Francis domestic affairs, and occasionally helps woman who looks after Francis domestic affairs, and occasionally helps woman who looks after Francis domestic affairs, and occasionally helps woman who looks after Francis and the state of the Wilson among the watson family. Mrs. McGuire, the next done neighbor of the Wilson among the watson family Mrs. McGuire, the next done eighbor of the Wilson among the watson family of Mrs. McGuire, the next done leighbor of the Wilson among the watson family of Mrs. McGuire, the next done leighbor of the Wilson among the watson family of the watson as an addition to their home. He afterwards regretized by a various of the watson as an addition to their home. He afterwards regretized by a various of the watson as an addition to the watson watson watson

Bud Perkins, who was the wit of the Perkins family, and called by his mother a "regular cut-up," was at mother a "regular cut-up," was at how Canadians took things. He turned to Camilla. all-ye contained twenty-tures rerow, and in it was set forth the wanderings of one, young Willie, who left his home and native land at a very tenhome and native land at a very tenhome the left. His mother tied a kerchief be left. His mother tied a kerchief of blue around his neck. "God bless of blue around his neck." of blue around his neck. "God bless you son," she said. "Remember I will watch for you till life itself is fled!" The song went on to tell how long the mother watched in vain. Young Willie roamed afar, but after he had been scalped by savage bands and left for dead upon the sands, and other-wise maltreated by the world at large, he began to think of home, and after shipsrocks.

after shipwrecks, and dangers, and hair-breadth escapes, he reached his mother's cottage door, from which he had gone long years before. Then, of course, he tried to de-ceive his mother, after the manner of all boys returning after a protracted absence—

Oh, can you tell me, ma'm, he said How far to Edinboro' town.

But he could not tool his mother. on no She knew him by the ker-chief blue, still tied, around his neck. When the applause, which was very generous, had been given, Jim Rus-sel wanted to know how young Wil-lie got his necked washed in all his long meanderings, or if he still long meanderings, or if he did not wash, how did he dodge the health

George Slater gravely suggested that perhaps young Willie used a dry-cleaning process—French chalk or brown paper and a hot iron.

Peter Slater said he did not believe it was the same handkerchief at all. No handkerchief could stand the pace young Willie went. It was another one very like the one he had started off with. He noticed them in the window as he passed, that day, going cheap for cash.

"It's only a song, don't you know," he said with a distressed look.
"It is really impossible to say how he had the kerchief still tied around his neck.'

The evening would not have I complete without a song from Billy McLean. Little Billy was a consumptive, playing a losing game against a relentless foe; but playing like a man with unfailing cheerfulness, and eyes that smiled ever.

There is a bright ship on the ocean, Bedecked in silver and gold; They say that my Willie is sailing, Yes, sailing afar I am told.

was little Billy's song, known and loved in many a thresher's caboose, but heard no more for many a long day, for little Billy gave up the struggle the next spring when the snow was leaving the fields and the trickle of water was heard in the air was the struckle of water was heard in the air was the struckle of water was heard in the air was the struckle of water was heard in the air was the struckle or water was heard in the air was the struckle or water was heard in the air was the struckle or water was heard in the air was the struckle or water was heard in the air was the struckle or water was heard in the air was the struckle or was was leaving the neids and the trickie of water was heard in the air. But he and his songs are still lovingly re-membered by the boys who 'follow the mill," when their thoughts run

the mill," when their thoughts run upon old times.

Peter and Fred Slater came in with the coffee. Jim Russell with a white apron around his neck, follow-od with a basket of sandwiches, and Tom Motherwell with a heaping plate of cake.

Third you make this cake, Nell?"

Third you make this cake, Nell?"

Tan whispered to Nellie in the panty of t

Oh pshaw! pancakes are not so

Jim Russell whispered to Camilla, as he passed near where she and Ar-thur sat. "Will you please come and help Nellie in the pantry? We need you halle."

Camilla called Maud Murray to take her seat. She knew Maud would be kind to reyoung Englishman. When Camilla reached the pantry she found Nellie and Tom Motherwell lampily engaged in acting lemon

she found Nellie and Tom Motherwell happily engaged in cating lemon harpits and evidently not needing her at all. Jim was ready with an explanation. "I was thinking of poor Thursa, far across the sea," he said, "what a shock it would be to her if Arthur was compublied to work the sea," and the said was a special to the said of t what a shock it would be to her if Arthur were compelled to write home that he had changed his mind," and Camilla did not look nearly so angry as she should have, either.

as she should have, either.

After support there was another song from Arthur Vennyas, the young Englishman. He played his own accompaniment, his effective work, ran lightly over the keys. Every work, ran lightly over the keys. Even Martha Perkins forgot to twirl her fingers and lean forward. It was a simple little English ballad he sang:

Where'er I wander over land or foam,

There is a place so dear the heart calls home.

Perhaps it was because the occ Ferhaps it was because the ocean rolled between him and his home that he sang with such a wistful longing in his voice, that even his dullest listener felt the heart-cry in it. It was a song of one who reaches longing was a song of one who reaches longing arms across the sea to the old home and the old friends, whom he sees only in his dreams.

In the silence that followed the one, his fingers unconsciously began song, his fingers unconsciously began to play Mendelssohn's beautiful air, "We Would See Jesus, for the Shad-was Lengthen," Closely of these was been been as a constant of the shadow Lengthen," Closely of these was his religious devotion. The shadow was the shadow of the shadow with the shadow of the shadow o soft footfalls in the aisle; the white-robed choir; his father's voice in the church service, so full of divine sig-nificance; the many-voiced responses and the swelling notes of the Deum"—he missed it so. All the longing for the life he had left, all the spiritual hunger and thirst that was in his heart sobbed in his voice as he sang:

as he sang:
We would see Jesus,
For the shadows lengthen
O'er this little landscape of our life.
We would see Jesus,
Our weak faith to strengthen,
For the last weariness, the final

We would see Jesus, other lights are

paling,
paling,
Which for long years we have rejoiced to see.
The blessings of our pilgrimage are

failing.

We would not mourn them for we go to Thee.

He sang on with growing tender-ness through all that divinely tender hymn, and the longing of it, the prayer of it was not his alone, but

prayer of it-was not his alone, but arose from every heart that listened. Perhaps they were in a responsive mood, easily swayed by emotion. Perhaps that is why there was in ev-ery heart that listened a desire to be good and follow righteouspages. ery neart that listened a desire to be good and follow righteounness, a reaching up of feeble hands to God. The Reverend Hugh Grantley would have said that it was the Spirit of God that stands at the Go of every man's heart and knocks.

The young man he's the comment

man's heart and knocks.
The young man left the organ, and
the company broke up soon after.
Before there parted, Mr. Slater in
whom the Englishman's singing had
revived the spiritual hunger of his
Methodic heart, requested him to
sing God be with you till we meet
again." Every one stood up and
joined hands, Martha, with her

thoughts on the butter and eggs; Tonaid McKenzie and oig John with the vision of their lonely dwellings in the hils looming over them; Jim and Camilla; Tom and Nellie, hand in hand; little Billy, face to face with the long struggle and its certain ending. Little Billy's voice rang sweet and clear above the others—

God be with you till we meet again, Keep love's banner floating o'er

you, Smite death's threatening wave before you; God be with you till we meet again!

CHAPTER XIX.

Pearl's Diary.

When Pearl got Tom safely started the party a great weight seemed have rolled from her little shoulfor the party a great weight seemed to have rolled from her little shoulders. Tom was going to spend the night—what was left of it—with Arthur in the granary, and so avoid the danger of disturbing his parents by his late home-coming.

Pand was too swaited to slear, so

the state of the s

Mrs. Francis had told her to write what she felt and what she had saw,

what she lett and what she had saw.
She had written:
She had written:
August 8th.—I picked the fethers
from 2 ducks to-day. I call them cusmoodles. I got that name in a book,

at from 2 ducks to-day. I call them customers of the commodiles. I got that name in a book, at The cusmoodles were just full of the cheety-wow-wows. That's a pretiy gname, too, I think. I got that out of my own head. The cheety-wows wows are wanderers to-night, I guess. They lost their feather-bed.

They lost a gitting they lost their feather-bed.

August 9th.—Mrs. Motherwell is gittin' kinder, I think. When I was gittin' the tub for Arthur, yesterday, and gittin' water het, she said, "What are you doin," Pearl': I says, "Dear are you doin," Pearl': I says, "Gittin farthur a bath." She says, "Dear wash his," I says, "Yes but hell feel better now." She says, "Dus he want anyone to wash his," and I did, too; but he says, "No, thanks awfully."

August 10th.—The English Chevel.

ly."
August 10th.—The English Church
minister called one day to see Arthur.
He read some of the Bible to us and
then he gave us a dandy prayer. He
didn't make it—it was a bot one.

There's wild parsety down on the

didn't make it—it was a bot one.

There's will arsely down on the
crick, Mrs. M. sed 't wuz poison,
but I wanted to be sure, so I et it,
and it isn't. There's wild sage all
over, purple and lovely. I pickt a big
lot o' it, to taik home—we might
have a turkey this winter.

August III.—I hope tom's happy;
it's offel to be in love. I hope I'll
never be.

never be.

My hands are pretty sore pullin'
weeds, but I like it; I pretend it's bad
habits I'm rootin' out.

Arthur's offel good; he duz all the

Arthur's offel good; he duz all the work he can for me, and he sings for me and tells me about his uncle, the Bishop. His uncle's got servants and leggin's and lots of things. Arthur's been kind of sick lately.

I made verses one day, there not very nice, but there true—I saw it:

The little lams are occurrful,
There cotes are soft and nice,
The little calves have ringworm,
And the 2-year olds hav lice!

Now I'm going to make more; it eems to had to leve it like that. It must be very nasty. But to worrie, waht's the use Better be cam and cheerfull, And appli tobaka jooce.

Fun for the Holidays

Secure this Camera FREE OF COST



What boy or girl would not like to have a camera of their own this summer. Here is a chance to get one free of cost. This roll film camera, fixed focus low type, taking pictures 2½, in Free of cost for securing a club, you free of cost for securing a club, you free of cost for securing a club, you free of cost for securing a club, write for some and pairy at \$1.00 cach. Write for some of the meighbors and get some of the meighbors have a good time this take long to secure four new nutscriptions. This is a splendid camera, this is a splendid camera. This is a splendid camera for the property of the particulars and sample copies write to:

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Sometimes I feel like gittin' lone sum, but I jist keep puttin' it of. I say to myself I won't git lonesum till I git this cow milked, and then I say I git this cow miked, and then I say o shaw I might as well do another, and then I say I won't git lonesum till I get the pails washed and the flore scrubbed, and I keep settin' it of and settin' it of till I forgit I was goin' to be.

goin to be, I wun jist gittin' reddy to cry. I could feel tears startin' in my hart, and my thear startin' in my hart, and my thear said Duny, thinkin' of ma and Duny, the course, I couldn't dab tears on it and muss it up, so I had to wait. Mrs. M. duzn't talk to me. She has a morgage or a cancer I think botherin' her. Ma knowed a woman once, and everybuddy that she wu terrible her. Ma knowed a woman once, and everybuddy thot she wuz terrible cross cos she wouldn't talk at all hardly, and when she died, they found she'd a tunult in her insides, and then you bet they felt good and sorther word when we're cross at home. ry, and when we're cross at home ma says it's not a strap we n but a good dose of kastor oil Seany and we git it too.

I gess I got Bugsey's and Patsey's bed paid fer now. Now I'll do Ted-dy's and Jimmy's. This ain't a blot

dy's and Jimmy's. This ain't a blot ti's the liniment Mrs. McGuire gave me. I have it on my hands. I'm gittin' on to be therteen soon. 13 is pretty old I gess. I'll soon turn the corner now and be lookin'. 20 square in the face—I'll never be homesick then. I ain't lonesum now either—it's just sleep that's in my

etter—its just steep that's in my eyes smuggin them up.

Jim Russel is offel good to go to town he doesn't seem to mind it a bit. Once I said I wisht I'd told Camilla to remind Jimmy to spit on his warts around the bit of the steep that the steep that seem that the steep that seems the steep that seems that seems that seems that the steep that seems that s his warts every day—he's offel care-less, and Jim said he'd tell Camilla and he often asks me if I want to tell Camilla anything, and it's away out of his rode to go round to Mrs. Fran-cis house too. I like Jim you bet.

(To be continued next week.)

The Upward Look gooooooooooooo

Temptations

When through fiery trials thy path-way shall lie, My grace, all-sufficient, shall be thy supply;

flames shall not hurt thee; I only design

Thy dross to consume and thy gold to refine.

My son, despise not thou the chast-ening of the Lord, nor faint when thou art rebuked of Him; for whom the Lord loveth He chasteneth, and scourgeth every son whom He receiveth.—Hebrews, 12:5-6.

For many of us it is hard to understand how it is that if God loves

us He allows so much suffering the world. Why should we be b dened down by griefs and difficulties when God has it within His power to make our pathway smooth and clear and our life joyous?

When we ask these questions we should ask others with them. Do we deserve to enjoy any better times than we are? Are we trying, striving we are? Are we trying, striving might be a better word, to live as God wants us to live and as Christ has shown us how to live? Do we love God above everything else? Do we love our fellow men and women even those who have ill-treated is, as we do ourselves? Are we forgetas we do ourselves? Are we forget-ting self and endeavoring to help oth-ers? Are we patient and kind in our daily thoughts and actions? If not, we cannot very well complain if God thinks it best for us that we should be tempted and tried.

ing. In the words of Dr. Torrey, little soda added to the water is a "The chastisements of God are a call great help in getting the grease of the dishes and pans." almost overwhelmed by our trials and difficulties that we can appreciate the joys that are possessed by Christians, who have a God who they kee loves them and who has promised, if they will ask Him in the right way, not to tempt them more than they can bear and to give them the strength they need to enable them to overcome all their difficulties. Is not overcome all their difficulties. Is not that a God worth having and holding to fast?

to last?

If we have faith in God we will believe that he sends us troubles for our own good. In her book, "The Life Radiant," Lilian Whiting says: "The Life Radiant, Lilian Whiting says: "The Life Radiant comes when we can as sincerely thank God for pain yellow the same of the same of the same sincerely thank God for pain in the great probability of the same says and the same book, "the average individual holds a traditional belief that he ought, perhaps, to be able sincerely to wish that God's will be done, but as a matter of fact he far prefers his amatter of fact he far prefers his own," that it is so hard for some of us to face troubles as bravely and as uncomplainingly as we should. If we have faith in God we will be-

temptations as a proof that God loves us, and our text shows us that we may, we will be able, in time, to rejoice in temptation. The apostle James has said, (James 1, 2) "My brethhas said, (James 1, 2) "My pretn-ren, count it all joy when ye fall into divers temptations" and, also, "Bless-ed is the man that endureth tempta-

The manner in which we carry our The manner in which we carry our burdens and overcome our temptations is the measure of our love of God and of our faith in Him. If we have a true conception of God's love for us we will be able to say gladly, "Thy will be done."—I. H. N.

... The Value of a Fruit Diet

oranges, peaches, lem-berries, blackberries, raspples, oranges, peaches, tem-strawberries, blackberries, rasp-es—in fact, all the various fruits—are exceedingly whole-in character, and are capable of furnishing a very large amount of nourishment in one's daily diet. Strange as it may seem to the average individual, almost any one of these fruits, lemons excepted, would fully and completely nourish the body for a and completely nourism the body for a pricinged and even an extended period, if one were for any reason compelled to secure nourishment en-tirely from food of this character, altaough of course it would require a considerable period for the organs of assimilation to acquire the habit assimilation to acquire the habit of absorbing all needed nourishment if a radical dietetic change of this nature was made

Helps and Hints

Putting a pinch of salt in the cof-fee improves the flavor. To remove finger marks from doorknobs and locks use pure soap and

old cheese cloth. To clean windows and a little borax. Wipe dry ar Wipe dry and pol-

dainty dish is often spoiled by the thought that the necessary basins, spoons, plates, etc., must be washed afterwards. To many people the prospects of div cooking utensils awaiting them after a meal takes away all appetite for their food. All pots and appetite for their food. All pots and appetite for their food. All pots and appetite for their food. But the same properties of the prope thinks it best for us that we should be tempted and tried.

When we feel that our burdens are greater than we can bear we should go straight to God and ask Him to show us where we have been offend-

Try dipping stale cake in milk and rebaking it in a moderate oven. It is said to taste as if newly baked.

is said to taste as it newly oaked.

Peas and beans are the most nutritious of vegetables, containing as
much carbon as wheat, and almost
double the amount of muscle-forming

Small cake castile soap, shaved fine, oz. ammonia, i teaspoon saltpetre, quart rain water (warm). Put in a glass sealer to keep. Use one tea-spoon of the mixture in a little water. Shake it well before using. . . .

Would You Like It?

Girls, do you ever grow tired of the daily round of farm home duties; complain of the monotony of country life and imagine that if you get to the city with its noise and excitement that you would be happier? Not a bit of it. Don't deceive yourself with the idea that the lot of the working

the idea that the lot of the working girls in the city has none of the dis-advantages of which you complain. How would you like to spend all the hot days of the summer at a machine in a factory with the never-enling rumble of machinery about you and a foreman constantly on the watch to see that you turned out so much work?

Does four dollars or six or eight or ten dollars aweek seemlike a good deal of money to you? How would you like to pay from a dollar and a half to to pay from a goilar and a nail we two dollars a week for a room; from two to four dollars a week for your board? In the city you pay fifty cents for every dozen pieces of clothing washed; fifteen cents a quart for en apples

How would you like to be 'laid off work' because of the slack time, to

work" because of the slack time, to have no money at all coming in, and expenses going on all the time? That occurs with shop girls and factory girls of all kinds periodically.

How much variety is there in the life of the average working girl in the control of the common take the work of the better time? The common take her work out on the poven in the summer as you often case. summer as you often can, or get out for a breath of fresh air whenever she feels like it. She has no chance she feels like it. She has no chance for a rest in the afternoon. She can-not do two days' work in one as you can sometimes, and go off for an out-ing the next day. She cannot slip off to her own room and lie down when she has a headache or is tired. Do you like to be invited out

spend the evening or to bring your fancy work and spend the day with a friend? You might be in a city for years before you would know how

nice it was to sit down at a home table for a meal with the family.

Do you like to have your friends come to see you? Do you enjoy getting up nice "honey" suppers for

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Circulation Department,

FARM AND DAIRY PETERBORO, ONT.

them? How wo a spot in the ci comfortably invi on you? How have no place by twelve bedroo you could ente home if he calle sands of girls in ed just that wa they are often l

August 12,

This is no fatrue to life. Le half so full of ve as you have ima comparatively fe they, as a rule, years of training There is no iso with the feeling alone in a greathat of all the you meet, no one is specially intere cares very much personally. You you can turn out do it well. When do it well. When your employers, them, will soon l The city is crowd and women who c compete with e workers in any lir they underbid th are only tolerated

********* OUR HO Resessesses What Do Y

ciency is proven things long and c

decide to give up ent, comfortable l

Some time ago question and it cer with gloves. It wa writer has not ha esting experience counter. It is "tl counter. It is "tl us, and the most d asperating to come city sports who our disasters. I on in one mix-up and a little of country home on the train automobile could la along a road. A ca the opposite directio little of





Secure a CLUB \$1.00 EACH, and English S

This set consists of plates, 12 fruit disl platter (14 inch), 1 alop bowl, and 1 corated in a dainty

desirable to mentio

of

them? How would you like to have not a spot in the city to which you could comfortably invite your friends to call on you? How would you like to have no place except a dingy ten by twelve bedroom or the street where you could entertain a friend from home if be called to see you? Thousands of girls in large cities are situated just that way. Is it any wonder they are often led astray? This is no fancy picture. It is

they are often led astray?

This is no fancy picture. It is true to life. Life in a city is not true to life. Life in a city is not half so full of variety and good times as you have imagined. The city has comparatively few easy places, and they, as a rule, are gained only after years of training and experience.

There is no isolation that converges the second of the convergence of the conv

There is no isolation that compares There is no isolation that compares with the feeling of being practically alone in a great city; of knowing that of all the teeming multitudes that of all the teeming multitudes you meet, no one knows you, no one is specially interested in you, no one cares very much what becomes group personally. You are useful as longing you can turn out so much work and do it well. When you fail to do that do it well. When you fail to do that your employers, even the best of them, will soon lose interest in you. them, will soon lose interest in you. The city is crowded with young men and women who do not know how to compete with experienced, skilled workers in any line, and even though they underbid the others in wages are only tolerated until their inefficiency is proven. Think of their way thinks long and confident their length. things long and carefully before you things long and carefully before you decide to give up the free, independent, comfortable life on the farm to try your luck in the city. A.A.C. Receeseseseseses

OUR HOME CLUB

What Do You Think? Some time ago I read an article "Farm and Dairy" on the "Auto"

Some time ago 1 read an article in "Farm and Dairy" on the "Auto" question and it certainly was handled with gloves. It was quite evident the writer has not had the very interesting experience of a personal en-counter. It is "the question" with us, and the most discussed. It is exasperating to come in contact asperating to come in contact with city sports who merely laugh at our disasters. I only wish they were in one mix-up and they would know little of a little of country trials. Coming home on the train one evening an automobile could be seen spinning along a road. A carriage was coming A carriage was the opposite direction. We had mere-



ly time to see the first act in the drama and I was glad. Two men were behind me and one remarked the orses in the country do sometimes frighten at a motor car. A corresponding indifference restrained me from saying, did you ever drive a

Mark you, meeting a car in the crowded city is an altogether different crowded city is an altogether different matter to meeting it on the open country road. I have ridden in a luxurious car and never the care in the abird in my life, but to meet, to see one in the distance looming up on us like a demon or some other wild animal, strikes terror to the bravest of us, and it is hardly fair. A very worthy gentleman said to A very worthy gentleman said to me not long ago, I have not the least doubt that the motorists are at the bottom of "the good roads agitation." bottom of 'the good roads agitation.' So far, so good. We country peo-ple perhaps need a push sometimes, but remember we pay for those good roads and then have to stay inside our gates and watch our rich city neighbors enjoy them.

It means no church, no visiting or pleasures for the farmers' wives, we simply dare not drive alone and it pleasure with a there is a constant dread.

there is a constant dread.
Yet we got even once in a while.
A lady and gentleman driving one evening met the dreaded object. They gave the signal but they flew by as if yet were the King's messengers.
We will omit the result. Coming home two hours later they found this same gar stranded in a disk and the nome two nours later they found this same car stranded in a ditch and the occupants in a sort of a meekly patronizing way solicited help, but our friends way in a creat hurse. These ronizing way sometted neip, our our friends were in a great hurry. They asked if they knew where they-could asked if they knew where they-could get some one to draw them out, but they replied, we are strangers here. Wicked, want't if? But you think they deserved it? We would not deprive the motorists of their "country run," far from it, but meet us half way, give us at least time to go to and from church, about four hours on Sunday, sacred to the day.

to go to and from church, about four hours on Sunday, sacred to the day, and at least two age in the week to enjoy the roads at the control of the to the control of the to the control of think for one minute what a cry would be raised if we farmers trailed our be raised if we farmers trailed our reapers, mowers, etc. through the city streets. Anything bordering on a nuisance is quickly attended to there, and we are just as live, real people as they are, and we women are tired out walking to the post office, church and to the store. Let us call "play fair."—"Aunt Faithie."

THE COOK'S CORNER of publication in this column. Inquiries will be replied to, as are soliticed, and will be replied to, as are soliticed, and will be replied to, as are soliticed, and control of the column. Our Cook Book will be replied to, as are soliticed, and control of the column and t Send in your favorite regimes for a publication in this column. In utires a pertaining to cooking are solicited, and a pertaining to cooking are solicited, and the replied to, as soon as possible and the publication of the publication, this paper hold failton, this paper are publications.

Desserts for Hot Days

Use fresh fruits when possible, daintily served, to save labor on these hot days. Strawberries and raspber-ries and cream are healthful and usuries and cream are healthful and usu-ally welcome, as are also other fruit combinations. Custards, cornstarch concections, tapiceas and gelatine in varied ways are all good for the heat-ed season. Sometime, the heat-

Soak 1/2 box granulated gelatine in Some % box granulated genature in % cup cold water, then stir it into 1 cup boiling water. Dissolve % cup sugar in 2 cups prepared coffee; strain the gelatine and mix the liquids. Turn into mold and chill. Sorre with super and cream. Serve with sugar and cream. ORANGE JELLY.

ORANGE JELLY.

This is prepared in the same way as coffee jelly. To 1½ cups orange juice add 3 tablesp lemon juice, ½ box gelatine soaked in ½ cup cold box gelatine soaked in ½ cup cold water, 11/2 cups boiling water and 1 cup sugar.

CREAM WHIPS.

CREAM WHIPS.

Sweeten thin cream to taste, flavor with vanilla, then whip; half fill cups with strawberries, bananas cut in small pieces, or stoned cooked prunes, off with the whipped cream, and serve cold.

serve cold.

Stir 2 tablesp cornstareh dissolved in ½ cup water into 1½ cups boiling water. Add at once the pice and grated rind of 1 lemos fix well and add beaten yolks of 2 eggs and 1 cup sugar. Foil 3 mil of 1 cup sugar. Foil 3 mil of 1 cup sugar foil 3 mil of eggs. Pour into mold and serve with whipped cream or ordinary cream.

... LETTUCE AND RADISH SALAD.

This can be prepared at a mo-ment's notice, if one has these early Inis can be prepared at a mo-ment's notice, if one has these early and common vegetables. It may be called an emergency salad. Use crisp clean lettuce leaves. Place between them 6 radishes that have been wash-ed and cut in thin slices.

A DEMICIOUS SUMMER DRINK.

Pour I qu' bot water over rinds of 2 lemons; let stand until cold, then starin. Add to there the juice of 3 lemons, 1 cup cherry luice, ½ cup strawberry juice, ½ cup strawberry juice, ince of 6 oranges, marpher-ty juice, juice of 6 oranges, and in the juice of 1 cocoant, canding a few whole berries, cherries and a few slices of lemon. A DELICIOUS SUMMER DRINK. of lemon.

es of lemon.

Here's another: Mash and strain
the berries through a sieve. To 1 gal
juice add 1 lb sugar; boil, then add 1
tablesp allspice, I tablesp cloves. Cook
until thick. When nearly cold add 1
qt whiskey or brandy. Useful for
summer complaint.

summer complaint.

BIKED MUTTON CUTLETS.

Prepare the cutlets as for frying in depending the property of the cutlets as for frying in the control of the cutlets as for frying in a dripping pan with a very little broth or stock and bake in a hot oven, basting often with melted butter and hot water. Season with salt and pepper When done make a brown gravy and turn over the cutlets and serve.

lets and serve.

CHIPPED REEF WITH TOMATOES.

Out up 5 tomatoes and dredge with
flour. Melt a tablespoonful of butter
in a pand put in the tomatoes,
ir ping and put in the tomatoes and
tes immer gently for
tomatoes and let simmer gently for
a few minutes longer; then serve.

BATHING SUIT FOR MISSES AND SMALL WOMEN



The suit e The sui; consists of bloomers which are bloomers which are bloomer and the front, and the princesse over portion. This latter is made with the full length panel, the length panel, the with front, and the skirt that, and the skirt that, and the skirt that, and the part of the skirt portions and in four gores. The belt joins the blouse and skirt portions and the closing is made at the left is made at the left. made at the left of the front.

Material required

Material required for the 15 year size is \$8\frac{1}{2}\$ yds 24 or 27, \$8\frac{1}{2}\$ yds 42 or 27, \$8\frac{1}{2}\$ yds 42 or 27, \$8\frac{1}{2}\$ yds 42 or 39, \$10\$ yds 10 receipt of 10 cta

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The suit consists of blouse and trousers.
The blouse is made
with fronts and back portions and is fin-ished with a big sali-or collar. It is over-faced at the front edges and closed in-visibly by means of visibly by means of visibly by means of visibly by means of seleves are in one p.e.e each, fin-shed free at their lower edges, and the shleid the personal and but the personal of the personal of the personal collars of the left front of the left front of the edges is dished with portions and is fin

plouse and the lower edge is finished with blouse and the lower edge is intaked with a hem in which elastic or is in settled to regulate the size. There is in settled to regulate the size. The plain ones, closed at the sides, and are minished with bands at their upper edges. The quantity of material require if or 7, 224 days and the sides of the

BLOUSE OR SHIRT WAIST 6398 be made with long or three-quarter shirt waist or plain sleeves, with Dutch collar or stock



lar or stock

The waist is made with fronts and back. The plaint are laid after the scenariose considered after the scenariose of the plaint are stitched for full length at the back to yoke depth only at the fronts. There is an attached pocket, an attached pocket, which can be used or omitted as Ill ed. When the Dutch col.

an attacned pocket, which can be used or omitted as lited.

When the Dutch collar is chosen it i

If a drop of sewing machine oil gets on white cloth, talcum powder sprink-led on it liberally will absorb the oil and leave no spot.

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If you leave the stalks standing or cut them slowly by hand the fodder is little more than woody fiber by the time the live stock gets it. You have lost practically 40 per cent of the protein, starch and sugar which the crop contained as it stood in the field, just at the time the ars been in or leave.

which the crop contained as it stood in the field, just at the time the ears began to glaze.

And none of that 40 per cent of food value goes into the ears. It is just lost—wasted. Turn over a new leaf this year. Double the value of the crop by using machines.

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You have then confined within the stalk, all those nourishing elements which make the fodder, when properly prepared, almost equal to the charge the state of the stalk.

ments which make the fodder, when properly prepared, almost equal to timothy hay for stock feeding.

Then you are ready to put this crop through the husker and shredder. A Deering, McCormick or Plano husker and shredder will husk every ear, with practically no shelling, and will ut the entire plant, stalk, pith, leaves and husks, into fine, nourishing fodder, which every head of your live stock will relish to the last shred.

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HOLSTEIN-FRIESIAN NEWS

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

HOLSTEIN-FRIESIAN COWS ACCEPTED IN THE RECORD OF PERFORMANCE

Madame Dot 5rl's Prices Paul ne De Kol (3708), mature class: 12743.1 lbs. milk and 487.259 lbs. fat in 55 days; average per cent, of fat 582. Owned by N. Sing-ster, Ormstown, Que. Lady Grey of Ormstown (7517), two year class; 9432.5 lbs. milk and 342.7027 lbs. fat

cass; 982.5 lbs. milk and 312.7027 lbs. fat in 355 days; average per cent. of fat 3.31. Owned by N. Sangster. Bontie Paul (2650), mature c'ası; 13011.7 lbs. milk and 445.8117 lbs. fat in 363 days; average per cent. fat 3.43. Owned by N. Sangster.

Sangster. 10 colors in 5.85. Course 10 pt. Sangster. 20 pt. 10 pt

class; 1933.5 lbs. milk and 354.69 lbs fat in 365 days; average per cent, fat 327. Owned by J. M. Van Patter. Johanna Netherlund De Kol (49), four year class; 1404.52 lbs. milk and 44.846 lbs. fat in 30 days; average per cent, fat 3.37. Owned by G. E. Peacock, Mt. Salem, Ont.

G. W. CLEMONS, Secretary,

HOLSTEIN-FRIESIAN OFFICIAL TESTS ACCEPTED IN THE RECORD OF MERIT Daisy Pictertje Johanna (6590), at 4 years 4 Pictertje Johanna (6591), at 5 years 4 pictertje Johanna (6501), at 1 years 4 pictertje Johanna (6501),

lbs. Owned by D. C. Flatt & Son, Mill: grove, Ont.
Jenny Bonerges Ormsby (6216), at 2 yrs.
Jenny Bonerges Ormsby (6216), at 2 yrs.
Jenny Bonerges Ormsby (6216), at 2 yrs.
Jenn 19 days of age, 15.61 lbs. fat, equivalent to 18.21 lbs butter: mill: 467,20 lb·, Owned by T. Batta & Son, Millerove, Ont.
Daksy Jane (6657), at 4 yrs. 8 mos. of age. 15.47 lbs. fat, equivalent to 19.01 lbs.
Jenny Jane (6657), at 4 yrs. 8 mos. of age. 15.47 lbs. fat, equivalent to 19.01 lbs.
Jenny Jane 19.01 lbs. Owned by Thomas Hartley, Charles Joseph 19.01 lbs. 15.47 lbs. Owned by Thomas Hartley, Theodore 19.01 lbs. 15.47 lbs. Owned by Thomas Hartley.

16.56 lbs. butter: milk \$44.7 lbs. Owned by 16.56 lbs. butter: milk \$45.25 lbs. Owned by 16.56 lbs. butter: milk \$45.25 lbs. Owned by 16.40 lbs. butter: milk \$45.25 lbs. Owned by David Caughell, Yarmouth Centra, Ont. Malashide Calamity Dorliska (7250), at 2 yrs. 9 mes. 19 days of age, 13.59 lb. of fat yrs. 9 mes. 19 days of age, 13.51 lb. of fat yrs. 10 mes. 10 me

Ont. Cora Countess Echo (9120), at 2 yrs, 2 mos, 14 days of age, 1.185 lbs, fat, equivalent to 1.83 lbs, hutter; 2026 fbs. Owned by Smith & Dyment, hum 200 graph, 20 Abbekerk Tryntie's Blossom (6938), at 3 yrs. 11 mos. 6 day of a Blossom (6938), at 3 yrs. 11 mos. 6 day of a Blossom (6938), at 3 yrs. 12 mos. 6 day of a Blossom (6938), at 3 yrs. 13 mos. 1 mos. 6 day of a ge. 11.43 lbs. Garrie's Ont. Sliver of Brockholme, R. S. Steussom Ibs. Owned by A. H. Tillian Abbekerk De Korg, Currie's, Ont. Sliver of Brockholme, R. S. Steussom (54 mos. 24 days of age. 11.67 lbs.), at 3 yrs. 4 mos. 24 days of age. 11.67 lbs. 16 kg. 16 mos. 16 pt. 16 p

Ruby Lady Lyons (9453), at 2 yrs. 25 day-of age, 11.00 lbs. fat, equivalent to 12.85 lbs butter; milk 292.8 lbs. Owned by W. S Schell, Woodstock, Ont.

Scholl, Woodstock, Ont.
Princess Margaret 3rd (6988), at 5 yrs. 7
mos. 15 days of age, 1055 lbs. fat, eq:ivil.
mos. 15 days of age, 1055 lbs. fat, eq:ivil.
beat to 12.35 lbs. butter; milk 32.34 lbs.
Owned by W. E. Hambly, Bockford, Ont.
Delta Gem Bell (6844), at 1 yr. 11 mos. 22
days of age, 10.22 lbs. fat equivalent to 113
days of age, 10.22 lbs. fat equivalent to 113
hs. butter; milk 302.56 lbs. Owned by 1). butter; mil

Canary S. Ca'amity Posch (8691), at rs. 2 mos. 13 days of age, 9.82 lbs fa

yrs. 2 mos. 13 days of age, 926 lbs. fal, equivalent to 1.46 lbs. butter; milk 36 lbs. Owned by George M. Pal'ett. Faforit of Downsview (7935), at 2 yrs 3 mos. 6 days of age, 9,69 lbs. fal, equivalent to 11.30 lbs. butter; milk 2219 lbs. Owned by Thos. Hartley, Int. George 1.21 lbs. Owned by Thos. Hartley, Int. George 1.22 lbs. Owned by Thos. Int. George 1.22 lbs. Owned by Thos. W. McQueen, Tillaobhurz, Owned by T. Tiny, (1990), at 1 yr 8 mos. 25 days of age 3.73 lbs. fat equivient to 19,41 lbs. butter.

110y, (1000), at 1 yr. o mos. 20 days of age 9.37 lbs. fat equivelent to 10,94 lbs. butter: milk, 265.9 lbs. Owned by M. H. Haley. Empress Wayne (9155), at 2 yrs. 1 mo. 18 days of age, 9.23 lbs. fat equivalent to 10,77 lbs. butter: milk 291.75 lbs. Owned by 6. Norine De Kol (7807), at 2 yrs 10

ava Norine De Kol (7607), at 2 yrs. is mos. 25 days of age, 284 lbs. fat equivalent to 9.97 lbs, butter; milk 33.29 lbs. Owned by A. H. Teeple. Curries. Violet Lutske Gem 16645; at 1 yr. 11 mcs. days of age, 2.30 lbs. fat. equivalent to the butter; milk 29.14, Owned by De C. Y. Chille Ress. (795).

D. C. Fiatt & Son,
Dandy De Kol's Bess (7935), at 2 yrs. 6
mcs. 8 days of age, 8.08 lbs, fat equivalent
to 9.45 lbs. butter; mill: 205.2. O sn d by
Thos. Hartley.

Thos. Hartley.

RECORD MADE EIGHT MONTHS AFTE3

CULVING

Queen Butter Baroness (7652), at 2 yrs 33
days of age, 7.34 lbs. fat, equivalent to
257 lbs. butter; milk 1552 lbs. Owned by
M. H. Haley, Springford, On.
G. W. CLEMONS, Serre arg.

COW TRANSFERS FOR MAY, 1909. (Continued from last week.) e publication of these transfers is for by the Holstein-Friesian Breed-Association:

COW TRANSFERS FOR MAY, 1909.

COW TRANSFERS FOR MAY, 1999.
Pontiale The Roll H. B. George to R. J.
A. F. Clark Toole R. G. H. B. George to R. J.
Bul in, Liecknow, Ont.
Posch Beets Flower, C. J. Gilroy to D.
Cosch Beets Flower, C. J. Gilroy to D.
Cosch Beets Flower, C. J. Gilroy to D.
Cosch Beets Gunger, C. J.
Cosch Beets Gunger, C. J.
Cosch George Rice
Level Callamity, 1999.
Poly Company Company Company
Poly Company Company
Poly Compa

to W. H. Bushby, Keston, Man.
Princess Belle De Kol Korndyke, Thomas
Hartley to William T. Hood, Buttonville,
Princess Calamity Cody, George Rice to
W. A. Patterson, Agincourt, Ont.
Princess Calamity Foat, George Rice to
W. A. Patterson, Agincourt, Ont.
Princess Mollyone, Hen's McGuire to
Wesley McKay, Mabee, Ont.
Queen Ran Spotted Lady, Samuel Lense
Gueen Ann Spotted Lady, Samuel Lense
Gueen Man Spotted Lady, Samuel
Gueen Mindleman Man Lense
Gueen Man Len

August 12

PRINCE E KING

CARDIGAN.-C CARDIGAN.—Conthe exception of usual, owing to the summer. Facutting hay. On are the best cropyears. The when it has escaped to contain which are the best cropyears. or grub which g of the wheat and breaks down. M up sowing wheat up sowing wheat oats instead o.1 ground Oats are wheat, \$1.50 to \$ potates, 25c to \$250; milch cows, to \$4; butter, 18c dozen: cheese 12 having nice warn

COMPT WATERVILLE .of a crop compare and root crops a but the country is A shortage of was last autumn is fe tery plentiful can

0

pasture lands, co-milk has diminishe COMPTON CENTY now is about finished havi started. Hay will half a crop. The grasshoppers and t than anything else done to kill them. season for tame so man picking over 1 patch. More atter money makers. One has seven acres of cured well he will continues high being

3% to 4c; butter 19c a doz.-H. C. ON'

HASTING ELDORADO,-Owin fall clover all killed half a crop of hay oats, peas, corn, bearoots, look fine, and Late sown turnips and some did not co wheat is no good. (by well.—F. A. C.

ACTINOLITE.-Far ACTINOLITE.—Far their hay. The hay grown wonderfully drain promises to b Pasture was getting the dry weather, and been small. Small berries, huckleberrriar going to be plei looking very good, by another hard winter.

CRODESTON.—The.

CROOKSTON.-The since the 10th of July ful improvement in t try. Timothy hay h siderably, making the than expected. The cing as fresh as in the are looking fine, thou long. Barley and fall

flavor. The plug chewing

OUR FARMERS' CLUB well. Hogs are bringing se a lb., the high eat price shippers ever paid in this section. Cheese is 11%e; eggs. 18e; oats, 550 a bush.

PRINCE EDWARD ISLAND KING'S CO., P. E. I.

CAEDIGAN—Grops are looking fine, with the exception of hay, which is lighter what the exception of hay, which is lighter what the property of the property of

COMPTON CO., QUE.

COMPTON CO., QUE.

WATERVILLE.—Hay is shout two-'hirds
of a crop compared with hast year. Grain
and root crops are 'posking farly' well,
but the country is bed'y in need of rain.
A shortage of water similar to that of
a shortage of water similar to that of
year plentful causing of the property of the
posture lands, conveniently the mile has
distributed a great ceal—J. M.
COMPTON CREWITE.—The relicely is 14th.

COMPTON CENTRE. — The principal talk just now is about the hay crop. Sore have finished haying, and others are just started. Hay will not be much more than half a crop. There is a great res. of grashoppers and they are destroying grain. grashoppers and they are a reveal (see of grashoppers and they are dread) reason and they are wree than anything else because nothing car be done to kill them. It has been a great the second of the second second as a small patch. More attention sheets of a small patch which will be a serven acres of tobacco: if he gets it could well he will do well on it. Pork are seen as seven acres of tobacco: if he gets it could well he will do well on it. Pork are seen to be seen as seven acres of tobacco: if he gets it could well he will do well on it. Pork are seen as the seen as th

ONTARIO

HASTINGS CO., ONT.

ELDORADO.—Owing to the drought last fall clover all killed out and we have only half a crop of hay. Barley is light, but oats, peas, corn, beans, potatoes and early roots, look fine, and are growing rapidly. Late sown turnips were eaten with files, and some did not come up until after the and some did not come up until after the late rains. Late sown grain look: well. Fall wheat is no good. Cows are milking fairly well.—F. A. C.

ACTINOLITE.-Farmers are bus; ACTINOLITE.—Parmers are busy with their hay. The hay crop is light but it has given wonderfully since the late rairs, given wonderfully since the late rairs, the district of the late rairs of the late of the pasture was used to be a fairly soon of the the dry weather, and the flow of omits to the dry weather, and the flow of omits to be small. Small fruits used has reap-beries, huckleberries and blackberries are going to be plentiful. March hay is are going to be plentiful. March hay is one of the late of the late of the late of the late of the another hard with the sound are afraid of another hard with the late of the late of the late of the GOONSTON.—The above the

able for Watch richness and pleasing flavor. The big black plug chewing tobacco.

NORTHUMBERLAND CO., ONT.

NORTHUMBERLAND CO., ONT.
EDVILLE.—The late bountful rais a were
quite beneficial to the growing crops, although they came too lete for the hay
evo. One farmer turned his cows into a
proposed method of seven or right acres
production up. It as cut to keep the si'lk
production up in the cut to keep the si'lk
production up the single production up to the complex
from the comment of the cut of t

The fly has damaged the turnip crop to some extent. Pasture has been pretty well dried up; since the rains bowver things have put on a different appearance, and the milk is coming up to what it was before the dry weather set in.—A. G.

VICTORIA CO., ONT.

LMNBAY — A short description of my reckceping operations from the beginning of the season up to date might be of inter-cest. My beautiful and the season up to date and fith. Winter operation was also shall be and fith Winter loss was less than 1 of Mount, though April and the first half of Mount, though April and the first half of Mount, the was very unfavorable. There was very intitle brooding even in the strongest colonies. The fruit and dandellon bloom came very late, commencing about May 24th; they brooding commenced in earnest. The fruit bloom lasted only a few days, and they was the distribution of the days. The fruit of the days were fed; this I did for about ten days. Extracting supers were put on LINDSAY. - A short description they excuse not make any progress unless they are the his I did for about ten days. Extra this I did for about ten days. Extra this I did for about ten days. Extra the 15th. The white hones was all about the 15th. The white hones was all about the 15th. The white hones was all about the 15th. The white hones was about the waster to be a second that I ever remember. The white season that I ever remember. The white season that I ever remember. The white season that I ever the horse the high the waster should after hone crop. We may so that the work of the waster should also with other breakeners, we decided that our bees were exheat. Comparing notes with other breakeners, we decided that our bees were exheat. One paring the waster than the wa

WATERLOO CO., ONT.

WATERIOO CO., ONT.

WATERIOO The season has been very favorable for cur cross. In the relation of the control o

MIDDLESEX CO., ONT.

TEMPO.- Crops have suffered for lack noisture. Wheat was never letter if boking very good, but some are afraid of another hard winter—J. Kr. CEOOKSTON.—The change of weather since the 19th of July has made a worder-ful improvement in the source of the state of the since the 19th has had a worder-ful improvement in the led end of the state of the sta

HURON CO., ONT.
GODER'CH.—Plentiful rains since July GODER CH. - Pientful rains sive J by
tith, have turned a mean product for
grain crops into a mean products for
grain crops into a mean product for
grain crops into a mean product for
frose crops of which little was expret di
earlier in the season have lengthened out
and will be nearly an average crop. Haydearlier on the season have lengthened out
and will be nearly an average crop.
Haytitle some fields were exceptionally good,
others light. Other grains have not yet
commenced to change color. The avail
commenced to chan

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 Toronto 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

\$7.90 a Cwt.

THE GEO. MATTHEWS CO., LIMITED

PETERBOROUGH, -

HULL, - BRANTFORD

cultivated orchards, give promise of heavy crop.-D. G. 8 MUSKOKA DISTRICT, ONT.

MUSKOKA DISTRICT, ONT.
HUNTSVILLE.—Hay is considerably below the average, especially on light or sandy soil. The recent heavy rain has example the grain crop from serious damage of molstrer. Judging by the appearance of molstrer judging by the farmers will harryeave grain field the farmers will harryeave grain field the farmers will harryeave grain field the farmers will harryeave property of the property of the serious property of th farmers will harvest conticerably more than they have the past two years. The grasshoppers, which have been so distru-tive in the past are not nearly as plenti-ful, and have almost entirely left some parts. The root erop is looking well, and good results are expected.—F. R. B.

ALBERTA

STRATHCONA DISTRICT, ALLA.
BURNT LAKE. — Dairymen in this "Land
burnt Lake." have reason to be happy.

Associations We BUINT LAKE. Dairymen in this "Land of Sunshine" have reason to be happy. Good growing weather grass and promise of a bountful harve are abundance grass and promise of a bountful harve meaning the groot make of butter grass are steady. Cheese business is innered as the growing that the state of the grass of the grass

BRITISH COLUMBIA NEW WESTMINSTER DISTRICT, B.C.

NEW WESTMINSTER DISTRICT, B.C.
MATNGUI.—8b.neery weather during July
has resulted in heavy grain crops. In
many cases crops are hadly lodged. Hoose
and pastures are deing well. Sweet cream
withing July trought (4) a bir for butter fat.
Type a gallon. These
prices are in the Type a gallon. These
prices are in the million stream shippersy association and city dealers—P.

GOSSIP

THE GREAT LIVE STOCK EXHIBITION. THE GREAT LIVE STOCK EXHIBITION.

The management of the Western Fair, London, Ont. are putting forth eirs of forts this yet, which was the chibition more popular has one of them are they giving more attention of them are they giving more attention of them are they giving more attention to the live of the property of

to the purses.
In the cattle \$500 has been added to

Sylvia Flower, C. J., Gliroy to D. C.
Flatt & Son, Millgrove, Ont.
Teake May, R. R. Bon, G. George H.
Caughell, Middlemarch, Ont.
The Bond of the Control of

G. W. CLEMONS, Secretary,

Renew Your Subscription Now.

THESE FIELD GLASSES FREE

How often a farmer can make use of a good field gia. Roses something at the other end of the Ha sees something at the other end of the Ha sees women's make out what it is. He can see when the walking the length of the farm if he has a him on a holdings. He can take them with him on a holdings. He can take them with his trip. Every farmer should hove really left the triple of the triple of the triple of the Perhaps you do not feel like spending the low We can stair just now. You do not need to. We can supply them Prece of Cost.



Not times.

Send us a club of only Ten New Subscriptions each taken at \$1.00 each and the glasses will be sent you Free of Cost.

Write for some sample copies and get your neighbours to subscribe.

Circulation Department

FARM AND DAIRY

PETERBORO - ONT.

Note—We have a large number of other use premiums to offer in return for securing New Sa scriptions. Write for our New Premium List

MARKET REVIEW AND FORECAST

Toronto. August 9th. 1996.—The continued good prospects for the Northwest wheat crop is having its effect on business which begins to show considerable improvement. The feeling regarding the future is more hopeful. Paper falling due on August 4th. The feeling regarding the future is more hopeful. Paper falling due on August 4th. The feeling regarding the future is more hopeful. Paper falling due on the future is more about the future of the futur

WHEAT

WHEAT

Wheat prices are gradually coming down
wheat prices are gradually coming down
as more authoritie reports from this sea,
son's crop come to hand. The America
con's crop come to hand. The America
con's crop come to hand. The America
covernment report, which is expected to
be issued this week, is like'y to further
weaken values, as it will show a larger
weaken values, as it will show a larger
weaken values, as it will show a larger
there are certain an a month ago. Then
there are certain an amonth ago. Then
there are certain and the sea to get their supply as cheaply as possible
to get their supply as cheaply as possible
to get their supply as cheaply as possible
ators are endeavoring the certain manipulators are endeavoring the certain manipulators are endeavoring to a much wheat
as they can just now. Cable reports at
the end of the week were very weak and
the end of the week were very weak and
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COARSE GRAINS

COARSE GRAINS

The cat market is easier expecially for western oats. There are few old Ontario coats to te had. The new crop will, he ever be on the market shortly. The Onever be on the market shortly. The Onever be on the market shortly. The Onever have been shortly on the carly sown fields will turn out well, but he carly sown fields will turn out well, but leading to the carly sown fields will turn out well. In the carly sown fields will turn out well, but carly sown fields will turn out well. In the carly sown fields will turn out well, but the carly sown fields will turn out to the carly sown fields will be carly the carly the carly sown fields will be carly the carly sown fields and will remain market shows no change on the market. On Toronto farmers market coats sell at \$6 to 56c; bards at \$6c to 56c abush.

FEEDS

FFFDS

FEEDS
The demand for mill feeds is limited and the market is easy without however any change in prices. Dealers here quote Mani-toba bran at \$20 to \$21 and shorts at \$23 to \$21 and shorts at \$23 to \$21 and shorts at \$25 to \$21 and that to \$21 and shorts at \$25 to \$25 and shorts at \$25 to \$

EGGS AND POULTRY

EGGS AND POLITRY
The egg market continues firm under
light receipts and a good deemad. Montreal dealers have been paring 20c cased
here for eggs at country points. Eggs are
quoted here at 22c in case lots. On Toronto farmers' market eggs sell at 25c to 27c
a dozen; dressed chickens at 21c to 23c;
young fowl at 13c to 15c; ypring ducks at
12c to 18c; old fowl at 14c to 13%c and
turkeys at 18c to 20c a 1b.

urrkeys at 180 to 200 a bb.

FRUIT

Nova Scotia will have a big apple crop
this season. Greeke ti will be a light
one. The Ontarto quebe ti will be a light
one. The Ontarto quebe to the state of the
same as last year. Offers of \$1\$ about the
same as last year. Offers of \$1\$ about the
same as last year. Offers of \$1\$ about the
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same as last year. Offers of \$1\$ about the
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same as \$1\$ about the same as \$1\$ about
to 11c, and \$1\$ about the same as \$1\$ about
to 11c, and \$1\$ abou

DAIRY PRODUCTS

DAIRY PRODUCTS
The continued dry weather is shortening up the milk supply at many cheese factories and the milk is rapidly going down. The market during the week shows tiltle change over a week ago. At the local cheese boards cheese sold at 11%c to 11%c a th. Dealers here quote new cheese incel cheese boards cheese ago. At the local cheese boards cheese sold at 115c to 15c at b. Dealers here quote new cheese at the local cheese and 125c a b for twire. Butter and 125c a failing off compared with a year ago. To failing off compared with a year ago. To failing off compared with a year ago. To failing off conserver on iderable held stocks to fail, that the market will not be much affected for a time. The market here is casy and the wholesale demand is net strong. Dealers here quote choice cramery prints at 25c to 26c; choice dairy prints at 15c to 15c; and choice tubs at 18c to 19c a th. On Toronto farmers' market choice dairy sells at 25c to 25c and ordinary at 19c to 25c a b. Woot.

WOOL

WOOL.

This senson's wool crop is now well out of farmers' hands. Quotations at country points continue at 22s to 24s for washed. asc to 145s for unwashed, and 17s. a lb for rejects.

HORSE MARKET

HORSE MARKET
Dullness continues to characterize the
horse market. Last week about 50 herses
were sold on the Horse Erchunge. We-tle
Teronto. There were more heavy dr f's
good shipment of a chis season. One
good shipment of a chis season. One
west. Prices range about as follows: Heavy
drafts, 375 to 5209; general purpes. 830 to
8300, drivers and carriage horses, 855 to
820, with speeders up to 8275, and service
abily sound at \$55 to 569 each
ship sound at \$55 to 569 each

LIVE STOCK

LIVE STOCK
The cattle market has ruled firm all week
with prices higher, especially for choice
quality. Receivs ruled fairly large with
choice butchers' cattle scarce. On Thursday at the city market all choice stuff
was quickly picked up. Other quality was
also of sale.

At the Union Stock Yards on Tuesday

The corn market is quitet. If the weather continues favorable Ontsrio will have a good corn crop though planting was late. HAY AND STRAW

The hav merket continues steady at about 13st every strain of the strain o

INCORPORATED 1888

and Surplus \$6,350,000

of Canada

Assets \$34,000,000

You would find it very convenient to have a Joint Deposit Account with this Bank, in the names of yourself and your wife, or son. Then either could do the necessary banking when in town, depositing or withdrawing money on the one signature. It would save you many a trip on busy days. \$1 opens a Savings Account THE BANK FOR THE PEOPLE

One of the 80 Branches of this Bank is convenient to you. Your account is invited.

at 8: to 8:50 a cwt.

The hamb market has improved somewhat is market big frop of a week ago. The sheep has been the same cwess selling at 83:50 to 8 ac wt. On Thursde James were firmer and sold at 85:55 to 8 ac wt. On Thursde James sell at 55 to 8 ac cwt.

The hog market Pad an easier ione at the end of the week with selects fed and watered on the market here quoted at 8:10 to 8:15, and 87:25 to 8:70 f.o.h, at country points. Buyers here predict a drop of 25c

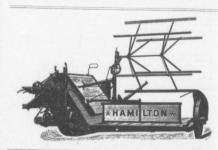
The market for veal calves holds steady. in this week's prices. Hogs sold at so quotations rule at \$5 to \$559 a cwt. On country points in western Ontario is reven at \$8 a cwt f.o.b. The supply of he at \$6 to \$6.50 a cwt. country points in western Ontario last week at 88 a cwt f.o.b. The supply of hogs week at \$8 a cwt f.o.b. The supply of log-in the country does not apear to be in-creasing very fast though prices are high-the Trade Bulletin's London cable of Aug. The Trade Bulletin's London cable of Aug. The Bulletin's London cable of Aug. The Bulletin's London cable of Aug. In the London cable of Aug. In the London cable of Aug. In the London cable of Aug. Demmark. Arrivals from the continent of day and to-morrow heavy. Canadian bacon. 67 to 71s."

PETERBORO HOG MARKET Peterboro, Aug. 7, 1909.—The deliveries of Danish hogs on the English markets last week were 33,000. The demand for bacon

Season Almost Over

Take advantage of this fact. We have a few Binders left of our large stock, and why not enjoy harvesting your crop with a

HAMILTON BINDER



E ARE SURE you will appreciate having an up-to-date machine that will meet the requirements of a long or short straw. Our price will be of special interest to you, owing to the reduction in stock.

Remember we guarantee our Binder.

CALL ON US

WRITE TO US

THE PETER HAMILTON CO., LIMITED PETERBORO, ONT.

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

in the old coun week. The deliv kets are very lig The George Matt lowing prices for f.o.b. country poi off cars, \$8.15; de MONTREAL

Montreal, Saturdis very little to sa The position remarkare still small and demand to absorb from the country tained. Quotation a cwt. for selected There is a good hogs, and the dewell maintained. abattoir stock at

EXPORT BUT Montreal, Satur-market for cheese with a slow demashipping orders by tween. The small ing was probably England at the by the first Monday nized as Bank Hol nized as Bank Hol quence very few c on Monday and the until towards the the demand impro-amount of busines ranging from 11%ce finest cheese, the for finest Ontario ; The prices paid in ranged from 11%c to of the offerings sell the ruling price a

the ruling price a fhis shows a sligh prices paid last wee as 11 9-16c, and in the slightly easier the trade here. Th of the small deman continued heavy re as much interest a and are operating country in anticipa prices in the near The make of chee prices in the near
The make of chee
and there is every
crease in the outp
August as compare
bably amounting to
from all sections of

from all sections of effect that pastures condition and the fl up well. Receipts of up well. Receipts of the section of the se should come to pass should come to pass be left in a much n tion, with holders n future. There is a l ter in store in Mor have a demand for swell to record dime

FOR SALE AND W TWO CENTS A WORD

FOR SALE,-20 H. P. working pressure. M working pressure. A good as new, can be will be sold cheap, stock, Ont.

FOUNTAIN PENS, 14 retarn for one new to Farm and Dairy Dept., Farm and D

PURE BRED PIGS.—I give away, in return iy subscriptions to Write Circulation De Dairy Psterboro.

CORRECT

Five Lessons in Le hundreds, for \$1. Wr kinds of letters, invi sinds of letters, invi-detitious names, on pr-81. Lotters will be ret-rected, with advice f-worth the whole fee, al-more sets of letters su. This instruction is give correspondence teache-mortified or expose y-or disgrace by wron, poudence? No after age. Address Seif He Springfield, Mass.

in the old country is better than last week. The deliveries on the local mar-hets are very light and the demand poor. The George Matthews Co. quote the follow-tic devices the control of the control of the color of the control of the control of the control color control of the control of the control of the control off cars, \$8.15; delivered a hastion, \$7.50.

MONTREAL HOG MARKET

MONTREAL HOG MARKET
Montreal, Saturday, Aug. 7, 1999.—There
is very little to say about the hog market. The position results are still small and defended to the same state of the same state of

EXPORT BUTTER AND CHEESE.

Montreal, Saturday, Aug. 7, 1999.—The market for closes this week opened quiet with a slow demand from the other rido, shipping orders being few and far beating to be succeeded by the control of trade passing was proposed and the best being the bildays in England at the beginning the bildays in large state of the control o EXPORT BUTTER AND CHEESE.

ranging from 11/9c to 11/5c a 10 here for finest cheese, the top price being asked for finest Ontario goods.

The prices paid in the country this week The prices paid in the country this week of the offerings selling 11/5c a lb, the built of the offerings selling 11/5c a lb, the built of the offerings selling free the country of the box of

prices in the near future. The make of cheese is keeping up well and there is every indication of an increase in the output for the month of every five the process. The output for the month of the process of the output for the month of the first process. The process is a superscript of the process of the country are to the effect that pastures and herds are in fine condition and the flow of milk is keeping up well. Receipts of cheese into Montrai proports from the countrain the proports from the proports from the countrain the proports from the p

FOR SALE AND WANT ADVERTISING TWO CENTS A WORD, CASH WITH ORDER

FOR SALE,—20 H. P. Engine, with 200 lbs. working pressure. Made in United States, good as new, can be seen at our factory, will be sold cheap.—Hay & Co., Wood-stock, Ont.

FOUNTAIN PENS. 14 K. GOLD—FREE IN retarn for one new yearly subscription to Farm and Dairy. Write Circulation Dept., Farm and Dairy, Peterboro. Ont

PURE BRED PIGS.—Not for sale, but to give away, in return for seven new year ly subscriptions to Farm and Dairy. Write Circulation Department, Farm and Dairy Peterhore. Cont

CORRECT LETTERS

Five Lessons in Letter Writing, wo hundreds, for \$1. Write us five differ kinds of letters, invitations, etc., sign inde of letters, invitations, etc., siming without mans, on proper page. Enclose cited, with advice for private practice, and the state of the state o

Finest creamery butter is selling today Senator in securing such a fine lot of Finest creamery butter is selling today at 220 to 22½ a lb. here and the domand even at these low prices is limited to the immediate requirements of the local trade. The country n.arkets are expected to sell at 2½ to 21½. At about 21¢ there should be a good trade done with Great Britain.

monmon

AYRSHIRE NEWS

Farm and Dairy is the official or-gan of The Canadian Ayrshire Breeders' Association all of whose members are readers of the paper. Members of the Association are in-vited to send items of interest to Ayrshire breeders for publication in this column Farm and Dairy is the official or-

NOTICE TO AYRSHIRE BREEDERS

Gentlemen,—I beg leave to inform you that I have just received a ruling from the Live Stock Commissioner, Dr. J. G. Ruthe-ford, Dept. of Agriculture, Ottawa, follows

as follows:

"It has been found necessary, in order to secure authentic records of all cows over in the Record of Performance Test, or the second in the Record of the Rec

W. F. STEPHEN, Sec. Treas. Huntingdon, Aug. 2, 1939

SENATOR FORGET'S AYRSHIRES Ste. Anne de Bellevue, Que, is fast be-ceming a noted centre in the old Province of Quebes for its great agricultural insti-ution, the Macdonald College, with its uililing and farm. We find here also a public of the farms and some sulendid of Que'es for its great agricultural testitution, the Macdonald College, with its
builtings and farm. We find here also a
to of the farms and some splendid
herds of the farms and some splendid
herds of the farms of the river sock. One
of the largest farm of the river sock.

The splendid herd of Ayrshires and Xsplendid herd of Ayrshires were
deutivation. Builtings are up to date, commodius and sulfiture
and in the commodius and the com

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Offers four grandsons of Pietertje Hengerveld's Count De Kol. champion buil of
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FOR SALE A Choice one-year-old Bull

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great Barchestle and. I am of the at the
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formales of all ages. Cove with milk
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When a BOY and Three Horses can do More (and better) Plowing in a day than two MEN and FOUR Horses

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The Beaver Gang is the Steadiest and Smoothest-running Plow EVER Built



"BIRD'S-EYE" VIEW OF THE GANG-PLOW THAT CUTS TWO FURROWS EASIEST On the roughest ground whatever the soil, the Beaver Gang cuts every furrow the same depth and width, once adjusted by the Adjustable Frame and New Fine-Adjustment Ratchet. The Land-Wheel, being unusually large, carries the plow smoothly over bumps that would jolt an ordinary plow's bottom clear out of the ground. Also, the Cushion Spring on the land-wheel's asle arm takes up shocks and coheussions, makes it easy for the driver and saves the tram lots of strains and jerks.

A mere boy, untrained in plowing, can readily handle this twofurrow gang with three horses, as all the levers are fitted with "helper" springs and so require the merest slight pull to set the bottom for depth, the frame for width, or to lift the bottom clear of the ground.

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Note the great strength of the frame the picture, a top view, shows the bracing and rigid construction that makes the frame fit to stand stresses that would wreck a plow built less staunchly. Note, too, the easily adjustable hitch, quickly changed for three or four horses as needed.

The COCKSHUTT LINE built right to farm right, includes not only more than 120 styles of plowsranging from light garden plows to huge 12-furrow engine gangs - but also all styles of seeders, cultivators, and harrows. Write us for details of the kind of implements the business farmer ought to buy this season.

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