

VOL. XXX.

AND

RURALHOME

PETERBORO, ONT.

AUGUST 17



WELL BRED, WELL SELECTED, AND WELL FED CHICKENS THAT ARE VERY PROFITABLE These birds were hatched this season, and were photographed by an editor of Farm and Dairy on June 30th. Note the excellent growth these chickens had made at that time. They are part of a flock of some 350 Buff Orpingtons kept by Mr. W. G. Rennie, a 100-acre farmer, of York Co., Ont. Mr. Rennie goes in for winter egg production, selling the eggs to the Toronto market. The hens are never kept over the second season. They are sold during June, when they realize from 16 to 18 cents a lb., live weight.

> DEVOTED TO BETTER FARMING AND GANADIAN GOUNTRY LIFE

There is a Difference in CREAM SEPARATO

SOME farmers have an idea that all Cream Separators are alike. Because the machine they are using is not a success they conclude that there is not a better machine and that they will "just make it do for a while."



Showing extreme simplicity of driving gears one pair bevel gears, one pair spur gears, showing also the inclined intermediate shaft, a new and evclusive "Simplex" fea-

There are many kinds of Cream separators, some are almost useless, some "pret-ty good," but there is only one make that will give entire satisfaction no matter how difficult the test. The "only" machine

The Simplex Link-Blade

This is because it is the only machine having the LINK-BLADE Separating device and the SELF-CENTERING BOWL. These two features alone make the machine superior in construction to any other machine. But! there are other points of excellence about the machine that are just as important, with the result that the SIM-PLEX is a machine of life time-lasting value. Our new Booklet is brimful of Separator facts and is free for the asking.

Head Office and Works: BROCKVILLE, ONT. Branches: PETERBOROUGH, ONT. MONTREAL and QUEBEC, P. O. WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS

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BOOK DEPARTMENT

Farm and Dairy PETERBOROUGH, ONT.



Will dig your crop with your own two Write for our 1911 Catalog of Prices

CANADIAN POTATO MACHINERY CO. LTD. 127 Stone Road, Galt, Ont.

A P. E. I. Cow Leads the World rotation of crops, use

A two-year-old Avrshire heiter, Milkmaid 7th, owned by MacRae & Milkmaid 7th, owned by MacRae & Sons, East Royalty, P.E.I., on Aug. 2 commenced her year test in the Record commenced her year test in the Record of Performance, in which test she qualified with a milk production for the year of 11,606 lbs., having an average percentage of fat of over 4.4. This is said to be the world's record, the distinction having been formerly held by "Hazel of Sandfecord, the distinction having occa-formerly held by "Hazel of Sand-hill," owned by Carr & Son, Al-monte, N.Y. This animal in one year gave 11,078 lbs. of milk; thus the McRaes' heifer has a lead of 618

The heifer Milkmaid 7ti is remarkable for her persistency as a milker more than for any great flow of milk in any one day. Her largest record the gave Loyol by the largest record the gave Loyol by. One last day of her test (Aug. 7th) she gave 20 lbs. At the beginning of her test (Aug. 3, 1910), she was two years. 226 days old.

The Canadian record has been held by "Speck of Springbank," owned by A. S. Turner & Son, of Ryckman's Corners, Ont. She commenced her test on September 3, 1909, and was then two years, 319 days old; she save in the year 10,353½ lbs. milk, with an average per cent, of fat of The heifer Milkmaid 7th is remark-

with an average per cent. of fat of 4.20

Farm and Dairy, in its Special Ex-hibition Number, August 31st, will have more to say about this new world-leading cow

How a Farmer Loses by the Tariff

"I am in favour of the trade agreement," stated Mr. Jas. McEwing, of wellington Co., Ont., recently, "for two reasons I will illustrate: During the 12 months just past I sold off my farm 30 tons of hay. It was worth to me what it was worth in the New York market, less the pressing chares, the freight charges and the dutses, the freight charges and the outy. The first two charges were legitimate. The third, of \$4 per ton on every ton before it entered the United States, was just that much taken from me and paid into the United States leasury. If there was no tariff on that hay there was \$120 that would have more just my neglets.

that hay there was \$120 that would have gone into my pocket.
"I have at the piesent time 33 acres of barley on my farm; averaging it at 39 bushels an acre there is a crop of 1,000 bushels, for which the United States at present charges 30 cts. a bushel before it can enter the country. The United States Government levies a toll of \$300 on my 1,000 bushels of barley. There is a total of \$420 levid by the United States on my produce which the trade agreement will remove. Even taking it for ment will remove. Even taking it for granted that all of that amount did not come to me, at least half of it would, and that is an amount worth while for the average struggling farmer"

Lands, Fisheries, Game and Minerals

A valuable publication has just been issued on "Lands, Fisheries, Game, and Minerals," by the Dominion Comand Minerals," by the Dominion Com-mission of Conservation. The book is a large volume of some 525 pages, sub-stantially bound in cloth and fully illustrated throughout with maps, diagrams, and two-color photo en-gravings. It represents a great deal of exacting seearch work, ard makes available to the average ms a mass of instructive and entertaining infor-mation of berwice unobtainable by him.

The section devoted to lands de-ser hea the agricultural survey of 100 representative farms in each province, made by the Commission of Conserva the condition of agriculture is in Canada. Some of the subjects on which information was obtained are; Hea'th Inspector.

rotation of crops, use of numurs, prevalence of weeds and insect pets, water and fuel supply and the use of selected seed. One of the striking facts revealed is that not more than nine per cent. of the farmers of Canada follow any intelligent and effective rotation of crops. By the adoption of more accentification. effective rotation of crops. By the adoption of more acientific methods, which could readily be put into effect, it is estimated that the field crops of the country could be doubled in 20 years. The report is repliet with agricultural information, valuable because it is not hearsay, but a statement of actual facts accountifically observed that the country of the c ment of actual facts scientifically ob-tained by men in the field. An ar-ticle on Agricultural Production in Canada indicates just what each pro-vince has produced of field crops, frug-and live stock since 1891, and also gives crop areas and comparative rup-yields.

The book may be had on applica-tion to Mr. James White, Secretary of the Commission, Ottawa, Ont

Pointers for Dairymen

A cross dog has no place in the ciry. He is worth more dead than dairy. alive.

It is a mighty poor cow that will

Prize Farms Awards . The relative standing of those & farms in Ontario entered in the Interprovincial Dairy Farms Prize Competition has been prepared by the judges and is ready for publication. As yet Farm and Dairy has not received the awards for those farms of Quebec province entered in the com-petition. The judges have completed their work of Judging in the Agricultural Merit Competition conducted by the Quebec Covernment but have been so busy they have not as yet had an opportunity to make their report.

The report is expected shortly, when all the awards will be nounced in Farm and Dairy at the same time.

not respond to good care, good feed ing, and comfortable surroundings.

In order that the dairy may be of the highest financial success most the feed must be raised on the farm.

. . . The man who makes a success of dairying is kind to his family. See the connection? Well, it lies in the fact that the man with a kind distant that the man with the wi fact that the man with a kind disposition is most successful in handing cows.

Items of Interest

The Ontario Department of Agn culture will occupy a tent in the same locality on the Canadian National Exhibition grounds as for Exhibition grounds as for playears past. Representatives of the various branches will be in affect ance throughout the exhibition tool to consult with farmers and other who are interested in the work of the Department.

Alex. Hazelitt of Adolphustown.sz charged at Napanee recently with a legal packing and marking of apple The complaint was laid by Inspect Brown on the grounds, that the ap-ples, when inspected at Montro ples, when inspected at were found immature, w largely culls. Hazelitt pleaded guard was fined. There has been ag teal of complaint this year about shipment of green, immature app a practice which seems to be on increase every year. Apriles I been sold in Ottawa stores w should have been condemned by

Issued Each Week

Vol. XXX.

Facts in Connection Which will

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RECENTLY rec of growing ere From it I lear: farmer 54.9 cents I presume that thi figures are interest by some Farm and figuring as to how COST O

Number of replies nt rest and taxes (o Ploving . Barrowing Disking Seed Interest and depreciat

Total cost per acre ... Yie'd per acre Cost per bushel Our conditions be are in Nebraska, th merely in setting fo

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to grow a certain c It is generally held ing in Ontario is a ment is true in a se cently issued by the that in 1910 Ontari of wheat. It is evi is still of considerab a little discussion.



The Government Ex and varieties of crops al bilities of agriculture in

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Only \$1.00 a Year

Vol. XXX.

FOR WEEK ENDING AUGUST 17, 1911.

No. 33

A DISCUSSION OF THAT OLD STANDBY -THE FALL WHEAT CROP

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

Facts in Connection With Several Phases of the Subject of the Fall Wheat Crop are Set Forth in This Article Which will Prove interesting and Valuable in Assisting Farm and Dairy Readers Who Grow Fall Wheat to Decide How Much Wheat to Grow and How to Grow It.

RECENTLY received a bulletin giving the cost of growing crops in the state of Nebraska. From it I learned that it costs the Nebraskan farmer 54.9 cents to produce a bushel of wheat. I presume that this cost is for spring wheat. The figures are interesting and they may us welcomed by some Farm and Dairy readers who are now figuring as to how much fall wheat they had better sow.

COST OF GROWING WHEAT

Number of replies	139	1910 150 85.099	Average. 289 84,780
Ploving	1.273	1.272	1.272
Harrowing	.285	.279	.282
Disking	.443	.404	.423
Seed	1.461	1.342	1.401
Seeding	.453	.388	.421
Harvesting Interest and depreciation on	2.456	2.110	2.283
machinery	.505	.67.5	.595
Miscellaneous	.727	.734	.734
Total cost per acre Yield per acre	\$12.067 22.9 hus	\$12.313 21.6 bus	\$12.188

to grow a certain crop.

It is generally held that the day of wheat growing in Ontario is a thing of the past. The statement is true in a sense, but I saw by a report recently issued by the Commission of Conservation that in 1910 Ontario produced 17.805.000 bushels of wheat. It is evident therefore that the crop is still of considerable importance and worthy of a little discussion.

While fall wheat is perhaps not the most profitable crop we throughout Western Ontario can grow, I am convinced that it is advisable on many farms to prow the crop notwithstanding; a "khough it is advisable to grow it only in limited acreages.

A few acres of fall wheat fits in well with the general system of farming as practised in our district. We sow fall wheat after barley, sometimes after oats or on a clover sod plowed after haying. On rare occasions we find it on the oldfashioned summer-fallow. The crop is seeded at a time when other farm work is not overly pressing, and with our fast working plows and the wide machinery so generally used, we put it in at much less expense than we used to in the olden days. The crop is then no further trouble, save for seeding to clover, until harvest time, which comes on early after having and the wheat is out of the way before the spring grains are ripe. It is therefore apparent that the crop fits in well with our farm work, and this is an important consideration in these days of scarce and highpriced labor.

OTHER ADVANTAGES OF WHEAT

It must not be overlooked that the crop is one of the best with which to seed down both with timothy and red clover. It also is usually very productive of straw, which is undoubtedly value around the farm as bedding and in increasing the supply of manure. We run the risk of winter-killing, it is true. But even should it winter-kill, we have lost only our seed, since the land is in good tith and with little cultivation

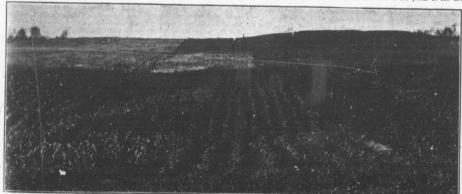
can be reseeded to a spring crop. There is always a ready cash market for wheat, though at times we consider the price too low; for these various reasons, probably this latter is one of the greater, wheat continues to be and is deservedly popular.

How much wheat to sow this fall is not a question for one man to decide for another. On 150 acres I usually sow from 25 to 30 to wheat and find that area about right. The price of wheat at the time of sowing is to many a consideration. It has nothing to do, however, with the price our wheat will bring next fall, although it has been my observation that when the price is low it is usually an ideal time to seed more than usual to wheat, since the average man proceeds on exactly the opposite tact.

SOIL PREPARATIONS FOR WHEAT

In preparing the soil for wheat I like to have it plowed as early as possible and worked down thoroughly so as to start the thistles and any weed seeds, such as false flax and chess, which are troublesome in the wheat crop. The earlier the land is plowed and the more cultivation it can be given the better will be the moisture supply and the better will be the germination of the wheat after it is sown. I like to seed it in ordinary years about from the 5th to the 10th of September. If the soil is in good condition and the moisture supply is right I would not mind sowing somewhat later, and if the Hessian fly is likely to be troublesome (i.e., if it has been troublesome this year), then it is well to sow later, even as late as the 25th of September, in which case we can miss the fly. I have read that it is well to trap the fly on strips of wheat sown in the field about the last week of August. These strips may be plowed under after the middle of September, in which case the "fly" already in the plants will perish.

I seed at the rate of six pecks to the acre; if



Where Some of the Problems of the Greater Ontario Settler are Being Solved for Him
Government Experimental Farm at Monteith in New Ontario, a portion of which is here shown, is designed to find out for the benefit of settlers what crops are best suited to conditions in that country. It is doing this the excellent crops arised on this farm have shown the great Dossion of agriculture in the Great Clay Bels and the desirability of New Ontario as a field for settlement.

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the soil was real fertile and in good condition, five pecks would be enough. I would not sow more than six pecks under any consideration and would much prefer to have any quantity over the bushel and a half thrown away than put it into the soil, since if sown too thickly the heads are

short and the yield is lessened.

Where there is more than usua! danger of winter-killing one is ill advised to sow wheat on land where water and ice will stand. The up-lying land, and soil of a limestone nature is the ideal for fall wheat.

MODERN AIDS TO MARKET EXTENSION FOR OUR FRUIT

Prof. J. W. Crow, Horticultural Department, O. A. C., Guelph, Ont.

Our Fruits to a Great Extent can be laid down Successfully in Distant Markets. Fruit to Carry Properly must be Precooled. Some facts set forth Concerning this Important Question

is significant that the factor which, more than any other, is influencing the development of Ontario's fruit industry is neither



Prof. J. W. Crow

variety of choice fruits, and a careful survey of the situation leads one to the conclusion that horticultural crops are destined to occupy a place of increasing importance in our agricultural economy. It can scarcely be charged that we do not produce enough fruit to supply

our local markets, but it can be truthfully stated

that production is not increasing nearly as fast as conditions would warrant.

The reasons for this too slow development of the fruit trade are to be found in certain conditions which from time to time are very strongly in evidence on our local markets. Every fruit grower is familiar with the disastrous results that invariably accompany what is known as a glutted market. That this unfortunate condition is to a very large extent preventable is the firm opinion of the writer, as it must be of anyone who will study the subject with reasonable thoroughness.

MARKETS OTHER THAN AT OUR DOORS

One hears the statement regretfully yet sincerely made that certain localities capable of producing large quantities of fruit are unable to dispose of it at a profit because "the market is always overstocked at the time our fruit is ripe." It is undeniable that production is often entirely out of proportion to the needs of local markets. Some of us have never thought, however, of endeavoring to secure other markets than those immediately at our doors, and while our wide-awake competitors appropriate to themselves markets which rightly belong to Ontario, we foolishly allow ou: fruit plantations to fall into neglect and turn to some other line of farming which seems to hold out better financial inducements.

EXTEND OUR MARKETS

Our most progressive shippers have hardly begun to realize the extent to which our fruits can be laid down successfully in distant markets. It may interest some to know that Ontario peaches (which are said not to ship well) sold in London, England, last season for 10 cents each, having landed there in excellent condition. It is some years since Niagara district peaches were first placed in Winnipeg market in perfect condition after a lapse of eight days, and it is regrettable that more attention has not been given by Ontario shippers to this phase of market extension.

Many Ontario fruit men still express doubt about the feasibility of placing our pears and even fall apples on the British markets, while the same classes of fruit are being continually and successfully disposed of in that market by British Columbia, Oregon and California shippers. These fruits are also deposited safely in English markets from points as far distant as New Zealand, Tasmania and Southern Australia, from which countries they are curried in cold storage for an ocean voyage of seven weeks' duration. In the face of these and of many more similar facts, can it be denied that Ontario producers have magnificent opportunities in the markets of our North-West and in Britain? Shall it be said that Ontario's fruit men are behind the times and unable to cope with problems which other countries are solving to their own very great satisfaction?

WHAT MARKET EXTENSION INVOLVES

This question of the extension of markets constitutes probably the most important problem facing us to-day. Its solution involves the planting in any given locality of special varieties selected with reference to their suitability for the market in question, as well as for profitable production in the said locality. It involves the planting of these varieties in quantities sufficient to guarantee bulk shipments. If growers are to reap for themselves the largest percentage of profit, it involves also the handling of the crop through a district selling organization controlled by themselves.

The key to the situation remains, however, to be discussed, and if recent unfortunate experiences can furnish any lessons which may point the way to better success in the future, it may be profitable to discuss them here. Peculiar weather conditions of the fall of 1909 hastened the ripening of the apple crop. Apples were picked, packed and shipped in unusually warm weather. As a consequence, fruit which under normal weather conditions would have reached Old Country markets in good condition, was received at Montreal in a slack and wasted state. Needless to say, ruinous prices were received when this fruit was finally disposed of in trans-Atlantic markets.

IMPORTANCE OF PRECOOLING

It is pointed out by Dominion fruit inspectors and others who examined the shipments, that the damage was done before Montreal was reached, and although cold storage facilities on the steamships were in very many cases taken advantage of, it was then too late to save the consignments. When one realizes that the temperatures taken at Montreal of the interiors of barrels ranged in some instances higher than 80 deg. F. and in very many cases over 70 deg. F., it will be plain that the statements made are correct. Many shippers suffered very seriously, and if their experience helps us to realize what handlers of perishable food products have long known, this lesson may be of value to us in the end.

It is an established fact that the most important period in prolonging the "life" of fruit, vegetables and flowers is the first few hours after picking; in meats, the first few hours after killing, and in dairy and poultry products, the short space of time immediately succeeding their production or manufacture.

PROLONGING THE "LIFE" OF FRUIT

Realization of the perishable nature of food products has led to very great changes in methods of handling these materials. Experienced shippers of this class of goods affirm most emphatically that immediate cooling is absolutely necessary in order to secure the greatest possible degree of keeping quality. High temperatures

favor the development of disease, as well as derimental chemical and physiological changes which result finally in decay, and the up-to-date shipper of perishable products simply proceeds to extract the surplus heat as quickly and economically as possible. Low temperatures prolong the "life" of fruits by retarding the progress of these diseases and the processes of decomposition. California fruit growers nave set many a splendid example to their fellow horticulturists, and in this matter of "precooling" they are again far in advance of most others. Large plants equipped with mechanical facilities for cooling air and circulating it through loaded cars are already in operation.

PRECOOLING IN CALIFORNIA

Some of the newer plants under construction in California will be capable of cooling from 20 to 40 carloads of fruit in four hours. They are located at central assembling points, from which whole train loads of fruit are despatched to eastern markets. Some of them are owned by the growers, who find that through the possession of such facilities they are able to ship very much longer distances and their fruit arrives in better condition. Icing charges, which approximate \$75 a car from California to New York, are also largely done away with, as in moderately cool weather the cars cover the entire distance, occur pying from 11 to 15 days, without requiring to be re-iced in transit. The railways, too, are interested in the problem, and the Santa Fe and Southern Pacific roads are each establishing two large plants at different centres. They find that in addition to increasing the total quantity of business, the new system also permits of very considerable increase in the carrying capacity

APPLY THE SCHEME IN ONTARIO

If we are to take our proper place as a fruit producing province, it is certain that some such system as has been evolved in the west must be adopted here. The establishment of an efficient system of pre-cooling plants will do more than any other one thing to place Ontario's fruit industry on a safe and prosperous basis. The application of the scheme to Ontario's conditions will of necessity be slow and difficult, but it must come. In connection with the apple industry alone, it is beyond question safe to state that many thousands of dollars could have been saved in 1909 by the intelligent use of cold storage and pre-cooling plants. Valuable experimental and demonstration work has been and is being done with tender fruits, notably in connection with the St. Catharines (cooperative) Cold Storage and Forwarding Company's plant, and occasionally small shipments of pre-cooled products have Leen made from other points as well. There would seem to be great need for more work of this nature, and it is hoped that the near future will see considerable advancement in our opinions respecting long-distance shipment of perishable me terials and in our knowledge respecting the same

It would be interesting to enter into a discussion of the influence which would be exerted on local markets by the development of the system above described. We have much yet to learn regarding the holding of produce over a glutted period. Strawberries are said to have been held in cold storage for 21 days without apparent deterioration in any length of season over which it would be possible for them to extend their operations on such fruits. Cnsumers generally would receive a more evenly distributed supply and dealers and growers would be saved from the too frequent losses occurring under our present system of non-storage.

Enough, we hope, has been said to awaken in terest in the use of cold storage and pre-cooling as a means of distributing our fruits over a wider

Observation Potato blight is t out Ontario this s varieties have been the early crop is e early potatoes in high, as high as \$ places. The tops blighted and will n structure long enou age crop of tubers potato crop may we tle short of a calar worse in view of

August 17, 191

During the first w tors of Farm and Durham, Northumb and while there obs toes the yield from by the destruc blight. While at # Hope, our represen tive observed on experimental plots connection with local branch of the (tario Department Agriculture, what h long been known a has been talked abo in the columns Farm and Dairy, th blight can be preven ed. The illustration on this page speak be ter than words of th possibilities of preven ing blight by spraying Bordeau with the mixture.

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ture for potato bligh is wholly a preventative measure. After th blight once gets we started in the vines i is impossible to checi its ravages. It must l set, and this may be de with Bordeaux mixture days during the seaso potato tops. The obje coat the leaves with t stone) contained in the vent the spores of the leaves and causing the The largest illustrati the potatoes not affecte

The Bordeaux mi



The Blight Starts its potatoes in this plot.
When photographed quite brown and gave be dead. This plot was Green to combat the

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Observations on Potato Blight

Potato blight is uncommonly prevalent through out Ontario this season. The tops of the early varieties have been dead for some little time, and the early crop is exceptionally light. Prices for early potatoes in recent weeks have been very high, as high as \$2 a bush, being paid in many places. The tops of the later varieties are also blighted and will not stay green and retain their structure long enough to develop a fair to average crop of tubers. This partial failure of the potato crop may well be termed as something little short of a calamity, and it is so much the worse in view of the fact that so far as the blight is concerned it could have been prevented.

During the first week in August one of the editors of Farm and Dairy spent several days in Durham, Northumberland and Ontario counties, and while there observed many patches of potatoes the yield from which will be greatly reduced

by the destructive blight. While at Port Hope, our representative observed on the experimental plots in connection with the local branch of the Ontario Department of Agriculture, what has long been known and has been talked about in the columns of Farm and Dairy, that blight can be prevented. The illustrations on this page speak better than words of the possibilities of preventing blight by spraying with the Bordeaux mixture.

The Bordeaux mixture for potato blight is wholly a preventative measure. After the blight once gets well started in the vines it is impossible to check

its ravages. It must be prevented from the outset, and this may be done by periodical sprayings with Bordeaux mixture at intervals of about ten days during the season of rapid growth of the potato tops. The object of the spraying is to coat the leaves with the copper sulphate (blue stone) contained in the mixture, and thereby prevent the spores of the blight growing on the leaves and causing the destruction of the tops.

The largest illustration on this page showing the potatoes not affected by the blight does not do the subject justice. The luxuriant growth



The Blight Starts its Destructive Work

potatoes in this plot have been struck by the When photographed on August 5 the tops had d quite brown and gave wridene that they would be dead. This plot was sprayed regularly with Green to combat the "bugs," but no preventive ares were taken against the blight.

made by the potatoes on the plots sprayed with the Bordeaux-Paris Green mixture was remarkable in contrast with other potatoes to be seen in the district. Of late the experimental plots have attracted the attention of all who have seen them. If the tops remain green for another month they will add remarkably to the yield of potatoes over and above those now blighted and which because of the blight will not make further growth.

It would appear that many have learned their lesson this year about potatoes. "Another year," said Mr. Robinson, who is connected with the local Department, and who was showing our representative over the plots, "we reckon that there will be a good many pounds of bluestone go out of this town to be used on the potatoes grown in this district. One farmer only yesterday who saw the plots, remarked: 'If we could only keep our potato tops green, as these are, it would be a great thing for us farmers.""



Potatoes Not Affected by Blight-There's a Reason Why

The three illustrations on this page are all of the same variety of potatoes. On the planted at the same time on the experimental pie at Nort Rope. Such as a sit was photographed by an editor of plant of the plant

Jottings from Farmers

Every time a cow switches her tail to knock off flies she uses some energy which would other-wise go to milk production. Moral: Spray the cows .- Henry Glendinning, Ontario Co., Ont. . . .

Alfalfa is one of the best crops the farmer can grow, but he can only grow it after years of work, and I would not advise any farmer to undertake to grow a very large amount of alfalfa until he has learned how to grow it on a little field. Start on a nicely cultivated, well drained part of the farm, and grow half an acre, and then gradually spread out until it is all over the farm. We grow it as a regular crop at Ottawa. It is our best hay crop, but it was hard to get it started.—Prof. J. H. Grisdale, Dominion Agriculturist.

Many farmers are possessed with the idea that the suckers or earless stalks, which grow from an ear-bearing stalk of corn, are a hindrance to the Lest growth of the latter, and valuable hours are sometimes spent in removing them. But, according to Wallace's Farmer, actual experiments during two successive years, on Nebraska farms, demonstrated that corn with the suckers left undisturbed out yielded that from which the suckers had been removed. Their leaves like the others, would seem to perform a useful office in absorbing nutritive elements from the atmosphere, for the benefit of the ear on the main stalk .- C. R. Barnes, Extension Division, Minnesota.

Facts About Alfalfa Seed Production

One reason frequently advanced why more alfalfa is not grown is that the seed is expensive to purchase. Alfalfa seed can be grown by the farmer himself in many parts of Ontario. In order to determine the extent of the alfalfa seed porduction in Ontario and the success of those who had tried it, Prof. C. A. Zavitz of the O.A.C. has corresponded with many growers in Ontario and gathered much information on the subject.

Replies were received from 8I farmers who have grown alfalfa seed on their own farms from one year to 15, 20, and even 30 years. The 43 farmers who reported that they had grown seed for five years or more reside in seven counties in the south-western part of Ontario, and more than half of them are located in the counties of Haldimand and Lambton. The counties of Welland, Brant, and Lincoln are also well represented. and the counties of Kent and Wentworth are in. cluded in the list. The 38 farmers who reported as having grown alfalfa seed for less than five years reside in the seven counties already referred to, and also in the counties of Elgin, Oxford, Waterloo, Huron, York, and Durham.

13 COUNTIES PRODUCE ALFALFA SEED

It will, therefore, be seen that there are reports from 13 counties in Ontario in which alfalfa seed has been grown as a farm crop. The information thus presented has been obtained almost entirely from the reports of those 43 farmers who have grown alfalfa seed on their own farms for five years or more. The 43 farmers have grown alfalfa hay from six to 45 years, the average being about 14 years. The areas used for the production of alfalfa seed have varied from three to 40 acres previous to 1910, and in the last year from nothing to 35, the average for all the men for 1910 being 11.5 acres.

Every one of the 43 farmers stated that he had used the second crop for seed production. One farmer, however, referred to the fact that he had used the first crop for seed in a few instances. According to the reports the yield of seed varied considerably, the highest being seven bushels per acre, obtained by Mr. Jas. Douglas in Brant Co. One farmer in Haldimand County and another in Brant County reported that they had obtained an average of about four bushels of seed per acre. Another farmer in Haldimand County states his average to be only three-quarters of a bushel per acre. The average yield per acre obtained by all of the farmers for all of the years in which seed has been grown is 2.07 bushels. The quantity of seed per acre seems to be influenced to a marked degree by the conditions of the season and by the quality of the soil.



Utter Destruction Caused by Neglect

This plot of Empire State polatoes is immediately between the two plots shown in the other illustrations on this page. Conditions of seed, soil, cullivation of the page of th

CAWTHRA MULOCK & CO. OWN AND OFFER AT

\$1,250,000 of 6% First Mortage Sinking Fund Thirty Year Gold Bonds of

(INCORPORATED UNDER THE LAWS OF THE PROVINCE OF ONTARIO)

The same to carry with them a bonus of 25 per cent. of Common Stock

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HEAD OFFICE: Toronto. PLANTS AT: Montreal, Toronto, Winnipeg PURPOSES OF COMPANY

Canada Bread Company, Limited, has acquired as going concerns the plants and business of the Bredin Bread Company, Limited, of Toronto: Gro. More of the Model Bakery), of Toronto: H. C. Tomlin (Foronto Bakery), of Toronto: Staarts, Limited, of Montreal, and W. J. Boyd, of Winnipega. In the case of Boyd, the real property is excluded, but a parcel of vacant land in the City of Winnipega, about two acres in extent, is substituted. The first three companies have been in operation for almost thirty years, and the last two for close to twenty years. They have seen in operation for almost thirty years, and the last two for close to twenty years. They have seen in operations must beginnings till they are week. It is intended, by extensions to the present plants and the mission of the companies are plants, to forthwith increase the output of the Company to one million loaves per week, with other extensions to follow in the other large cities as a 1900 of 1900

POSITION OF BONDS For full particulars, reference may be made to our prospectus, which is accompanied by a letter from Mr. Mark Bredin. the Vice-Presiden; and General Language of the Company, We draw attention to the following points:

1. The present \$1,23,000 of 6 per cent. First Morgage Sinking Fund Thirty-year Gold Bonds are secured by Trust Deeds to Guardian Trust tomarks, and the property of the Company of

per cent. is operative from August 1st, 1911.

2. The assets of the companies already taken over stand in excess of all liabilities and without any allowance for good-will, trade marks, etc., at 844,42570. There has also been placed in the treasury \$1,006,211.00 of each close of the companies of the provide ample working ampliants or construction of additional plants, will provide ample working ampliants as per certificate of Messra, Price, Waterhouse & Co., after allowing for depreciation, amounted from April 50th, 1911, to \$107,915.41 to \$1,000. The companies of the provide ample working and the first provide and the treasury pending its employment on extensions. It is estimated that, with the CONTROL

ily gain to over Soxigon a year, or more than seven times ine nona linerer requirements.

Trequirements, in the plants situated in the larger cities of the different provinces of Canada, will be in an exceptionally favorable position to benefit by the marked economies that will be possible in manufacturing and, more especially in distribution, and all the time will be turning out a more uniform product under the most anitary conditions are particularly successful will be identified with the management and direction of the most company. Mr. Mark Bredin, who is probably one of the most successful by the property of the management and direction of the control of the most successful will be identified with the management and direction of the first successful will be identified with the management and direction of the most successful by the probability of the most successful by the provided of the most successful will be identified and the probability of the most successful will be in the probability of the most successful will be in the probability of the most successful will be in the probability of the most successful will be in the probability of the most successful will be in the probability of the most successful will be intended by the probability of the most successful will be intended by the probability of the most successful will be intended by the probability of the most successful will be intended by the probability of the most successful will be intended by the probability of the most successful will be intended by the probability of the most successful will be intended by the most successful will be in an anticent will be in an anticent will be in a

SUBSCRIPTIONS

SUBSURLITIONS

Subscriptions should be made on the form accompanying the prospectus, and are payable as follows:

In instalments as follows, in which case interest at the rate of 6 per cent.

In instalments as follows, in which case interest at the rate of 6 per cent.

Will be charged from date of allotment;—

105 per cent.

105 per cent.

107 per cent.

108 per cent. on par value on 1st Sept. 1911.

109 per cent. on par value on 1st Sept. 1911.

109 per cent. on par value on 1st Oct., 1911.

109 per cent. on par value on 1st Oct., 1911.

Upon final payment by the subscriber for all the bonds allotted, the Guardian Trust Company, Limited "11 deliver the bonds, together with fully paid-up Application will be made to list the honds and common stock on the Tronto Stock Exchange.

Application will be made to list the honds and common stock on the Tronto Stock Exchange.

Open for inspection and mortises and legal opinion of A. M. Stewart, and certificates of Price, Waterhouse & Co., and Canadian-American Appraisal Co., are open for inspection and application forms may be company. Limited, Tronto.

Prospectus and application forms may be company to the forwarded to be forwarded to the forwarded to the

CAWTHRA MULOCK & COMPANY, 12 King Street East, TORONTO (MEMBERS TORONTO STOCK EXCHANGE)

August 17, 19

neceteesesies FARM MAI 200000000000 Top Dressing

Alf I have a field see about 20 lbs. of all with a nurse crop o dry weather the sta thin in some places, field it is good eno leave it down. I am and intend to top manure as soon as like to know if thering the alfalfa plan rowing immediately abeen applied-J. W.

been applied—J. W. Ont. There would be completely ruining plants should you harrow this field. manure, if applies be good practice rially benefit the y

You are well advi stand of alfalfa s Should the weathe from this time form bility it will develo a satisfactory stand may be renovated n attention is necess comparatively light will give a consider athan one would enthin the plants ste

advantage of availa Any cultivating, ing of this stand we to be practised us and then only exp the value of such culin your own particu

Do not Pastu

Hy. Glendinning, (We hear much no hardiness of the al such information leadiscriminate pasturing very bad. Alfalfa carried over for and not be pastured ck particularly y hors not be allowed on it account. hen the by close pasturing, Alfalfa is not as har-have us believe. It and will vield a prof I have pastured a lent pasture it make

ing was allowed, and into the winter wit stubble for protection Compulsory Roa

ment must be used. tised turning our cow field when it was a c for 1½ to two hours: alfalfa was eaten do inches high, however.

It has come to the in Iowa. The farmer road drag voluntarily trag has made road of sort. A one-mill ta vided on all property and it can be used for some and it can be used for and 50 cents a mile dragging.

Whatever may be t the future, to-day it over vast stretches of It is folly to talk har many sections, remo ing material, just as fuse to build hard material lies at hand. ert and most effective ert and most effective taining and improving is so simple and ch overseers decline to u mer declines to drag probably because he is

road work done for him. In a great to moisture reduces its virulence, ever, is that it is English sparrows and MANACEMENT majority of cases he is not willing to Furthermore, sparrows that take less we are possening and not some of

Top Dressing and Cultivating Alfalfa

Altalia
I have a field seeded last spring with about 30 lbs. of alfalfa are acre, along with a nurse crop of oats. Owing to the dry scatter the stand of alfalfa is very thin in some places, but in parts of the field it is good enough to tempt me to leave it down, I am now cutting the oats and literal to top dress the field with all the stand of the control of the

been applied—J. W. A. Comparison of the would be great danger of completely ruining the young alfalfa plants should you attempt to disc or harrow this field. To top dress with manure, if applied with a manure spreader and not too heavily would be good practice and should materially benefit the young plants.

Tou are well advised in keeping this

from this time forward in all probability it will develop and prove to be a satisfactory stand. The thin places may be renovated next spring if such attention is necessary, and even a comparatively light stand of alfalfar will give a considerable yield more channel of the plants stool out and take the plants at the plants

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0

hin the plants stool out and take advantage of available room.

Any cultivating, discing or harrowing of this stand we would not advise to be practised until next spring, and then only experimentally until the value of such cultivation be proved in our provides the provides of the prov in your own particular case.

Do not Pasture Alfalfa

Hy. Glendinning, Ontario Co., Ont. We hear much nowadays as to the hardiness of the alfalfa plant. If such information leads any of us to inside information leads any of us to in-discriminate pasturing, such advice is very bad. Alfalfa, which is to be carried over for another year should not be pastured close at any time, particularly y horses. Stock should not be allowed on it in winter on any account. hen the crowns are killed account. account. hen the crowns are killed by close pasturing, the field is done. Alfalfa is not as hardy as some would have us believe. It needs good care and will vield a profit for such care. have pastured alfalfa and excellent pasture it makes, but good judgment must be used. We have practised turning our cows into the alfalfa field when it was a couple of feet high field when it was a couple of feet high for 1½ to two hours a day. When the alfalfa was eaten down to about six inches high, however, no more pastur-ing was allowed, and the alfalfa went into the winter with six inches of stubble for protection.

Compulsory Road Dragging

It has come to the inevitable end lowa. The farmer will not use the ad drag voluntarily. The Legislaroad drag voluntarily. The Legisla-tag has made road dragging compul-sor. A one-mill tax has been prosorz. A one-mill tax has been provided on all property in the township and it can be used for no other purpose. A supervisor may be hired and 50 cents a mile is the rate for dragging.

Whatever may be the farm good of the future, to-day it over vast stretches of It is folly to talk hard

acted wisely in enforcing road drag-ging. It is a sad commentary on the business sense of road officials, but it is an act eminently demanded. It is to be hoped that other states will follow the example, until the road drag becomes a familiar object not only on dirt roads but gravel and macadam roads as well. Nothing will o easily and cheaply maintain the life and comfortable use of a gravel and macadam road as the drag.— Breeders' Gazette.

How to Destroy English Sparrows

In its economic relations the Engrisily cenent the young plants.

You are well advised in keeping this sharrow among birds is compastand of alfalfa such as you have able to the rat among mammals. It from this time forward in all probait destroys small fruits, as cherries It destroys small fruits, as cherries, grapes, pears, and peaches. It also destroys buds and flowers of cultidestroys buds and howers or cum-vated trees, shrubs, and vines. In the garden it eats seeds as they ripen, and nips off tender young vegetables as they appear above ground, peas and lettuce being especially surbeing

reground, peas and lettuce being especially subject to attack. It diamages whether and other grains when nextly sowed, ripening, and in shocks. It reduces the number of some of our most useful native species, such as bluebirds, house wrens, purple martins, tree swallows, beliff swallows, and barn swallows, beliff swallows, and barn swallows, by the swallows, beliff swallows, and barn swallows, by destroying the nesting places. It attacks other familiar native birds, as the robin, were, redeyed vireo, and cabird. Enlike our native birds whose places it susurps, it has no song, but is it surps, it has no song, but is it surps, it has no song, but is it surps, it has no song, but is shown and virtuperative. It define buildings and ornamental trees, shrubs, and vires with its excrement and with its bulky nests. and with its bulky nests.

DESTROY THE NESTS

The most effective meshed of preventing the increase of sparrows in a locality is to destroy their neets at intervals of 10 or 12 days throughout the breeding season. Occasionally they build large covered nests in trees, but as a rule they build open nests in bird houses, cornices, waterspouts, and similar places. DESTROY THE NESTS waterspouts, and similar places. While it is often difficult to reach nests with the hand, they can usually heets with the hand, they can usuany be torn down by means of a long pole having an iron hook at the tip. By a concerted and continued move-ment to destroy every nest after the eggs are laid. English sparrows in eggs are laid. English sparrows in any locality may be gradually reduc-ed without resorting to shot or poison.

Where the use of poison is not pro-hibited by law, it may be effectively used to reduce the number of sparrows. rows. Of the different poisons test-ed, the most satisfactory is strychnia sulphate. Wheat has proved to be a good bait. The grain should be re-gularly supplied at the baiting sta-tions until the birds have become accustomed to re-ort to the place. A good time to put it out is early morning, as the birds are sure to be hungry for breakfast. Of the different poisons test-

AMOUNT OF POISON

It is colly to talk hard wery many sections, remote from setal-ing materious, remote from setal-ing materious that the put out at one time, it is inguity to the five to talk hard road, send the material talk hard. The road drag well to estimate the number of sparrows frequenting a feeding place and to allow about 20 kernels for each et and most effective sense of main the same of main that is so simple and one of the first sense of the same of th In deciding the amount of poisoned wheat to put out at one time, it is well to estimate the number of sparrows frequenting a feeding place and to allow about 20 kernels for each

or this extra work in order to improve his road. This is probably the explanation of his neglect.

When so simple, effective and cheap a means of road maintenance is not used by local road authorities not then is left but the application of the law. The lowa legislators have acted wisely in enforcing road drag.

A poison mixture that has proved in the law of the law. The lowal existence of the law of the law of the law. The lowal existence has a posson mixture that has proved a continuous contents. The second contents are contents and the law of the law. The lowal existence has a posson mixture that has proved a content of the law. The lowal existence has a content of the law. The lowal existence has a content of the law. The lowal existence has a content of the law. The lowal existence has a content of the law. The lowal existence has a content of the law. The lowal existence has a content of the law of the la

A poison mixture that has proved very effective is prepared as follows: Put one-eighth ounce of strychnia sulphate into three-fourths of a gill of hot water and boil until dissolved. Moisten one and a half teaspoonfuls of starch with a few drops of cold or starch with a few drops of cold water, add it to the poison solution, and hear till the starch thickens. Pour the hot poisoned starch solution over one quart of wheat and stir until every kernel is coated. Small-kerneled wheat sold as poultry food,

(7)

cement, and add sufficient venetian red paint powder to impart a good colour. Any other colour may be used in place of the red.

Mix only as used, and keep thoroughly stirred. The milk will hold the paint in suspension, but unless stirring is continued frequently, the cement, being heavier, will settle to the bottom

Enclosed find \$1 for my renewal t if reasonably clean, is preferable to first quality grain, being cheaper and more easily eaten by the sparrows. The first point te make sure of, how-



Agents wanted in some sections. Write for particulars

Cut Down Expenses With An IHC Gasoline Engine

AVING time and work on the farm cuts down expenses-makes farm life more pleasant and more profitable. Of all modern work and time savers-an I H C gasoline engine stands first. It operates the many machines that now mean hard, disagreeable, expensive hand labor. It solves the "keep-the-boys-on-the-farm" and "hiredhelp" problem.

Wouldn't you like to have a simple, economical, efficient, durable I H C -the engine that thousands of other progressive farmers are using with such great profit and satisfaction? Wouldn't you like to have it run your cream separator, feed cutter, pump, fanning m. , saw, grindstone, thresher, clover huller, electric light plant, washing machine, and do the other odd jobs around your farm?

An I H C engine costs less than any other if you measure by the years of service. And you can get just the I H C you want. There is

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I H C Gasoline Engines are made in the following styles and sizes: Vertical type—2, 3, 25, and 35-H, P.; horizontal—1 to 25-H, P.; semi-portable—1 to 8-H, P.; portable—1 to 25-H, P.; traction—

12 to 45-H. P.; sawing, pumping, spraying, and grinding outfits, etc. Built to operate on gas, gasoline, kerosene, distillate, or alcohol. Air-cooled or water-cooled. Don't buy any engine till you investigate the I HC line. Learn all the facts about the design, materials, and workmanship that go into the construction of I H C enginesthen decide. See the I H C local agent at once, or,

write nearest branch house today for our new catalogue. IHC Service CANADIAN BRANCHES—International Harvester Company of America at Brandso, Calgary, Edmonton, Hamilton, Letbbridge, London, Montreal, North Battleford, Oltway, Regiuv. Saskatoon, St. John, Weyburn, Winnipeg, Yorkton, Bureau The Bureau is a learing house of gricultural data.

It aims to learn the the trains to learn the best ways of doing things on the farm and then distribute the information. Your individual ex-

perience may help others. Send yeur problem to the I H C Service Bu-

INTERNATIONAL HARVESTER COMPANY OF AMERICA Chicago USA



August 17, 1911

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The New Por

L. C. Smith, P. Light, freedom fr

good ventilation are important points to when constructing

Convenience important these points are bestopen front style of

farmers exhib

versity in the erect poultry houses. We get it into our mine

house, so long as it need to be warm.

need to be warm. was recently showing new poultry house.

deal of pride he poin with numerous and dead air space boarded and shingled to the large double v This man had an old constructed, which i

good results, and why build on the old prin

successful, is beyond near neighbors who h

cess with his poultry last year in a struct

mas year in a struct one side no protection a spruce hedge, and We ourselves are us type house, but we

type house, but we front out and substiing, and it is giving tion. We are buildi on the open front pon three sides are si covered with building out the draughts. To shout three feet to be the side are sides are sid

is about three feet to two feet of wire net length. This house from draughts and, From our expe good results from our

C. E. Brown, Univers

The two most con which affect chickens a

which affect chickens a and the common lice. comparatively easy it control where the ch plied with a good dus filling a large, shallow dust or fine coal as breathes through tiny side of its body and w dusting herself these become filled and the

become filled and the The mite is differen

as it breathes througand the dust or inselittle or no effect on

rarely stays on the h daytime, prefering to cracks and crevices o till the fowls return to

whe of the best plans to

the windows and doors then smoke the buildi

sulphur or fumis The hens must first be

Lice and

POULTRY

ings. Write us to-day for Catalogue H for full description and price THE STRATFORD MFG. CO. LIMITED

operated, durable, and convenient, a necessity around the house and farm build-

STRATFORD, ONT. We make all kinds of Ladders, Lawn and Porch Swings and Seats.

Nine new subscribers to Farm and Dairy will win you a pure bred plg.

Renovating Strawberry Beds

F. H. Hall, Geneva, N.Y. Usually it is better to set new strawberry beds each year than to continue the old ones. The advisabilcontinue the old ones. The advisability of removing more than one crop of fruit depends largely on the condition of the bed. If the strawberry plants are numerous, vigorous and healthy, and the ground not too weedy, they may be left for a second crop. Two and even three profiterors. crop. Two and even three profit-able crops may sometimes be harvest-ed before making a change. The berries ripen slightly earlier but average somewhat smaller on the older beds, and the plants are more liable to trouble from insects and diseases. The cost of cleaning out and earling for an old bed is usually greater than for setting a new one Under some conditions a quick-grow-ing crop maturing before winter may be grown upon the same soil if the strawbery vines be plowed under as strawbery vines be plowed under as soon as the crop has been harvested, or it may be advantageous to sow the ground to a clover cover-crop to be plowed under the following spring.

If the bed be retained for a second fertilize and cultivate the rows Some grovers go over the bed with a mow-ing machine and as soon as the leaves are sufficiently dry burn over the en-

be carefully done or injury may re-cult to the crowns of the plants. Such treatment tends to lessen insect and fungus troubles.

The majority of growers who re-tain their beds narrow down the old rows with plow, disc-harrow or cultivator to a width of from six to 12

HORTICULTURE the direction of the rows. This must spectors employed by the Department the direction of the rows. This must spectors employed by the Department will watch the handling of these hip ault to the crowns of the plants. ments as usual, and careful tem-ture records will be obtained a points.—J. A. Ruddick, Cold Ste Commissioner.

Improve Potatoes by Selection

inches, depending on the stand of plants, and cultivate thoroughly to losen the ground which has become har I and compact from the tread of the pickers. The weeds and surplus plants should be cut out from the rows remaining and a heavy application of plant food, preferably in the



The Cultivator at Work in a Renovated Strawberry Patch

The Cultivator at Work in a Renovated Strawberry Fatch
This illustration shows Mr. G. B. Pattison, in the Clarkson district, Out,
as he was photographed in August, 1916, cultivating an old strawberry patch after
it had been renovated. After the crop was harvested the rubbish was moved
raked and drawn off the patch. A plow was then used to run a furrow on each
side of the rows, which left the rows about eight inches wide. The scuffler was
then run through twice, after which the rubbish was shaken up and hauled of
after which the rows were weeded and cleaned. Later in the fall this patch
would be hoed again; the cultivator—would be used each week if possible to
end of the growing season.

| TO LONDON | TO L Agents.

H. & A. Allan.

R. Reford & Co.

H. & A. Allan.

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R. Reford & Co.

TO GLASGOW.
August 19—"Hesperian" H. & A. Al
August 26—"Cassandra"
(Dona.dson). R. Reford &
Sept. 2—"Grampian" A. AlH. & A. Allan.H. & A. Allan.

9-"Saturnia" (Donaldson)..R. Reford & Co

Donaldson). R. Reford & Co.

Sept. 16—"Resperian" H. & A. Allan.

Sept. 32—"Ionian" H. & A. Allan.

TO LIVERPOOL

Sept. 2—"Meganitic" M. Willer Star-Dominion

Line.

Sept. 8—"Invisian" H. & A. Allan.

Sept. 8—"Covisian" White Star-Dominion

Sept. 22—"Covisian" Miller & A. Allan.

Sept. 30—"Meganitic" Miller & Star-Dominion

Line.

Line.

Line.

Line.

Line.

Taine.

Line

'TO BRISTOL.
Sept. 6—"Royal Edward". Canadian North ern S.S. Co. Sept. 20—"Royal George" Canadian North ern 8.8. Co

The arrangement is the same as has The arrangement is the same as nas been made during the past three years. Intending alippers must apply for space to the steamship agents in the usual way. They will be charged the regular cold storage rates. The Department simply gives are of earnings to the steam of a chamber of earnings to the steam of a chamber on each of the steamers mentioned in

end of the growing season.

form of well-rotted stable manure, should be broadcast lengthwise of the rows and directly over the plants.

Cold Storage for Fruit Shipments.

Editor, Farm and Dairy,—Arrangements have again been made with the steamship lines for the operation of cold storage chambers for fruit only on the following steamers.

Agents.

Agents.

Agents.

Agust 29—"Sicillin" H. & A. Allan.

Agust 29—"Sicillin" H. & A. Allan.

Sept. 3—"Ascania" B. Reford & Co.

Sept. 3—"Corinthian" H. & A. Allan.

Now is the time to start to improve potatoes are produced the kind of a potato that I consider ideal for market purposes.

Now is the time to start to improve potatoes when digging the consider ideal for market purposes. potatoes by selection when digging

Cut out Blight Now

Grant S. Peart, Halton Co., Onf. In August blighted portions of fruit trees are readily discernible. The diseased leaves and branches have a wilted and fire-fanged appear. ance and in some cases the branches are devoid of leaves. Also, the bark

ance and in some cases the branchs are devoid of leaves. Also, the bark appears shrivelled and cracked, and is darker in color than healthy stock. If removed now these infectious postuments of the standard into the bottle around the wire.

Department simply gives a guarantee of earnings to the steamship company to insure the operation of a chamber to insure the operation of a chamber mentioned in Shippers are reminded of the arrangement between the Department and the railway companies for supplying iced cars for the carriage of fruit for export. The cars are supplied by the railway companies on roquest of shippers made to the nearest agent, and the Department pays icing



Everjet Elastic Paint

Save money by using this black paint wherever the color is no objection. Elastic, heat-proof, durable. Use it for roofings and all exposed iron and wood.

require constant painting. You get twice as much weight of roofing for your money as you do with other roofings. Sample free on request. Address nearest office. Creonoid Lice Destroyer

coddling; there is no maintenance cost. You lay it and leave it.

The mineral surface is durable, permanent, absolutely weatherproof, unaffected by climate, insoluble in water, not injured by snoke.

Amatite is easy to lay. No skilled labor is required. You simply unroll it on the roof, and nail it down with nails which we supply toyou. Cement the laps with the adhesive cement which we also supply free packed in the center of the roll.

Amatite costs no more than the kind of roofings that require constant painting. You get twice as much weight

Spray the hen house regularly with Creonoid to kill disease germs, repel insects, suppress odors and prevent the spread of contagion. Sprayed on cattle it keeps the flies away, and the cows thus protected produce more milk.

THE PATERSON MANUFACTURING CO., Limited Montreai Toronto St. John, N B.

Winnipeg Vancouver Halifax, N. S.

be repeated once or to at intervals of three of as to catch the mites the FOR SALE AND WANT

TWO CENTS A WORD CAS HARDWOOD ASHES—Bes FOR SALE-First-class in pacity, and brooder.

pacity, and bro Farm and Dairy. FOR SALE—Iron Pipe, P. Rails, Chain Wire Fenoieto, all sizes, very cheastating what you want. Waste and Metal Oo., Destreet, Montreal. e hip-

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The New Poultry House

L. C. Smith, Peel Co., Ont.
Light, freedom from draughts and
god ventilation are the three most
important points to be kept in mind
when constructing a new poultry
house. Convenience and cheapness
are also important points. All of
these points are best obtained in the
open front style of poultry houses.
We farmers exhibit a strange perversity in the erection of our new
poultry houses. We cannot seem to
get it into our mind that a poultry
boxee, so long as it is dry, does not
need to be warm. A friend of mine
was recently showing me over his
new poultry house. With a great
deal of pride he pointed to the double
valls with numerous plies of paper
deal and a spance to the double
valls with numerous plies of paper was recently shouse. With a great deal of pride he pointed to the double wails with numerous piles of paper and dead air space, to the double bearded and shingled roof, and then to the large double windows in front. This man had an old house similarly constructed, which had never given good results, and why he should again and the state of t

Lice and Mites

C. E. Brown, University of Minnesota. The two most common parasites which affect chickens are the red mites and the common lice. The latter are which affect chickens are the red mites and the common lice. The latter are comparatively easy to keep under control where the chickens are sup-plied with a good dust, bath made by sling a large, shallow box with road dust or fine coal ashes. The louse breathes through tiny holes on either side of its body and when the hen is dusting herself these breathing holes become filled and the louse is choked to death.

become filled and the louse is choked to death.

The mite is differently constructed as it breathes through its nostrils and the dust or insect powder has little or no effect on it. Besides it little or no effect on it. Besides it shall be a state of the state of t

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In feeding laying stock during the summer we find that in order to have them give the best returns we have them give the best returns we have to use a forcing mash, just the same as in the winter. In fact we make no change in our method of feeding during the summer months, except that graph the summer months, except that the summer months, except that them with green food. We keep grit, the material of the summer man food we give one quart of mixed grains mash in hoppers. In feed laying mash in hoppers, the summer was a summer of mixed grains with the laying stock, so that our eggs keep her and give our customers better and give our customers better and give our generally. By this method the feeding we get more eggs and larger ones, and also find that the hens lay right through the moutting season.

The hens that are not to be carried. through the mounting season.

The hens that are not to be carried

The hens that are not to be carried through the moulting season are fattered and killed off just about the time the moulting season are given a little grins. The others are given a little grap in the laying mash during the moulting season, and that brings them hrough in good shape. Old hens are killed off when two years old in our laying pens. Breeders are not fed a laying mash at all.

Dominion Exhibition, Regina

Dominion Exhibition, Regina
Strong in all lines connected with
agriculture, the Dominion Exhibition
at Regina last week properties of the strength of the stre

their own.

The Canadian west is an agricultural country and the Regina Exhibition was an agricultural fair. The display of the various western The display of the various western concess was representative on the first place that agriculture takes in those provinces. The displays of manufactures also were closely related to agriculture, that of threshing engines being the largest.

DAIRY FEATURES STRONG

The dairy reattle exhibit was the largest ever seen in the west, Ayrshires, Holsteins and Jerseys being well represented. The presence of eastern exhibitors made the competition keen. The exhibit showed clearly how important and the competition keen. tion keen. The exhibit showed clearly how important a place dairying is
taking in the west. Formerly Shorthorns and other beef breeds only were
to be seen at the fairs. In the last
to be seen at the fairs. In the last
increased rapidly. The
number of sales made by exhibitors
at the fair shows that dairy cattle
are in great demand.
AYBSHUSIS

AYRSHIRES

"Exceptioially fine beasts" was the terse comment of W. W. Ballantyne. Stratford Ont., in reference to the Ayrshire exhibit he had judged. The exhibitors were P. D. McArthur. North Georgetown, Que.: Rowland Ness, De Winton, Alta.; F. H. Harrison, Pense, Sask.; and Wm. T. Shuttleworth. Gaetz Valley, Alva. Competition was keen between the first of the awards. As was to be expected, the grand champion bull was McArthur's Netherhall Milkman, one of the best show

Holsteins, owing to the failure of a large number of the entries to show up, were weak in numbers, but in quality were equal to the exhibits appearing before test. The exhibits appearing before the street of the exhibits appearing the street of the street of the exhibits appearing the stre

Ayrshires in Canada; Senior, owned by Ness, was second. McArthur also secured firsts on senior and junior yearling, bull calves, on his herd, best three calculates, and can cow and two of her progens; and on cow and two of her progens; with Colony Fram Holsteins a close of one sire, or to Ness, as well as other minor in. Ness was particularly strong in females, and carried off a good share of the awards. Holsteins, owing the failure of a large number of the herdiure of a large number of the herdiure of a large number of the the calculates. Show up, were weak in numbers, but in Splendid representatives of the

(9)

Exhibition Number, August 31st



The READERS of Farm and Dairy are looking forward to our

Fourth Annual Exhibition Number

to be issued August 31st.

CONTRIBUTIONS to this Number will be by noted agricultural authorities on important subjects. E ery department of the control of the control

our regular regular may family number will be largely increased. Hesides going to our regular regular

RESERVATION of space should be made at once, and copy should be in our hands not later than August 21st.

For full particulars address ADVERTISING DEPARTMENT Farm and Dairy - - Peterboro, Ontario ·····

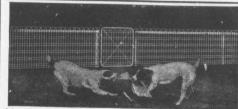
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FARM AND DAIRY PETERBORO, ONT.

ISSUE CERTIFICATES MORE **PROMPTLY**

Breeders of dairy cattle who have had cows qualify in the Record of Performance test are complaining United States sheep to Canada in the about the slowness with which the certificates are issued after the cows have qualified. In some instances that have come under the notice of Farm and Dairy several months have elapsed before the certificates have come to hand. This tardiness in the issuing of certificates has been a great inconvenience to some breeders who have wished to sell their cows but could not very well do so until the certificates came to hand. Others who have purchased Record of Performance cows on the understanding that the certificates would come along soon have exhibited great uneasiness at the long delays.

This condition of affairs should be remedied. If there is not a sufficient staff on the Live Stock Records Department at Ottawa, additional ap- to that market.

pointments should be made. This important branch of live stock work should not be hampered and rendered in any way inefficient as it now is by an unwillingness to spend a few hundred dollars in salaries to a few additional members to the staff.

SHEEP PRICES AND RECIPROCITY

The invasion of the Toronto market by United States sheep and the consequent drop in price of mutton, has been seized upon by the opponents of reciprocity as a good reason for claiming that should the reciprocity agreement take effect our markets will be flooded with cheap United States farm produce. Sheep raisers, in particular, are being warned that the United States farmers will drive them out of business so far as sheep are concerned.

One of the most bitter opponents or the reciprocity agreement on the United States side of the line is the American Sheep Breeders' Association. Through the agricultural press, and by sending deputations to the Senate Committee when they were having their hearings on reciprocay, the sheep men of the United States have done their best to defeat the bill If the claims of the anti-reciprocity press in Canada are correct, should not the United States sheep raisers welcome the bill as opening up to them an additional market? Would it not be to their advantage to put the Canadian sheep breeder out of business, if they can obtain his market?

The members of the American Sheep Breeders' Association have not been deceived by the abnormal state of trade that exists at present. They realize that year in and year out the United States market is more valuable than the Canadian market, and that in the long run through reciprocity the Canadian sheep men will get the best of the deal. The "American Sheep Breeder," the official organ of the Association, has pointed out editorially that in the past ten years the average number of sheep imported into the United States from Canada each year aside from those imported for breeding purposes is 211,716 head. The average number of Canadian sheep going into the Buffalo market alone for the past ten years has been 98,565 head annually. Shipments of same period have been few and far between. For the year ending March 31st, 1910, importations of sneep and lambs from the United States were valued at \$131,493. During the same period the exports from Canada to the United States were valued at \$569,-679, or over four times as much.

The invasion of United States mutton on Canadian markets at the present time cannot be regarded as normal and in the long run we farmers will find in the future as we have in the past that the United States lamb market will on the average rule higher than the Canadian. That is one of the many reasons why we should vote as all our farmers' organizations advise us to, in favor of securing the free admission of our own farm products

SHIPMENT OF GREEN CHEESE

Proper curing of Canadian cheese before it leaves the factory has become of more importance than ever before. Canada at one time supplied over 80 per cent. of the cheese imported into Great Britain. At that time a large proportion of the cheese was held over for consumption during the months of non-production. Since the arrival of New Zealand cheese on the British market it has not been necessary to hold Canadian cheese, and it is consumed almost as soon as received. Hence the importance of longer holding cheese in the factory curing rooms in Canada.

Last season, although the condition of the cheese as it left the factory was better than ever before, complaints from retail dealers as to immature condition were more numerous than in previous seasons. The low price of cheese as prevailed in the season of 1910 was largely due to the immature condition of the product. Mr. J. A. Ruddick, Dominion Dairy Commissioner, estimates that the patrons of Canadian cheese factories last year lost \$1,000,000 in reduced prices for their cheese.

In some of the small factories of Eastern Ontario, it has been a prac tice to take cheese directly from the hoops and ship to Montreal. Even n many of the larger factories of Ontario adequate facilities for the curing of cheese in warm weather are not provided. Of the 11,000 factories in Ontario, only about 50 have curing rooms in which the temperature can be controlled. In Quebec, conditions are still worse.

In view of the changed conditions in the cheese trade, cheese must be held in the curing rooms 10 days or two weeks at least if we are to maintain our position and reputation on the British market. This means more cool curing rooms. A cool curing room in any cheese factory is an excellent investment; in the near future a cool curing room will be an absolute necessity in every factory.

STATUS OF ONTARIO BUTTER

Ontario butter whether from the creamery or from the home dairy does not rank as high as it should in competition with butter from other provinces and from other countries. the old country markets, Ontario butter in competition with the Danish or Australian is seldom graded No. 1. Our own dealers when buying butter for export prefer Eastern Townships butter to the Ontario article. In British Columbia, Alberta butter is quoted higher than is Ontario. Al erta dairymen have an advantage in that they are nearer their market. but it is also true that the cream received at the Alberta creameries is of better quality than that delivered to Ontario creameries.

Why is it that Ontario butter does not rank higher? Our butter makers are as good as are to be had any where. The greater portion of the responsibility must rest with those on farms where the cream is not handled as it should be, or is not delivered to the creamery frequently enough to

guarantee freedom from old flavoring the butter

At the farm most of the defect can be traced to the cream separator. Factories receiving part whole milk and part cream find that they can make a better class of butter from the cream separated at the factory than from that gathered. The first point therefore towards the improvement of Ontario butter is for the patrons to keep their separators clean and in a cleanly place. Next, the cream must be kept cool.

Cream will rot. Even when kept under favorable conditions there is a steady deterioration in quality that leads to off-flavored butter. This can be overcome only by more frequent delivery to the creamery. In some cases cream is delivered but once a week. In cream one week old the chemical action, aside from bacteria would be sufficient to cause bad flavors. Cream should be delivered at least every other day; it would be better could it be delivered every day although this is not yet generally possille

Largely due to carelessness we in Ontario are suffering from the bacc reputation held by our butter. It is time we set about to produce a better article, to bring a better reputation, better prices, and better satisfaction all round. Shall we do it? Will you do your part?

The average production of cows in Eastern Ontario last year was in the neighborhood of 3,000 lbs. In West-

ern Ontario it was not The Real much better. Individ. Mission ual cows have produced over 20,000 lbs. of milk

in the year and whole herds have averaged 10,000 lbs. or over. There is too great a difference between the average herd and the best herds or even between the average herd and a good herd. When we consider that herds, good and bad alike, are included in the average there must be many very poor cows somewhere. Here is the real mission of our breeders of pure-bred dairy cattle. War should not be on competing breeds but on the scrub sire and on the scrub cow. If our breeders develop this field as a market for their pure-bred stock there need not be any competition of the treeds. There will be room for all.

A certain grocer once hired a boy and one day he took him out in the back room and asked him if he would be willing to do the

It Works sugar up in short Both Ways weight packages. The boy expressed his willingness to do so, and the grocer immediately discharged him, saying: "If you are willing to cheat my cus-

tomers you would be willing to cheat me too. I want no such fellow around here." Farm and Dairy follows the same plan in permitting advertisers to use its columns. If our advertisers would cheat you they would cheat us also. Our Protective Policy as published on this editorial page works three ways -- to our readers' advantage, to our advertisers' advantage, and to our own

August 17, 1 The Caus

(Toron

Among the ills subject there i rible as the mind poseless eye, the meaningless word awaken in us a And whe and the barred w so many thousand one near and de guided our first mother perhaps w brother who lay be childho d-there c sire to do what m for those who come break that results tion of mental dis

What is the chi-How can it be ren Cemmission in Lun out of 279 person insane, and that it cord that 26.9 per of lunacy in the of the use of whisk ous liquors. That statement of some but the deliberate tist who knows the

Kecords Not a A Editor, Farm an eral recent issues o shire breeders praispective breeds. T en interesting to

can obtain any them regarding feet produced from such Such articles ar value to the average sarcastic Naturally v not like to hear st the Holstein cow h ords of the world. is the most profitab admit breed has its own g we have not in our of cattle that will shire, Holstein, Gue fancier combined. I his own breed, and is "married to it," a fight for it and sees his own breed m would the fancier of I have been studyi for over 15 years, at to the opinion that w produced fr can be lairy breeds, and wh luced they are like e hing-a freak of n many a breeder pointed in paying big record stock. When

world records. As a Jersey breede room for all breeds, cow is not by any me I give here the 12 highest testing leading breeds of da f the Glen (Gu Irene (Jersey)... simple (Guernsey) Artis (Holstein) aid of Pinehurst sunbeam (Guerns Darryman by Yeksa Sunbeam (Guerns Sophie 19th of Hood Farr Oga 4th's Pride (Jersey Adelaide of Beechlands Rosaire's Olga 4th's Psid It is only fair to t to state that the pul record of Missy of the obligatory by an inju-

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, 1911

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adverown. (Toronto Globe)

Among the ills te which humanity is subject there is none other so terrible as the mind diseased. The purposeless eye, the mirthless laugh, the meaningless words of the insane awaken in us a pity too great for words. And when the guarded walls and the barred windows shut in not so many thousand "cases," but some one near and dear—the father who guided our first fathering steps, the mother perhaps who is dearer to us than even the hope of Heaven, the breake who hay beside us in the cot of the who was can do to lessen for those who can can de to lessen for those who contempla. (Toronto Globe) break that results from the contempla-

sire to do what men can de to lesson for those who come affects us the heartheast that results from the contemplation of mental disease.

What is the chief cause of lunacy? How can it be removed? Dr. Ferris, President of the New York State Commission in Lunacy, says that one out of 379 persons in that State is mane, and that it is a matter of record that 26.9 per cent. of the cases of lunacy in the State are the result of the use of whiskey or other spirituous liquors. That is not the random that the state is made and the state of the singular that the state is made and the state of the whole of the state of the state of the saverage dairy farmer if the whole are and the state of the saverage dairy farmer if the whole are state of the saverage dairy farmer if the whole of the whole farming population. Such articles are of educational control that the state of the saverage dairy farmer if the whole are and the whole of the whole farming population. The breeds and make the saverage of the Records Not a Matter of Breed Editor, Farm and Dairy,—In several recent issues of Farm and Dairy,—In several recent issues of Farm and Dairy in notice articles by Holstein and Ayrshire breeders praising up their respective breeds. These letters have been interesting to me insofar as I can obtain any information from them regarding feeding and the milk produced from such feeding.

Such articles are of educational ralue to the average dairy farmer if the writers would leave out some of the writers would leave out some of the writers would leave out some of the writers would leave out the one of the world. The control of the writers would leave out the one of the world. The world with the second of the world. We admit that each dairy world. We admit that breed of cattle that will please the Ayrshire, Holstein, Guernsey and Jersey fancier combined. Each fancier of a particular breed is wrapped up in his own breed, and as the saying is, is "married to it," and naturally will fight for it and sees the strong points of his own breed more clearly than sould the fancier of some other breed. I have been studying the dairy cow for own of the opinion of the produced they are like every other great thing—a freak of nature. We find that many a breeder has been disappointed in paying big prices for world record stock. When mated, their off-sing are a failure as makers of sorld records.

As a Jersey breeder I say we have room for all breeds, and the Jersey cow is not by any means in the back-ground. I give here the records of the 12 highest testing cows in the four leading breeds of dairy cattle:

Irene and the remaining cows would each move up one. The Ayrshire Irone and the remaining core would each move up one. The Ayrahire cow Netherhall Brownie 9th would take 12th place. It will be further noted that all of the coords above are official Register of Merit or Advance Registry Records with the exception of the Holstein tests, which are semileial records from the attack of the standpoint of strictly official tests. In a strict classification, therefore, the growy of Jacoba Irene, would head the list and give a place for seven Jerseys, four Guernseys and one Ayrahire.

shire.

If we could have the cost of each cow's feed or the amount of feed consumed, to produce each of these cow's records, we could form our opinion of the most profitable cow in the world. Even if the Jersey is the world. Even if the Jersey is the world. Even if the Jersey is the could faste the treeds, she chews her could faste any of the other breeds and may a my of the other George Laifwaite. Hunged cater.

Notes for Dairymen

The popular and probably the better way to improve the dairy herd is to inject better blood by purchasing a good sire. The more expensive way is to buy the cows. Under the former method, it is only necessary to purchase the bull.

The extremely hot weather of the past few weeks has resulted in dry pastures in many sections of the country and the milk flow has dropped off greatly. It is the wise cow keeper who works against such a signation by growing some kind of soiling crop. There are few few farms, however, where fodder corn is not available, and there is no better time to make use of this feed than during the season when pastures are short and cows are dropping off rapidly in their

season when pastures are short and cows are dropping off rapidly in their milk flow.

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Season when pastures are short and cows are dropping off rapidly in their milk flow.

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tributions to this department, to ask questions an matters relating to butter making and and to suggest subjects for discussion.

Address letters to Cre mery Department.

Sampling Sour Cream

Considering the best method of drawing a fair sample of sour cream for the Babcock test Prof. Farringfor the Babcock test Prof. Farring-ton of Wisconsin suggests that the cream be heated to a temperature of at least 100 deg. F. and then the hot cream poured back and forth from vream poured back and forth from one can to another. Heating the cream will change its viscosity and drive out some of the air or gases held therein; it will also liquefy the lumps of butterfat and soften the coagulated curd.

In order to be well satisfied that sour cream has been thoroughly mixed, it is well to pour it through ne sieve while warm. By doing the clots of curd and butterfat a fine sieve while warm. will be collected on the strainer; these will be collected on the strainer; these may then be forced through the meshes of the strainer by means of a rubber pestle or finger, and the warm strained cream will be so thoroughly mixed that a fair sample for testing may be taken from it.

In many cases it is absolutely impossible to get a fair sample of sour cream unless it is heated, and, in some cases straining as above de-

cases straining as above described is necessary.

Reciprocity and Butter

Mr. Clifford Sifton's assertion that the butter industry of Canada would be injured by free trade in butter and between this country and the United States is so glaringly and ludicrously wrong that many people acquainted with the facts have taken exception to it. The following letter is contributed by an extensive dealer

is contributed by an extensive dealer in butter of an experience as long as Mr. Sifton's manhood life:
"If I read Mr. Sifton's address to Canadians correctly, he says the butter industry will be injured by the reciprocity agreement. He must have put that along with other misstate-ments into his manifesto as a 'fillup.' Some time after the reciprocity agreement was made known I asked the manager and chief proprietor of one of the largest creameries in Canada as to its effect on the butter business. His answer was 'that the agreement was a splendid thing for butter and cream and meant millions of dollars to Canada.'

"To the farmer, the artisan, and the great body of consumers this is the grandest piece of beneficial legis lation ever offered to the Canadian people. The farmer who votes against it is doing himself an injury of a

generalization in the please a set Creamery Department of men who are trying to bind nim hand and foot to rapacious monopolies."

Butter makers are invited to send constributions to this department, to sell office the constraint of the department, to sell office the constraint of the constraint of

The nature of the gratues, which has been going on for some years in several of the Australian dairying states, has neither been lost nor won, but it has been suddenly terminated. Regulations are being formulated by the Commonwealth Department of Trade and Customs which will make Regulations are being formulated by the Commonwealth Department of Trade and Customs which will make the grading of butter and cheese tur export compulsory. The grading will not only be compulsory, but it will also be necessary to brand the boxes with the official classification fixed by the official grader.

The export trade of the Common-

wealth is, for a time at least (for better or worse), to be conducted under a system of compulsory grade mark-ing, and it will be necessary for the darrying industry in each state to

the export boxes, it becomes a mat-ter of the first importance that the largest portion of each state's pro-

duce should be brought to the higher grades. Much good has been done by

Butter a Leading Import

W. Weddel and Co., London, E.C.

ly into the United Kingdom exceeds that of every other article of food, except wheat and sugar. This fact is not so widely known as it deserves to be, for it shows that when compared with either the value or the volume of butter made at home,

Great Britain has proved itself totally

incapable of producing sufficient but-ter to meet the requirements of the

ter to meet the requirements of the population. Estimates of the home production made by the best authori-ties place it between 70,000 and 80,000 tons a year. The quantity imported annually for the last five years gives an average of 211,488 tons. Thus out

of every four pounds of Lutter con-sumed in the United Kingdom only

trifle over one pound is of home pro

ported into the United Kingdom occurred in the vear ended June, 1907, when it reached 219,277 tons.

when it reached 219,277 tons. Of this quantity 162,182 tons were from foreign countries, and 57,095 tons from British colonies. In 1909 the

import of foreign butter had risen to 178.378 tons, and colonial had fallen

to 32.197 tons; but in 1910 a big reversal took place. Foreign has decreased by 14.051 tons, and colonial has increased by 14,440 tons, so that

The greatest amount of butter im-

luction.

The value of butter imported year-into the United Kingdom exceeds

methods of grading.

the total imports of all kinds of but-ter for the year ended June, 1910, are 210,964 tons, and 210,575 tons for

Effect of Condition of Cream on Test

). F. Hunziker, Purdue University. If tests are to be uniform and ac orate, the cream must be in such condition, when sampled, that a fair and representative sample can be taken. If, at the time of sampling. the cream is too thick, is tough dry and leathery on the surface, is partly churned or curdy, it is very difficult to secure a fair sample, and tests of such cream are prone to be irregular as well as inaccurate.

as well as inaccurate.

This condition of cream can be readily avoided by taking proper care of it on the farm. Every patron should for his own good, make a reasonable effort to have the cream in proper mechanical condition, homogenerand uniform in body, before hauler, station agent or cream adjust itself to new conditions. Dairy hauler, station agent or creamery education becomes not only im-samples it. If this is done, the



A Good Creamery in a Famous Dairy District

The reputation held by Eastern Townships' butter among produce men well for the creamery men of that section of Quebec. The creamery her trated, owned by A. J. Tremblay, is in Missisquoi Co., Que.

portant, but indispensable and ur sample cannot help being fair and representative of the true richness of gent throughout the country. As the classification is to be marked upon

the cream from which it is taken. Conscientious observation of this pre-

caution on the part of the patron

remove & very common avenue that leads to irregular and unsatisfactory cream tests.—Bul. No. 150.

recent conferences of experts in the direction of arriving at juniform FOR SALE-Cheese factory; excellent loca-

FOR SALE AND WANT COLUMN tion, Oxford County: house in connection. Terms reasonable. Apply Box B. Farm and Dairy.

CREAMERY FOR SALE OR RENT; in good town, main line railway; money good town, main line railway; mostey maker; easy terms; good price for making; snap. Average make past four years about eighty-two thousand pounds butter. Don't write unless you want to do business. Write immediately. Ber X, Farm and Dairy.

THE IDEAL GREEN FEED SILO



TILL save your hay and decrease your grain bills, you will produce more milk at less expense and with less labor, built from lumber thoroughly treated with specially prepared wood preservative. Free catalogue on application.



The Oldest Company in Canada Building Silos

Canadian Dairy Supply Co., Limited 592 St. Paul Street, Montreal, Canada

FACTORY MANAGER

To use the best and cheapess preparation for all cleaning purp-oses in Cheese Factories and Creameries. Used at Dairy School Guelph and by the leading factorymen of Western Ont.

Write for prices to

R. A.TRELEAVEN MOOREFIELD, - - ONT ********** Cheese Der

August 17, 1911.

Makers are invited to s to this department, to matters relating to che suggest subjects for dis letters to The Cheese Ma

*********** Why the Yiel

Frank Herns, Chief I. W. Onta One feature of the that is worthy of spenumber of pounds o to make a pound of c sections this is rather be accounted for to a

the low average test o the average the average test of lower than in previou difficult to explain, only about 10 per cen factories pay for mi value for cheese mak tion is given to this gies bent towards p

gies bent towards, p tity instead of quality "Since the yield of largely on the fat and together with the san of the milk it can reac cheese maker, no mat secure a large yield milk testing below in stituents or from mil

producers will s ion thoroughly they realize that in the m it is not the fault of the that the 'average' is will also see that when ent percentages of fat cheese making, the not receive full value of the proceeds.

Problems in Easte Cheese Fac

J. McAllister, Russ There are three grittat we dairymen in I should work to fill. Veheces factories, and be we need the universe pay by test, and we ng facilities in our figreat majority of the great majority of the are small and poorly with such factors with such factors with such factors makers are doing wor considering all the chabut with such factors makers are doing wor makers with such factors.

maker works under a c The question of the must first be solved be can be Stricter regulations retary conditions would all factories had to p many of the smallest of business. A helpful some of the patrons the beginning to see that b ould be an advantage

On six miles of road my section are four is makes six cheese daily, and two only four. and two only four. To embined would make tory The great difficuling them is that all bu rately owned

PAY BY TES

We have only one f section paying by test tried the test and give of the system system etent ma due to incompetent ma maker for seven years paid by test, and it was that any of the patron their test. My experie to believe that pay by te if the test is done prop this end I would sugg appointment of officials 1011

910, are ons for Cream

versity, and acin such that a fair can be ampling, agh, dry the such tests of tregular.

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Cheese Department

Makers are invited to send contributions to this department, to ask questions on matters relating to chosesmaking and to suggest subjects for discussion. Address literate in The Cheese Maker 19 partment.

One feature of the cheese business that is worthy of special note is the number of pounds of milk required to make a pound of cheese. In some sections this is rather high and may be accounted for to a large extent by the low average test of the milk. Why the average test of the milk why the average test of the milk should be lower than in previous recent it.

the low average tess of security. The heaverage test of milk should be lower than in previous years is more difficult to explain, except that, as only about 10 per cent. of the cheese factories pay for milk according to value for cheese making, less attention is given to this point and energies bent towards producing quantity instead of quality of milk.

"Since the yield of cheese depends largely on the fat and casein content sugether with the aanitary condition of the content of t

cooled.

"If producers will study this question thoroughly they will come to realize that in the majority of cases it is not the fault of the cheese maker that the 'average' is 'high.' They will also see that when milk of different percentages of fat is 'pooled' for cheese making, the rich milk does not receive full value in the division of the proceed. of the proceeds.

Problems in Eastern Ontario Cheese Factories

J. McIllister, Russell Co., Ont.
There are three great big needs that we dairymen in Eastern Ontario abould work to fill. We need bigger cheese factories, and better factories. We need the universal adoption of pay by test, and we need cool curring facilities in our factories. The great majority of the factories in the division over which I have direction are small and poorly equipped. The are small and poorly equipped. The consideration over which I have direction are small and poorly equipped. The universal well and the consideration of the small factory universal the consideration of the small factory must first be need before other improvements earlier programment of the consideration of the small factory must first be need before other improvements earlier programments. J. McAllister, Russell Co., Ont.

provements can be looked for. Stricter regulations regarding sanitary conditions would close some. If all factories had to pay a license, many of the smallest would go out of business. A helpful sign is that some of the patrons themselves are beginning to see that bigger factories would be an advantage.

Striking Results of Cool Curing
C. B. Meyers, Hastings Co., Ont.

We decided in 1907 to build an ice box in our factory. Before this we had in our factory. Before this we had in the season building, with cement floors in the season that the control of the season of th C. B. Meyers, Hastings Co., Ont.

milk routes.

companies, and we never change our milk route.

SATISFACTORY METURNS

The total cost of remodelling our curring room was \$468. The difference in yield between 1907 and 1908 showed 4150 lbs. of cheese to the credit of the cool room. The average price in 1908 was about 12 cents. The total cost of the curring room was more than saved by the increase in yield the first year.

As our factory lies close to the Bay of Quinte, the cost of filling is small. The job is let by contract. It has cost \$35 a year to cut, haul, and pack the ics, which for a factory light.

I have shown thus, as regards yield, that cool curing has been a great success with us. As regards yield, that cool curing has been a great success with us. As regards quality we have sold all the close to the first correct of the first contract of the first correct and the highest prices, and we have never had the slightest fault found with the quality. It has been a pleasure to sell first-class cheese.

GREATER LOOAL DEMAND

of business. A helpful sign is that some of the patrons themselves are beginning to see that bigger factories. ORBAYER LOCAL DEMAND leaves the mining the an advantage.

GRAYER LOCAL DEMAND leaves the mining the analysis of the mining the mining them is that all but one are printing them is the printing

Cheese Department

The secolement of a group of factories would be an excellent idea.

We have no cool curing rooms in this syndicate. I have one factory in a this spectrum of a superior to the cool curing and the secolement of the cool curing factories and the superior to the superior to the cool curing factories. It have no data on the shrinkage same asked as a small factory afford to put in cool to the superior to the cool curing factories. It have no data on the shrinkage same to the cool curing factories well up to foot the cool curing factory afford to put in cool to the superior to the cool curing factory afford to put in cool with the superior to the cool curing factory afford to put in cool with the superior to the cool curing factory afford to put in cool with the superior to the cool curing factory afford to put in cool with the superior to the cool curing factory afford to put in cool with the superior to the cool curing factory afford to put in cool with the superior to the cool curing factory afford to put in cool with the superior to the cool curing factories. It have no data on the shrinkage same of the cool curing factory afford to put in cool with the superior to the cool curing factory afford to put in cool with the superior to the cool curing factory afford to put in cool curing factory afford to put in cool with the superior to the cool curing factory afford to put in cool



Without exception, they will tell you that Windsor Salt makes the smoothest, finest cheese.

A good many will probably say that they could not make good cheese without Windsor Salt.

For years, those who take the prizes for cheese making, have used Windsor Cheese Salt.

Isn't that the salt you want?



Winnipeg, Man.



THAT which is past is gone and irrecoverable, and wise men have enough to do with things present and to come. - Bacon.

The Second Chance

(Copyrighted)

NELLIE L. McCLUNG Author of "Sowing Seeds in Danny"

ND so it came about that Pearlie straw-covered shed stand near Watson was once more called to face the large and cheering nce, while Father O'Flynn, with many kind words, presented her with the W.C.T.U. oratorical prize. Miss Morrison went home that

night disturbed in spirit, wondering if, after all, there might not be some-thing more in it than gestures, voice, memory, and articulation.

CHAPTER V.

AT THE CHICKEN HILL SCHOOL

Ho! I'm going back to where We were youngsters! Meet me there Dear old barefoot chums, and we Will be as we used to be,

Lawless rangers up and down
The old creek behind the town -James Whitcomb Riley.

If a river is measured by the volume water in its current, the Souris little town of Millford is built, is but an insignificant stream; but if bold and precipitous tanks, sheer cliffs, broad valley are to be consider ed, then the Souris may lay claim to ed, then the Souris may ray chain to some distinction. For a few weeks in the spring of the year, too, it is a swift and mighty flood that goes sweeping through the valley, carry-ing on its turbulent waters whirling -jams, branches of trees, and even broken bridge-timbers from the far country known as the "Antlers of the Souris When the summer is very Souris." When the summer is very dry, the river shrinks to a gentle, trickling thread of water, joining shallow pools, overhung with graygreen willows that whiten in the

At Millford, the Souris flows most straight east and keeps this direction for about three miles, and then turns sharply north toward the Sand Hill country, where six miles farther on it joins the Assiniboine. On one of its banks, just before it takes the northern turn, stands the farmhouse of Thomas Perkins, a big white frame house, set in a grove of maples; a mile south is the big stone house of Samuel Motherwell, where Pearlie Watson wiped out the stain on her family's honor by working off the old ten-dollar debt of her father's.

Two miles farther east, on the old Turtle Mountain trail, stands the weather - beaten schoolhouse where Martha Perkins got her meagre edu-cation and where Bud, her brother, Martha retained and where Bud, her promes, was now attending. The schoolhouse is bare and unlovely, without tree or flower. The rain and the sun, the scorching winds of spring and win-ter's piercing blizzards have had their way with it for many years, and now it defies them all, for its paint is all gone, and it has no beauty for them

A straggling woodpile and a long ary.

Three dows, curtainless and starn each side, and a small ing, ar porch with two steps leading up to it is at the south end. Here the gophers frolic in the quiet summer afternoons, and steal what is left of the children's dinners from the tin pails behind the door. The porch smells of crumbs.

Away to the east, Oak Creek runs Away to the east, Uak Ureek runs through a wooded belt of fertile lands, its tall elms and spruce giving a grateful shade to the farmers' cattle. To the north are the sandhills of the Assimboine, where stiff spruce trees shand like sortinals on the red sand. stand like sentinels on the red sand; but no tiny seedling had ever been brought to the schoolyard, no kind

hand had ever sought to relieve that desolate grayness, bleak and lonely as a rainy midnight in a deserted house. Inside, the walls are dull with age, so dark and smoked you would think they could become no darker shade, but on the ceiling above the long stovepipe that runs from the stove at the door to the chimney at the other end, here runs a darker streak still. The stove is a big, square box, set on four stubby feet, and bears the name "Sultana."

Some small effort has been made to brighten the walls. One of Louis Wain's cat pictures, cut from a London Graphic, is stuck on the wall with There is a picture of the late King Edward when he was Prince of Wales, and one of the late Queen Victoria, framed with varnished wheat. There is a calendar of '98 showing red-coated fox-hunters in full

Here the decorations end abruptly.

The teacher's desk is of unpainted wood, and on its lid, which lifts up, wood, and on its lid, which lifts up, revealing the mysteries of mysteries below, there run ancient rivers of ink, pointing back to a terrible day when Bud Perkins leaned against the teacher's desk in class. A black spot on the floor under the teacher's chair shows just how far-reaching was Bud's offence

The desks are all ink-stained and The desks are all ink-stained and cut and inscribed with letters and names. Names are there on the old desks that can be read now on busi-ness and professional signs in Western cities, and some, too, that are written in more abiding type still, on the marble slabs that dot the quiet on the river-bank.

The dreariness of the school does not show so much in the winter-time, when the whole landscape is locked in snow, and the windows are curtained by frost-ferns. The big boys attend school in the winter-time, too, for when there is nothing for them to do at home the country fathers believe that it is quite proper to pay some

festivities were over, and the Mani-toba winter was settling down to show just what a Manitoba winter can do in the way of weather. The sky was sapphire blue, with fleecy little strings of white clouds, an innocent-looking sky, that had not noticed how cold it was below. The ground was white and sparkling, as if with silver tinsel, a glimmer of diamonds. Frost-wreaths would have crusted the trees and turned them into a fairy forest if there had been trees; but there was not a tree at the Chicken Hill School, so the frost-wreaths lay like fairy lace on the edges of the straw-covered shed and made fairy frills around the straggling woodpile. Everything was beautiful, blue and silver, sparkle and dance, glitter and glimmer.
Out on the well-tramped schoolyard

he boys and girls were playing 'shinny," which is an old and honorable game, father or uncle of hockey

Big Tom Steadman was captain of ne side, and his fog-horn voice, as he shouted directions and objurgations to his men and his opponents, was the only discordant note in all that busy boisterous, roaring scene.

Libby Anne Cavers was on the other Libby Anne Cavers was on the other side, and Libby Anne was a force to be reckoned with, for she was little and lithe, and determined and quick, with the agility of a small, thin cat. She was ten years old, but looked about seven.

Never Trouble

There's a saying old and trusty, And good as any new-'Never trouble trouble

Till trouble troubles you." Trouble's like a thistle,
That hangs along the way;
It cannot fail to grab you
Some other bitter day.

But why not walk around it? That's just what you can do; Why should you trouble trouble Before it troubles you?

Trouble is a bumblebee, It keeps you always vexed
It surely means to sting you
The next time—or the next.

But, bless you, bee thinks only Of breakfast dipped in dew; Keep right ahead—this trouble Will never trouble you.

O, merry little travellers, Along life's sunny ways, When bumblebees and thistles Affright you at your plays.

Remember the old promise That your sorrows shall be few, you "never trouble you."

Till trouble troubles you."

-E. P. Allen.

Big Tom had the ball, and was preparing to shoot on the opposing goal He flourished his stick in the air with a yell of triumph, and in his mind the game was already won. But he had forgotten Libby Anne, who, be-fore his stick reached the ground, had slipped in her own little crook, and his stick struck the empty snow, and his stick struck the empty show, for Libby Anne was fast flying up the field with the ball, while the players cheered. It was neatly done.

Tom Steadman ran after her in hoppursuit, and evertook her just as she passed the ball to Bud Perkins, who has captain of her side. Then Tom Steadman ran after her in mad was the captain of her side. Then Tom Steadman, coward that he was, struck her with his heavy stick, struck fair and straight at her poor little thin shins, a coward's blow. Libby Anne doubled up into a poor little

whimpering, writhing ball.

A sudden horror fell on the field, and the game stopped. Bud Perkins attention to education.

It was a biting cold day in Januloked at her poor quivering little
ary. The Christmas and New Year's face, white as ashes now, his own face almost as pale, and then, pulling of his coat, ran Steadman stood over to "Drop yer stick, you coward, and

August 17, 1911

"Drop yer were, you county, and stand up to me," he said in a voice that rang with the blood-lust. Tom Steadman was older and big. ger, and he felt very sure that be could handle Bud, so his manner was foll of says and the felt were sure that be could handle Bud, so his manner was foll of says and the s

full of assurance.

The school closed in around them and watched the fight with the stolid indifference of savages or childre which is much the same thing B Tom Steadman dealt his cruel sledge hammer blows on Bud, on his face, head, neck, while Bud, bleeding, but far from beaten, fought like a nered badger. The boys did nered badger. boys did cheer; it was too serious a business for noisy shouting, and besides, the teacher might be aroused any minute, net and stop the fight, which would be a great disappointment, for every be and girl, big and little, wanted to see Tom Steadman get what was coming to him.

Bud was slighter but quicker, fought with more skill. Big Ton could hit a knockout blow, but there his tactics ended. He knew only the his tactics ended. He knew only as one way of dealing with an antagonist, and so, when one of his eye suddenly closed up and his nose began to bleed, he began to realize that had made a big mistake in hitting Libby Anne when Bud Perkins was there. With a clever underarm hot Bud clinched with him, and he f.

heavily.

Libby Anne, limping painfully, put
her "shinny" stick into Bud's hand
"Sock it to him now, Bud," she
said, "now you've got him."

Bud dropped the stick and tried to laugh, but his mouth would not work right.

"Get up, Tom," Bud said. "I won't hit you when you're down. Stand up and let me at you again."

Stand up and let me at you again."

Tom swore threateningly, but
showed no disposition to get up.

"I guess he's had enough." Bel said.

"He's sorry he hit you ner,
Libby Anne. He sees now that it's,
dirty shame to hit a little girl. If
mover thought much about it before
Come away, kids, and let him think!
When school was called, the who
story of the fight came out.

Tom Steadman was the only age of

Tom Steadman was the only son of one of the trustees—the trustee, in-deed, the one who lived in the bigges house, was councillor of the munic

pality, owned a threshing-machine, boarded the teacher, and made poli-ical speeches—and so Bud's offens was not a slight one.

A school meeting was called, to w what was to be done. Young Ton was there, swollen of lip and nose, and with sunset shades around both Libby Anne was there, too, but she had been warned by her father, poor, shiftless fellow, living on a ren d farm, that she must not say any thing to offend the Steadmans, for Mr. Steadman owned the farm that they were living on.

The trial was decided before it began. The teacher, Mr. Donald, wa away attending the Normal, and him place was being filled by a young fellow who had not enough courage to stand for the right

The question to be decided was the Did Tom Steadman strike Libb Anne with intent to hurt her; or d "shinny on her own side"; or did service un under his stick when he street at the ball? Tom Steadman said share the ball? ran under his stick, and he didn see her, whereupon some of the chi-dren who were not living on rents farms groaned. Several of the chidren gave their testimony that To had without doubt struck her "

(Continued Next Week)

********** The Upware *********** The Nature of

No. 21 There is no fear in lo love casteth out fear hath torment. He tha made perfect in love

Did we but underst trous consequences that we allow ourselves to li overned by our fears frem them as we would tilence. Our fears for apon themselves. The tertain them the large formidable do they will but let them they hey cover our whole h

In this department la tated that the spirit ato our hearts by Sat the spirit of powering of fear. Just in permit Satan's spi irit of power departs. ss, fear and power hese, rear and power the same mind at the pear, therefore, being of the must fight it just a we would any other for



7, 1911

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MARGES SECRETARIOS SECRETARIAN The Upward Look

The Nature of Fear

No. 21

There is no fear in love: but perfect love casteth out fear; because fear hath torment. He that feareth is not made perfect in love.—1 St. John

Did we but understand the disas-rous consequences that result when

There are many forms of fear. There is the fear of poverty, ill health, loss of friends, ridicule, failure, death. In whatever form it manifests itself, if it prevents us from listening to the inner voice which whispers to each one of us, "Trust in God and do the right," counting not the cost, troubling not about the outcome, then it is ain. If we are loving and trusting God as we should we need have no fears, because perfect love—love to Gos.—casteth out fear. He that fear-fears we have a fear in the contagious. If our friends find that we are fearing some expected disaster are fearing some expected disaster have begin to fear it too. When a busing we have leading the fear soon communication themselves to think of failure in his business his fears soon communicate themselves to

Did we but understand the disastrous consequences that result when we allow ourselves to listen to and be governed by our fears we would fee from them as we would from a pestilence. Our fears feed and grow upon themselves. The longer we entertain them the larger and more definition to the street of the second our whole borison.

In this department last week is was stated that the spirit of fear is sentiate our hearts by Satan. God gives into our hearts by Satan. God gives as the spirit of power; Satan the spirit of fear is got in the spirit of power; Satan the spirit of fear to gain entrance in our thoughts God's everything to five the spirit of power; Satan the spirit of power, Satan the spirit of fear to gain entrance in our thoughts God's quit of power departs. Sin and holished the spirit of power is the spirit of power is spirit of power in the spirit of fear to gain entrance in our thoughts God's quit of power departs. Sin and holished the spirit of power is spirit of power in the spirit of power is spirit of power in the spirit of fear to gain entrance in the spirit of power is spirit of power in the spirit of power is spirit of power in the spirit of fear to gain entrance in the spirit of fear to gain entrance in the spirit of power is spirit of power in the spirit of fear to gain entrance in the spirit of fear to gain entrance in the spirit of power is spirit of power in the spirit of

in God never has any long abiding fear because the exercise of simple, trusting prayer soon expels it from the heart. Such always have with them a sense of protection, and the very realization of this makes their wotaction complets. protection complete.

A man or a woman who has once discovered God's power and willing-ness to help when he or she but trusts, and serves Him aright, gains a power that makes the accomplishment of what may seem to others wonderful results a comparatively easy matter what may seem to others wonderful results a comparatively easy matter. Their calm confidence in themselves inspires confidence in others, and thus by virtue of the law that like attracts like (mentioned previously in the case of thoughts of fear) they continually attract to themselves from all quarters the aid of those whose assistance will be of value to them. Because they refuse to allow fear to dominate them they in turn dominate them they in turn dominate them they in turn dominate to move on from small victories at first to larger and more important ones later. In all this there is a great Divine law which has ordained, in the words of Christ. "all things are possible to him that believeth." (St. Mark 9:23.)

Mark 9:23.)
Let us recognize this great principle and banish our hampering fears as we would Satan himself. If they persist let us but pray, and trust and work, all three, the harder, for "what things so ever ye desire, when ye pray, believe that ye receive them, and ye shall have them." (St. Mark. 11, 24.)—1, H. N.

(15)How Ridiculous

The Friend: "Your wife doesn't appear to be in very good humor."

Husband: "No; she thinks I've invited you to dinner."





Let's make a Jelly Roll-With FIVE ROSES flour.

Its Strength and Fineness hold your batter together in the long well-greased

Bakes evenly.

Smooth Texture-soft, golden Crumb, spongy, porous, yielding.

No holes, nor lumps to vex you.

And when you turn it out on the damp napkin hot and savory, and you spread the under side with "jell"—

It doesn't get soggy nor crumbly. Roll it gently, carefully. Not a crack-not a break.

Not a *Graux*.

Perfect Smoothness—a Perfect Roll—Yours.
Bake anything, make anything.
Use FIVE ROSES—bread and pastry.

Melting puff paste-flaky pie crust-crinkly fritters-tooth some rolls.

FIVE ROSES for anything—everything. Be flourwise.

Not Bleached



Not Blended

ING COMPANY, LIMITED MONTREAL

***************** WHEN NOT TO LEAVE THE FARM From a little conversation that had with a gentleman in town the other night I have decided, that while other hight I have decided, that while it may be all right for me, a young man, to go to the town looking for work if the boss can't find a steady job for me, it certainly isn't all right for the farmer who has spent the best

CAPABLE **OLD COUNTRY** DOMESTICS

Arriving Aug-5th. Aug. 19th, Sept. 3rd, and weekly after. Apply now The Guild, 71 Drummond Street, Montreal, or 14 Grenville Street, Toronto. Ont.

execceseseseseseseses portion of his life on the farm to sell out and go into business in town. Last Saturday night, after having supper, Saturday night, after having supper, milking eight cows, and fing up the horses for the night, I rode into town on my wheel to see the sights and more particularly to got a pass of shoes repaired. It was used, "shoes repaired by the wait," and while I was sitting hands in one chair. while I was sitting back while I was sitting back in one chair with my feet up on another to avoid the litter on the floor, and looking around the miserable old shop and noticing the cobbler as he drove nail after nail. it occurred to me that he had a pretty poor life indeed, compar-ed with that of even the average far-mer in the aguntry. in one chair her in the country.

He was unusually intelligent for a

man in his position, and soon we were discussing various questions. Gradu-ally it came out that the cobbler had at one time been a fairly prosperous farmer. Attracted by the easy life larmer. Attracted by the easy life and the apparently large profits of some of his friends who were mer-chants in that same town, he decided to sell out and go into the grocery

> St. Lawrence Sugar Refining Co. Limited,

"I started to go down from that day on," said he with a sigh. "I knew practically nothing about business: I was a poor buyer, and was not wise in the giving of credit. In less than two years I had to give up my business, and had just enough left to establish a retail liquor business. My! but that was a terrible year! The but that was a terrible year! The next year I was working as a hired man at odd jobs around town. On the farm, while we did not heve many the farm, while we did not here many as the luxuries of life, we were always as the luxuries of life, we were always used to be supported by the luxuries of life, we were as the luxuries of luxuries of the luxuries of luxu

I have run across two or three other similar cases of men of middle age who had left the farm and lost their all in an attempt to make an easier living in town. Having paid the living in town. Having paid the cobbler the ten cents he charged me (a pretty hard earned ten cents). I started back for home more decided started back for home more decided than ever that the country was a good place for the middle-agod farmer to stay in, and, perhaps, a pretty fair place for the country boy as well who knew no particular trade even if conditions on the farm were not just such as he would like to have them.—
"Another Hired Man."

Beeccesessessessesses THE COOK'S CORNER

De nousement de la company de

cupful of sugar, two table poonfuls spoonfuls of butter, one cupful of chopped raisins and cinnamon, one cupful of sour milk, one teaspoonful of soda, two cupfuls of flour. Bake in a loaf. PUMPKIN PIE a loaf

One and one half cupfuls of steamed and strained pumpkin, two thirds of a cupful of brown sugar, one teaspoonful ful of cinnamon, one half teaspoonful of ginger, one half teaspoonful of salt, of ginger, one man reaspoontul of sale, two eggs, and one and one half cup-fuls of milk, one half cupful of cream. Mix ingredients in order given and bake in one crust.

CUSTARD OR CREAM CAKE CUSTARD OR CREAM CAKE
Cream together two cupfuls of
sugar, half a cupful of butter; add
half a cupful of sweet milk, in which
half a beaspoonful of soda has been
dissolved. Beat the whites of six eggs
to a stiff froth and add to the milk. dissolved. Beat the whites of six eggs to a stiff froth and add to the mix-ure. Have one heaping teaspoonful of cream of tartar stirred thoroughly into three cupfuls of sifted flour and add quickly. Bake in layers in a moderate oven.

moderate oven.

Outstand Pilling

Put two cupfuls of sweet milk into a pan; set it on the range in a kettle of boiling water. When the milk comes to a boil, add two tablespoon-luke of corn-starch or flour sifted into his control of corn-starch or flour sitted into for each start of the control of flour sites and a little cold milk. Stir this control of the boiling milk and when cooked the boiling milk and when cooked on the boiling milk and when cooked on the boiling milk and to cool. Flavor with said to to cool. Flavor with said to the control of the con

Two eggs, three fourths of a cupful of sugar, one half of a cupful of butter creamed with the sugar, six tableter creamed with the sugar, six table-spoonsful of sweet milk, two heaping teaspoonsful of baking powder. Flavor to taste. Add a pinch of salt. Use enough flour to mix as stiff as you extend stir with a spoon. Shape about four inches long and bake in a quick oven. After a few trials you will learn how stiff to make them.

Patterns 10 cents each. Order by number and size. If for children a give age; for adults, give but mas give age; for adults, give but mas caure for waists, and waist mesure a for skirts. Address all orders to the Pattern Department.

GIRLS' SAILOR SUIT. 70%



The sailor one that a in demand girls. This finished blouse that med at t t th made with an appl yoke.

The quant material for the 10 y is 6 yards yards 36 or 44 inches wi yard ide for lar and c standing This patt

of age.

GORED PLAITED SKIRT MISSES AND SMALL WOMEN, 7099



The plaited skirt always a becoming one to slender ag it suits young girls and small women peculiarly well. This ome is cut in con-formity with the ures.

formity with the latest style.

For the 16 year size will be required 7% yards of material 27, 4½ yards 36 or 44 inches wide, width of the size. width of the ski edge is yards, 1% yards when plaited.
This pattern is cut in sizes for misses
14, 16 and 18 years of age.

ONE-PIECE BLOUSE, 7077



The blouse that is made with pointed yoke and trimming portions is a new one and extremely attractive. This one includes a girdle that is smart and generally better that is smart and but which is not ob-

For the medium size will be required 2 yards of material 27 inches wide, yards 36 or 44, w 1½ yards 27 inc wide for the tr ming, ½ yard of over lace for y

and under sleeves.
is cut in sizes 34, 36, 33,
ich bust measure. 40, and 42 inch

LONG COAT. 7087



fitted coat with a big co a fashionable a fashional for many uses one will be appropriate
every material
is used for
coats The big
can be cut
round or square
line.

line.
The quantity material region to the medium; is 7 yards 27, 6 y 36 or 5/2 yard inches wide, with yard 27 inches for collar and or This pattern is in sizes 34, 35, 35, 42 and 44 inch measure. vards xeett-244444 **OUR FARME**

...... PRINCE EDWA

August 17, 1911

KING'S CO., CARDIGAN BRIDGE, is completed. It was whalf a crop. The weath Grain is ripening want of rain. P Turnips are ba small fruit are and small spects for apples are framethy is left for seaftergrass are poor.—H

NOVA SC ANTIGONISH, August about completed, with selow the average. average. tinues very dry, and grain crops are suffer doing fairly well, but to plentiful. The milk flow as the pastures are penilk is \$1.00 a cwt. Bu QUEBE

RICHMOND C DANVILLE, August 7 bry and warm. The h dry and warm. The h grain crop heavy; co good. The latter seemin by the dry weather. The of all kinds of fruit. I eggs, 25 per doz.; milk yro weight, \$4; pork, dr 450 onch.—M. D. B.

PONTIAC CO. SHAWVILLE. August Pontiac Co. have cut one crops we have had for y was not winter killed, a was not winter killed, a ing, owing to abundance ing along fine. There h of pasture, and the dairy plenty of milk. The yi hay will run about t peas, and oats, corn and root crops are promisis Farmers are all lookin prosperous year.—J. A.

prosperous year.—J. A.

ARGENTEUL C.

ARGENTEUL C.

LACHUTE. Aug. 8.—Pa
shed haying. It was af
farmers have as much a
gramers have as much a
young to the
swing, but owing to the
swing but owing to
der. The owin has re
flects of the hail and is
taken are poor crop of
access are a poor crop of
not amount to much un
son. Pastures are picke weather, and turnips and not amount to much un soon. Pastures are picke milk flow has fallen low have commenced feeding to cows.—A. B.

EASTERN ON NEWBORO, August 9.—
of this part of the count ticularly fortunate in

WINDM Grain Pumpi Tanks Gas at

> Engine Conci Write f GOOLD. MUIR C BRANTFO BRAN WINNIPEC

PARAFFINE d Parafilne Wax ges. Oderless. Book—all about WAVERLY Fit WORKS CO., tndependent Oil Re

4 CENTS P



It is most important to use THE BEST SUGAR for

Make YOUR preserving a certain success by using

PRESER

The 20 pound bags

are convenient-also sold in 100 pound

17, 1911

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7016 dilor suit t a ways ad for lis his one

and made whiel

shield and collar. tern is cut for girls

IRT FOR N. 7099 ed skirt becoming

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required material cds 36 or wide, e skirt at edge is ed. or misses

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one This found for that long collar

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coom

Keese-sessessessesses OUR FARMERS' CLUB

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

CARDIAN BRIDGE, August 7.—Haying
is completed. It was well saved, but only
haf a crop. The weather is very hot and
for want of rain. Potent, and suffering
for want of rain. Potent, and suffering
self. Turnips are backward. Cherrica
and small fruit are a fair yield. Prospects for apples are fair, Quite a lot of
insulty is left for seed. Prospects for
aftergram MOVA SCOUTS.

aftergrass are poor—H. P.

ANTHONISH CO., NOVA SCOTIA.

ANTHONISH CO., NOV

OUESEC.

PANVILLE, August 7.—The weather is dry and warm. The hay crop is good; grain crop heavy: corn and root crop god. The latter seemingly is not affected by the dry westher. There is a good crop sold the state of the stat

150 octh—M. D. R.

SILAWVILLE, August 11.—Farmers of
Postiac Co. have cut one of the best hay
crops we have had for years. The clover
was not winter killed, and the new seeding welling to abundance of rain, is comordered to be the company of the company
of pasture, and the dairy men are getting
plenty of milk. The yield per acre for
hay will run about two tons. Wheat,
pes, and oats, corn and potatoes, and ali
root crops are promising good returns,
ord crops for promising good returns,
ord crops are promising good returns
ord prospersus year.—J. Aling forward to a
prospersus year.—J. A. ARGENTERIL CO. OLIF.

ARRESTORY AND A STATE OF THE ARREST AND A STATE OF A ST

EASTERN ONTARIO

LEEDS CO., ONT.
NEWBORO, August 9.—A small section
of this part of the county has been particularly fortunate in this year's hay

WINDMILLS **Towers Girted** every five feet apart and double braced Grain Grinders Pumps

Tanks Gas and Gasoline Engines Concrete Mixers

Write for Catalogues GOOLD, SHAPLEY &

MUIR CO. LIMITED BRANTFORD - CANADA BRANCH OFFICE WINNIPEG, MANITOBA

crop. Very little clover was winter killed, and the dampness of April and the heat of May was favorable, and clover was an excellent crop. Occasional showers in June helped the timothy, and the majorily of farmers report a cut far above last year in quantity. Very few have below an average crop. The warm weather during the control of the control of

DURHAM CO., ONT.

BLACKSTOCK. August 6.—Harvest is in full siving. Cutting will be pretty well through by the 16th or 15th. Crops in Cartwright are looking fairly well. A quantity of the oats have failed to fill. There will be a quantity of light grain. Spring what is not good Barriey is a very good crop. Peas will probably yield well—R. Y. P.

well.—H. F. P. The sease will probably yield well.—H. F. P. The sease will probably yield well.—H. F. P. The sease will be seased as a very cately month for making hay. Early cut hay was secured in good shape. Beaver hay will not be cut for a week as the meadows are under water. Corn, roots, and pointoes promise to be a good crop; also apples. Hucktheberries are a thin crop; raspberries and blackberries are very pleatiful. The hay crop in this section of the sease was a sease of the sease which we will be seased as the sease which we will be seased as the sease will be seased as the sease which we will be seased to be seased as the sease which we will be seased to be seased as the sease which we will be seased to be seased as the sease which we will be seased to be seas

WESTERN ONTARIO

WESTERN ONTARIO

BRIE VIEW, August 7.—Harrest is about ended here. Threshing is the order of the day. Grain is turning out better than expected. Oats, wheat and barley promise a very fair crop. Since the last rains pastures have been looking up. Dairy cows are giving a good flow. Since the creamery men control the milk business, beef cattle seem to be more plentiful. Hogs are selling at \$5.50; butter. \$500; Dairy coggs, 160. Nome farmers are fighting ragweed.—P.

ragweed.—P. B.

GOLSPIE. August 9.—We are all very busy hauling in grain this week. We will almost finish the harvest if the weather keeps dry. Oats are very light in grain, in this section. Fall with the property of the p

creameries this enason.—A. M. McO. the creameries this enason.—A. M. McO. The M. DDLFERX CO., ONT.
TEMPO, August II.—Weather continues dry: a day's rain would be acceptable. Harvest is mostly gathered, and is inclined to be light. Grain will average to the state of the continue of the

acreage will be short.—J. E. O.

HURON CO., ONT.

HURON CO., ONT.

BLYTH. August 7.—Weather conditions have had mush to do with the quality of the crops. In sections where plenty of to the average, where other neutrino to the average, where other severely for the want of rain; principally the lake section. The windstorm of a couple of weeks age did much damage to fruit, corn, and so forth, while one strip of country get haded out completely. The apple crop of haded out completely. The apple crop is the complete crop of the completely apple crop of haded out completely. The apple crop of haded out completely apple crop of haded out completely apple crop of haded out completely. The apple crop of haded out completely. The apple crop of haded out completely apple crop of haded out completely. The apple crop of haded out completely. The apple crop of haded out completely apple crop of haded out completely. The apple crop of haded out completely apple crop of the apple crop of

BRITISH COLUMBIA

PARAFFINE WAX
Pure Bound Parasine Wax in 100 lb. dust
proof parages. Oderless. Tasteless, Pree
- lie Fuer Book.— all about oils and wax.
WARTH St. WORKS CO. . PITSUBBOOL PA
Interprependent Oil Refiners
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AYRSHIRE NEWS

Farm and Dairy is the recognized exponent of the Dairy interests of Canada. Breeders of Ayrshire Cattle and all members of the Canadan Ayrshire Breeders' Association are invited to sond items of interest to Ayrshire breeders for publication in this column.

A. S. TURNER & SON'S AYRSHIRES

A. S. TURNER & SON'S AYRSHIRES

One of the finest herds of Ayrshire eatter in Catala, which in this case is to say the world, so the control of the first and the control of the control o

good producers. Almost without exception they were long low set animals, showing strong, vigorous constitutions, well developed udders and good tests, well developed udders and good tests, Turner is able to hold his own, h. Mr. Turner is able to hold his own, h. Mr. at tall at the London, Ont., exhibition, He intends to show at the Toronto exhibition this year.

at the London, Ont., exhibition. He intends to show at the Toronto exhibition this year.

One of the best animals in the herd is a second of the control of

7,39.50 the nilk and 302.54 bbs. butter fat in 28 days. Scotland Princess 2nd, a mature cow, has a record of 10,328 bs. of milk and 45,52 bbs. of butter fat. The first cow was started by Mr Turner in the Record of Performance test in February, 1938. This animal was Barton Princess, which produced 9,350 lbs. of milk and 381 bbs. of butter fat. The records made by Mr. (Concluded on Page 19.)

Bigger Cream Checks Sure For Years To Come

> Just because a separator skims close is not sufficient reason for buying it. Equally important is the question of durability

An I H C Cream Harvester was put to a year's test at the factory—running steadily for 10 hours every working day. This is equivalent to 20 years of ordinary use, figuring on a basis of half an hour's daily service. Yet in all this time there was no perceptible wear. What better proof of I H C durability can you ask?

H C Cream Harvesters Dairymaid and Bluebell

have been paying cow owners big dividends for years. Their skimming qualities are unequalled—their ease of turning—ease of cleaning—and durability are easily proved by the testimony of owners. Why not investigate?

durability are easily proved by the testimony of owners. Why not investigate You will find that I H C fream Harvesters are the only separators with dust-proof gears, which are easily accessible. The frame is entirely protected from wear by phosphor bronze bushings. The I H C has large shafts, bushings, and bearings. The patented dirt-arrester removes the finest particles of dirt from the milk before the milk is separated.

I H C Cream Harvesters are made in two styles—Dairymaid, chain drive, and Bluebell, gear drive—each in four sizes. The I H C local agent will be glad to point out the above features and many others, or, write nearest branch house for catalogues.

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Chicago USA

I H C Service Bureau

The Bureau is a clearing house of agricultural data. It aims to learn the best ways of doing things on the farm, and then distribute the information. Your individual experience may help others. Send your proble n to the I H C Service Bureau.



MARKET REVIEW AND FORECAST

Toronto, Monday, August 14.—Trade in wholesale circles is normal. In some quarters where business will be affected by the result of the fight on reciprocity there is a tendency to stand still and await the result. Apple dealers, for inthere is a tendency to stand still and await the result. Apple dealers, for in-stance, are very slow at making deals for their apples until they find out whether or not they will have an opportunity to dispose of this year's crop in the markets of the Eastern States. The action of the United States railways in reducing freight rates on fruit from Oregon to points in the Canadian West has made the possi-bility of free entry to the United States bility of free entry to the United States markets of particular interest to Eastern apple dealers, as the reduced rates will make it harder for them to compete with Oregon apples a; points west of Winniper. One promisent apple dealer stated to us recently that free entry to the New York markets would mean more to him than the loss of the entire Western market.

market.

There were very few changes in quotations on farm produce last week: Wheat is stronger with coarse grains and mill feeds unchanged. Cattle prices are practically unchanged. Hogs are still soaring. Call money rules here at 51-2 to 6 per



at dealers of delivered. Manufactured only by W. F. YOUNG, P.D.F., 1.3 Lymans Bidg., Montreal, Ca

AYRSHIRES

AYRSHIRES AND YORKSHIRES

HIGH-CLASS STOCK FOR SALE
Ayrshire calves and cattle, all ages;
Yorkshire pigs and superior sows bred—
Both sire and grade sire from imported

PROPRIETOR MANAGER Riverside Farm, Montebelle, Que

BURNSIDE AYRSHIRES JUST LANDED

12 Bulls fit for service, Sootch winners, 2 year old heifers, all bred to freshen in Sept and Oct. They are a grand strong lot of usefu heifers with good teats. Also a few good year

R. R. NESS. HOWICK, QUE.

AVRSHIRE BULLS

Young Bulls all ages up to one year. Three for immediate service, all from R. O. P. ock. Write for prices. James Begg, - St. Thomas, Ont. R. R. No. 1

Ayrshires

World's Champion herd for milk and production. Some young buils and buil calves, all from R.O.P. cows for sale. A grandson of Primrose of Tanglewyld in the lot. Address

WOODDISSE BROS., Tanglewyld Farm ROTHSAY, ONTARIO

THE SPRINGBANK HERD OF AYRSHIRES Contain more World's Champion milk and butter producers than any other herd in America. A few choice bull calves from resord breaking dams for sale at reason-able prices. Address

A. S. TURNER & SON, Ryckman's Corners, Ont. 3 miles south of Hamilton.

CHOICE AYRSHIRES

OMOIGE AYRSHIRES
FOR SALE—One Bull, 5 months. Several
choice bull caives, 10 grand good cows
and heffers, good costs and unders, big
specialty. Also choice large pure white
Wyandotte fowls at \$200 each, Martin's
strain Satisfaction guaranteed. Write
or come and see.

WILLIAM THORN, LYNEDOCH ONT.
Trout Run Stock Farm
Long Distance Phone in House.

On the whole wheat prices have ruled higher this week than on the week previous. Reports of serious damage by black rust in the Canadian Northwest and a danger of damage by frost gave the market an upward trend. The United States Government report also tended to send prices upwards. Prospects are good or still higher than the control of the control send prices upwards. Prospects are good for still higher prices. No. 1 Northern is quoted at \$1.031-2; No. 2, \$1.0154; No. 3, \$1.00144. Ontario wheat also is stronger, quoted at \$2c to \$3c outside, and new wheat, 78c to \$9c.

WHEAT

COARSE GRAINS

MILL FEEDS

Manitoba bran is quoted in Toronto at 21: shorts, \$23; Ontario bran, \$22; shorts,

At Montreal there is a temporary scarci ty of mill feeds. Prices quoted, which are purely nominal, are: Manitoba bran, 821; shorts, 822.550 to \$23; middlings, 824 to \$25.

HAY AND STRAW

HAV AND STRAW

The situation in regard to hay is unchanged, United States buyers keeping up prices with the market well supplied. Were it not for the Canadian supply even to the control of the control

HIDES

Latest quotations for city hides are: No. 1 inspected steers and cows, 121-2c; No. 2, 11-2c; ivity caff skins, 15c. The prices being paid for country stock are: Hides cured, 111-2c to 12c; green, 101-2c; Hides and pelts, 35c to 56c; horse hides, No. 1, 83; caff skins, 136 to 14c.

FRUITS AND VEGETABLES

The wholesale fruit market is well supplied with seasonable produce. Tomatoes dropped 25c a basket. Quotations are as dropped 25c a basket. Quotations are as follows: Cherries, 11 qt. bkt. 81,35 to 81.99; 6 qt., 60c to 75c; cauliflowers, doz., 81.90; cablages, crate, 82.5; caulmbers, bkt., 20c to 25c; wax beans, bkt., 55c; to-matocs, 11 qt. bkt., 25c; to-matocs, 11 qt. bkt., 56c, and corn on cot, doz., 10c.

Wholesalers are selling buckwheat at 5c to 7c a lb. in tins, and 63-6c in bbls., while strained clever honey is 10c a lb, in 60-b. tins: 5 to 10 lbs., 11c. No. 1 comb honey is quoted at 85 to 82.55 a dox.

EGGS AND POULTRY
The egg market rules firm. Receipts are not so large as they have been in past weeks. During the recent warm sould HONEY

are not so large as they have been in past weeks. During the recent warm spell shrinkage has been heavy. Strictly new laid eggs are quoted at 20c to 23c a doz. in case lots and fresh gathered at 18c to 19c. On the Farmers' Market eggs are

25c to 28c 25c to 28c. Quotations for poultry are: Chickens, Quotations for poultry are: Chickens, 16c to 19c; fowl, 14c to 15c; ducks, 13c to 14c. On the Farmers' Market chickens are 20c to 25c; ducks, 17c to 20c, and fowl,

At Montreal selected eggs in wholesale lots are quoted at 211-2c; fresh, 171-2c, and No. 1 fresh, 181-2c.

and No. 1 fresh is 100 CC.

The should be shou quotations the shipment of cream from Caradian points is again a factor in the

dary business. Quotations are as follows: Creamery prints, 23c to 25c; sollds, 21c to 22c; dairy prints, 19c to 29c; infecior, 15c to 15c. New cheese are quoted at 15c for large and 13 5-4c for twins.

HORSES

There being so few horses changing hands it is not possible to give any extended report on the horse trade. Prices are quoted purely nominal as follows tended report on the horse trade. Prices are quoted purely nominal as follows Good heavy draughters, \$250 to \$360; medium weight, \$350 to \$264. Good agricultural horses bring \$150 to \$250, and fair duality ones, \$100 to \$150. Express horses are greated as \$100 to \$150. Express horses are greated as \$150 to \$265.

LIVE STOCK

There have been no radical changes in the live stock situation this past week. Export cattle are as strong or perhaps stronger than a week ago, and choice bucher cattle have not declined in price. oucher cattle have not declined in price.

Butcher cows, however, are not in demand. A week ago to-day deliveries. at local stock yards were large, but clearing was brisk. A top price of \$6.30 was paid for an extra choice lot of export steers, but \$6 to \$6.25 was the ruling price for but \$6 to \$6.25 was the ruling price for the price of the hoice expor

were the off.

Extreme warm weather did not improve prices on the Tuesday and Wednesday markets, and trade was rather slow. Most of the offerings were of poor to medium quality, while the demand was for good quality, while the demand was for good was to prove the control of t nesitating to buy on account of bare pas-tures. Quotations are as follows: Ex-port cattle, choice, 85 to 86.25; medium, 85.55 to 85.90; bulls, 84.50 to 85.25; butch-er cattle, choice, 85.70 to 86; medium, 85.40 to 85.65; common, 84.50 to 84.90; com-mon to medium, 82.50 to 84.50; canners, 81 to 82; feeding steers, 85.25; stockers, 81 to 82; feeding steers, 85.25; stockers, 81 to 82; feeding steers, 85.25; stockers, 81 to 82; feeding steers, 85.25; 81 to 82: 84 to 84.75

\$4 to \$4.75. The market for milk cows is slow. The market for milk cows is slow. Choice milkers are quoted at \$60 to \$70: common to medium, \$25 to \$50, and springers, \$35 to \$50.

springers, \$35 to \$59.

Quotations for sheep have not improved,
ewes being quoted at \$5 to \$4.25; lambs,
\$6.50 to \$7.55; and buck and culls, \$5 to
\$8.50 to \$7.55; and buck and culls, \$5 to
\$8.50. Calves are \$8.50 to \$7.

Hog prices are still soaring, receipts
meeting with a ready demand at \$7.75 to
\$7.85 on the market and \$7.40 to \$7.45

To, b, country points.

f.o.b. country points:
The live stock market at Montreal is inactive, and prices have suffered a decline this past week. Northwest castle client the past week. The contract of the country of the countr

MONTREAL HOG MARKET

Montreal, Aug. 12.—Live hogs opened with a good demand, and offerings rather ander the average, prices occurs of the closing quotations of the closing duotations of the control of the cont average, prices being well main previous week, but towards the end of the week the demand fell off, and prices closed wih selects selling at \$7.50 and an easy tendency to the market.

O. K. Canadian U Bar Patented Steel Stanchions



Are free and easy on the cattle, but strong and durable, being made of high carbon U-bar Steel it is impossible to break or twist them out of shape. Theswing bar will not sag and guaranteed

Canadian Potato Machinery Co., Limited 127 Stone Road, GALT, ONT.

Homestead Holstein Stock Farm Offers for sale 2 Choice 5-year-old Cows of best breeding and heavy persistent pro-ducers, due to freshen Sept. 1st. Bred to Aggie Prince Pietertie C, No. 8413, one of the highest R.O.P. bred bulls in Can-

B. R. BARR. Harrietsville, Middlesex Co.

HOLSTEINS

WOODCREST HOLSTEINS



few choice Calves for sale; six at ten months old. Some of Homestead Girl De Ka

sons of Pietertje 22nd. Recently herculin tested by a U. S. inspects Write for pedigrees and prices.

WOODCREST FARM

RIFTON: ULSTER CO., - - NEW YORK

Lyndale Holsteins

Offers two, young bulls born Septemb 1910, one of them from a tested daugh of Brightest Canary and sired by a s of a 20.35 lb. yearling daughter of Reng veld De Kol.

BROWN BROS ., - - LYN, OM

HOLSTEINS



If you are wanting HOL STEINS, any age, either su GORDON H. MANHARD, Manhard

RIVERVIEW HERD

Offers bull ready for service. Sire, son of King of the Pontiac: dam, a daughter of King Segis with over 2 is butter at 3 years and 3 months.

P. J. SALLEY, LACHINE RAPIDS OF

LAKEVIEW HOLSTEINS

Three bulls fit for service and sermi bull calves. All sired by Count Heage wold Fayne De Kol, most of them from A. B. O. dams with record up to 24 libs be-ter in 7 days. Write for descriptive as alogue

E. F. OSLER,

HOLSTEIN CATTLE THE MOST PROFITABLE DAIRY HREED

Illustrated Descriptive Booklets Free HOLSTEIN-FRIESIAN ASS'N OF AMERICA L. MOUGHTON, SECY, BOX 145, BRATTLEBORD, 17

GLENSPRINGS OFFERS

Six fine pure bred bull calves from is to 10 weeks old. Every one from as di-cally tested dam. Golor markings toni very taste. Those that wish Hengerich are the control of the control of the those that wish the control of the con-posed blood secure one from this is feets Posch. Prices moderate. B. MALLORY, FRANKFORD, ONL.

FAIRVIEW FARMS HERD

-HAS FOR SALE-

Sons of Pontiac Korndyke, sire (world's record) world's record) to world world's record to the first whose fixed and the first whose records average 31.13 and the sire of seven for the first world world with the fixed world with the wongest bull of the breed it will be daughter.

by the daughters of any other if the youngest of the breed to the daughter. We also offer sons of Rag Apple to the the youngest of the breed to the youngest of the the youngest of the the daughter of the da St. Lawrence Co. XI

Near Prescott, Ont.

There was a fair tra hogs, fresh killed ab quoted at \$10.00 to \$10 EXPORT BUTTER
Montreal, Saturday,
no diminution to the
by the cheese market cheese market and prices at have also shown advances have oints. The pri-ek ranged from the bulk of the cheese 1238c to 127-16c a lb. 123&c to 127-16c a lb., most points commandis white. The strong man to the fact that suppl ducing countries is le ng to the dry prevailed all over the The English make is a most 30 per cent, less year, and as our ow to 15 per cent, behind this time last year, t able for distribution been so much les netition for supplies.

August 17, 1911

although the not to hand, yet, and Montreal are expected from last week, and week corresponding week a The market for but active, there being a demand for export, w

The shipments this

adily advancing ma teadily advancing ina tions to-day showed co-en the part of the dea-ing 241-2c to 243-4c fo creamery, with ordina at 26c to 241-4c. Under in small lines at 231-2c CHEESE M

CHESE M Madoc, Aug. 9.—555 doxes sold at 12 3-8c; b Campbellford. Aug. 12-16c; t Vankleek Hill, Aug. 10.—2016 colored at 12 7-16c. Brockville, Aug. 10.—1005 white. The sales 800 colored at 12 7-8c;

Ottawa, Aug. 11.—526 all sold at 12 3-8c for w lored.

Napanee, Aug. 11.-5 white were boarded; al

Iroquois, Aug. 11.—6 All sold at 12 3-8c. All sold at 12 3-8c. Kemptville, Aug. 11.—312 sold for 13c. Picton, Aug. 11.—1.098 766 sold at 12 1-2c, 243

Cowansville, Que., A ages of butter and 56 b nackages of butter sold es butter at 241-4c.

London, Ont., Aug. colored. Bidding: 12c at 127-12c to 127-16c.

PIGS & C WAN

Farm and would like to purshire Boars, Ch Boars, Ayrshire yes, and Holstein ves from 6 to 8

Write Circulation FARM AND Peterboro,

giving prices of anim

LOW COST, BI THIS SIZE SPACE (cents per insertion in to farm and Dairy. Tiving small advertiser ages as users of largeing the confusion disc. 2 cents a word per to For Sale and Want FARM & DAIRY A 17, 1911

STEINS

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and grand Recently to prices. ARM

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ple Kon-ag Apple thilde be iving the l sister? two 345

NS

There was a fair trade doing in dressed hogs, fresh killed abbatoir stock being quoted at \$10.00 to \$10.50 a cwt.

Begin role and abbatic stock being the second of the secon

corresponding week a year ago.

The market for butter is strong and active, there being a particularly good amand for export, which is causing a feedly advancing market here. Quotations to-day showed considerable strength on the part of the dealers, who ever upon 24 12 to 24 3 4 4 for in the contract of the contract ing 241-2c to 243-4c for linest Townships creamery, with ordinary finest Quebecs at 24c to 241-4c. Underfinest were offered in small lines at 231-2c to 243-4c a lb. CHEESE MARKET

Madoc, Aug. 9.—555 cheese boarded, 250 boxes sold at 12 3-8c; balance at 12 5-16c. Campbellford, Aug. 9.—325 boxes at 12 1-4c; balance at 12 1-5c; vankleek Hill, Aug. 10.—1,188 white and

Vankieck Hill, Aug. 10.—1,166 white and 201 colored at 12.7-16c. Brockville, Aug. 10.—2,635 colored and 1,005 white. The sales were 200 white and 800 colored at 12.7-8c and 140 colored at

Ottawa, Aug. 11.—526 boxes boarded and all sold at 12 3-8c for white and 12 7-16c for plored.

Napanee, Aug. 11.—560 colored and 800 thite were boarded; all sold at 238c and

121-196. Aug. 11.—653 cheese boarded. All sold at 123-8c. Kemptville, Aug. 11.—542 boxes boarded: 312 sold for 13c. Picton, Aug. 11.—542 boxes, all colored: 786 sold at 121-2c, 245 at 127-16c; balance unsold

unsold. Cowansville, Que., Aug. 12.—711 pack-ages of butter and 56 boxes of cheese; 403 pa-kages of butter sold at 245-8c; 259 pack-ages butter at 241-4c. Cheese all sold at 125-15c.

London, Ont., Aug. 12.—1,589 cases of colored. Bidding: 12c to 12.7-16c; 1,014 sold at 12.7-12c to 12.7-16c.

PIGS & CALVES WANTED

Farm and Dairy

would like to purchase York-shire Boars, Chester White Boars, Ayrshire Heifer Cal-ves, and Holstein Heifer Cal-ves from 6 to 8 weeks old.

Write Circulation Manager

St. Hyacinthe, Que., Aug. 12.—6.5 packages of butter sold at 23.54c, and 50c boxes of cheese sold at 11.4c.

Belleville, Aug. 12.—1605 white cheese offered. Sales, 455 at 12.7-16c and 890 12.38c.

Canton, N. Y., Aug. 12.—1900 tubs of butter sold at 261.4c; last week for 26c. 2200 boxes of cheese at 12 3-4c; last week for 12 3-8c.

A. S. TURNER & SON'S AYRSHIRES (Continued from page 17)
Turner have all been made since that date, which serves to show how rapidly his herd has come to the front.

Mr. Turner's farm is one of the successful competitors in the Interprevincial

the highest in Canada for 7 and 30 days for a junior 4-year-old. Three of these cows were mature, three were 4 years old and one was 3 years old.—Aylmer Express.

PUBLIC TO PARTICIPATE IN CANADA BREAD COMPANY, LTD.
Toronto, Aug. 16.—Following on the successful organization here of Canada Bread Company, Limited, the new big company, which will have its modern plants in all the larger cities of Canada, Mesers. Cawthra Mulock & Co., members Toronto Stock Brehange, announce an offering of \$1,50,000 of the 5 per cent. first mortigace sinking fund thrity-year gold bonds of the company at \$9.50, the same to carry with them a bonus of 25 per cent.



A Sister of a Noted Champion Cow

Proof is ever coming forward to substantiate that axiom, "Blood tells." This cow, Aaggie Mercedes, a junior 4-year-old, has established the new record for a cow of her age, 27060 lbs. butter in 7 days. She is a sister to Netherland Aggie KeKol, the cow that in 1399 completed the remarkable record of 21.666 lbs. milk in one year. Both cows owned by J. M van Patter & Sons, Elgin Co, once the control of the con

Farms Competition this year. At a later date in connection with the special series of articles descriptive of the prise farms, survey we shall publish in Farm and Dairy more about these Ayrahires and this farm.

about these Ayrshires and this farm.

MEETING OF MINIE A YPSHIRE CLUB.

The Menie Dittriet Ayrshire Club have arranged to hold a meeting at Mr. Wm. Stewart's Ayrshire stock farm, Menie. Ont., on Wedensday, Aug. 22rd. The program will include an address by W. F. Stephen at 19.9 a. m., his subject being "flow Best to Improve the Ayrshires by Theodorn and Feedings Bo That They Will Be Second to None."

At 1.00 p. m. Mr. Stephen will conduct a judging cless, using Ayrshires to illustrate desirable types of both males and females of different ares. Mr. Stewart's used in the competition.

All interested in Ayrshires in the five counties of Northumberland and Durham.

All interested in Ayrelitres in the nee counties of Northumberland and Durham. Hastims, Prince Edward and Peterboro, and the property of the p unties of Northumberland and Durham

Write Circulation Manager
FARM AND DAIRY
Peterboro, - Ontario
giving prices and ages
of animals

LOW COST, BIG RETURNS
THIS SIZE SPACE (one inch) costs, 58
cents per insertion in the display columns
of Farm and Dairy. This is a flat ratecents per insertion in the display columns
of Farm and Dairy. This is a flat ratecents per insertion in the display columns
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of Farm and Dairy. This is a flat ratecents per insertion in the display to the seven and thirty-day test for J. M. Vanpatter & Sons of Woodland Farm, Aylmer, Ont. Seven cows were entered in the
seven and thirty-day test for J. M. Vanpatter & Sons of Woodland Farm, Aylmer, Ont. Seven cows were entered in the
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seven and thirty-day test for J. M. Vanpatter & Sons of Woodland Farm, Aylmer, Ont. Seven cows were entered in the
seven and thirty-day test for J. M. Vanpatter & Sons of Woodland Farm, Aylmer, Ont. Seven cows were entered in the
seven day test. They averaged 597.99 lbs.
milk, and 20.58 lbs. butter. Six of these
coas were tested for thirty-day seat of
the control of the control of the control of the control
than the general program of the day.

ANOTHER RECORD BREAKER

Mr. R. Modomald of Gnoble Agreed
in all cost color of record of
merit tests. In a recently completed a
seven and thirty-day test for J. M. Vanpatter & Sons of Woodland Farm, Aylmer, Ont. Seven cows were entered for thirty-day test for
mer, Ont. Seven cows were entered in the
seven and thirty-day test for J. M. Vanpatter & Sons of Woodland Farm, Aylmer, Ont. Seven cows were entered for thirty-day test for
mer, Ont. Sev

of common stock.

Canada Bread Company, Limited, starts
out with plants in Montreal, Toronto and
Winninge, and these will be added to
forthwith so as to bring the total output
of the different plants up to one million
ouves of bread per week before the end
of the company's fiscal year. The \$1.00.0

Mo being placed in the treasury will be
sufficient, according to Mr. Mark Brea
sufficient, according to Mr. Mark Brea

din, the vice-president and general man-neer, to gradually increase the company's outual to two million loaves a week, which would make an annual production of one hundred million loaves at a week, which would make an annual production of one hundred million loaves. On the present plants and additional ones that will be erected forthwith Mr. ones that will be erected forthwith Mr. year should amount to \$825,009, equal to year should amount to \$825,009, equal to over three and one-half times the inter-est requirements on the entire bond issue, and with its present capital should stead-ily expand until its earnings reach over a trequirements on the entire bond issue, and with its present capital should stead-ily expand until its earnings reach over a trequirement on the entire bond issue. And the present capital should stead-ily expand until its earnings reach over a view of making the bonds more particu-larly popular with small investors the company has arranged to issue them in denominations of \$100 as well as of \$500 and \$1,000.

Geo. Laithwaite, of Goderich, Ont., Mr. Geo. Laithwaite, of Goderich, Ont., who has been making arrangements to hold an auction sale of his Jerseys, writes Farm and Dairv that he has recently sold a car load of his Jerseys. His remaining stock will be placed on the market about 15th of September, the date being not yet fixed. He will have 25 purebred Jerseys to offer and also 8 horses with coits; 5 sows with litters and 20 other pigs.

There is a report of Black Rust doing serious damage to our wheat crop. It will be too bad to have such a splendid crop injured at this stage.—L. J. N.

It pays to advertize. Try it.

160 ACRES of

SETTLER

Large areas of rich agricultural lands, convenient to railways, are now available for settlement in Northern Ontario.

Ontario.

The soil is rich and productive and covered with valuable timber.

For full information regarding homestead regulations, and special colonization rates to settlers, write

The Director of Colonization

Department of Agriculture, **TORONTO**

A GREAT LABOR SAVER



Did you ever think of what it costs some men to provide the necessary stable help? Labor is searce and time means more, You have a proper equipment.

Louden's Little Carrier has a box made of galvanized steel with either steel or it is water-tight. Its gear is very simple, yet atrong and durable. The track is done to suit any stable or passageway. If you use our Swinging Crane Hinge the litter may be carried far away from the stable without A postcard will bring you free catalogue, circulars and full particulars.

THE LOUDEN MACHINERY CO., Guelph, Ont. Cow Stalls and Stanchions, Feed and Litter Carriers, Barn Door Hangers, 3
Haying Tools, etc.

BREEDERS' DIRECTORY

card accepted under two lines, nor for less than six months, or 26 insertions during twelve months. Cards under this head inserted at the rate of \$4.00 a line per year. No

Ouchee.

DR. LEE'S COMPOUND ABSORBENT SPA-VIN BLISTER—Cures. Scientifically cor-rect. Write The Absorbent Spawin Blist-er Co., Toronto, Ont.

er Co. Torento, Ont.
HAMPSHIRE PIGS—Canadian Champion herd. Boar herd headers. Sows three months and under. Hastings Bros.
CVP18150A1ES-Home of Arms. (Imp.)
Roletins—Home of King Farne Seels Clothide, nearest 7 dams 27 hs. butter ner week, and Broken Welsh Ponics. R. M. Holtby, G. T. R. & P.O., Manchester, Ont., Myrtide, O.P.J.

SUNNYSIDE HOLSTEINS—Young Stock, all ages.—J. M. Montle & Son, Stanstead, Onchec. Plymouth Book and Orpington Fowl.—A. Onchec. Onches.

CLYDESDALE HORSES, SHORTHORN CATTLE—Large Selection of best Stock. Prices reasonable.—Smith & Richardson, Breeders and Importers, Columbus, Ont.

HOLSTEINS AND TAMWORTHS—All ages, also S.C.W. Leghorns. Young stock for sale at any time.—J. McKenzie, Willow-dale, Ontario.

TAMWORTH SWINE—Choice stock for sale at all times at reasonable prices. Correspondence invited.—Wm. Keith & Son, Listowel, Ont.

(20)



FARM **LABORERS**

AND CERTAIN POINTS IN WESTERN CANADA Including Points on Grand Trunk Pacific Railway via Chicago, Duluth and Fort Frances.

\$18 00 ADDITIONAL RETURNING

August 23rd

From all stations Toronto, North Bay and west in Ontario.

August 25th

From all stations Toronto and east of Orillia and Scotia Junction in Can-

Full particulars from any Grand Trunk Agent, or address A. E. Duff, District Passenger Agent, Toronto.

Order your telephone supplies from us

Prompt shipments and guaranteed satisfaction



At this season of the year, when new companies are constructing telephone lines and old systems extending their service, the demand for telephone supplies is heavy. But you can depend upon getting prompt service from us, because we always carry a large stock of all materials necessary for the construction of a telephone line, and because we make a specialty of prompt shipping.

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to-night and ask for our No. 2 Bulletin (Rural Lines.) Also tell us to include our latest and most interesting publication, a handsomely illustrated book called "Canada and the Telephone."

It will be to your advantage to get our prices on telephone supplies before placing your order. Our telephone materials are of first-class quality and fully guaranteed. On request we will send one or two telephones for a free comparison trial.

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KINGSTON and OTTAWA RIDEAU LAKES NAVIGATION CO.

Steamers leave Kingston every Monday, Wednesday, Thursday and Saturday at 6 a. m. Leave Ottawa every Monday,

Tuesday, Thursday, and Friday Finest Scenery en the Continent

GOOD FISHING D. NOONAN, V. P. & CEN. MAN., KINGSTON, ONT.

WHERE WILL YOU GO THIS SUMMER?

If you desire rest and recreation, why

"THE RIVER ST. LAWRENCE TRIP?"

Folders descriptive of the Thousand Islands, Rapids, Montreal, Quebec, Murray Bay, Tadousac, the far famed Saguensy River, etc., on application to any Railway.

For illustrated grids, "Niagara to the Sea," send 6c in postage stamps to H. Foster Chaffee, A.Q.P.A. Toronto, or Thos. Henry, Traffic Mgr., Montreal, R. & O. Navigation Oc.

LAND PLASTER Car Lots or Any Quantity

TORONTO SALT WORKS Q. J. OLIFF, Manager



lighter draft Genuine Manure Spreader

You can only buy one manure spreader with the Reversible, Self-Sharpening, Graded Flat-Tooth Cylinder—and that is the Genuine Kemp. Because of this Graded Flat-Tooth Cylinder

the Genuine Kemp is at least one-third lighter draft than any other spreader.

There is less friction on the Flat-Tooth

Cylinder, because the teeth are wide and graded.
On that account only one-third as many teeth
are required, which reduces the friction when the manure is passing through the cylinder The square or round teeth on ordinary cylin-

ders are not wide enough apart and the manure backs up, chokes cylinder, causing heavy draft

The manure cannot back up against the flat eeth, and because the flat teeth are graded they will handle and thoroughly pulverize all kinds of manure from the clear gum to the strawy

There are many other exclusive improvements n the Genuine Kemp. Our big catalog describes not illustrates them fully. Send for a copy and earn some new facts about manure spreaders.

There would be twenty times as many manure spreaders.

There would be twenty times as many manure spreaders in use in Canada today if farmers realized the economy of spreading manure with the Genuine Kemp. The Genuine Kemp will pay for itself faster than any other farm machine.

Send to us for Catalogue S 62. That's your first step. We are sole selling agents for Eastern Canada

FROST & WOOD CO., LTD. SMITH'S FALLS CANADA