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AN OIL FOR EVERY FARM MACHINE



Fourth War Year at the Canadian National Agriculture Well Represented in all Sections—Reduced Entries in Many Classes, However, Due to Shortage of Labor

The fourth way year at the Ganadian National Exhibition was observed as a celebration of Canadian Confideration. At the time of writing, the attendance has eetablished new records on several days, and chances look good to pass the millon mark, the number aimed at by the management. On all sides the oplinion was expressed, however, that had a smaller proportion of rural piople than ever hefore. Their absence was particularly marked in the live stock section and around the judging ring. Evidently farmers felt that they had more important business at home attending to their crops. The same factor had a tendency to relate the profiles in the live stock chazes, rown in numbers. Beef cattle and sheep, however, ware just about up to the standard.

Agricultural excluding were as attractive as usual, with a great extension in one department-farm implements. The work of the Ontario Government and the difficulty of getting farm work done with the help on hand has turned the attention of farmers more and more to the wildsworking implement and the tractor. There were almost a grounds inside of the one or two or previous years. They were of all types and sizes, caterpulars and fangred wheel trend, rein drive and self-steering, and from the little 5-10 to the powerful 12-25 machines. To demonstrate they usediness in a source of beit power, they were beited to threshing machines, enslinge blowers, limestone crushers, and feed the Ford ers attracted much attention, and many sales of this tractor devices

were made right on the grounds, ton exhibits of hid from of the bevegetable Growers' Competitions, were leading features of the Ontario exhibit in the Government Building. The prosperity that comes with dairying on the prairies was symbolized in the Alberta exhibit by some fine sculpturing in butter, depicting the log shit of the extinct, with the one cow on the other, with the comecting link between adversity and prosperity, a cream can. The attractive exhibits usually staged by the other three Western provinces were missing this year. The wool exhibit of the Department of Agriculture at Otawa was extended to take in one whole wing of finest exhibit of its kind ever seen in Ganda.

The Horses.

The outstanding feature of the horse exhibit was the increase in the proportion of Percherons, this bread now pressing the Clydesdale close for primary place in point of numbers. A splendid advertisement for the bread was the world-famous six-horse team owned by Swift & Co., of Chicago, while were shown in front of the grand stand twice each day. This is admitted to be the most beautiful beavy drat six-horse iteam in the distribution to the horse sections. At time of writing, the horse judging has not commenced. The names of the exhibitors are an index to the quality of the classes. In Clydes, the largest strings are those of Graham Bros. Claremont; Sir H. M. Pellatt, King; W. W. Hogg, Thamedroft L. J. C. Bull, Bramoton; Geo. Clayton & Son Grand Valley, and many obters with fower ontries. The principal exbibitors of Percherons are, J. B. Hogata, Weston; T. D. Elliott, Botton; Wm. Pears, Toconto; Wm. 6. Hill de

Sons, Queensville; and Arthur W. Dobson, Weston. Light horses were less numerous than for several years, but were representative of all breeds and types.

Teed cattlemen held up their end at the show in great style, and Shorthorns, if grades and steers are considered, were more numerous than any other breed on the grounds. Barron, of Carberry, Man, who was expected, did not sarive. The principal Ontario Sunderland, Ont. J. A. Wuit, Enors, Jas. Leask & Son, Seagrave; Kyle Bros, Drumbo; W. C. Edwards & Co., Rockland; Geo, Amos & Sons, Motfatt; Jano Gardhouse & Sons, Weston; and J. J. Elliott, Gualpö, All of the usual exhibitors of Hersfords series on hill, L. O. Hifford, Osharen, C. 2. Reynolds, Flora; Jas. Paper, Wallasctown; and W. Reachead, Milton, Aberdeen-Angus are unsually strong, with the following contestants; Jao, D. Larkin, Lowe, Elon's, and T. B. are to be judged in the necond week of the Fair.

of the Fair. Dairy cattle, fully reported elsewhere in this issue, were not asstrong numerically as usual. Scarcity of labor and the high price of feed were both contributing factors to the decrease. Holsteins and Ayrshires lost the most in point of numbers. R. J. Flening was absent from the Jersey lies and the shalence, an Jecchibioros as atrong as in most previous years. A small string of Guaranews wave exhibited by Cartis Heasilp & Son, Fenwick, Ont. For the most part they were a poor advertisement for the hered.

Sheep and Swine.

The sheep pens were full, with all breeds well represented; high prices for mution and wool are evidently ecerting a situration of the second second problem of the second second second neutrino and second second second Norman Park, of Norwich, and G. H. Mark & Son, Calittle Britain. Lelecetors were exhibited by John Packham & Sons, Calistor Centre, A. & W. Whilaw, Guelph; John Keily & Sons, Calistor Centre, A. & W. Whilaw, Guelph; John Keily & Sons, Calittle Britain. Lelecetors were exhibited by John Packham & Sons, Calittle Britain. Lelecetors with the following competitors. John R. Keiser, Woodville; John D. Larkin, Queenstori, A. Shidal & Son, Canfield; George D. Bretzner, Copetow, and individual entries. Oxford Downs brought out A. A. Arm strong. Fregue; E. Bachour & Son, Heaverular. Sonkhowns were represented by the flocks of J. W. Springstead & Sons, Calster Centre; John D. Larkin: Hamoton Brox, Perens. and

Hilliburg, and Peter Arkell & Sons, Teeswater. Southdowns wore represented by the flocks of J. W. Springstead & Song, Calster Centre; John D. Larkin; Hampton Bros., Fergus, and Robt. McDwan, London. Dorset Horned classes were well filled by James Robertson & Sons, Hornby; W. S. Wright & Sons, Glanworth; Coell Stobb, Leemington, and John A. Orchard, Shedden. Hampshire Downs: A. S. Wilson, Milton; Teiford Bros., Paris, and John Kelly & Son. Suffolks, least numerous of all, brought out the flocks of Jas. Bowman and Hampton Bros.

Swine were few in number compared with any of the past five years. Here the reconst high prices and great demand for breeding stock was a fail and sufficient explanation of the shortage. Yorkshires were most numeous, with the following well-known breeders represented: John Duck, PL East wh

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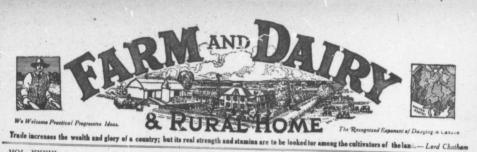
Mr. Nak Jersey. and has voted to To fai practical message falfa an; of June it." Hun of the in during t failure. 1895 unti each yea Mr. Ne with alfa in his ho over a d mine whi his desk letters, m who sour advice gi had follo who seen into a fra ual appre Nelson sa the world

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worked or to own on I bought mouth Cou soon realis phant on 1 ness in No attention, to give to farm or farming. bought the of mine v sively in t 1,000 acres alfalfa and it was goin me to try i

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VOL. XXXVI

TORONTO, ONT., SEPTEMBER 6, 1917

An Experience of 20 Years in Growing Alfalfa

Six Years of Failure and 14 Years of Success. A Story With Many Lessons for the Canadian Farmer - By Melvin Ryder

66 A LFALFA is the greatest stuff in the world," says John P. Nelson, of Allentown, New Jersey, "and farmers in the

town, New Jeresy, "and farmers in the Dast who want to raise it can do so profitably." Mr. Nelson is the man who brought alfalfs to New Jersey. He has been raising it ever since 1896, and has now 105 acres of his 12° acre farm devoted to this "Queen of Crops."

To farmers who are in doubt regarding the practical nature of the crop, Mr Nelson has a message. It is this: "Come over and see my alfalfa any time from the 35th of May to the 1st of June and you will go home determined to grow it." Hundreds of farmers have taken advantage of the invitation during the past 14 years. And during that time Mr. Nelson has never had a failare. During the first six years, however, from 1995 until 1901, the crop failed in whole or in part ach year. That was before he learned to grow it.

Mr. Nelson recently told me of his experiences with alfalfa since 1856. I found him in the office in his home near Altentown, New Jersey, studying over a dozen different samples of seed, to debrmine which he should huy for use this year. On his deak and in his files were letters and more letters, most of them regarding alfalfa, from men who sought information, from men who told of advice given by Mr. Nelson and the success that and followed, and from fellow growers of alfalfa.

who seem to be all linked together into a fraternity, bound by the mutual appreciation of the crop that Mr. Nelson says is "the greatest stuff in the world."

Mr. Nelson's Story.

The following is the story that Mr. Nelson told me,-practically in his own words throughout:

"Previous to 1895 I had never worked on a farm or had any desire to own one. In the fall of that year I bought 92 acres here in Monmouth County, New Jersey, and very soon realized that I had a white elephant on my hands, as I had a business in New York that required my attention, and therefore had no time to give to either learning how to farm or to the practical side of farming. Just a short while after I bought the farm, however, a friend of mine who had travelled extensively in the West, and who owned 1,000 acres in Kansas, told me of alfalfa and what a wonderful plant it was going to become, and advised me to try it. I started in right then

and wrote for some seed, began to try to find out about the crop and its cultural needs. I had the ground prepared just as I would for clover and sowed three acres in the spring of 1896. It came up all right and looked fine, but the crab grass outgrew H, and by September 1, there was no alfalfa to be seen.

"That first year didn't discourage me, and I tried again the following year with one acre on another part of the farm. It came up all right, I didn'r have apy trouble with the weed, and I thought I had succeeded, but when the plants reached six inches in height, they stopped growing. I waited a while, but they remained stationary the rest of the season, and so I decided that there wasn't any plantfood, and that I ought to put on manure. That winter I had twenty loads of fine manure spread over the acre, and the next spring there was no alfaila left.

And Still Another Failure.

"Then I took three acres on still another part of the farm and sowed that with the same result as the last. It simply would not rrow. I cathod in my Kansas friend and took him DT. to the field about the middle of July and showed it to him. He advised me to be patient and leave it alone, as he understood it seldom dif much good the first year, but I had a lot of stock and not much feed, so I plowed the field under and drillad it in fodder corn.

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"I began to think I was licked, but by the next spring I had cooled off somewhat and was absolutely determined that I was going to grow alfalfa. This time I took 12 acres. I feit that I simply must get it—by luck or accident—but again the crop was a failure. My farm has puble roads on three sides and everyone passing could see what was being done and began to say I wus cray. I had bought the farm at the sheriff's sole in the first place, and my neighbors began to think there was going to be another job for the sheriff.

"I felt that I would win sometime, but there was something about this thing that I did not understand. I knew no one to ask, and everyuse continued to tell me that it couldn't be grown in New Jerszy. You see, up until this time I hadn't known a thing about lime or inoculation. I had been inoculated and I couldn't understand why it wouldn't grow. Just when I was plowing the 12 acres under, and about ready to give up, I tend somewhere that alfalfa liked lime. So I decided to make another attompt and used a balfacre of my garden, spreading air-slaked lime over it and stime, I had been sowing it in the spring-

another fatal mistake. This half acre came up and looked fine, went through the winter all right and the next season I cut it three times, getting 72 inches from the three cuttings. That made me think my failures were caused by sowing in the spring and not using lime, so in August of that year I selected two acres from which a crop of rye had been removed, plowed it deep, spread some lime, sowed the seed, and the result was a fair stand. The next season I got three light cuttings. The second season it started off in great shape and I had the hay weighed before putting it in the barn and there was a little over 14 tons on the two acres from three cuttings. Naturally, I felt pretty good over the result.

A Start With Inoculation.

"The following August I had teal acres of rye stubble plowed and the ground being put in shape for alfalfa when I found somewhere an advertisement offering soil for sale from an alfalfa field to inoculate



-From the N. Y. Evening Mail.

ground where alfalfa was to be rown. I immediately ordered two tons. From that, with lime and fertilizer, I got a grand stand. Then everybody wanted to krow how it was done, and I was ready to tell them, for I had completed my elementary education. I have put in alfalfa every year since and have never failed to get a good stand

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"Now I will tell you the various ways I have raised alfalfa, and then give you my idea of the best way. I have manured sod ground, planted corn on the same; after the corn was removed in the fall, plowed the ground and drilled in one and one-half bushels of rye per acre; harvested the rye the next July; plowed the ground as soon as conditions would permit, then broadcasted a ton of air slaked lime per acre and harrowed that in; then about the 15th or 20th of August drilled in 600 to 1,000 pounds of fertilizer per acre, after

FARM AND DAIRY

The Corn Crop Next Year A Few Words on Seed Selection This Year

By Jas. C. Atchison.

ANADIAN corn growers are divided into two , camps. A few days ago on a railroad train

between Toronto and Hamilton I fell in with Mr. D. B. Tracy of the Hamilton Farms, Cobourg. At that time the corn in the fields that we were nassing was only two to three feet high. Mr. Tracy told me that his corn would average six feet or more. He favors corn of the Eureka variety, a big southern kind that produces an immense toninge of stalk and leaves, but does not mature tho: oughly in this country. Some months ago I noticed that another well known Holstein breeder, Mr. F. R. Mallory of Frankford, writing of his experience with corn in Farm and Dairy,

At Macdonald College the Alfalfa Fields are Disked after the Crop is Harvested.

which I drilled in 300 or 400 pounds of soil from a field where alfalfa had been successfully grown.

"The reason I drill in the soil is to prevent the sun from coming in contact with it. The soil can be broadcasted or harrowed in, but must be done on a cloudy day, because if the sun shines it will damage the bacteria which the soil contains. Next, I have sown winter yetch on the corn ground in the fall, which makes a heavy crop to plow under in the spring, then planted one bushel cow peas per acre, and plowed these under just before sowing the alfalfa. This will supply humus if you need it and haven't the manure.

Alfalfa After Corn.

"The best alfalfa I ever grew was on 12 acres that had been in corn two years in succession. The ground was heavily manured both years after the corn had been removed. In the spring, early as possible. I drilled in one and one-half bushels Canada field peas, cut them green for the cows, and in August seeded the ground to alfalfa, and I think this is the best way to do it. The way to have alfalfa is to go about it in the right way, and I think anyone can get it.

"The kind of soil on which to grow alfalfa, in my opinion is a loam of reasonable fertility, where water does not stand for any length of time. If the ground is low, tile draining should be done: plow deep; use at least a ton of air slaked lime per acre, more would be better; and from my own experience I will say inoculation is absolutely necessary. Get the best seed possible, no matter what the price. I have paid \$14 when I could have bought for \$8. Get samples from several seedmen, if you prefer, and send these to the experiment station at New Brunswick or the Agricultural Department at Washington for analysis; then, when you get their report, buy the best. Sow

(Continued on page 11.)

favors a variety that will give him a great bulk of roughage. These two men represent one section of Canadian corn growers. They don't expect much grain in their ensilage and they make it up to the cows with purchased concentrates.

In the same issue of Farm and Dairy in which Mr. Mallory gave his experience, Mr. Henry Glendinning was also quoted. Mr. Glendinning favors the smaller varieties of corn which have lots of ears and reach a fair stage of maturity. With such ensilage, he does not need to feed as heavy a grain ration as in the former

instances. One of the most thorough going believers in having well matured ensilage that I have ever met, however, is Mr. Younnie, who farms down in the Chateauguay district of Quebec province. I visited Mr. Younnie's farm one spring, just as the corn was coming up. It was a perfect stand. Mr. Younnie informed me that he was selecting his own seed and that while the stalks were not large, this corn from seed of his own selection, would reach matur-Ity practically every year and his ensilage was of the highest quality. His variety, I believe, was Canada yellow. This represents the other camp of Canadian corn growers.

I am inclined to side with Messrs. Glendinning and Younnie, and I believe that Mr. Younnie, in going the whole way and producing his own seed corn, is wise. The nearer

September 6, 1917.

ripe the corn is at the time the silo is filled the better will be the ensilage and the smaller the amount of concentrates that needs to be ied; an important consideration nowadays with all mill stuffs high in price. I remember a few years ago visiting a farmer in Durham Co., Ont., who was growing Longfellow corn for his silo. Each year he had been selecting his own seed. Before the crop was cut he would go through the field and select ears on stalks which he considered ideal for his purpose. Recently an illustration of a corn field on this farm appeared in the Toronto (Continued on page 11.)

Cultivate the Alfalfa Crop And Lengthen the Life of the Stand

OUR or five years ago we visited the experimental plots in connection with Macdonald

College, Ste. Anne de Bellevue, Que. Mr. Paul Boying, who was then on the college staff, conducted us through the alfalfa plots, which, at that time, had been seeded just two years. The stands were excellent and there were no weeds or grass in evidence. This season we again made a visit to Macdonald College and inspected the same plots. They were as clean as ever and the growth of alfalfa was just as vigorous. This was unusual. In most stands of alfalfa, four or five years is sufficient to allow blue grass or other weeds to get a hold on the crop and the alfalfa is ready to be plowed under. Why the difference?-The answer is cultivation. At Macdonald College the alfalfa plots and fields are cultivated with the disk harrow, following the removal of-each crop. This works the soil and keeps the stand free from weeds

It takes some courage to go into a splendid stand of alfalfa with a disk harrow or cultivator. Mr. Boving told us of the first time that Prof. Klinck, who then had charge of the experimental work at Macdonald College, instructed one of the farm hands to disk the alfalfa plots. After giving his orders. Prof. Klinck went away on other business. Returning a couple of hours later to see how the disking was getting along, he found the team hitched to a tree and the man positively refusing to "kill" such a beautiful stand of alfalfa with the disk harrow. He was finally prevailed upon to start disking and the plots were worked until they looked like a fallow field. The man (Continued on page 11.)

The World's Record Cow with a Three-quarter Udder

na Rue Louraine 2nd, seen herewith, has just made a world's for mature cow with three-quarter udder, producing 715,6 ibs 50 ibs. of batter in seven days. In her best day she produ of milk. She replaces another Canadian cow in this divis without the stree her down in this division.

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move seed. In pasturin it ander save the By ra taining plants t? by existence onstrated tation to tions pr your far vour im locality. it is qu able to s produc which a well adap condition reason] clover se more val most of t tainable i dinary cl commerce

Quite poor-looki second gr crop of s clover is inches hig matured average s from 150 t

The red the heads hard, well necessary handling. break off portion of

Where th be cut wit usually ad machine w out from t the next re







Clover Seed--Grow Your Own Get 100 to 250 lbs. of Seed Per Acre

N average seasons red clover, that has not been pastured after the first hay crop has been removed, will produce a crop of well matured seed. Instead of cutting the second crop for hay, pasturing it, or, as it frequently happens, plowing it ander, why not allow this crop to mature and save the seed from it?

By raising your own clover seed you are ob-

taining seed from plants which. their by very existence, have demonstrated their adaptation to the conditions prevailing on your farm, and in your immediate locality. Such seed, it is quite reasonable to suppose, will produce plants which are' equally well adapted to local conditions. For this reason home-grown clover seed is really more valuable than most of the seed obtainable through ordinary channels of commerce.

Quite often very poor-looking fields of

second growth red clover will produce a profitable crop of seed. In many cases fields where the clover is quite thin and, say, only eight or 10 inches high, will yield over 100 lbs. of clean, wellmatured seed per acre. Usually, however, an average second growth will produce anywhere from 150 to 250 lbs. of seed per acre.

The red clover seed crop should be cut when the heads are dark brown in color, and contain hard, well-developed seed. In harvesting all unnecessary handling should be avoided. Rough handling, frequent turning, etc., will thresh or break off the most mature heads, thus wasting a portion of the most valuable seed.

Where the crop is less than one foot high it may be cut with an ordinary mowing machine. It is usually advisable to have two men follow the machine with hand rakes and move each swath out from the standing crop a few feet so that, on the next round, the cut clover will be out of the

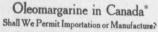
way of the horses and machine. By following this practice with short clover, a great deal of seed will be saved that would have otherwise be threshed by the horses feet, and therefore left in the field

Where clover is one foot or more in height the most satisfactory implement to use for cutting is the binder. The cord should be removed, and the spring on the knotter slackened so that it will trip continuously. Usually there are two boards that hold the sheaf; these should also be slack-

ened so that the clover will have a free course to the ground. Tm droppng to the ground, the seed will not shell and the crop will be left in loose windrows where it will dry quickly, and can be easily gathered with a barley fork. The length of

time that the clover should remain in the field would depend upon the weather. Generally speaking the crop should be placed in the mow or stack when dry enough to keep well. It can then be threshed

when convenient .- Experimental Farms Note.



By J. W. Mitchell, Frederickton, N.B.

HAVE been asked, "How does Canadian legislation affecting the manufacture, sale and importation of oleomargarine differ from that of the U. S.? The legislation in the two countries is fundamentally different. The Canadian laws are absolutely prohibitive in their nature, that is, they do not permit of either the manufacture or the importation of oleomargarine. In the U.S. very strong efforts have been made to deal with the problem, not through prohibition of the manufacture of oleomargarine, but through control legislation, both Federal and State. This control

legislation, though rigid and apparently enforced without laxity, has met with success which, at best, may be regarded as indifferent.

gration and Colonization Branch of Manitoba

By its very nature, when commercialized, the manufacture and sale of oleomargarine as a substitute for butter became a temptation to practice fraud. The aim was to impart to it a color, texture and flavor with as near an approach to those of butter as possible and to palm it off as such. Just a few words on the origin and development of the industry to show that no serious attempt was made to supply the public with as good a product as possible, but that, on the contrary, the eye of the manufacturer was centred on the dollars and cents end of the business.

The History of Oleomargarine.

It had its origin in France about the time of the Franco-Prussian war, when an eminent French chemist, Mourier, was requested to devise a cheap, wholesome substitute for butter. In the process he devised he made what he designated "oleomargarine" from the very best of beef tallow, just using the fats of low melting point and making between 20 and 25 pounds of oleomargarine from 100 pounds of tallow. This was quite a pure, wholesome and nutritious product.

However, this process was not adhered to very long. Under a later process the fats were heated to a much higher temperature, whereby the harder fats were used to a much greater extent, and it became possible to make about three times as much oleomargarine from a given amount of tallow. Further developments brought in the use of a variety of other fats and oils, both animal and vegetable, such as the cheaper ox-tallows instead of the best, veal tallow, hog fats, sesame oil, cottonseed oil, etc., some of these being used partly for the purpose of lowering the melting point of the finished product, which the excess of hard fats from the tallow would otherwise make too high.

As a result of the rapid growth of the industry the output of oleomargarine in the U.S., in the year 1901-2, was about 126,000,000 pounds or, ac-

(Continued on page 9.)

• Mr. Mitchell, the writer of this stille, was formerly for the standard of the standard of

The World's Record Two-year-old. Het Loo Picterije owned by W. L. Shaw, Newmarket, is world's champion in seven, 30 and 60 day divisions with 30.32, 122.01 and 223.26 lbsmoof butter. -Cut courtesy Biack and White Record.

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Big Yields—Less Labor

To reap the greatest return at harvest time, cultivate thoroughly before planting. This is the vital time for all crops. With small grains it is the only cultivation. To do it with less labor requires the



When You Write--Mention Farm & Dairy

Get Rid of Old Hens

H^{IGH} feed prices have no terrors for the poultry man. We mean the poultry men who have their names spelled with a capital "P." Even at present prices for all lines of poultry feeds there is a good profit in egg production under intelligent manage-ment. There is one point, however, on which all poultry men agree-there is no money in old hens.

Pullets are most profitable winter yers. One of the most extensive ayers. poultry men in Ontario kept caréful records of the comparative costs of egg production from his pullets and egg production from his pullets and from his year-old hens, and found a difference of three to five cents in fa-vor of the pullets. Year-olds will, how-ever yield a profit if they are handled carefully and not allowed to become too fat. Under present conditions. too fat. Under present conditions, however, the old hen, that is one that has already gone through two laying seasons, is a hopeless proposition as a money maker. Better fatten the old ones up and get them to market immediately. Then give the youngsters a good chance.

September 6, 1917.

Western oats; bruised oats some pe ple call them. Our plan was to keep a hopper full of rolled oats in front of the birds all the time. Morning and evening we fed i., the litter a mixture of whole corn and wheat. At frequent intervals we weighed the amount of feed given in the day and on the average our 100 hens would eat in a day 25 lbs. of rolled oats and about 14 lbs. of mixed corn and wheat. This sp.ing wheat was so high that we discon tinued feeding it altogether. The amount of oats consumed increased The but there was no falling off in the egg yield and this coming winter we we will make oats an even more unportant part of the ration than it was last year. We are also rearing our chickens or

oats. The oats are fed in hoppers and to supplement them a mash composed of equal parts of bran, middlings and corn meal is fed wet twice a day. Of course they get all the skim milk they will drink. They are eating a lot of oats, but they are growing wonder-fully and a well grown pullet is the first essential to heavy winter egs pro duction. Unless we can buy feed wheat considerably cheaper than it is now quoted, we will depend airao.t alto-gether on cracked corn for scratch feed this winter.

HORTICULTURE

Fruit Crop Report

INCE our last report was issued prospects have fallen off slightly in British Columbia and remained about the same in Outario and Quebec. The Annapolis Valley early in August estimated the crop at nearly one million barrels, which was 20 per cent larger than our July report indicated. wind storm on August 10 brought the crop down 20 per cent. Estimates now being received vary considerably, but 750,000 barrels is probably about correct. In Ontario and Quebec "scarce and scabby," about covers the situation in most sections so far as winter varieties are concerned. Early apples are better. British Col-umbia will have just about as many apples as last year, but on account of small size may not pack as many boxes. The fruit and trees have suffered considerably on account of a scarcity of water for irrigation,

Peaches in the Niagara district will be 50 per cent of a crop, light in Lambton and Kent and a failure in Essex. The Okanagan Valley will have a fair crop. Niagara will have a 60 per cent. yield of grapes Niagara will Essex county a good erop. Niagara, pears are light to medium, other dis-tricts light, Annapolis Valley poor and British Columbia, light to poor. On the whole the plum crop will be a light one. Tomatoes are none too satisfac-tory, although vields are reported good in British Columbia, Nova Scotia and Western Ontario.

The Apple Market.

So far as the fruit season has advanced, prices have been excention-ally high, and it is generally supposed that they will be maintained at a satisfactory level. Raspberries and currants have commanded record prices. Consequently there should be no fear as to prices, so far as producers are concerned. The question of marketing narrow

itself down to a problem to be settled by Nova Scotia. British Countbia will not be able to supply the demand in the prairies. Ontario will cater to those markets to some excent, but her crop is very small. Quebec cannot pack enough apples to meet local

(Continued on page 8.)

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ust a Little "Horse Sense"

ESS fanciers and more poultry breeders are needed. The utility man need not entirely confine his work to raising eggs and poultry for market. It is perfectly legitimate for him to offer for sale eggs for hatching and stock for breeding from those utility fowls. The man who can produce large egg records, or good market breeders, will often be lacking in high scores in his flocks, but they will have a more worthy record than that which a poultry judge can give. The utility breader selects his stock from among his best workers, and mates accordingly. The fancier mates according to the highest type of per

fection, from an outside or ornamental viewpoint, regardless of utility qualities. It is plain that the one gradually increases the usefulness of his flocks, while the other lessens their value for eggs and meat. The first aim should be the utility qualities, and then breed as near the Standard quirements as it is possible without affecting the former. It is surprising how near, by that method, we can come to the claims of the Standard makers. Now it is easier to do that than to try to breed utility qualities into the ex-bition fowl. Use common sense-breed utility fowls - remember that poultry was created for food and not for show.

The Best Poultry Feed

Mrs. C. A. Daniels, York Co., Ont.

S a farm woman with poultry as A a source of both pin money and grocery money, I have been following the grain market with interest. Even more closely, however, I have been watching the crops grow on our own farm. Our main grain crop is oats and in my opinion, oats are the best of all poultry feeds. Wheat and corn we need, but they are not so im-portant. Oats over Ontario as a whole will be a good crop and therefore cheap by comparison with other grains and we should make the most of them

Last winter our flock of 100 White Leghorn pullets averaged 60 per cent. egg production and in some months went even higher than this. The bulk of their ration consisted of rolled

FARM AND DAIRY

The Great Northern Ontario

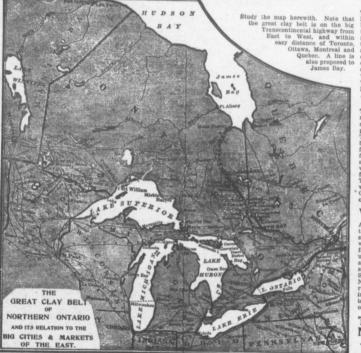
16,000,000 Acres of the Richest Clay Loam

Millions of Virgin Acres

THAT'S the heritage of the people of Ontario. We scarcely realize that right within our boundaries is this great area of rich farm land, four times the size of this old Ontario-and greater than Oreat Britain or France or Germany. Moreover, these great, rich, un-claimed millions of acres are right at the door of old Ontario. Look over the map herowith. It will give you some idea of the extent of this great north land. The great Clay Belt is only a day's journey from Tornto-less than half way to Winnipeg. It has an excellent railway service over the T. and N. O., with the cities of old Ontario, and what is better still, the main line of the National Transcontinental runs right through the great clay belt that extends from the Quebec boundary to the town of Orant. In this great vapanee, Ontario Offers thousands of homesteads to the man who wants a home and prosperity.

The Soil

Every good soil is known by what it produces. The soil in Northern Ontario has proved its worth in producing the finest grain, roots and vegetables. Practically every crop that is grown in old Ontario, except tender fruits, will produce abundantly in the north. The soil is a chocolate clay, varying from heavy to a lighter loam. For 260 miles west from Cochrane it scarcely varies. It has a clay sub-soila soil that will never wear out. A final proof of its yielding powers is the prosperity of the farmers who went into the New Liskeard district seven or eight years ago.



Markets

THERE is nothing the settler produces in the north country but what finds a ready market. The great mining districts to the port-everything hi all and at good prices-havy grain, butter, eggs, port-everythic but and at good prices-havy grain, butter, eggs, with the mining activities, so that for the years to come a steady

HON. G. HOWARD FERGUSON

Minister of Lands, Forests and Mines

Timber The great clay belt is largely covered with tim-ber varying from six to ten inches. It thus clears timber, and some settlers already have from fifty to already have from fifty to one hundred acres under crop. The timber is spruce, poplar and white-wood, all of which come in very handy for building purposes and for fencing.

(7)

Winter Work

The settler in New Ontario need not huddle beside the stove while the winter There is a ready market for the pulp wood on his farm. It brings him from four dollars to five dollars and one half per cord, which means good wages for the work of clearing. This is one of the reasons why the settler in New Ontario is so optimistic over the country.

Water-Power

All through Northern On-All through Northern On-tario there is an unlimited supply of undeveloped water-power. Only in a few instances is this being utilized at present, but it shows what a great pos-sibility there is ahead. Some day the farms of Northern Ontario will be run by the Electric Power in its rivers—the same as is develo, ag here in the older part of the Province.

The Future of **New Ontario**

T⁰ one who visits the great Clay Belt, but realizes that one day

It will be one of the great gardens of Ontario, the wealth of the real is minuted. It produces the finest quality of grain. Clovers and a main and the climate—"No blizards in winter, no wind-mer."

planning to own a farm of your own, we ask you to investi-gate the Ontario. We shall be glad to send any reader free descrip-tive in-sture and full information about this great clay belt of Ontario.

Write- H. A. Macdonell, Director of Colonization, Parliament Buildings, TORONTO, ONTARIO

(8) Fruit Crop Report (Continued from page 6.)

Beeds. Consequently the cròp in Nova Scotts, which cannot be exported or account of the British embargo, will have to be distributed in such a way that the markets ordinarily fed hy Ontario will receive their usual quota, or as nearly no as possible. Clitics as far west as Regina and Saskatoon will undoubtedly receive Annapolis Valley apples this year, and large quantites will be marketed in Montreal, Ottawa, Toronto and other eastern clites.

There is no cause for any panic.

FARM AND DAIRY

We strongly reiterate what we said in our last report, that there will be a s far market in Canada for all our r apples. If adequate distribution is r arranged we have every reason to be of leve that prices will be satisfactory T and growers should not be stampedet in a cecepting unreasonably low rourns.

Improving the Lawn

September is the month for repairing lawns. While lawn repairing often presents many difficulties, most thin sods will be improved by fertilizing and resceeding.

Patches that have died should be scratched and made dien with a steel rake for aeeding. Unless the coil is rich it should be made so by the use of manure or commercial fertilizer. The latter is preferable because it is easier to apply and carries no weed scods. For such purposes we recomneed the use of about four pounds of stammab bounced to the square rod, and the use of about four pounds of stammab bounced to the square rod, by draked line per square rod or of 20 to 30 pounds of finely ground raw linestone is also advised for soils deficient in this constituent. The line should be worked into the soil before any fertilizer is added. September 6, 1917.

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GOOLD,

After this treatment a mixture of equal parts of Kentucky butter grass and reduct, with a little white clover, should be sown broadcast at the rate of one pint to the squarr rod. The ground should then be raked over to cover the seed and to make a smooth surface. Lack of moisture will make seedings uncertain. Hence sprinkling is advisable in dry seasone.

THE HORSE

Teach the Foal to Eat

W HILE no colt should be weaned indi at least four or beiter till five months old, unless absolately necessary, the successful breader will not whit until weaning time before teaching the young colt to eat a fittle grain and drink ,a little cow's milk.

As the pastures commence to dry up the proper development of the foal culls for the feeding of a little grain in order to maintain the milk fat and keep the foal developing to the best advantage. Colst that belong to worktime the mother is fed. Tupes on patime should be provided the second second where grain can be kept available to cowhere grain can be kept available are allowed the coll will continue to gain when weaking time comes. For the grain ration nothing suits the requirements of the coll better than equirements of the coll better than

Colts should be halter bruken and taught to lead before wearing. It is also a good plan to teach the colt to endure partial separate from its dam by seeping it in the stall while the dam is working. These bits of education will render the colt more easily managed and less excitable when weaning time comes. Exercise must, however, be provided if the foal is to derebog as it should.

Care of Working Horse

THE borse till stands as the chief source of form power, And, as moothness of working does not depend so much on spasmodic tinkerings and eilings as upon a constant attention to details by the man in charge. It is the little "extra" given to the horse, such as a mouthful of water when he's thirsty, or having this collar eased off his shoulders while the is reaved off his shoulders while the is reaved off his shoulders while the is reaved bar have the horse. Horses working in the horse.

Horses working in the heat s' old be fed only a limited amount of hay in the morning and the noon feeda, and should be given a liberal amount of srein, prefembly oats, with from 10 to 20 per cent of bran added. They should be watered in the morning before being fed and should be allowed water again after feeding. At noon, when coming from the field they should be given a limited amount of water if they are hot, followed by feed, and again be watered before going to the field. At night they should be given a limited amount when brought from the field, followed by the evening feed and should then be given all the water they will drink.

It is an excellent practice, also, to water the horses in the middle of each half day's work. A drink at this time it as refreshing to the horse as to the man and will be repaid by better service. Prequent breaking apolls should be dreen in the harvest field to avoid overheating and injury to the wind, which may result in permanent us soundness.

A Car of Proven Quality



HE Ford car has been on the market twelve years, surely long enough to have proven its high quality. There is nothing experimental about it. Every part has stood the test of time and proven its stability with hard service. No other car has ever approached the durability records of the Ford.

No matter what price you pay for a car you cannot get one with a stauncher chassis. Government Laboratory tests have shown that the different parts of the Ford car are superior to those in any other car. Ford Vanadium steel has never been equaled in strength.

If you want a car that can plow through deep mud, sand and gravel—that can cross fields, corduroy roads and ford streams—that can climb the steepest hills with ease—that will give the greatest mileage all year round with the least expense and care—then there is only ONE car for you—The Ford.



Touring - - \$495 Runabout - \$475 F.O.B. FORD, ONT.

32

Ford Motor Company of Canada, Limited FORD - - ONTARIO

Peter Hamilton **Carrier** Silo Filler and Feed Cutter

f you have a gasoline engine, why not your own silo and cut your own feed? have a machine which your engine will in an efficient manner, and which will wer all your feed-cutting requirements.

PETER HAMILTON machines have remendors strength and great capacity. They will cut up an enormous pile of feed a day, and because of their shearing nethod of cutting only a small amount of ower is required.

Free Booklet There are so points in connection with these machines that it will pay you to write for our free booklet describing them. Peter Hamilton Company, Limited Peterborough, Ont. Don't Cut Out A SHOE BOIL, CAPPED

HOCK OR BURSITIS FOR ABSORBINE

will remove them and leave no blemishes. Reduces any puff or swelling. Does not bilster or remove the hair, and horse can be worked. \$2 abcttle delivered. Book 6 K free.

Worked, Se auc. "rise or inverse anyone on a low-ABSORBINE, JR., the antisedue lining of the line bind. For Bolis, Bruises, Oid Sorze, Sweilings, Varkous et al. Statistics, Alaxy Fair, Price SI and SI about at drageness of collegend. Will tell more if you write. W.F. YOUNG, P.M.F. 333, YMMES Hed., Smoothers, Cam. Absorbias: and Absorbias. 27., are made in Canada.

Increase your egg yield by purchasing **A CHOICE PEN**

AFORTUNE IN POULTRY

of our high record Rocks, Wyandottes, Leghorns or Reds, 1917 Mating List con-taining 65 photos of atock, buildings. Freed and tonic formulas Our 272 Egg Kind free L. R. Guild, Box 76, Rockwood, Ont.



These engineering are the perfected product of years of study and es-product of years of study and es-termentation with Interact Com-paration Restines and are a demon-tant of the second and the study of the the second and the study of the the second and the second study of the the second study of the second the

GOOLD, SHAPLEY & MUIR CO., LTD Brantford, Winnipeg, Regins, Calgary

FARM AND DAIRY

Oleomargarire in Canada (Continued from page 5.) cording to Decker, equal to the out-

put of 1,600 average creameries. Attempts at Control.

In an effort to control the manu-facture and sale of this product Conlacture and sale of this product Con-gress passed an act, which came into effect on July 1, 1960, imposing a tax of 10 cents a pound on coinced "olice". Purt'iermore, public eating piaces, in-cluding boarding houses, were pro-hibled from buying the uncolored product and coloring H. As a rooult, the output of elemangrarine fol. off, in the year 19024, for the extent of 53,000,000 pounds, or the equivalent of the output of 650 average accease. of the output of 650 average cream eries. This is very suggestive. The The high water mark was not again reach ed until 1910.

In addition to the Federal Act, many of the States have stringent laws of their own, prohibiting the sale of colored eleomangarine. Again, several of the States make it obligatory, in public eating places that use oleomargarine, either on the table or for cooking purposes, to put up pla-cards opposite the tables with such inscriptions as this: "Substitute for

Inscriptions as this: "Substitute for butter used here." Notwithstanding all these safe-guards, flagrant frauds, have been practized, as is evidenced by the facts that huge fines have been imposed, some individual cases mounting above the million dollar mark. One of the means attempted by some large manufacturers to evade the tax was to send out uncolored oleomargarine and coloring matter with instructions for use, as the tax on the uncolored product is only one-quarter cent per pound

Some Notes.

1. The big temptation, in the man Latter of elemptation, in the man-viacture of eleomargarine, is to make it resemble butter as nearly as pos-sible and palm it off as real butter. Here is wherein the big profit lies and hence the temptation to practise frand

2. It is practically impossible to control the industry, as is indicated by the chances taken and the many prosecutions resulting in huge fines and long terms of imprisonment.

long terms of imprisonment. 3. The specious argument for the introduction of the industry into Can-ada, as naively put forward by those "disinterestedly" (7) solicitous of the welfare of the consumer, is that it will enable him to buy a pakatable and nutritious scalitule for butter at a matter is that the price we of the matter is that the price we of the same tent as mear to that of hutter as nekept as near to that of butter as pos sible. Furthermore, much of the product, as now manufactured, is not the palatable, nutritious product that the original made by Mourier was, but one including a much higher percentage of the hard fats and diluted with a variety of inferior fats and oils.

4. We are exporters of dairy pro-ducts, and the greater the safeguards thrown around our dairy industry the better it is for it in both the home and the export market.

5. To those who say that they pre-fer a good quality of either oleomar-garine or renovated butter to an inferior quality of butter, the answer is that it does not pay to manufacture inferior butter, and instead of wasting time discussing how best to make use of inferior butter, or a substitute for it, we could be employed in encourag-ing the adoption of principles that will improve the quality of the -product made. In many instances, instead of making butter on the farm, the farmer should become a creamery patron.

The soil mulch prevents evaporation and especially when it is formed soon after a rain, when the soil cracks, openings are left for the air to circu-late and carry moisture from below the surface.



"hen You Write --- Mention Farm and Dairy

Holsteins Strong at the Canadian National

But Not So Numerous as in Some Previous Years

them in the Holstein display at the Canadian National this year. With only a couple of exceptions the classes were all closely contested and in a few of the younger classes almost a score of entries faced the judge, Prof. J. M. Trueman of the Nova Scotia Agricultural College. The strength of the Holstein display this year, how ever, was not in its numbers. In this it fell considerably below the standard of recent years. On the first day of the fair it was rumored that the breed had lost its premier place in numerical superiority and that the Shorthorns, which were always, until recent years, more numerous than any other of the cattle kind at Toronto, had again as-sumed first place. When all the entries were in and counted, however, it was found that Holsteins still led though by a greatly reduced margin. The explanation was the same every-where, scarcity of help and heavy crops to harvest at home. Several of the old time exhibitors were missing from the ring, but enough of the old standbys were present to give the showring a familiar aspect.

(10)

All From Western Ontario.

It was noticeable that every animal shown came from west of Toronto, with Oxford county in the lead. Among the well known exhibitors were: M. H. Haley, Springford; A. E. Hulet, Norwich; Gordon S. Gooderham, Clarkson: L. H. Lipsit, Straffordville; Chas. Haviland & Sons, Wilsonville; Dyment Bros. Dundas, and S. Lemon & Sons, Lynden. W. G. Balley of Paris was out again this year with a strong string and did well. Josep Telfer, Milton, had one entry, a bull good enough to get second in a strong class. C. F. Mahon, Woodstock, was a new exhibitor who got off to a good start. Inc. A. Orchard of Shedden, had one entry and it got within the

On the whole the showing was a craditable one. In spite of the labor searcity practically all of the entries gave evidence of previous fitting. The steady progress of the breed toward a uniform type and more refinement was again noticeable in many classes and for this the Holstein breed owes much to the standards that the show ring "One would hardly believe imposes. "One would hardly believe that such improvement could be pos-sible as I have seen here in the past 10 years," remarked one of Ontario's veteran heredres as he looked over a class of 17 fine helfers.

Bailey's Bull Wins.

Lakeview Dutchland Hengerveld, last year's grand champion male, was accorded the same place this year. He was shown in fine bloom and is a hard was shown in fine bloom and is a hard buil to foult. Bonerzes Hartog, in second place, was a buil of similar type. Old Sir Belle Fayne, twice grand champion at Toronto, had lots of style and finish but hardly the denth and substance to go higher that third place in the mattire class. In the two year old bulls preference was again given to substance and the first Ding Inka Artig and Smithdale King Colantha, differed in In vearlings, however, little but color. substance did not receive the same consideration and two splendidly de-veloped, deep bulls went down to fourth and fifth places, while bulls of a little picer finish but without the same development went up on top. For same development went up on top. For saive and onality, howver, it would have been hard to get over the first three, the winning bull, shown by Haley, having the advantage of the trio in size. The same rule held in the junior yearlings-substance with quality had to yield to smaller bulls of greater quality. The winner is

RIENDS of the black and white this class, King DeKol Ormsby, shown milk breed found much to place by Heles This cases, king perior or made junior cham-pion. While many could not follow Prof. Trueman in these last two classes the question seemed to be whether deep, well developed bodies are to be looked for in a yearling as a primary requisite or may that develop-ment come later. Certainly there is room for difference of opinion.

room for difference of opinion. Bull, mature--1, Lakwiew Dutchland Hengewiel Staf, Balley I, Bonerges Har-Hengewiel Staf, Balley I, Bonerges Har-S, Canary Trentona Segit, Havland E, Kengeviel Dekkel Fouch, Gooderham: Bull, two year--1, Flui Inia Arita, Lemon; 2, Smithdale King Colantha, Dy-Hule!, Strice Colantha Canary A., Hule!, Strice Colantha Canary A., ment; Hulet.

Hulet. Bull, one year—I and 3, Sir Douglas and King DeKol Ormsby, Haley; 2, King Sylvia Keyas, Balley; 4 and 5, Prince Bonheur Abbekerk and Annette's King Abbekerk, Hulet; 6, King Segis Johanna,

Athekerk, Hitlet; 6. King Segia vara-Gooderham, Buil, Junior yerilar (special) – 1. King Spirela, Aluel; 3. King Secial Johanna, Gooderham; 4. Manor King Segis Korn-dyke, Havlinad; 5. Prince Plus Porline Ver, Mahon; 7. Braeside King Segis kerk, Mahon; 7.

kerk, Mahon; 7. Brasside King Segis, Haviland.
Bull, sensor calf-J. King Payne Al-Bull, sensor calf-J. King Payne Al-Bull, sensor and A. Frince Keyes Mercona and Master Paul Canary, Hu-let; 3. Payne Artis Ormsby, Orchard; 5 and 6. Manor Kordyke Segis and Manor Eggis Doho, Goderlam; 7. Hartog Por-Eull, Sunior Calf-1 and 2, Axie 4H Payne and Raycroft Segis Spofford, Lip-sed; 3. Manor Segis Posito, Goderlam; and Baren Colantha, Haley; 5. Quaker Sir Segis Posich, Mahon; 6. Prince Colan-tha Veeman, Huld; Senior and grand charpion bull-Laker-Senior and grand for Barley.
Junior champlon-King DeKol Ormsby, Haley.

Haley

The Females

The female classes this year did not bring out any animals that could be classed as of extra fine show type, and taken as a whole, the classes were a trifle deficient in this regard as compared with some previous years. Animals of good type, however, were imerous over all classes, and many looked good for worth-while records. The grand champion female, for in stance, a dry cow showed by Lemon, is a cow with a 20,000-pound record, great constitution, a well-sprung, dee rib, and a nice handling, capacious ud-der of good balance: she failed of perfection in being a trifle plain from the hook bones back. Mr. Hulet has a winning cow in the mature milk class of much the same type-a deep, strong body, lots of character and a good ud der-and the two were close com-petitors for championship honors. The dry cow class was a strong one right down to seventh placing. had a stylish, big cow in second place, but lacking in fore quarters when compared with the champion. Dry two-year-olds were also a strongly contest-ed class. Here Hulet won on a strong topped helfer, carried straight to the tailhead. Otherwise she had little over Dyment in second place. In the younger classes there was greater uniformity, and, perhaps, breediness as well. Bailey secured the junior championship, a very nice senior calf, a quality animal throughout. Two-year-olds and three-year-olds in milk, taken as a whole, were not strong classes They lacked the substance that might They lacked the substance that might have been expected, and a few had cut-up udders. The group classes, as usnal, filled the ring. Canadian ex-hibitors of Holsteins are usually breeders exclusively, and breeding classes are apt to be large ones. Here Prof. Trueman had his hands full all the time. In the graded herd Bailey won handily with the grand champion bull, first two-year-old in milk, seventh dry two-year-old, second and third milk cows, and first senior yearling. The strong points of Lemon's herd in sec The ond place were the first two-year-old

& Sons, Brampton. The Brampton herd was particularly

Radiator, the only two-year-old shown.

The younger classes also brought out some promising material for future de-

In females the honors were a little more evenly divided. The classes here

were among the best seen at the fair

also captured first on two-year-old in milk on a very milky looking heifer, but one that might be faulted on con-

stitution and length of rib. All of these, however, had to yield to Little's

dry cow, Brampton Autotone, in the

run for championship honors. Brampton Autotone is almost the perfection

velopment

Jerseys Make Fine Showing at Toronto Three Herds Compete With Honors Well Divided

HE Jersey exhibit at Toronto was Jersey Awards, Female.

The Jersoy exhibit at Toronto was a pleasure and a disappointant to fanciers of the breed. The highest standards of the fair. Had the herd of R. J. Fleming been along as in past years, however, Jersoy J. would have been a record exhibit with classpointent. As it was, the were two new exhibitors out, Mr. Joo princise and Mr. A. T. Little of London, and both did well in competition with a boos, Brannyton.

ringle. Helfer, senior calf: 1, 2, 3 and 4, Bull. Helfer, junior calf: 1, 2 and 3, Bull; 4, strong in bulls this year, securing every first but that for senior calf, which went to Mr. Little. The grand

Heifer, junite cert, i, r neue er Pringie. Cow, 3 yrs. and over, net milking; 1 and 2 B. Autotone and B. Alemora, Little; 3 Lady Allee, Pringie, and 5 Benior and grand champion: Brampton Autotone, Little, Junior champion: Brampton Bright Rosebud (senior calf, Buil.

which went to Mr. Little. The grand champion was Bonnie's Perfection, unusually large for his breed, but carrying along with it the best of quality and style. A smaller bull, but nevertheless a close competitor for the championship, was Brampton

Male Awards.

Mais Avards. Bull, maturer 1, Barbers, Perfection, Bull, 5, B. Nohle Here, Prinzles 2, Oak-Jand's Nohle Emment, Prinzles 2, Oak-Bull, one yeart 1, 3, 3 and 4, B. Heauty Heir, B. Cowalig's Here, B. Merry Niger Bull, senior call: 3, Lattlei 3, 3, 4 and 5, Bull. Bull, senior call: 3, Lattlei 3, 3, 4 and 5, Bull. Bull, menior call: 3, J. and 4, Bull. Bull, menior and grand champion: Bon-autor champion: Brampton Beauty Heir, Bull. Grans Avards.

of any breed. Milch cows brought out nine entries and any of them would have looked good in any showring. Brampton Oxford Vixen, shown by

substance, straicht lines and a woll balanced, woll placed udder with good al. Rower's Charm, won Gree Pringle. udder, for capacity and balance on a soo soyoung was remarkable Pringle. The the transmission of the straight of the straight of the straight the three-year-old class in milk. Her Pringle. The straight of the straight

tractor demonstration will be held on the Toronto Industrial Farm, 12 miles north of the city, on Youge Street. This demonstration is under the patronage of the mayor of Toronto and Toronto city officials. Practically all of the important tractor manufacturing firms on the American continent will be represented at this ton Autotone is atmost the perfection manufacturing firms on the American of breed and dafry type,—as much continent will be represented at this nize as a Jersey should have, a very demonstration, and a number of the breedy appearance, good depth and a larger firms have signified their inten-perfectly balanced udder. In the tion of sending at least five tractors to younger female classes all firsts went the demonstration. There will prob-to the Hrampton herd, including the ably he 50 or 60 fractors appending union champtonship. The awards addition to forwent actions and any were placed by the judge, Prof. E. S. cassories, and a noom will be Archibial, as follows:

September 6, 1917.

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crowne better appear growth too la shoots cure it clover. "One fa is w you do how of

have three t years, a it has ton-dre pounds acre. had on with th 600 po ground each ye

was en would u tilizer j "Alfa all kind eat it be will giv falfa th COTD. sows. in fine o

they wo tell me the mos tried it. 'I hav

acres in you is known t I cannot worth to busy. If it the f over and 25th of you will grow it."

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Globe. a strain and at th tonnage Now is seed cor late in t before th cient ear: year. Se proper sh orne on too coars that will erate size cult to fi is at all should be where fre Such se Eureka, E of corn ar to start years at 1 er's secti varieties lage; the cows wor These lar in the so tanko, but io and

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SOW

An Experience of 20 Years in Growing Alfalfa

(Continued from page 4.) (Continued from page 4.) 30 pounds per acre. I use a weeder with seeder attachments, which sows the seed and covers it at the same time. I sow 15 pounds each way, seeding from the 15th to the 20th of August.

"In cutting alfalfa I watch for the new shoots starting out from the crowns, which states that alfalfa has from the crowns, which states that alfalfa has its growth; then the mooner cut the better. If cut before the new shots: appear it has a tendency to retard the growth of the next crop. Also, if cut too hate, the mover snips the new shoots and dwarfs the next crop. 1 cure it about the same way you would choose

Fertilizing the Alfalfa.

"One of the big advantages of alfalyou don't have to re-seed every year; how often is necessary I do not know. I have some that has been mowed three times every year for the past six years, and it is as good as ever, in fact, it has been improving every year. I top-dreas every year with at least 600 pounds of high-grade fertilizer per acre. Until a short time aco my farm had on it one cow to the acre, and with the manure from her I fet that 600 pounds of fertilizer when the ground was seeded, and this much ach year afterwards as top-dreasing. With commands and the manure I years, and it is as good as ever, in fact, was enough. Without the manure I would use at least half a ton of ferwould use at least halt at tilizer per acre. "Alfalfa makes the best of hay for

all kinds of stock. Some of my he eat it before they do their grain. Cows eat is before they do their grain. Cows will give more milk when fed on al-falfa than they will when fed fodder corn. It's a grand thing for brood sows. When fed alfalfa they will keep in fine condition on half the grain that they would need without it. So many tell me that they cannot grow it, but the most of them admit they never tried it.

Tried it. "I have 105 acres of my farm of 122 acres in alfalfa, and what I have told you is my own experience. Had I known these things in the beginning, I cannot tell what it would have been worth to me. You that want it, get basy. If you don't make a success of I the "first time, try, acris, a far. busy. If you don't make a success of it the first time, try again. Come over and see mine any time from the 25th of May to the 1st of June, and you will go back home determined to grow it."

The Corn Crop Next Year (Continued from page 4.)

Globe By intelligent seed selection Gabbe. By intelligent seed selection this Durban County farmer has gotten a strain that matures in his district and at the same time produces a good tonnage of ensilage to the acre. Now is the time of year to select the seed corn. Go through the field as late in the full as possible and just before the corn is cut, and choose the total acre of supply seed for the acre.

before the corm is cut, and choose suf-cleat cars to supply seed for the next year. Select cars that are large, the proper shape for the variety, that are horne on large, leafy, strong, but not too coarse stalks, and above all, ears that will ripon before frost. In a mod-erate sized field it should not be diffi-cult to find such cars, if the variety is at all acclimated. Then the cars abould be curred in a protected place where freezing will not occur.

Such selection is not possible where Eureka, Big Crop and similar varieties of corn are grown. It is first necessary to start with a variety that ins necessary to start with a variety that in some years at least will mature in the grow-ar's section. The result of too late wrieties is much rour smelling ensi-lage; the stock don't like it and dairy These large varieties may be all right in the southwestern counties of Op-tamic, but in Central and Eastern Onand in Quebec smaller varieties preferable. Where the dairy preferable.

farmer in these sections can find a good, reliable grower in the corn belt good, renable grower in the corn belt of Ontario and get his seed from him, well and good. Most of us, however, will be just as far ahead to select our own seed and make the highest quality of ensilage. As I said in the beginning, however, Canadian corn growers are divided into two camps on this question, and I am willing to hear the other side.

Cultivate the Alfalfa Crop (Continued from page 4.)

was convinced that the alfalfa was all dead.

In a few days, however, the dead. In a rew days, however, the plots were green again and the alfalfa starting out to make a vigorous second growth. The same practice has been followed ever since. It is good practice before cultivating

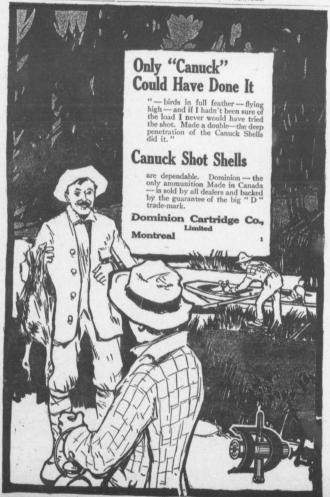
the surface to be worked in with the lum sent to the Borden condensery, the surface to be worked in statices horrows in some instances the crowns of the old plants will be split, but on the whole more good than harm results from the cultivation. Without it, blue grass will establish with proper treatment itself, which with proper treatment will be eliminated from the start. The addition of fertilizer such as manute, addition of fertilizer such as manufe, is in itself a good check on the growth of grass as it so stimulates the growth of the alfalfa as to choke out all other forms of growth.

A Good Quebec Herd

M^{R.} Chas. Collum of Maple Grove Dairy Farm, Ormstone M Dairy Farm, Ormstown, Que., is one of the many successful dairy farmers of that district who is has been followed ever since. Always willing to vote for the dairy It is good practice before cultivating cow as the best money maker on the with the disk harrow to scatter eight farm. During the season of 10 months, or ten tors of farmyard manure on from May to February last, Mr. Col(11)

lum sent to the bridge contenter, 116,669 lbs. of milk, with an average test of 3.6 per cent. fat and this with-out making any allowance for the milk used by the family or for-feeding calves. The cheques received from this milk totalled \$1,835.42. In Mr. Collum's herd there are 15 cows. Dur-Column's nerd there are 10 cows. Dur-ing the period mentioned, six were junior two-year-olds and the average production for the whole herd was 7,778 lbs. of milk, realizing \$122.36 for each cow

each cow. One of the females in this herd is a pure bred, the others were grads Hoisteins. The majority freshen in the sprinz. The staple roughages are emailage and clover hay. The srain re-tion consisted mostly of moullie, made from home grown grains, helped out by two and one-half tons of purchased concentrates. In Maple Grove Dairy Farm there are 204 acres with 100 cultivated.



Karm and Dairy

(12)

Rural Home

"The Farm Paper of Crinada's Dairy Farmers" Published Every Thursday by The Rural Publishing Company, Limited Peterboro and Toronto

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The Rural Publishing Company, Ltd. PETER ORO AND TORONTO

"Read not to contradict and to confute, nor to elieve and take for granted, but to weigh and conbelieve and ta sider."-Bacon

Munition Workers Released

NE munition plant in Toronto has released twelve hundred of its workmen. Other factories have already laid off, or are planning to lay off, their workers in like proportion. Recently in Toronto we saw 500 men, ex-munition workers, lined up at an employment office seeking for similar work in other establishments.

The reason for discontinuance of activities in munition plants is not far to seek. Shell contracts are not being renewed. It is rumored in some quarters that the British Government is finding difficulty in financing its foreign contracts. A more reasonable explanation, however, is that Great Britain now has immense supplies of munitions on hand and her own factories are turning out sufficient for current needs, the risk of At Bantic transportation being thereby avoided. That a renewal of contracts is not expected in the near future, is proven by the action of the Munitions Board in advising ex-munition workers to find employment in other industries.

The discontinuance of shell contracts will be far reaching in its effects. Wages in all urban industries will decline. Rents will fall in proportion and business will contract. Unemployment may become a serious problem. It is doubtful, however, if labor, which has been enjoying high wages ever since the commencement of the war, will be content to seek other productive work, and, probably, obliging governments, provincial and federal, will endeavor to meet the demands of labor by instituting unproductive public enterprises, such, for instance, as the con struction of the good roads contemplated in the Good Roads Scheme of Ontario. There is abundance of work to be done on the land and in the mines and forests and this is work that would

add to the wealth of the country and help solve our pressing financial problems. This work, however, does not appeal apparently to either exmunition workers or returned soldiers, and if their demands have precedence, the burden of taxation, already almost unbearable, will increase and its main weight will have to be borne by the farmers. Already it would seem that the hard times predicted for the after the war period, are beginning while the war is still with us. A policy of conservation of resources rather than extensive expansion, would seem to be a wise one for men in all lines of business, rural and urban.

Protecting the Public

W^E would like to believe that all the forces riotic zeal that graft and plunder would be forgotten for the time being, but the sordid fact is that only the plain people have had their attention diverted by the war. Men of finance are taking advantage of this diversion to dig still deeper into the public exchequer for their own benefit. It would seem, however, that in the C. N. R. deal as now proposed, the Toronto group of financiers who would be the chief beneficiaries of government purchase of the common stock, have been a little too greedy and people are awakening to the menace right here at home. The following resolution recently approved by the Single Tax League of Ontario, expresses, we believe, the sentiments of the Canadian people in this connection. The resolution reads:

"We, the undersigned, most emphatically pro-st against the purchase of a bankrupt railway at the price of a solvent concern or any payment being made for the common stock of the company; and insist that if the Government, which is now a creditor to the extent of many millions of do lars, find it necessary to make further advances in order to protect its claims against the Com-pany, it shall safeguard the interest of the general public, whose agents it is, by taking over the assets of the Company without further payment to the promoters, who, as is well known, have already made enormous profits out of the promot-ing and building of the Road with public money and have amply recouped themselves for any in-vestment of their own capital and time."

Other non-partizan organizations have been en pressing similar sentiments. The easiest and most sensible way of solving the problem would be to allow the Canadian Northern Railway to pass into the hands of a receiver as, in the natural course of events, it would do, and then for the Government, as the principal creditor, to take over the line at the valuation established by the Receiver. Such a course would not appeal to the millionaires who have been buying C. N. R. stock at bargain-counter rates, expecting it to advance to par value on Government purchase, but it would ensure that the people of Canada would get the road for what it is worth and Government ownership and operation of the system would have a chance for financial success. Should the present bill pass the House in all its stages it deserves severe amendment in the Senate.

Wheat and Alfalfa?

T is officially stated that the acreage in winter wheat will be greatly extended in 1917 and 1918, with tractors playing an important part in the increase. This is as it should be. The world needs food and bread is still the staff of life. Along with the extended area of wheat, however, plans should be made to take advantage of the opportunity afforded to get the land reseeded to alfaMa and red clover. Wheat is an ideal nurse crop for either. It stools lightly, usually stands up well and is off early in the season. In case the clover seeding is not needed for hay it is a cheap source of fertility when plowed under. Many of our best dairy farmers tell us that they would never think of seeding any grain crops without at the same time sowing clover, just because of its fertilizing value.

In this connection we will mention one method of seeding to alfalfa that we would like to see tried out in Ontario. A few years ago a correspondent in Grey County, seeded alfalfa along with the fall wheat. The alfalfa made an excellent growth that fall and a perfect stand was secured for the following year. Where this plan is followed the land needs to be worked unusually well, the seeding done early in Sentember with, of course, good seed of the best varieties and inoculated. The land, too, must be well drained and not sour. We would not advise this method of seeding alfalfa on a large scale. One of the editors of Farm and Dairy is sowing four acres in this manner and would like to have others of Our Folks to cooperate in giving the method a good trial. Next fall we would like to receive reports on results. Will you investigate along with na?

Production and Typ:

HE ideal dairy cow is the one that, while a great producar, is also a model in type. To this most breeders will agree. In actual breeding oporations, however, difficulties arise. It is alway; easier to breed with one end in view than two. It is just exactly twice as difficult to breed dairy cattle that are great producers and models in type as to breed for great producers only, or show ring winners only, and unless the breeder le a model of constancy and perseverance, he will soon be diverting his efforts to one end or the other and losing sight of the great ideal. That it is possible, however, to achieve both characteristics in the same animal and that many breeders are meeting with success in developing cows, combining producing ability and good type was amply demonstrated at the Canadian National Exhibition this year.

Take Holsteins, for instance. We well remember the classes of a few years ago in which there were as many different types as there were individual entries, and in which drooping tails, heads and other undesirable characteristics were everywhere in evidence. This year the classes were wonderfully uniform. Most of the entries conformed to the requirements of good dairy and breed type. Also the official records of many of the milking animals on exhibition were much higher than those held by the homely producers of a decade ago. This improvement is due in part to more si illful development, but the main improvement must be attributed to the careful selection of sires that combine in themselves and in their ancestors the most desirable characteristics. In the Jersey and Ayrshire classes, too, good type was combined with milky appearance and there were not a few excellent semi-official records held by the winners. Breeders who have lost eight of the dual object of good dairy breeding, should find much to bring them back to the higher ideal in the dairy classes at the Canadian National this year.

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The man behind the plow is destined to play the leading role in restoring the country's for tunes ere peace is restored. Good prices for farm products now will enable the farmer to play his part in national reconstruction more efficiently.

Feed is high in price, but it is not so high that young stock, from the growing pullet to the cold just ready to wean, should be restricted in their rations.

Farm and Dairy was in error recently in stat ing that bounties paid on the manufacture of iron steel, lead, manilla fibre and crude petroleum totalled \$21,669,965 in one year. This is the total amount paid to date in subsidies to these indus tries.

Ayrshires at the Canadian National Exhibition

Down in Numbers, But Decidedly Better in Quality

OUR herds only competed in the ing as a winner in the three year cows CUR herds only competed in the large a winner in the three year cows Arrentive classes at the Canadian in milk. Fanale of Gladden -IIII, National this year. Enthmatian in milk. Fanale of Gladden -IIII, of the breed, therefore, who visited the suite, it is also heifer, but has been in showring at the Canadian National Ness, Houser. Townsfoot Sunbeam, showring at the Canadian National Ness, Houser. To wursfoot Sunbeam, who pidget disappointed. In the "dry" class, She is of r in the macure opinion of Nr. W. Hunter of Glimsby, then and shows pleaty of substance who judget the exhibit, however, the and quality, although being if anything animale shown carried decidedly a little heavy in front. Auchinbrase mere emaily than the Arve thies exhibit. Victoria Sth, a smooth typy helfer, lead led here last year: As usual R. R. the junior female class and secured home bred stuff carried off the line's share of the awards, with mosely home share of the awards, with mostly home

share of the awards, with mostly home bred stock in competition. The herd exhibitors in Ayrshirea were: R. R. Neas, Howick, Que.; Alex Hume & Co., Cambellord, Ont.; Laurie Bros., Agincourt, Ont.; Wm. Stewart & Sons, Campellord, Ont., while James B. Ross, Meadowale, Ont. we recent with the comparison Ont., was present with a two-year-old bull and a bull calf. Three herds were noticeably absent this year, those of Senator Owens, J. L. Stansell, and A. Turner and Son

In the Senior Bull class Hillside Peter Pan, who was in lower fiesh than last year and consequently showto greater advantage, won over Glenhurst Torrs Mayor. This was a close decision and was not unanimously agreed with by the breed enthusiasts. While the Ness bull was a thusianta. While the News bull was a smoother animal and showed plenty of quality, Mr. Hunter faulted him for being siltchily beavy in neck and shoulder. Hume's bull carried the weight hich on his neck and went up on his cibbing. Hillside Peter Pan also won Senior Championship.

Grand Championship.

The yearling Ayrshire bull class Hill brought out Netherhall Countermark, a breedy young bull showing fine quat-ity, owned by R. R. Ness, This animal found no difficulty in his class and was successful before the day was over in not only carrying off this first ribbon, but also the Junior Champion-ship and the Grand Championship, winning the latter over Hillside Peter Pan. The Grand Champion is a sweet specimen of the breed and gives great promise.

Awards-Males.

Awards-Maite. Hull, they sees and avar-1, Hillide Agayo, Neas: 2. Puirier Milknan, Mayo, Neas: 2. Puirier Milknan, Marker Marker, 2. Roring-Marker Marker, 2. Roring-Marker Milker, 2. Roring-Marker Milker, 2. Roring-Marker Milker, 2. Roring-Rate Marker, Neas, 2. Marker, Marker, 2. Marker, Neas, 2. Marker, Marker, 2. Marker, Neas, 2. Marker, N

Championahips, Males,

Senior champion bull-Hillside Peter

Senior champion bull—divisite rear nero Pan, Humer Champion bull — Netherhall herd. Gunitermark, Ness. Grand champion bull — Netherhall Ther Countermark, Ness.

Ness' Cow Female Champion.

Half a dozen quality cows faced the judge in the mature cow class in milk. Chapmanton Heney was the winner in the class. Her straight top, substance the class; her straight top, substants; two years; helfer, one year, and fuilts and quality make her difficult to best call-1, Ness; 3, Humes 1, Acamis Bross; In the showring. She won the Senior 4, Stewart. Championship, and also the Grand two helfers, one hull, under two years; Championship, and the the france of the helfers, one set ofd, and the set Hummehaugh Kate in the nature class Laurie Bros; J. Stewart. had not the substance of the winner, but was a well finished cow and stood second. The third award went to Grass miflees Flora, Ness. She has a rather plain head, but her finish put her up. Dalfibble Jemmima Jane 2nd her up. Dalfibble Jemmima Jane 2nd has quality, but is a shallower cow and went fourth

Burnside Dorothy M. was outstand-

Allo Constrained of the second second

Senior heige calf-, Burndie Randy Senior heige calf-, Burndie Randy hut, Ness: & Burndie Lady Locky 405, Sunnytrock Lady Jane, Laurie Broa, 6 Brownie 40, Lady Jane, Laurie Broa, 6 Brownie 40, Lady Jane, Laurie Broa, 6 Brownie 40, Laurie Broa, 6 Junior Heier calf-, Humsshaue Heien 40, Humes, Burndie Spicy Laurie Broa, 4 Burndie Silver Bail Jahn, Ness: 6, Gidd Hill Snowflake End, Laurie Broa,

Championships, Femals.

Senior champion Female—Chapmanton Heny, Ness. Junior champion female—Auchinbrae Victoria 8th, Ness. Grand champion female—Chapmanton Heny, Ness.

In the Graded Herd, R. R. Ness took In the Graded Herd, R. R. Ness took frat Enors, with a herd which in-cluded Glenhurst Torrs Mayor, 2nd prize bull in the senior class; Chap-manton Heney, grand female cham-plon; Auchinbrae Victoria Sth., junior female champion, as well as the first prize animals in the dry cow and calf classes. Alex. Hume with a herd headed by Hillside Peter Pan, senior male champion, received second awards.

Hobsland Masterpiece sired the first HODSIAND MARKETPIECE and the class and second prize winners in the class of three animals, the get of one sire. The two animals, progeny of Burnaide Lady Lucky led in the class "progeny of one cow." Ness also won in junior herd and in the special for breeders

Group Awards.

Three animals, the get of one sire--1 and 2, Ness; Sire, Hobsland Masterpieces 3, Hume; 4, Stewart; 5, Laurie Bros. Two animals, progeny of one cow--1, Ness; Dam, Burnside Lady Lucky; 2, Laurie Bros.; 3, Hume; 4, Ness; 5, Stew-art.

art. Graded herd, one bull over two years; two cows, three years and over; helfer, two years; helfer, one year, and helfer calf-1, Ness; 2, Hume; 3, Laurie Bros.;

Special Prizes.

Breeders' herd: one bull and four fe-males under two years, special by the Canadian Ayrahire Breeders' Association -1. Ness; 2, Hume; 3, Stewart; 4, Laurie

-1, Ness; 2, Danse, du of milk, special Bros. Heifer, two years, out of milk, special by The C. A. B. Association-J., Burnside Barbara, Ness; 2, Ruby of Craigalea, Laurie Bros; 3, Sprightly Dolly of Menie, Stewart, Farm & Dairy's Advertisers



The New HIP ROOF adds



(13)



THERE is a wrong kind of optimism, the kind in which a man thinks that the thing will come right without his doing it.

Winning the Wilderness (Continued from last week.)

T the world needs men anywhere, it is on the prairies," Thaine de-clared, and the doctor continued:

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"I have found my future already. I shall not leave China again. Grass River may miss me as a friend but not as a doctor of medicine. Doctors are too plentiful there. My place is are too plentiful there. My place is here henceforth, and I'm still young. I came to the Philippines to be with Thaine"—Horace Carey's voice was low, and the same old winning smile was on his face—"because I love the boy and because I wanted to protect him if it should be my fortune to do it Is aved him from the waters of the Rio Grande and helped to pull him out of the hospital at Manila. He doesn't need me now, for he goes to do a big work, and I stay here to do a big

"Out of love for me alone?" Thaine asked affectionately.

asked affectionately. "No, not you alone," Carey answer-ed frankly, "but because something in your face always reminds me of a face I loved long ago. Of one for whose sake I have cared for you here. You are going home a brave man. I believe your life will be full of service and of happiness." The silence that followed was brok-

en by Pryor Gaines saying: "All this time—such a tragical time —I have forgotten, Thaine, that I have a message for you, a little package that reached here late last May. It that reached here late last May. It was sent to me because the sender thought you were coming to China soon, and I was asked to keep it for you. You didn't come, and mails ceased to leave Peking-and then came the siege, the struggle to keep up the Jelemese, the struggle to keep vation, the deaths, the constant at-tacks, the final sight of Old Glory on the outer walls, and your triumphal entry through the sewer. You see why I forgot." He took a little package from his

writing desk and gave it into Thaine Aydelot's hand.

Aydeiot's hand. The young soldier tried to open it with steady fingers, for the address was in a handwriting he knew well. Inside a flat little box was a card bearing the words:

"To Prince Quij pi, Beyond the Pur-ple Notches." And underneath that lay a withered

little yellow sunflower. Two evenings later as the three Two events after as the three cares sud-denly gripped Thaine's hand in his, then sank back in his chair with eyes that aeemed looking straight into eternal peace; and the same smile that had won men to him seemed winning the angeis to welcome him heaven-ward. In the midst of his busy, useful years his big work was done, * * * *

The Sunflowers were just beginning to blossom along the old Grass River Trail. The line of timber following every stream was in the full leafage of May. The wheat lay like a yellow-

green sea over all the wide prairies. The breeze came singing down the valley, a morning song of gladness.

Leigh Shirley had come up early to the Sunflower Ranch to spend the day and night with Virginia Aydelot, while Asher and her uncle Jim took a two Asile and new uncle sing Wolf with days' business trip to Big Wolf with Darley Champers. Jim had brought Virginia a big bunch of exquisite roses which nobody but Jim Shirley could ever have grown to such perfection.



answer, Leighlie? I was coming back to the blessed old prairies, anyhow; to my father and mother and the life of a farmer. I have come to see at to my father and have come to see at last through Asher Aydelot's eyes that wars in any cause are short-lyed, and, even with a Christian soldiery, very bratal; that after the wars come the empire-makers, who really conquer, and that the man who practically wins from the soil its hundredfold of increase may be a king among men. I can see such big things to be done but, oh, Leigh, are you sure you here. want me here?"

Thaine was holding her hands in a gentle grip, looking with love-hungry eyes down into her face.

"I've always been sure "I've always been sure I wanted you," Leich said softly, "and Fre al-ways hoped you would come back here to the prairies sgain. But, Thaine, I'm so proud of you, too, for all the heroic thines you have helped to do in the Philippides and in China. I am glad new you dig of or a while. You have been chart of history-making that and that of the source year." T wanted

Thaine put his arm about her and

Thaine put his arm about her and drew her close to him as he said: "Then we'll go and build a house on the Purple Notches, a purple velved house with gold knobs, and all that yellow purities away to the west that we'll ur, grass land four years ago we'll ur, grass land four years ago hour years ago hour purple and the same same hour purple and the same bound for somebody



A Farm Home that Speaks Well for Huron County.

This large and attractive home is on the farm of Mr. Harry Grainger, Huron Co. Ont. There is no lack of space in this home and the spacious lawn makes an ideal spot for social gatherings. The illustration nerewith was snapped by our house-hold editor this summer while spending a few days of her vacation on this farm

Virginia went into the house to find the tall cut-glass vase Doctor Carey had sent to her when he started West, while Leigh went to the gate of the side lot to pet a pretty black colt that whinnied to her. "You beautiful Juno!" she cried, pat

ting the creature's nose, "Mrs. Ayde-lot says you are as graceful and welllot says you are as graceful and well-bred as all your grandmothers have been since the time a Juno long ago followed a prairie schooner down the old Grass River Trail to a little sod shack on a treeless claim in the wilderness. This is too fine a morn-ing to go indoors," she added as she came back to the front lawn to the sail under the frarerau white houses. seat under the fragrant white honeysuckle

She was as sweet as a blossom hershe was as sweet as a biosom her-self this morning, with her soft brown-gold hair waving back from her face, and her blue eyes full of light. Somebody had turned from the road

and was coming up the walk with springing step. Leigh turned her head to see who it might be, as she reach-ed for a spray of the fragrant honey-suckle, and found Thaine Aydelot stradius hefere, her

Standing before her. With a glad cry, she dropped the blossoms sprang to her feet. "Prince Quippi Couldn't come nor write, so he sent me. Will I do for an

like you and me. We'll buy it of his estate. We'll show the fathers what the sons can do."

A thrill of happiness lighted Leigh's face for a moment, then a shadow fell over it as she said:

over it as she said: "Thaine, Darley Champers and I have kept a secret for a year." "You kept it 'danged' well, What was it?" Thaine asked gaily. "Jane Aydelot, who died last year, left me all her property." Leich began. "Oud for Jennie," Thaine broke in, "Total for Jennie," but Leigh hurried on.

always knew she meant to do it. and that was one reason why I sent you away. I wouldn't have your money and I felt if you knew you wouldn't ask me for fear I'd think-Oh, money you don't earn or inherit squarely is such a grief," Leigh paused.

"So you wouldn't let me have any hope because of this junk in Ohio that you were afraid you'd get and I'd seem to be wanting if I married you, seem to be wanting if I married you, and you thought I ought to have and you'd seem to be marrying me to get. If I ever have an estate, I'll leave it to foreign missions. I'd like to make throuble for the cuss that got me at the Rio Grande. Money might do it," Thaing declared.

Leigh did not laugh.

"You are right, Thaine. I was so "You are right, Thaine, 1 was so unhappy about it all. For since I first came to Uncle Jim's I knew I ought not have Miss Jane's love and the farm that you would have had if she knew

'You've known this all these years and never told even me. You sile: little sub-soiler!" Thaine exclaimed. You silent

"It grew in my mind from an almost babyhood impression to a woman's principle," Leigh declared. "I never thought of telling anybody. But there was another thing that kept me irm that day on the Purple Notches. Years ago, when I was a baby girl, I remember dimly seeing two men in an awful fight one night just at dusk down on the railroad track by Clover Creek in Ohio. I thought one of them was my Ohio father. Miss Jane would never tell me anything about it, and made me pro-mise never to speak of it. So I grew up sure that my father had committed some dreadful crime, and, Thaine, un-til I know better, I couldn't take the risk of disgracing your name, the proud name of Aydelot."

"Oh. Leigh, it is no matter what our forefathers do—they were all a bad lot if we go back far enough. It's lot if we go back far enough. It's what we do that counts. It's what it do as Thaine Aydelot, not as Asher Aydelot's son, that I must stand or fall by. It's how far we win our, wildernese, little girl, not the wilder-ness our fathers won or lost." Thaine was sitting beside Leigh now, under the perfumy white honey-sencia blowards.

suckle blo

"But, Thaine, the bans are all lifted now

now." Leigh sat with face aglow. "Your grandfather wouldn't let his property go to a child of Virginia Aydelot, so Miss Jane couldn't give it to you. She left it to ure-all her property, provid-ed, or hoping. I would-you should." she hesitated.

she hesitated. "Yes, we should, and we will," Thaine finished the sentence. "Bless her good soul! I've always been rather fond of her, anyhow!" "And Darley Champers found out that my father was accidentally drowned long ago in Clover Creek. Uncle Jim says he never could sym. and ac rug hurden is the set Uncle Jim says he never could swim, and so tast burden is lifted. But, Thaine, will you want to go back to Ohio to the Aydelot homestead? I could sell it for a club house to the Cloverdate Country Club, but I waited till you should come, to know what to do."

There was just a little quaver in

There was just a fittle quaver in Leigh's voice. "Do you want to go back to Ohio?" Thaine inquired. "Unless you do, the country clubbers may have the place. There is no homestead there for me. There is no homestead there for me. This is my homestead. I want that open ranch-land beyond the Purple Notches. But, Leigh, if my father as administrator and trustee for John Jacobs' estate can sell me the ground Jacobs' cellste can sell me the ground and your inheritance from Jane Ayde-lot pays for it, what is there left for me to do after all? I can't take favors and give none. 'Pil run away and en-list with the Regulars first.'' A rueful look came over his lace now, and behind the words Leigh read

a determined will.

"The real thing is left to you," she replied, "the biggest work of all. You must go out and tame the soil. Your father bought his first quarter with money his father had left him by will, but he had no inheritance to buy all the other quarters that make the big Aydelot wheat fields of the Sunflower Ranch. If every acre of the prairie was covered with a'layer of eastern capital, borrowed or inherited, it would not make one stalk of wheat grow nor ripen one ear of corn. But you may turn up the soil with your you may that up the you with your plow and find silver dollars in the fur-row. You may herd cattle on the plains, and their dun hides will bring you cloth-of-gold. You may seed the brown fields with alfalfa, and it will (Continued on page 17.)

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The size of desired single used. inch po creasin potting some co bottom pots ha that the low the Dress H leaving the top After labeled : and plac close top

around th of ashes for about make an are well

THE UPWARD LOOK

The Efficacy of Prayer

PERLETS there has never been a time in the history of Chris-tine to the start of the start tanks has been as the failth of Chris-tanks has been as the start of the first while many have found of flict. While many have found of flict, while many have found of through this awful way, many benefits in these days of world-off the start of the world to day as part of the plyma scheme of a loving Father, have plyma scheme of a loving Father, have cast faith, prayer and religion to the cast faith, prayer and religion to the winds, and are living practically as athetists. Many more are wandering in the migts of doubt, seeking validy for an away to the questions that perplex them, and wondering if, after perpextinem, and wondering if, aftep-all, prays is of any value. To such, perhaps, the following lines of 201a Wheeler Wilcox, which we can across recently, may bring a message of comfort and cheer, and help to strengthen the faith of some who are beginning to doubt: beginning to doubt:

I do not understand to say That literal answers come from Hea-

That liceral answers when I pray yea, But I know this—that when I pray A comfort, a support is given— That helps me vise o'er earthly things, As larks soar up on airy wings.

In wain the wise philosophay Points out to me my fabric's flaws, m vain the actentiats aver "Instance" things are controlled by "Instance" things are controlled by "Instance" things are day by day My life has taught me day by day That it availed much to pray.

I do not stop to reason out. The why and how, i do not corre-Bines I know this, that when I doubt, Life seems a blackness of doubt, The world a tomb; and when I trust, Sweet blossoms spring up in the dust.

Since I know in the darkest hour, If I lift up my soul in prayer, Some aympathetic, both the proven Sends hope and comfort to me ther Since baim is sort to ease my pain, What need to argue or explain?

Prayer has a sweet refining grace, It educates the soul and heart: R lends a luarte to devaling art And by its elevating art It sives the mind an inner sight That brings it near the infinite.

That setupe it more actives it helps us rise From our groots actives it helps us rise. And so I ask not to be wise, and the setup of the Hub, that with ange? which and touch Easy, pray, for prayer availed much Easy, pray, for prayer availed

Potting Bulbs for Indoor Blooming

EPTEMBER is the month to pot S bulbs for early indoor blooming. Hyacinths, tulips, narcissus and jonguils are best suited for this purpose. A good soil for potting bulbs is composed of one-half part well de-composed turfy loam, the remainder well rotted stable manure, leaf mold and sand. These should be well mixed together.

The size of the pot depends on the size of the bulbs and upon the effects As a general rule, desired. As a general rule, for a single hyacinth a 5-inch pot should be used. For thips and narcissus a 4-inch pot is large enough, the size in-creasing with the number of bulbs. In potting place a plece of broken pot or some coarse ashes over the hole in the to secure drainage. pots half full of soil, set the bulbs so that the tops are at least one inch be-Fill the low the rin, cover them with soil and press it firmly around the bulbs, leaving at last one-half inch space at the top for water.

After all have been potted and labeled they should be well watered and placed out of doors, with the pots close together. Nail a board frame close togener. Nail a board frame around them and cover with six inches of ashes or cand. Leave them there for about six or eight weeks. Then make an examination to see if roots are well developed. If so, remove the FARM AND DAIRY

pots to a cold frame, shed, attic, or cool cellar in a temperature from 45

to 50 degrees, and water them well The secret of success in bulb forcing is perfect root development. There-fore be sure that the pots are full of roots before putting them into a higher temperature. By, bringing in a few pots at intervals of from eight to ten pots at intervals of from eight to ten days and placing in a sunny window with a temperature from 60 to 65 de-grees a succession of flowers may be had for months.

When Canned Stuff "Goes Bad "

When Canned Juli "Goes Bad" Sometrikes when we go to the fruit or vegetable sholf and bring up a jaw the least, it is exapper that it has "cone bad" privation of the state of the that it has "cone bad" appendix the least, it is exappendix appendix the least, it is a state that it has "cone bad" appendix the least, it is a state that it has "cone bad" appendix the least is the solitowing that is the state of the statisty conning "A great deal of the faulty conning "A great deal of the faulty conning

which I have seen can be traced to a few simple errors. As a rule, they are due to deviations from instructions which seem slight to the inexperienced canner, but which in reality make a great difference. I shall mention a few of the commonest failures with their

"A sour taste in corn, beans, or pe "A sour taste in corn, beans, or peas is due to allowing the vegetable to stand unprocessed for too long a time after it has been blanched, or hot water has been added. When brine or water has been added, the can should be sapled immediately. be sealed immediately.

be sealed immediately. "The darkening of corn is usually due to using corn that is too old, blanching it for too long a period, allowing it for too long after hot dip, or allow-ing the can to stand with hot water in it so that the corn becomes water-

"The cloudiness of peas and other canned food is due to too long cook-ing either when blanching or process-

ing. "The shrinkage of greens "The shrinkage of greens or soft fruits is due to careless packing, not packing the jar sufficiently full, or blanching for too short a time of sterilizing for too long a period. Greens and regetables that are soft should be blanched sufficiently to shrink them to show the unsufficiency they will be be blanched sumciencity to shrink them to about the consistency they will be when ready to use. It is well to steam when ready to use. It is well to steam spinach and other greens rather than to blanch them when in hot water, unless the flavor is very strong; then blanching takes away the exce

"Loss of water in a can is usually due to too rapid boiling. Water is not hotter when it is boiling fast than hotter when it is boiling fast than when it is at the boiling point. It is simply boiling more rapidly. For pro-cessing it should be kept at the boiling point. If a greater degrees of heat is required, sait can be added to the boiling water.

"Corn and sweet potatoes usually swell in processing: therefore jars should not be filled to the top. "To keep apples from discoloring, allow them to stand in cold water with

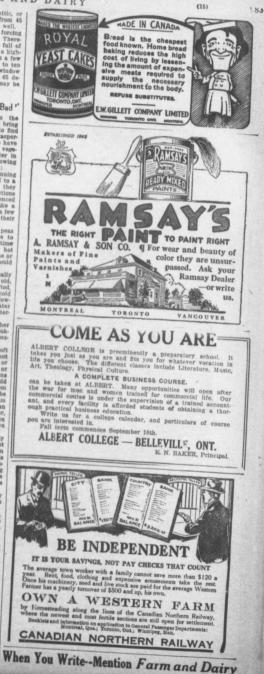
teaspoonful of lemon juice to each gallon of water.

"Beets lose their color because the top and tails are cut off too close to the beets."

Rhubarb and Fruit Combinations

HUBARB combines well with R many kinds of fruit. The last to come to my notice is rhubarb and raspberry jam. The combination increases the bulk, and the flavor is

Crab apples and elder berries form a tempting combination for jelly. The a tempting combination for jelly. The proportion is two parts crab apples to one of elder berries by bulk, or two baskets crab apples to one basket of elderberries. The elderberries give both color and flavor .- A. A. F.





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FARM AND DAIRY

A War Worker Honored

interesting incident in connec tion with the wonderful work the women of Canada are doing for the boys in the trenches, came to our attenton recently. We learned that Miss L. C. Hunter of Norfolk Co., Ont., recently received a Voluntary War Workers' Badge from the Canadian Field Comforts Commission, Moore Barracks, Shorncliffe. Upon requesting Miss Hunter to give us some details regarding the qualfaca-Upon tions necessary in order to secure this

tions necessary in order to secure this token of appreciation, she said: "When I received the badge re-cently, it was somewhat of a surprise to me as I had not sought to qualify and in fact had not thought anything about it. Over a year ago, when one of the business men of this district gave our society a knitting machine for use during the period of the war, no one seemed to know anything about manipulating it but myself. I gladly offered to run the machine as much as possible and asked for volunteers who would be willing to learn the mechan-ism of the machine. For a time I had six pupils, but have just three now besides myself, who devote certain hours each week to knitting on the machine.

"The qualifications for the War Workers' Badge consist of working 12 hours a week for a period of three months and nine hours a week after obtaining the badge. Our secretary, Mrs. Tomlinson, recommended me for the badge on account of the work 1 had done in teaching others to operate the machine. Three times a week l give over three hours to knitting and as we only make the legs of socks, it is easy for me to make nine pairs in three hours. We manage to keep shead of our many hand knitters, who when they take away the sock legs, are requested to wash and press the socks before returning them.

"I consider the knitting machine great help to our society and would certainly advise Red Cross Societies get one of a good make. While it takes some little time to get several women who are competent to run it one is more than repaid for their work in knowing that the boys in th trenches are getting the benefit of all the extra pairs of socks we are able to turn out."

True Sociability*

RUE sociability does not consist of wealth, position, education, culture, or refinement. While e people are blessed with these 1 While latter graces by nature, the majority have cultivated them through years of struggle and earnest endeavor and they are worth striving for, but one outstanding fact which must be recognized is that the grace of sociability is as much an inward life as an cutward life. Strange as it may seem, some of the people who are most genuinely sociable, are not found among the great, but among those of more simple life. The woman who with readiness serves what she has is worth a score of those who for sake of advertising, make a show which is only half meant.

We must acknowledge that the test of true sociabilit, is not the exceptional or extraordinary. Our quali-ties of sociability are not to be judged by our best prepared entertainment. It is when the unexpected guest arrives, when we are in the midst of our week's duties without any special arrangement for entertainment and we give that guest a hos-

* Some notes which were taken on a aper read by Mrs. MacMurchy at a seeing of the Women's Institute at King, York Co., Ont., last June.

pitable welcome without mortification. that we show true sociability.

Are we always sociable with the various members of the home? True sociability must be genuine. To be really sociable the motive must be one To be of sincerity. A heart knowledge of the second great commandmont and a daily practice of the Golden Puls, will lead anyone to the sure and true road that she has her own place to fill in the social life of the community in which she finds herself.

Banking Hints Worth Noting

H OW many of us are really famil-lar with banking iar with banking business and know how to intelligently transand act such business as opening an account, making deposits, signing checks correctly and so forth? In many homes the menfolk do all the banking business, we presume either becaus they think the women are not capable transacting such business, or cause the women themselves consider it the special duty of "hubby." We would all do well, however, to ac-quaint ourselves with a few banking hints as we do not know when the re-sponsibility may fall on our shoulders to do such work. Herewith are a few banking hints which are not hard to remember

Don't ask the teller to give you the mount at credit of your account, he doesn't know; ask the ledger keeper. Don't sign your name Miss or Mrs.

Jane Smith as the case may be, sign Don't leave the counter before count.

ing your money. The teller may have made a mistake and the proper time to rectify it is before, not after leaving Don't forget to bring your pass book

with you when depositing or withdrawing money

Don't forget to put the number your savings account at the top left hand corner of the cheque; it not only saves the ledger keeper much valuable time but yourself as well.

Don't forget to affix a two cent war tax stamp at the left hand corner of each cheque you draw; it is not only illegal not to do so but the bank is within its rights in refusing to pay cheques not so stamped.

Don't endorse a cheque any old way; hold the cheque in both hands, turn it over back to front and then write your name across the top left-hand end

Don't forget that attention to these small details will not only save you much annoyance, but will save your banker considerable time and trouble and tend to promote better relations between you.

Opening an Account.

If there are no forms on the cus tomers' desk, ask the ledger keeper to give you a deposit slip, telling him you wish to open a savings bank account. Take the slip he gives you over to the desk and fill it out with the denominations of the bills you have, and if you have cheques also, give some particul-ars of each cheque, so that they be identified. Add the whole thing up, cheques and cash, in one total. and hand it over to the teller, not forgetting to sign your name on the de-posit slip. Then move on to the ledger keeper's wicket, who will give you your pass book and answer any questions you may wish to ask him regarding the working of the account Attention to these small details will save not only yourself much annoyance and time, but will give satis-faction to the clerks, who are often much pressed for time, and will tend to promote good feeling and courtesy on both sides.

September 6, 1917.

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d th Li ye pa Ci Rr of dru cal rad pai and why the so ataka ple T eves edv Her in h two As come Ashe "H come "At fold here. stole "Se seem Virgin of the have Thain "Ye an old newsp glass : board. our ha "But vision to us. into he lighted 18 ?" "Jim in quie prepare He bur comes been fir the line to be, w more." The

Notches stretchin to the fields of immer alfalfa p With a. fårm life forth and whom th Caloocan Christian of the s power.

And th Virg and labor and deferred, a wildern the zenith

Winning the Wilderness

(Continued from page 14.)

IContinued from page 14.) take away the fear of project or over-draft, as the Coburn book say it will. 1 know, 're tried and proved it will. Thaline, with all your grand heatton that with all your grand heatton that with all your grand heatton that with all your grand heatton your is still a jungle and China isn't your is still a jungle and China isn't you have only pro-pared the light. You have only pro-pared the light. You have only pro-pared the light. You have only meet-ing without wishing that arm you of the Praties would tell than that you you have men and women fought of the strings without the that army of the Praties would tell than that you how the men and women fought of the strings without the that army of the praties would tell than that you have not rear of cannon, nor bugle calls, at they in inspiring heroid climator, and inspiring heroid ing and the foolishes and long waits a mad discourageom and long waits a the unfriendly hand to work upon you so glid you want to stay here and no see shad you want to stay here and no take away the fear of protest or overso glad you want to stay here and to take that open prairie beyond the Pur-ple Notches for our kingdom."

ple Notches for our Kingdom." The happiness in Leich Shirley's eyes took from Thalne's mind the memory of all the hardship and trag-edy of his two years on the battlefield. Her prids in his achievements, her joy in his return and her dream of their future from the shift of the first In his Yourn and her dream of their future together in a work so full of service, filled his soul with rejoints as the May morning opened for future two its paradise of Youth and Love, Asher and Virginia Aydelot had come out on the veranda to look for Leigh A moment they waited, then Asher and sorthy: "If a hag furgetime us but he hags

"He has forgotten us, but he has

"He has forgotten us, but he has come back to the life we love." "And he will come back to us ten-fold more ours, because his heart is here." Yirginia answered, and the two stole saftly indoors. "See the roses Jim brought; they sam to house to the heavilib teach

See the roses Jim brought; they seem to belong to that beautiful vase." Virginia said as they stood at the door of the dining room. "I think Jim must have meant them for Leigh and Thaine."

Traine." "Yes, he brought us sunflowers in an old tin peach-can wrapped with a newspaper, and we had no mahogany dining room set and not so much cut-glass and china and silver in our cup-board, nor quie such a cood rug on our hardwood floor," Asher replied.

Our hardwood noor," Asher replied. "But we had each other and the vision to see all these things coming to us," Virginia said as she looked up into her bushand's face with love-lighted eyes. "I wonder where Jim 14"

"Jim is present." Jim Shirley came "Jim is present." Jim Shirley came in quietly from the side porch. "He prepared your wedding supper for you. He buried your first-born, and now he comes to give you a daughter. He's been first aid to the Aydelot's all along the line, as he will hope to continue to he, world without end, and a little more."

The homestead on the Purple Notches looks out on a level land distribution of the land of the land distribution of the land of the land fields of the land way in an unbroken line endown of weaks grows golden in the endown of weaks grows golden in the endown of the land of the land of the standard states of the land of the state of the land of the land of the of the solid a line of usefulness and power. The homestead on the Purple

And the father and mother, Asher and Virginia Aydelot, who, through labor and loneliness and hopes loas deferred, won a desert to fruitiness, a wildernees to heauty-these two, in the zenith of their days, have proved

FARM AND DAIRY

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their service not in vain, for that they have also won the second generation back to the kingdom whose scepter is the hoe.

Not in vain did the scout of half a Not in van did the scout of half a century ago drive back the savage Indian from the plains; not in vain did Funston and , his "Fighting Twentleth" wade the Tulijan and swim Twentieth" wade the Tulijan and swim the Marilao; not in vain did Chaffee's army burst the gates of Peking, nor Calvin Titus fling out Old Glory above its frowning walls.

its frowning walls. Behind the scout came a patient. brave-hearted band of settlers who, against londiness and distances and drouth and prairie fire and plaque and beam, snowly but glorously won the bars, snowly but glorously won the or the lungles of lazon will go box. Upon the dynamics and spel-ing book. Upon the dynamics and spel-has a new light shind.

has a new nance. Not more to him who drives back the frantier than to him who follows efter and wins that wine that wine the sword re-shaped to a plow-share does the promise to Asher of oid stand evermore secure:

"Thy shoes shall be iron and brass; "Thy shoes shall be iron and brass; and as thy days, so shall thy strength be. The eternal God is thy refuge, and underneath are the everlasting

THE END.

In the days when eggs are scarce In the cays when eggs are scarce and high in price, try this plan when baking. Instead of using two eggs as the recipe calls for, use one egg and sift one teaspoon of cornstarch in with the flour.



(17)

et a grip on a great big stump and bring e. you will realize how this little machin The Kirstin's wonderful system of double I res work, quicker work, easier work, better stump pulling and at less cost. The p

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Dairy Progress of a Decade in Saskatchewan

My Experiences as a Pioneer Dairyman-By J. E. Frith, Moosomin, Sask. AIRYING in the west is some-

on in the east or older provinces In the west cows are largely kept for domestic use. Comparatively few are kept solely for the money they bring in, except near the large towns and cities or along radial rail-ways leading to them. This feature makes dairying, as a whole, a sort of side line to grain growing (wheat being king of the cash), and is generally carried on by the women folk, who handle both the products and the cash to their desires in the economic and aesthetic running of their house hold

(18)

This practice reduces dairying to a sort of sort of easy-going, haphazard, non-intensive business. It bears heavily the non-improvement of dairy on herds, the lack of selection, weeding out the boarders, better housing, care and and intensified feeding. It means small, rustling herds, such as can get their own living, fall, winter and spring. They must live and produce and on roughage simply, a system of eco-nomic gleanings, and what profits accrue are so much saved that would otherwise be a loss.

Economic Deterrents.

Except where milk and cream can be put upon city markets, the low class of dairy cows and the high prices of grain and labor and more than expensive buildings, it will not allow one to go into dairying in an intensified way. There are only two months, June and July, of first-class pasture, and to keep up a normal flow of milk for 10 months requires eight months of labor and expensive feed Corn is out of the list of dairy ing feeds; oats, barley, rye and mixed grains, green sheaves take the place clover, corn or the roughage of the east. Roots are too expensive to raise and house. Silos are few and far apart

I have just returned from a dairy meeting at Saskatoon, and in a 299mile stretch did not see an acre c* corn, a silo, an acre of mangels or corn, a silo, an acre of mangels or turnips, nor a dozen bunch of dairy cows - all is a vast plain of wheat with some coarse grains. The Saskatchewan University pos-The Saskatchewan University pos-sesses a silo, a Holstein herd, and a few acres of fodder corn and roots. Cows could be seen in small herds, ranging from one to a dozen. They vere of a decidedly scrub type, gener-

ally. Facilities for the manufacture of creamery butter in the province of Saskatchewan were slim when we came here; there were but three cooperative stock creameries in the phole of this yast plain, and the three did not produce more than 50,000 pounds of butter a year. They were largely financed by the Federal Gov-There was no market at ernment. anything like a fixed price for quality butter: so long as it was the product of milk was all that was necessary.

A Creamery Revived.

Shortly after I arrived here the creamery in this town was about to close down. We had brought up a car of highly-bred grade Jersey cows, and ome of the company leaders insisted that I, a total stranger, become president, cook, and chief bottle-washer the creamery, and sell or try to build up a butter-making business. I hired with the Dominion Government to operate the creamery for a year, re-newing the contract annually. The first year we made 12,000 lbs., which first year we made is over the when a start are many difficulties yet in was nine and a half cents-hnoome the way. It would not do to invest in nef, four and a half cents-hnoome the business if so far from a creanery ernment, however, gave us \$300, other or shipping station that cream could

IRYING in the west is some- wise our income would have van-what different from that carried ished. (I am credibly informed that one season the butter did not pay the running expenses by three cents. The Dominion Government made the creamery a donation sufficient to pay the patrons fourteen cents). We had no facilities for making our cream into butter and set about to resurrect and put life into the dead creamery. had in poel our cream with all sorts of stuff of quality better imagined than told. The output was a very low quality of butter.

The second year the government sent me a first-class hustler butter-maker, and, with the aid of the Dairy Commissioner, we succeeded in re-ducing the expenses to four and a half cents; the output rose to 25,000, the next year to 35,000, the next to 50,000 and is now up to a normal output of about 100,000 lbs. The biggest job we had was the raising of the quality of the cream. By patient showing, teaching and insistence, however, the patrons now furnish first grade sweet cream to our local creamery. We acceeded in getting all creameries to The provincial adopt two grades. dairy department now gives a premium of three cents a pound for sweet high flavored cream, delivered to all creameries government government operated creameries. This method of getting patrons to produce quality cream has been the most successful system yet struck.

Our First Winter a Hard One.

The first winter here we had only three tons of native hay, with twenty two head of cattle and seven horses to winter and seven months of feed We could get no oats, barley, ing. or middlings; no feed except bran wheat and that had to be fed whole. The only roughage was wheat straw. We folt like taking the stock to a bluff, shooting them and feeding to the coyotes. Four of the best cows did collapse before spring in spite of all we could do. The reader can imagine the problem we and all ambitious dairymen were up against dur the last decade. ing

The situatica has changed, how-ever, and is much more inspiring. There has sprung up a decided demand for higher quality in butter, cream and milk. Expenses of making have been reduced to a reasonable basis. The output for Saskatchewan has risen from a few thousands to, opproximately, last year, \$4,000,000 The government operated creameries now number 17. The demand for new creameries is increasing rapidly. The price of number one butter has risen to 25 cents for summer make, and 45 cents for winter products. By products are more largely utilized and greater quantities of succulent dairy feed are being produced. Oats, rye, barley and mixed grains are being raised and cut green for hay. Patches of fodder corn here and there are be ing experimented with and promise to be a success. The raising of roots is on the increase, and, all told, conditions are becoming more favorable for economic dairying.

In regard to corn we are hopeful; we have five acres this year drilled in Last year it was check rowed and turned 16 tons an acre. Since it has been proved that one of matured corn to two of any kind of hay properly siloed will kraut cure, we are satis-fied that it will pay and be an eco-nomic investment to build silos. nomic investment to build silos. These features are making dairying a surer investment.

not be delivered to creameries twice a week and sweet cream and milk to clities every day. We are slow to advise going into dairying if all labor has to be hired. One of the old settlers said, not long since, "When the boys and girls were all home 20 cows meant good money, now they are gone we just keep two cows." This is about the keynote to the whole business

A Premium Wage for Milking.

Our milking has all been done by hired help. We milk at 7 a.m. and 7 p.m. The morning milking goes into the regular days work; the evening gets a premium added to the wages All must milk every day of the term of engagement, otherwise the appli-cant passes on. Under this arrange ment we always get milking help and it works well. We think our teams do as much work with the first hour knocked off as teams beginning at a.m. With all our difficulties, we are satisfied that dairying has played an mportant part in our present equity. Our experience in connection with our cooperative creamery goes prove that farmers who have a herd of cows seem to get along easier and more smoothly than exclusive grain producers. A small cash cheque every two weeks stops the piling up of store, blacksmith and repair bills to be paid out of the wheat and flax bins ery fall.

We are cementing all government perated creameries into one consolidated company, to be under one nanagement. We look for many management enefits from this amalgamation,better facilities for cold storage, the selling of more uniform lots of butter in car lots, better known markets, and purchasing supplies by car lot. The prospects for incoming techni-cally and practically qualified dairymen are encouraging .- much more so than a decade ago. Dairy types of cows, especially sires, are increasing, with Holsteins leading. The coopera tive creameries reacher. The coopera-tive creameries are mostly supported by Danes at present, but Canadians are slowly and surely coming to the front and are taking a deeper interest in deliver. in dairying.

Up-to-date, little or no account, has Up-to-date, little or no account, has been taken in the by-products of dairy-ing. The feeding of pigs, utilization of straw, upkeep of soil fertility and such like, has been treated as of no value. This waste is now being more and more taken care of and is looked and more taken care of and is loosed upon as an indirect income. My ex-perience in connection with dairying, all my M'e, is Ontario. Wisconsin and the middle West, makes me safe in predicting a bright future for the busiess in Saskatchewan and the whole West

the mark. All the white cheese, howthe mark. All the white cheese, now-ever, were good, and a much larger ex-hibit than usual. In fact, white cheese were much more numerous than colored this year. The cheese cup went to Wm. Morse, of Stratford. The dairy contests were almost anada wide in their scope, five provinces being represented by their best makers this year. The extent of the territory covered tends only to add to the interest of the contest, and to win nowadays at the Canadian National is to achieve a nation-wide reputation among makers. The awards, in full, follow:

CHEESE AWARDS

toline: CHEREN AVARDS. CHEREN AVARDS. Theory Average Skift & K. B. Cherker, Skift & H. Manneed, Merson, Skift & H. H. Skift & H. Hanneed, Merson, Skift & H. H. Skift & H. Skift Skift & H. J. Neek, Tallards, Skift & H. Skift & K. J. Neek, Tallards, Skift & H. Skift & K. J. Neek, Tallards, Skift & H. Skift & K. J. Neek, Skift & J. Marker, Skift & H. Skift & J. Marker, Skift & H. Skift & J. Marker, Skift & H. Skift & J. Marker, Skift & J. Neek, Skift & J. Marker, J. Marker, Skift & J. Marker, J. Marker

J. F. COR, Greenhay, Gue, M.15 (on havor).
 B. Core, Greenhay, Gue, M.15 (on havor).
 R. Laflamme, McG; J. Wim, Morse, S.12; (H. J. Neab, Sick (on Bavor); J. H. Hommond, Sick (e. F. Lobbe, St. Hru-B. Schneiker, G. Mall, Core Bavor); J. Canadian Stilton; J. H. Hammond, S. K. Schneiker, G. Mall, Core, S. J. Canadian Stilton; J. H. Hammond, St. Si S. J. J. Neab, Sick (e. Wim, Morse, St. Si and Strategy, St. St. J. W. Colle-work) Wrock, The Statement, St. Si Stratford, Cont., W. T. Morse, St. Si Stratford, Cont., W. T. Oliver; J. Wim Morses; J. H. Hammond, Stars, Nim.

BUTTER AWARDS (CREAMERY).

Part and the series of the ser

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produce testing produce years 3 milk in During and thr \$4,000 v made to years of age of 1 of butte years, e or \$110

ness, b

Rosa

The Makers' Corner Butter and Cheese Makers are in-vited to send contributions to this department, to ask questions on matters relating to cheese making, and to suggest subjects for discus-sion.

Dairy Exhibits at Toronto

HEESE and butter made a splen-did showing at the Canadian dd showing at ne canacasan National this year. While farm dairy butter was on a par with last year in number of entries, creamery butter and cheese had practically doubled. In the butter classes a new section was added for June held butter, and a held wording of excellence twitter and a held product of excellent quality was shown. Jno. R. Almonte succeeded in winning the butter trophy for the third time in succession, and it now becomes his property "for keeps.

In the cheese sections the judges criticized some of the Judy and August colored cheese as being hardly up to

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Some Well-Known Western Jersey Herds

By an Editor of Farm and Dairy

Calgary Milk Prices

The same conditions prevail at Cal-gary that have made it necessary for

sary that have made it necessary for producers to ask higher prices for their milk elsewhere. Farm labor has advanced 25 per cent, dairy cattle 25 per cent, bran 100 per cent, day bothe cent, bother forty per cent, bothe cent, bother forty per cent, bothe cent motion and the these con-ditions how carnet. Under these con-ditions how carnet. Under these con-tions and the second prices?

The Vancouver Milk Probe

to investigate the milk situation

Farm and Dairy last week, has again reported. The report agrees that no

in

through their association.

the consumer is too great.

ment of this industry.

from the report reads as follows

"After full consideration and in-vestigation of the matter, we there-

fore find that, if the cost to the consumer is to be reduced, the relief must be sought in the curtailment of

the cost of distribution, the difference

company for the marketing of their products. The principle of coopera-tion among dairy farmers has been adopted the world over for the pur-poses of the protection and develop-

The cardinal principle for coopera-

HE special committee appointed

Vancouver, referred to

An extract

By an Editor of Farm and Dairy MY lover of a cood Jersey cow vinces of Canada, Alberta and the privatis the two weatern pro-tions of the provincial for the provincial that the records were cov of the provincial for the provincial for the provincial for the private here in the provincial for the provincial for Alberta, the private here at Sydney, RC, and the private here at Sydney. RC, and the private here at Sydney, RC, and the private her agement from the superintendent of the farm. Mr. L. Stevenson, B.S.A., a son of R. L. Stevenson, the well known this herd, but had a chai at the Medi-tine Hat Station, with its manager, T. son of R. L. Stevenson, H.S.A., a the Farmer Mr. Farmer was at one dairy farmer of Ancaster, Ont. The state of Washington, and for a herd of Grimmer Bros., of Pinder Lis-value, later with the noted Clise herd of Grimmer Bros., of Pinder Lis-tent With With Clise herd prac-some photographs were secured. Acording to Mr. Farmer the herd stocing weil, and a lot of the young stock is quite promising. Two of the grinds cows have given over 10,000 lbs.

grade cows have given over 10,000 lbs. of milk each, and two others over 5,000 lbs. each. The average produc-tion of 22 of the best pure-bred and grade animals last year wars 7,570 lbs. of milk. This, it will be noted, is an exceptionally fine average for such a number. An illustration of the herd was multible in last range Works. M Erom the week of Aug. 13th consumers will get nine quarts of milk for a dollar instead of the cusnumber. An illustration of the nera was published in last year's Western Canada Number of Farm and Dairy. of milk ror a dollar instead of the cup-tomary 10 quarts. Calgary consumers are, of course, complaining, although in Winnipeg, Vancouver, Spokane and almost all the Eastern cities, the price has been higher for many months back than the price in Calgary. The same conditions provail at Col.

Among the best records of the pure breds in the herd might be mentioned the following:

Name of G	lbs.	lbs.	Days
Name of Cow.	Milk.	Fat.	Mk'g.
Brampton Oxfore	1.		1993
Carleton	10,921.3	446.1	349
Brampton Rosalie	9,256.8	429.9	365
Brampton Winny.	7,254.7	372.2	365
Brampton Derry's			000
Fancy	8,848.3	404.2	365
Brampton Eureka	7,165.4	372.5	340
Brampton Noble's		014.0	040
Sultana	7,460.1	412.5	335
Wolseley Bess	8,216.7	524.	
Brampton Alfris-	0,610.1	024.	338
ton Queen			26
Brampton Cora	8,913.9	490.5	365
	9,381.8	487.8	316
Beamweir Tor-			
nado	9,230.9	466.2	347

The Sydney, B. C. Herd. The Jersey herd on the Dominion Government Farm at Sydney, B. C., Government Farm at Sydney, H. C., was established there only last No-vember, the stock having been secured from the Government Farm at La-combe, Alberta. It comprises only 12 thead, consisting of a bull, six cows, two yearling heifers and four calves. The outstanding animal of the hord The outstanding animal of the nar-is the bull Old Basing King George, out of the noted cow Rosalind of Old Basing, bred and owned by C. A Ju-lian Sharman, of Old Basing Farm, Alberta. His sire was Brampton Blue Alberta. This also was frampton block Beam, considered to be one of the beat bulls ever sold out of the Brampton herd. Old Basing King George is a bull of great substance, weighing as a three year old a little over 1,650 bb He possesses good masculine typ considerable length, unusual depth, in the cost of 6% cents delivered to type. long well sprung rib and dairy confor-"The remedy lies in the hands of the producer, 900 of whom have formed themselves into a cooperative

long well sprung rib and dairy confor-mation. He may lack a little in fine-ness, but is a ratting good bul. Bosalind of Old Basing, his dam, produced 1,340 lbs. milk in a year testing 5.16 per cent. In one year also produced 1,031 lbs. butter, and in the produced 1,031 bb. Hig cream and shu milk in four years was sold for 1,000 methods. During that period she dropped a bull and three heifer calves for which \$4,000 was offered and refused. This \$4,000 was offered and refused. This made total returns from her in four years of \$5,602. She yielded an arcs-age of 18 guarts of mulk, or 2 14 has, of butter each and every day for four years, equal in value to \$3.70 a day. er \$110 a month. She was said to be tion for marketing purposes is to bring the producer and the consumer bring the producer and the consumer together; cutting out all leakage and superfluous middle-mass. Under co-operative effort the expense of pas-teurisation, clarifying and prepara-tion can be materially reduced, and by

FARM AND DAIRY

a systematic delivery throughout the Fourth War Year at C n National the constant of the constant of the state of the sta city, overlapping would be obviated, waste eliminated and consequently es reduced.

The Fraser Valley Farmers' Cooperative Company, which supplies some 60 per cent, of the needs of the city of Vannouver, has written that they are prepared to deliver their pasteurized products to the consumer 10 cents per quart upon a system of 10 cents per quart upon a system or unit distribution. This, your com-mittee understands to mean, that the milk by-law of the city would have to provide for milk routes in order to do away with overlapping in deliveries. While, the direct result would be a away with overlapping in deliveries. Whils the direct result would be a reduction in cost to the consumer without leasening the return to the prducer, the principle of interference with competition and freedom of trade is of such importance that your com-mittee hesitates to recommend such a course As the cooperative company which makes the offer controls such a rge proportion of the milk supply of the city it seems reasonable to suppose that a unit distribution arranged by the producing company will work out its own success and the Contact waste in the overlapping of deliveries entity, will be redn. to a minimum." (19)

(Continued from Page 2.)

Credit; J. K. Featherston, Streets-ville; J. E. Brethour & Nephews, Bur-Vine; J. E. Brethour & Nepnews, Bur-ford, and Jacob Lerch, Preston. Berk-shires were shown by John D. Larkin; P. W. Boynton & Sons, Dollar, and Adam Thompson, Stratford, D. Douglas & Sons, Mitchell, were the large Whites were numerously represented Whites were numerously represented by Wm. Roberts & Sons, Peterboro; D. De Courcey, Mitchell; W. E. Wright Son, Glanworth, and George G. Gould, Essex. Duroc-Jerseys were to much in evidence to all bacon fan-clers, the principal exhibitors being C. Malott, Wheatley; Malott a Stoba ciers. Learnington, and George G. Gould, Es-Sex

of the thirty-ninth annual Canadian National Exhibition to do more than mention briefly some of its main features that directly affect agriculture. But the exhibition is broader than any one industry. Each year it endeavors to reflect the growth of And it has succeeded in its

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It is impossible in this short review

n. Hallam's Trappers' Supply Cata Hallam's when you ship your 134 HALLAM BUILDING, Limited TORONTO. Roof Barns with Paroid THE choice for roofing narrows down to wooden shingles, metal, and Paroid. The fire risk with wood is too great, and frequent repairs are necessary to insure even reasonably

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The largest manufa Wall Boards fing F Far Hamen N 122

excessive profits are made by either producers or dealers, but finds a seriproducers or dealors, but finds a seri-ous Joss through the overlapping of milk routes, estimated at \$80,000 and an unnecessary waste of bottles es-timated at \$10,000 a year The price could be reduced at least one cent a quart, the committee believes by the producers retailing their own product 5.55 NEPONSET

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FARM AND DAIRY

Notes, Queries and Answers

Diarrhoea

Diarrhoca HAVE mine caives, even of which have the white sours and are rapidly good applications, allowing they have about a hird of a pail of clear waiter and iosa than a point of feed flowr and a tea-fording Royal Purple and thought that if might be causing the trouble, so got we fed them the fresh milk. Would like to know the cause and a cure for the trouble is due to they to the

food taken or to a germ that exists in the stable. If possible remove the In the stable. If possible remove the calves to non-infected quarters or thoroughly sweep, dust and disinfect the present quarters, by giving all a thorough scrubbing with a five per cent. solution of crude car-bolic acid in hot water. We have no definite knowledge of the value or nature of the proprietary foods men-tioned, but it will be wise to make a change. Mix one part formalin with 15 parts water. Add to the water or milk given to drink one-quarter of its bulk of lime water, and to each part of this add a dessertspoonful of the solution of formalin. «If the calves are old enough to eat hay, give good clover hay, and for a grain ration give chopped oats with the hulls sifted out. It will be wise to thoroughly disinfect the quarters where cows are to calve, and to dress the calves' navels as soon and to dress the calves havens as soon as possible after birth and several times daily afterwards until healed, with a solution of corrosive sublimats, 20 grains to a pint of water.

Interference With Creek Interference With Creek W¹⁵ have a hare creek which draining three-quarters of the township of Maden. Arean boucht it for hun-names of the second passage there? If not, how can we make him take it could second second second the township power to make him remove meet? The poole who use the second to under drain in, loss heavily by the water besiding us. The man who bought the second second second second second trains, loss heavily by the water besiding us. The man who bought the second second second second second trains, loss heavily by the second second second second second trains, loss heavily by the second second second second second trains, loss heavily by the second sec

The owner of property along the banks of a stream or river is entitled to the normal flow of the stream. That is the water cannot be diverted from his lands from above, nor can it be damned up so as to overflow his lands by an obstruction or dam below. When either of these conditions ized

or depriving them of its flow, and are also entitled to an injunction restrainand churter conduct of this kind. We can only suggest that you take this matter up with a good solicitor. Your legal rights have apparently been in-terferred with and the courts can easily remedy the matter.

Leucorrhoea

HAVE a cow that called about eight weeks ago. Since that time is he as discharged a yellow substance. She keeps thin in fiesh, and her appellte is not very good, although she fives a good amount of milk. What should 1 do with her--GRC, Guantead Co., Que

This is called leucorrhoea or whites. The womb should be flushed out daily, with about a gallon of a warm one per cent, solution of one of the coal tar antiseptics, introduced by the use of an injection pump, a syringe with a long nozzle or a rubber tube and funnel, and she should be given 40 drops carbolic acid in a pint of cold water as a drench three times daily until the discharge ceases.

Itchy Legs

W HAT will cure itching in a Clyde horse's hind legs from hock joint down. He scratches one leg with the other and is taking the hair all off. A Reader, Renfrew Co., Ont. Purge him with 10 drams aloes and

Furge him with 10 drams aloes and two drams ginger. After his bowels again become normal, give him two ounces Fowler's solution of arsenic, sprinkled on his food twice daily for sprinkled on his rood twice daily for a week. Make a solution of corrosive sublimate, 30 grains to a pint of water. Heat this to about 105 de-grees F, and rub a little well into the skin of the legs twice daily until tablease access. Screen backstore itchiness ceases Some horses predisposed to this trouble and it requires almost constant attention to prevent it.



Newmarket Workingmen Organize.

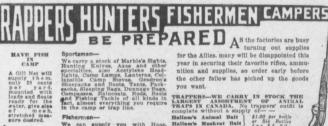
W^E have labor unions and brother-hoods of different kinds in plenty, but who, until recently, ever heard of a workingman's organchasing food at a price less than that paid on the local market? The workpaid on the local market? The work-ingmen in the town of Newmarket have such an organization, and it bids, fair to fulfil, in a measure at least, the purpose for which it was organSeptember 6, 1917.

titled to damages against the one so is generally traceable to some specific backing up the water over their lands condition or set of conditions prevalent prior to its organization. It is true that there are cases where some The that there are cases where some brainy chain has seen where certain changes could be made in manufac-ture, sale, or distribution of a com-modity that, if put in force, would save money for hundreds of people. save money for nundreds of people, but unless conditions are favorable it is seldom that he is able to get the masses to adopt his ideas and thus derive the benefit that would come from them.

The conditions which led the Newmarket people to see their need of a united body to deal with them are similar to those existing in every town of similar size in the Province. The high price of all food stuffs makes it almost impossible, even with big wages, for the working people to live wages, for the working people to live in any degree of comfort. Conse-quently, that class, that is always present although not always in evi-dence in every body of men, began studying the causes of the high cost of living in their own town. They found that one of the main causes was the lack of unity of the buying public. This meant that daily three milk waggons went over the same route, one following the other within a few hours. Three butchers delivered meat to the different families, each keeping from one to three outfits for the purpose.' Four bakers covered the same ground and in the same manner. Quite a large number of grocer wagons also were kept busy in the same way. It was seen that in some cases at least it would be possible to save the expense of one or more of these outfits and also lower the price of the commodity being distributed by a system of united buying. The sim-plest and easiest one upon which to demonstrate this scheme seemed to be delivery of milk the

The matter was thoroughly discus-sed and finally it was decided to organize a workingman's club, with an an-nual membership fee of \$1, as a means to provide funds for carrying out the program, and also as a guarantee of the good faith of the members. About 15 men joined at the organizing meet-15 men joined at the organizing meet-ing, and within a few weeks the num-ber reached 150 members, and is still growing. With this number of mem-bers and also the backing of \$150 in cash, they were able to go to one of the milkmen and offer him their united trade if he would reduce the price of milk from nine cents for unbottled and ten cents for bottled to eight and ten cents for bottled to eight cents for the former and nine for the latter, holding over him at the same time the whip that if he did not they would put on a wagon of their own on the road. The milk dealer readily saw that if he did not acceede to their de-mands he would lose his business, and he constructed for theme months and he contracted for three months

The starting of any such movement



TRAPPERS-WE CARRY IN STOCK THE LARGEST ASSOLTMENT OF ANIMAL TRAPS IN CANADA. No trappers' outfit is complete without a supply 6¹² propers' outfit is Hailawi's Animal Bait | 31.08 pr builts Hallam's Animal Balt Hallam's Muskrat Balt Hallam's Trail Scent as they will as they will largely increase your catch of fur.

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Wean of the | good co young p dry cla thamps to eat supplyin mits the tle midd later sor milk is available and mid dry. Ave will not if no mil or nine w A good three mo mixture o

at this price. All this may

All this may seem on the race or at comewhat arbitary and Germanish, but the milk dealer told the writer since righing the contract that with the lowered price he was doing a greater volume of business and when all things were totalled he found he all things were totalled he found he was making as much as before the change. He optimistically looks for-ward to a still greater increase in the quartity of milk sold, and a greater profit to him because of it. The greatingthich house to experi-

The organization hopes to experi-ment along other lines, and if its methods do not become too drastic and despotic they may meet with good and despote they may meet with good success. In looking over the whole matter carefully, one cannot help be-ing convinced of the folly and wasto-fulness of many outliks covering the same territory for the same purpose, when one would serve the neople same territory for the same purpose, when one would serve the people equaly as well. It is well to note also that the organization of men in towns and citize is not for the purpose of reducing the price to the producer but rather to bring about a more effi-c'ent and cheaper method of distributing his products. If would seem therefore, that the closer to each therefore, that the closer to each other that the organized producer and consumer can get, the more profitable will it be for each of them. Does this disprove the old law that "The price of any article depends upon the sup-ply and demand"?---W. G. O.

Seasonable Swine Notes By E. S. Archibald, Dominion Animal Husbandman.

N⁰ farm animal is better adapted to meet the urgent requirements of the immediate future, regarding the supply of meat and meat-pro Ing the supply of meat and meat-pro-ducts, than is the hog. More indi-viduals may be raised per head of breeding stock, and less time elapse between birth and marketable age, than with any other class of domes-ite animal. An increasingly insistent tic animal. An increasingly insistent \$2.50 per dozen. demand makes greater production im perstivo

The grain requirements of the hog are practically standard and do not permit of the variation possible with the dairy cow. Standard hog-foods the dary cow. standard hog-toods are soaring in price-shorts, mid-dlings, barley, oats and corn-but so is the price of pork. It is a practical certainty that this relation between cost of production and selling price must continue at least as long as the musi continue at least as long as the In making his weekly examinations primary exciting cause for present of the hives, the beckeeper should high prices exists. The farmer can keep an eye out for indications as to raise pigs to dealy with as the farmer can in the farmer is a doing. If the broad greater, profits than before the with the queen is doing. If the broad fadings on the Experimental Parms greated, it is a presty good indication system. They go to prove the above that the queen is not up to the stand-statement.

FARM AND DAIRY

ETOD TERMONT

shorts, three parts; linseed oil meal, one part; skim milk, five pounds. Soak 24 hours and feed.

Pigs may be self-fed from six weeks onward. It is best, however, to start self-feeding at about 10 weeks of age. self-reeding at about 10 weeks of age. With paddock feeding a self-feeder will save 50 per cent. of the labor. On pasture, with running, or a con-On pasture, with running, or a con-tinuous supply of water, nearly 75 per cent. of the labor may be avoided. Do not forget that the pig knows how Do not rorget that the pig knows how much and how often he should eat, in many cases botter than his master. The self-feeder allows him to judge for himself. Gains at least equal to handfeeding may be expected.

APICULTURE

Ontario Honey Prices

HE Crop Report Committee of the Ontario Beekeepers' Associa-tion met on Wednesday, August 500 beekeepers from all parts 15th the province reported an average of 51.6 pounds per colony, which is about the average reported from year to year. While most of the South counties have had short crops, the Eastern counties have done better than usual. The market has been bare of honey for several months, owever, all the necessaries of life have advanced and beekeepers expect some increase in price, although the advance over late winter prices re-commended is slight.

The committee recommends the following prices:

Best quality light extracted, whole-sale, 14c to 16c per lb. Best quality light extracted, re. 11,

1714c to 20c per lb. Best quality comb, wholesale, \$2.00

to \$3.25 per dozen. No. 2 comb, wholesale, \$2.00 to

The Annual Requeening.

PON the queen depends the suc-PON the queen depends the sac cess of any colony of bees as honey producers. When one considers that during a rapid honey flow the workers of any colony are entirely renewed in six-week cycles, it will be seen that if the colony is to be kept up to full producing strength the en must be vigorous

1915 4.40 28.00 \$9.00 \$	rofit cwt. r feed).
1916	2.85 4.80 7.00 7.00

Weaning time is the critical stage of the pig's life. Farrow the sow in good condition, but not fat. Make the young pigs take plenty of exercise in dry clean quarters, thus avoiding thumps and indigestion. Teach them to eat three weeks before weaning, supplying a box or creep which ad-mits the little ones only. Feed a lit-tle middlings and skim milk, adding later some sifted ground oats. Skim milk is almost a necessity. If not available makes a provident

st successful beekeepers of Ontario have an annual requeening in August. In this month all colonies whose queens are not young and vigorwhose queens are not young and vigor-ous have a young Italian queen intro-duced. In this way the new queen will have time to build the colony up well better the bees go into the win-ter. On account of the resistant qualities shown by Radian to Euro-pean foul brood, these should always he und in transcenter.

The middings and skim milk, adding later some sifted ground cata. Skim milk is almost a necessity. If not available, make a portidge of oatmeal and middings, or feed these meals fees that are bringing the source of the new queen dropped on the farmes, dropped on the farmes, honey will seldom question source honey will seldom question source that strange queens are often halled and align ration for the two to the see advocated, and proheably all will bring a certain degree of success.



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TAMWORTH-Young Sows and Boars from several litters just weaned. Herolds Farms, Beamsville; Ont, Niagara District.

FARM AND DAIRY

The Empire at Toronto

HE milking machine is a reality. A few years ago many dairymen were sceptical concerning the possibility of ever designing a machine which would successfully Derform the delicate operation of milking.

But inventive genius laughs at im-possibilities. And after long and careul experimenting The Empire Milking Machine was perfected and completely solves the problem. The milk is drawn with the proper amount of vacuum and the tests are gently massaged after each spurt of milk is drawn

Nature's milking machine, the calf, draws milk by suction, relieved every second or two by pressure from the tongue. He never squeezes the milk tongue. He have squeezes the mine out as the hand milker, lacking a suc-tion apparatus, is forced to do. The pressure he instinctively puts on the teats between pulls is another wise provision of nature. It presses back the blood which the suction would otherwise draw into the teat walls in The such excess as to cause congestion. The Employ Milking machine faith-fully reproduces the cal's method,-the sucking pull, then the pressure that counteracts the effect of the suction on the teats. The perfect natural-ness of he Empire's action explains why it keeps the cow's teats and udder in better condition than does hand milking.

Equally important is the impro ment in the quality of the milk itself, which is drawn from the cow and deposited in perfectly sealed air tight palls. No stable air, no dust or dirt comes in contact with the milk.

The Empire is not failing to attract a great deal of attention at the ex-hibit of the Empire Cream Separator Co. under the Grand Stand. It may also be seen at Ottawa and London fairs. It is a machine that has proven likeli in actual practice, in the dary atables of the most prominent breeders and datrymen in Canada and the United States. Such men as G. S. Goodenham, G. A. Brethen, Manning W. Doherty, J. Alex, Wallace and many others with herds valued at thousands fairs It is a machine that has proven of dollars, have proven the Empire a reliable machine, that can always be used on the best herd in the Dominion.

The Empire Cream Separator Co., of Canada, IAd., of Montreal, will gladly send their booklet to any interested dairyman.

CONSIDER THIS BULL CALF

Has dam is EUVERSUM LANY PC/PTFAC, head by J. W. Richarshen, Calcodast. Ont., and bin simi is Hr. Richarchenyis sense head hail, out of a 27-th over. Has granaddant is TOITLLA DERKOL RANGASTER, bit has mits dans of TOILing of Hawking and the sense of the sense (LAMPION BL C). P. She dans of TOILing of Heavier, CARADIAN CONTROLLING THE CONTROL AND AND AND AND AND AND AND PUICING HIM REASONABLE. WILl for full parkingters. F. LEAHY. R. R. No. 9, PETERBORO, ONT.

- KING SEGIS

of Forest Ridge. 10th, whose three nearest dams average over 10 las. butter in 7 days, is the sire of a buil calf we offer. His dam has an official last of 50 bits milk in 7 days. Horn March 10th, 1017. Crowthy and leads of quality. Scheddly marked, This is A GREAT CHANCE FOR SOME ONE. FIRST CHEQUE FOR SOME ONE. FIRST CHEQUE FOR SOME ONE. O. L. JORDAN. SARNIA, ONT.

- Spruce Row Stock Farm,

PEACH BLOW AVRSHIRES

Young Stock for sale, always on hand (both sexes), from high-testing beavy producers. Good udders and large test a special feature of my herd. Three fine young Sires ready for service. Get particulars of these if you need a sire. R. T. BROWNLEE, Peach Blow Farm, HEMMINGGORD, Que.

The Old Original Summer Hill Farm-

ere you find the pure bred Oxford. We have for sale 150 head of regis-d eyes, 75 head of yearling reans, 50 runn lambs and 60 cwc lambs, some co show reams and ewes, all first class individuals and guaranteed pure Box 454

PETER ARKELL & CO.,

TEESWATER, ONT.

Market Review and Forecast

The proper field second break market in the second branch break market in the second break market in t

motions are not en-tailed and a set of the set of the

	TTAO	weight.	Dress
Chickens, spring .	20c	to 22c	25c to 3
Hens, under 4 lbs.	18c	to 00	20c to 0
Hens, over 4 lbs	., 20c	to 00	20c to 0
Hens, over 5 lbs	., 20c	to 00	22c to 0
Roosters	14c	to 00	16c to 0
Ducks	., 10c	to 00	00 to 0
Ducklings	. 16c	to 00	22c to 0
Turkeys	16c	to 00	18c to 0

HIDES AND WOOL.

HIDES AND WOOL. Country Markets-Jeec hides, flat, eared, lib to lit; deacon or bob salt, 8176 (or No. 4861; horrehides, country tak-eopekins, 82 to 82.60. Horsehair, farm-ers' stock, 82.60. Horsehair, farm-ers' stock, 82.60. Horsehair, farm-wool, flat, Fire; coarne, 62.60. Walked DAIRY PRODUCE. The hitting marked continues stores.

hards conditions much better for fails proving. WHEAT. Shipmend of Manibok wheat during the week have been small. There are sevaliable on the signal values wheat millers who have orders for pring wheat the balance of the week an idderior idde prices indicates that our wheat without prices indicates that our wheat without millers and bury and the size of the seck an idderior idde the order of the seck an idderior idde and bury and the size of the seck and the seck and the balance of the week an idderior idde market down as the for the size of the seck and the seck there indicates the size of the seck and the balance of the seck and the seck and there indicates the size of the seck and the seck and there indicates the size of the seck and there indicates the size of the seck and there indicates of the classer seck and the seck and there indicates the size of the seck and the seck and the seck in the ordinates indicates the seck and the seck and the seck in the ordinates of the seck and the seck and the seck in the ordinates in the seck indicates the seck of the seck and the seck and the seck indicated in the seck indicated the seck indicates the seck of the seck and the seck and the seck indicated in the seck indicates the seck of the seck and the seck of the seck and the seck of the seck and the seck

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do common 81	00 to	9 25
Butchers' bulls, choice . 9		9 50
do good 71	50 to	8 25
do medium	25 to	7 25
Butchers' choice cows 8	25 to	8 75
do good 71	03 00	7 50
do medium 6	25 to	
Feeders, 300 to ',000 lbs. 8	50 to	9 25
do medium, 700 to 800		
pounds 7 !	75 to	8 25
Stockers, 700 to 900 lbs. 7 (10 to	8 25
do medium 6 (10 to	6 50
Canners 5 (00 to	6 00
Milkers, good to choice 96 (10 to	125 00
do com. and medium. 65 (10 to	85 00
Springers 40 (10 to	120 00
Calves, veal, choice 14 (10 to	15 00
do medium 11 !	50 to	13 00
do common 6 (0 to	8 50
do grass 6 (10 to	7 00
do heavy fat 8 (10 to	10 50
Spring hambs, cwt 14 7	4 to	15 50
Sheep, yearlings, choice 11	0 to	12 50
Sheep, ewes, light 8 !		
do, heavy and bucks 6 !	0 to	7 50
do. culls 4 (0 to	5 50
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Montreal, Aug. 29 At th	he Ca	madiam

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A. W. HAS TWE nearly c cases in weather come sho off seric of obee chinery this wea

"WATT WATE some az came in Wheat ii barley as A lot of all will Hydro po is a succ power ou dix farm transform transform transform the moto con, pots con, pots con for emount w EDMON

EDMON HRORSE is almost looking fur yet, and s wheat. O week. So which was sown in as are down a bushel; H are runnin, 10c; eggs, at 18%c for amail hors G. E. T.

ONTARIO ONTARIO Editor, Fr new enroh be four or four erificates are called third class, fourth class, fourth class, fourth class, fourth class, all borace enive an "j cate, shall d class and the called thorsenen co cate, shall d classes an "j cate shall d classes an "j ca

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September 6, 1917.

 Proprieting of prices show the first static st

Postal Card Reports Correspondence Invited.

MISSISQUOI COUNTY, QUEBEC. MISSIGUUSI COUNTY, QUEBEC. FREETAMENTION ARE. 37-Haylag mersions have been fixed by way withing, and there is a "single of the single the intract we don the yield of hay in the intract we don the yield of hay in the intract we don the yield of hay in the intract we don the yield of hay in the intract we don the yield of hay in the intract we don the yield of hay in promising fail county. Forstoom is and the promising fail of the single of the yield of the promising fail of the yield of the yield of the promising fail of the yield of the yield of the promising fail of the yield of the yield of the promising fail of the yield of the yield of the promising fail of the yield of the yield of the promising fail of the yield of the yield of the promising fail of the yield of the yield of the promising fail of the yield of the yield of the promising fail of the yield of the yield of the promising fail of the yield of the yield of the promising fails of the yield of the yield of the promising fails of the yield of the yield of the promising fails of the yield of the yield of the promising fails of the yield of the yield of the promising fails of the yield of the yield of the promising fails of the yield of the yield of the yield of the promising fails of the yield of the promising fails of the yield of the yield of the yiel

HASTINGS COUNTY, ONTARIO.

HASTINGS COUNTY, ONTARIO. TWVBER, Aug. 21.-JEAVENING is in most nearly completed and hybrid is in most cases fairly satisfactoring yield is in most come of has caused the pasturmaked dry come of has caused the pasturmake of sectory in the milk for has failed of sectory in the milk for has failed of sectory in the milk for has failed of sectory in the milk for a set of the sec-timery to secrate the work of site of a cyt.-II is not in work for \$16.75 a cyt.-II is not in work for \$16.75 a cyt.-II is not in a cyt. I is not cyt. a cyt. I is not cyt. a cyt. I is not cyt. a cyt. I is not cyt. a c

this wroke for shorts a tork-ship. On A to WATERELOO COUNTY, ON ARIO. WaterElector, Angel 28. - We have have been sense saveling that are shower on the Winest is write hardly a shower on the Winest is write hardly a shower on the Winest is write hardly a shower on the wroke the write hardly a shower on the risy and one on the threshing, but years and the star was badly have been by the shower of the shower of the save and the star was badly have been by the shower of the shower of the save and the shower of the shower of the shower of the shower of the save and the shower of the shower of the show present and the shower of the shower of the motory will be pair on the show of the show postere and roots are looked of the shower of the shower of the shower of the motory the pair on the shower of the emount will be pair on the Alberta. WATERLOO COUNTY, ONTARIO.

EDMONTON DISTRICT, ALBERTA.

EDMONTON DISTRICT, ALBERTA. INDUSE HILTA, N. C. 21.—71th barrest balance here excit all intervent balance here excit all the source of the balance here we haven't had any are when, Some green feed in about one when, Some green feed in about one when the source of the source of the source of the source of the source and the source of the source

ONTARIO STALLION ENROLMENT.

ONTARIO STALLION ENROLMENT. Reditor, Transmittant Dalry, -According to saw enrolment and Dalry, -According to the four excitacial control of the second bornes in 1918. The highest model - and the second class will be called "-partial second class will be called the second class will be call inspection by a select costs 8, 8 sec-tion finds called "-the Promism Intervention the Rhows named on the application from classical fundamentary fundamentary for the second form.

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FARM AND DAIRY

Control and the starting of th

The "Hinman" at the Exhibition

I ^F there is one piece of farm ma-finitery that is relieving the work on our dairy farms, more than any-thing etse, it is the milking machine. Dairy farmers did not fail to appreci-te this when they stirted the evided ate this when they visited the exhibiate this when they visited the exhibi-tion this were Particularly were they impressed with the Himana as even in the pasement of the Model Barn There are so many distinct features about the Himan that it is really a class by itself. The first striking point is the entire absence of when the suman. The milk can thus

striking point is the entire absence of a pipe line system. The mlk can thus a new be kept sweet and clean, as boars are holong metal pipes to get contaminated. Mr. D. C. Platt, a big out in har of Hamilton, has proved this out in stat two years' experiences. Mr. Finit producing with a Himman a specially producing with a Himman he city of Hamilton and containing only 8 to 10 m. bacteria per cu. cen-timeter. When be reading the red to the city of Toronto allows 250 to 500 m. timeter. When it is realized that the city of Toronto allows 250 to 500 m. per cu. certimeter we can understand the purity that can be secured with the purity that can be secured with the Himman. A special price is paid for such milk. Another porminent dairyman in Western Contarlo presives is extra per gal for his higher grade of milk from a Himman. The extra price pays entirely for his work of wilking.

The simplicity of the Hinman is an The simplicity of the Himman is an-other great feature. A light sliding shaft driven by a 1 H.P. migine is all the power required for a size of the fit. At the Model Barn a 5 of the motor was doing this work. A point too, that the thousands of Himman too, that the imprediate is not psers never fail to appreciate is not only the very moderate first cost of the Himman but the low up/keep cost. This latter feature helps to explain the ever increasing hundreds of dairy-men who are installing Himmans from H. P. Baid, the mano-facturent, M. Son of Galt, the mano-facturent, and, you will find it worth facture, hill be oget the Himman book-jour while to get the Himman book-let. It will give you some starting let. users never fail to appreciate is let. It will give you some startling facts regarding the milking of your own herd. Write a card for it.

I lounge, secure in her protection; No fear of spills or jolts I feel-



1 141

butter in 7 days. HIS DAM-DORA

DeKOL, 13707, a grand young cow, always testing 4% fat and milks 70 lbs. per day

ALSO THIS CALF'S 3.4 brother, and one 9 months old, from R. O. M. sister of MAY ECHO SYLVIA. Bargains for quick sale. Write for photos, full informa-

tion, etc., to A. ARI'HUR GIBSON R.R. No. 2 Newcastle, Oat.

SOMETHING CHOICE"

Sing Hengerval, of Oak Park, born March 8, 1617, hast black and white, a root individual and well grown. Oil and man drive are tuberculn tested. Ben-Lakeye Dutchland Hast 1846 ibs. butter in 7 days. Unseland Champion as a saal Exhibition and London. 1916. This stand Champion at the Canadian champion as the Canadian average test of 4.69 per cont. milk sits 27.41 Bas. butter on grass with an average test of 4.69 per cont. a systip your wilk grant conselity and a record of 48.6 Bas. milk with 51.5 Bas. butter and are agrint of 4.89 per cent. out. Weit at your as a bas a same and a s

W. G. BAILEY OAK PARK STOCK FARM

R.R. NO. 4, PARIS, ONT.

LAKEVIEW HOLSTEINS

Are still in the lead. The latest Holstein year book shows that they held 4 Canadian Electric International Control (1997) and 1918 and 1918. Now we passible at book Twornto and London Ekthistic builts and 1918. Now we the fail are several richly bred young follows that and so the source of the

VILLA VIEW OFFERS FOR SALE

Villa View, the home of King Segis Alcarts Calamity and Dutchinnd Pontiae to the second secon

-HOLSTEINS-

We have the only two sons in Canada, of the 46-lb. bull Ormsby Jane King-only mature son of the world's most famous cow. One of them for here, size a 30-bb. cair, whose dam and two for an average 33.4 butter in 7 days. Also 11 bull calves of issue node, and females of all ages. R. M. HOLTBY. R. R. No. 4.

PORT PERRY, ONT.

Registered Holsteins

Bulls from one month to if months old for sale. All from our grand hard s ire, Echo Segis Fayne sire is half-toroher to Segis Fayne Johanna, the world's worder cow hous sire is half-toroher to Segis Fayne Johanna If you need a well backed bull write at nose. JOHN M. MONTLE, Sunnyside Stock Farm STANSTEAD, QUE.

(24)

September 6, 191%

