Issued Each Week-Only One Dollar A Year

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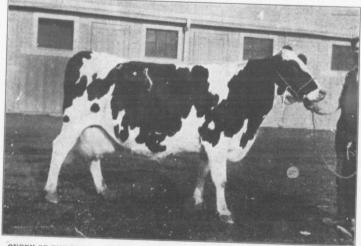
FARM AND DAMP.

RURAL HOME

PETERBORO, ONT.

NOVEMBED OF

1913



QUEEN OF THE BLACK AND WHITES AT THE NATIONAL LIVE STOCK AND DAIRY SHOW

Dairy cattle were out in strength at Toronto last week; almost 300 head of them. Of these well over 100 were Hole steins. The subject of our illustration is the grand champion female, Cora Countees Echo, shown in the dry cow class by her owner, Hiram Dyment, Dundas, Ont. Her type is well worthy of study. It is the ideal for a cow of producing ability. Note the strong constitution as indicated in the deep, strong heart girth, the capacious middle that indicates feeding capacity, and the long straight hind quarters. We seldom make a mistake in buying a cow of this type.

-Photo by an editor of Farm and Dairy

BETTER FARMING AND
CANADIAN GOUNTRY LIFE

1242



B-L-K Milkers Save Money

The greates; advantage of Burrell-Laurence-Kennedy Machine Milk-ing over hand milking is the big saving every year in actual cash. When you add this to the other advantages you can not but admit that milking by the B-LK method, as one customer puts it, "Bas got hand milking beat by a mile" no matter what way you look at it.

Sanitary Milk Cows Milked Clean Milking Time Cut In Half Large Yields AND

A Big Saving in Labor and Money

are things you can not afford to ignore.

Each of these features mean

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Just an instance to show what one man is doing:

He is taking great pains in the care of the milk and the way the cows are handled, but he is milking 100 cows in two hours with six machines, operated by two men, and a third to carry the milk. He effects an actual saving of ±1.500.00 per year, with an equipment that you him \$82.55 complete.

It is impossible for us to tell you more this week, about the BLK and you like and to for you in the way of saving labor, money, and you do not you so that you have a saving labor, money full details (let your card and pen now, before the matter slips your memory.

D. Derbyshire @ Co.

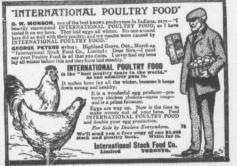
BROCKVILLE, ONT. Head Office and Works - - -Branches: PFTERBOROUGH, Ont. MONTREAL and QUEBEC, P. Q.

WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS

THE FIFTH ANNUAL XMAS AND BREEDERS NUMBER

December 4th.

Reserve Your Space To-Day



NEW NATIONAL LIVE STOCK AND DAIRY SHOW OFF TO GOOD START

Entries in Many Departments Exceed those of the Long Established Guelph Fair -Dairy Breeds Strongly Represented-Attendance Small-Where the Show is Weak.

The breeders of live stock, however, were there in vene greater numbers, in many departments, than at the Canadian National theelinks eclipsed those with the live stock of th

When the subject of a National Show.
winter fair was first broached it was seriously questioned if such a fair could be made national in more than could be man. It was feared that geographical difficulties stood in the way of a successful national show. Also it was seriously questioned if Toronto was the proper place for the holding of such a show. These fears were was the proper place for the holding Clydesdales were out in strength, such of such a show. These fears were bre-ders and importers as T. D., realized to a certain extent in the Elliott. Bolton; T. H. Hassard, Mark, show of last week, in high better ham; Graham Bros., Claremont, and be called a press, for instance, there represented. The winnings were was not a single exhibitor from out-widely distributed among contestants side the order of the distributed among contestants and the state of the distributed among contestants. Highfield, so the state of the distributed among contestants of the distributed among contestants and the state of the distributed among contestants will be supported the same conditions had almost all the Shires, their old generally ruled. In beef cattle the rivals, Porter Bros., not being pre absumed an international aspect, sent. Percherons were well representations of the properties of the same conditions of the distributed among the state of the same conditions and the state of the state of the same conditions and the same conditions and the same conditions are stated to the same conditions and the same conditions are same conditions. a couple of United States herds being ed, But whether the fair was national

or provincial in character it was a success from the standpoint of ensuccess from the standpoint of en-tries. There were almost 300 dairy cattle, well on to 300 beef cattle, around 350 horses, 400 sheep and 300 pigs. The breeders will continue to come. The prize list is a generous one. The treatment accorded to apply the management. by the management accorded to all courteous. With certain improvements there is no reason why the National Show should not appeal to visitors as well as breeders.

JUDGING CONVENIENCES LACKING The feature that will most seriously militate against the success of the new fair, which has made such a promis-ing start, is the lack of a suitable judging arena. The horses and beef cattle, for instance, were judged in the live stock arcade. There was not a single seat available for those who a single seat available for those wild wished to see these classes judged. There was no room for seats to be placed. Practically all the available space in the arcade was required for the judging ring. Small as was the the judging ring. Small as was the attendance this year, there was not a day when the ring was not surrounded, and many passed on unable to see. Even when a visitor did get a see. see. Even when a visitor did get a good (?) position next the fence of the ring the narrowness of the enclos-ure made it impossible to see more than a few entries in any class.

So much for the horses and cattle. When we consider the dairy

THE National Live Scoke and cattle, the conditions were even worstart. If we may judge from when first suggested, more authority and start. If we may judge from when first suggested, more authority and systematic assistance than any grounds of the Canadian National other classes. The conditions of the Canadian National other classes of the first fair here to stay. True, when we winter sideration at the hands of the manning that the condition of lough in an empty cow sned. There were no signs to direct people to the bridging shed, no seats for visitors in the shed except a couple of benches carried in by the breeders themselves, and insufficient lighting.

It was the universal complex of the complex of the couple of the co

It was the universal opinion of the breeders and visitors that the future success of the National Show depends to a large extent on the erection of a suitable arena where people may sit comfortably and watch the judg-ing, and in which the stock may all be housed. A November fair in this country can not be conducted with housing conditions that are adapted to August and September. Such an arena would be a valuable acquisition to both the Canadian National and the National Live Stock and Dairy

Every one, or nearly every one, yes a good horse. And the horses at loves a good horse. And the horses at the National would appeal to the most Heavy horses greatly pre dominated; more so perhaps than at any previous winter fair in Canada any previous winter tair in Canada. Clydesdales were out in strength, such breeders and importers as T. D. Elliott. Bolton; T. H. Hassard, Mark (ham; Graham Bros., Claremont, and ed, and the standard was high. J. B. Hog-te. Weaton, had a long string of good ones, as had also T. D. Elliott. Bolton; Hodgkinson & Tisdale, Beaverton, and T. H. Hassard A few had individual entries. It will be some years yet before the 'little fellows' will be as prominent in the Percheron classes as they now are in the Clyde sections. FAT CATTLE

Canacistus got a bad set back in the Shorthern classes. Two United States had a had been bade and should another a succession and Carpenter and Ross. Mansfield, Ohio, captured every championship, and the majority of the rel ribbons in the sections in which they competed. Their success, however, will be but a pur to the Ganadias. competed. Their success, however, will be but a spur to the Canadian breeders. Some of the latter were Kyle Bros., Drumbo; Kerr & Davidson, Balsam; F. A. Watt, Elora; Ged. Amos & Sons, Moffatt, and several

others.

Herefords were shown most nunerously by L. O. Olifford, Oshawa; Mr. W. A. Hunter & Son, The Maple: Henry Reed. Mimosa, and Jas. Page Tyroonnell. Jas. Bowman, Gueph. Thos. Broadfoot, Fergus, and Jas. Lowe. Elora, contested the Angas Col. McCrae's Galloways. steases. Col. McCrae's Galloways. steases. usual, were along.

SHEEP AND SWINE

Sheep men had an unusually sopportunity of displaying their last week. During the summer best flocks are scattered over (Continued on page 13)

Issued Each We

Vol. XXX

This and Many Frait Grov

S there a being over planting to duction liable the orchard in These questi

vious convention Association, bu was never so nual conventio and Friday of the opening ad "The crop in s Dempsey, "at cost of produ cases. This lo result of overwhile not a fu means it was h give a slump in selling organiza helpless in the crop and the pr in which we ha lieved. This ye almost a failur

kept within reas And then Mr. ed this caution: feel that the app soon be overdor seems necessary our fellow invest selves who alre business." Mr lieves that peach equal reason wi ers to be cauti plantings. Che advanced in pric cause of dry we:

PROD

Prof. J. W. Ci College, approac tion from a diff that some varieti Baldwin, for inst cial varieties, is as great quantit The lowering of t the United States Canadian custom the planting of B: advisable as Uni heavy producers duction of strictly Crow predicted a fruit growing ind of Snow, McInto:

always at the top

Canada can produ

other country in

Vol. XXXII.

FOR WEEK ENDING NOVEMBER 27, 1913

No. 48

IS ORCHARD PLANTING BEING OVERDONE IN ONTARIO?

This and Many Other Subjects of Importance Discussed at the Fifty-third Annual Convention of the Ontario Fruit Growers' Association - Light on the Transportation Problem - A Summary of Addresses.

S there a danger that the fruit industry is being over-boomed in Ontario? Are we planting too much land to orchard? Is production liable to outrun consumption, and make the orchard investment of little worth?

These questions have been asked at many previous conventions of the Ontario Fruit Growers' Association, but the subject of over-production was never so seriously considered as at the annual convention held on Wednesday, Thursday and Friday of last week. It was the keynote of the opening adress of President W. H. Dempsey. "The crop in storage sold this spring," said Mr.

Dempsey, "at prices far under cost of production in many cases. This low price was the result of over-production, and while not a full crop by any means it was heavy enough to give a slump in prices. All our selling organizations seem to be helpless in the face of an overcrop and the prices and profits in which we have so long believed. This year, with a crop almost a failure, apples have kept within reason."

And then Mr. Dempsey voiced this caution: "We begin to feel that the apple business may soon be overdone, and caution seems necessary on the part of our fellow investors and on ourselves who already know the business." Mr. Dempsey believes that peach growers have equal reason with apple growers to be cautious in future plantings. Cherries have not

advanced in price and berries were high only because of dry weather.

PRODUCE FANCY VARIETIES Prof. J. W. Crow, of the Ontario Agricultural College, approached the subject of over-production from a different standpoint. He admitted that some varieties had been over-planted. The Baldwin, for instance, one of our best commercial varieties, is already being produced in just as great quantities as the markets can stand. The lowering of tariff duties on apples going into the United States and the lowering of our own Canadian customs tariff that may follow, makes the planting of Baldwins and similar varieties less advisable as United States growers are also heavy producers of these varieties. In the production of strictly fancy varieties, however, Prof. Crow predicted a great future for the Canadian fruit growing industry. He advised the planting of Snow, McIntosh and Spy, varieties that are always at the top of the market and which we in Canada can produce at better advantage than any other country in the world.

Mr. McIntosh, the originator of the McIntosh apple, endorsed Prof. Crow's views, and instanced a sale of apples that he had made in Montreal this fall at \$7.50 a bbl. for well-packed McIntosh Reds. Mr. Dempsey suggested that a great market for first class Canadian fruit could be worked up right in our own cities. "Toronto people," said he, "are paying long prices for foreign fruit of inferior quality to that which they can secure at home."

PROPER DISTRIBUTION THE SOLUTION Still later in the session Mr. Robert Thompson came back to the subject of over production and

The Champion: First in Her Class by Merit of Production Dairy cows had an opportunity to vin honors at Toronto by two distinctly different methods—on conformation and by proving their ability as graduates. The times by the first test appears on the front cover of Parm and Dairy conformation are visible to the second of the second second and the second second and the second and the second and the second second and the second s

stated most emphatically that he did not believe there was any danger of fruit growers outrunning the demands for their products. "There are consumers enough in Canada," said he, "to use all the tender fruits that can be grown from Toronto, around the head of the lakes and to the Niagara River if all the suitable soil were planted." Mr. Thompson speaks from the experience of many years as the president of one of the oldest, largest and most successful of our cooperative fruit growers' associations. His remedy for the apparent over-production that was in evidence in connection with tender fruits this year and apples last year, is proper distribution. He refuted the idea that Ontario fruit is unpopular in the West and told of the immense shipments that his own company is making there every season and with satisfactory results at both ends. The smaller towns and cities of Ontario and the East also present an enticing market when their needs are intelligently studied.

THE TRANSPORTATION PROBLEM As at all previous conventions the transporta-

tion problem presented the most difficulties. In a rather lengthy paper, Mr. G. E. McIntosh of Forest, the Association's transportation agent, reviewed the entire situation and showed how inadequate were the provisions made by our leading railway companies for the transportation of fruit. The problem of rates, though they are all the traffic will bear, he did not consider the essential point. The grievances of the fruit growers as he saw them are lack of railway equipment, inefficient terminal facilities, uncertainty as to rapidity of transit, rough handling, pilfering and neglect in icing cars or heating them, according to the season. In concluding his remarks Mr. McIntosh made the following recommendations:

First, that an effort be made to have navigation companies handling freight and operating upon Canadian waterways, placed under the jurisdiction of the Railway Commission; second, that

power be given the Railway Commission to adjudicate claims against railways or express companies not settled in 60 days; third, that the Commission be given jurisdiction in the fixing of penalties for rough handling and pilfering; fourth, that fruit inspectors be also cargo inspectors; fifth, that the express minimum be reduced from 20,000 lbs. to 15,000; sixth, that the railway companies allow free transportation both ways for men sent in charge of heated cars; seventh, that the railway companies be asked to provide a special fruit service from central shipping points in Ontario to Winnipeg during the shipping season.

The recommendations made by Mr. McIntosh met with the approval of the Association and were incorporated in their resolutions. It was also decided

to print Mr. McIntosh's address in pamphlet form to be distributed among the members of the Association, Members of Parliament, and others who might be interested in the subject.

PEACH DISEASES DISCUSSED

A popular speaker at this as at several previous conventions, was Mr. L. Caesar, Provincial Entomologist, who discussed "Little Peach and Peach Yellow and Apple Scab." Of the former disease, Mr. Caesar reported a continuous and rapid decrease in the number of trees destroyed each year for Yellows and Little Peach, the total having dropped from 60,000 in 1911 to 6,000 in 1913. He asked for the assistance of all growers in the extermination of these diseases. Prof. Caesar attached little importance to the so-called cures for these diseases, claiming that the only remedy was eradication by digging the diseased trees and burning them.

The new interest that fruit growers are taking in the production of absolutely clean fruit was shown by the interest taken in Mr. Caesar's

Concluded on page 18

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Reduce Cost of Marketing

Prof. C. Larsen made a most telling comparison between dairy versus general farming at a convention held at Waterloo, Iowa, recently. He claimed that it would cost \$31.40 to market the feed of a cow shipping from Sioux City to Chicago, while the butter that a cow would produce could be marketed for \$3.25. Here is the way he figured it out:

"During the winter months a dairy cow will eat about three tons of hay and one ton of

grain. To get this feed for one cow from the farm to Chicago market will then cost: Hauling from farm to shipping point 3 loads of grain Hauling from farm to shipping point 1 load of grain at \$4 4.00 Transportation of freight on 3 tons of hay from shipping point to Chicago at 20c per cwt.... 12,00 Transportation or freight on one ton of grain at 17c per Total cost of marketing feed for one cow per year .. \$31.40

"This cost has been calculated on the basis of carload lots, and does not consider elevator charge or commission for handling and selling at central market places.

"One work of the dairy cow is to reduce this marketing expense. A fairly good dairy cow should be able to change this feed into 300 pounds of butter. The cost of shipping 300 pounds of butter from Sioux City, Iowa, to Chicago, is \$1.35. Adding \$2 for hauling it from market to shipping point the 300 pounds of butter would therefore be about \$3.35. The cost of marketing the feed necessary to produce this butter as shown above, is about \$31.40. The dairy cow thus reduces the cost of marketing field crops from \$31.40 to \$3.35, or to about 1-9 as much.

Good Dairying in Hastings

A. D. McIntosh, B.S.A., Hastings Co., Ont.

Mr. W. E. Tummon of our county is a farmer of whom we are all proud. He has dairying down to a fine science. His well managed 150 acre farm and his splendid herd of 30 pure bred Ayrshires attest the truth of this statement, and his neighbors all agree that "Tummon has things down pretty fine.""

For the past four years Mr. Tummon has been sending the product of his cows to the City Dairy of Toronto, and for the past three years has milked the year round. He tells me that winter dairying has almost doubled the income from his herd. He has a dairy attached to the ice house, where the cream is separated from the milk by gasoline power. His cream is saved sweet by using a tank which Mr. Tummon had built according to his own instructions. Here is a description of the tank:

CREAM WELL KEPT

There are two thicknesses of steel with an air space between-bottom, sides, lid and all being thus. The lid is fitted so that when shut no air can get in. In this tank is kept the water and ice. Mr. Tummon had two cans made that would hold the cream of one milking. As soon as the separating is done he sets the cream into the tank and closes the lid. He told me with satisfaction that he has not had one pound of sour cream in the two years in which he has had the outfit; and

the cream has sometimes been kept three to four days in the warmest weather. This tank was built at a cost of only \$14. Another proof of its satisfying qualities may be found in the fact that Mr. James Anderson, treasurer of the E. O. Dairymen's Association, asked Mr. Tummon to build one for him, which is also giving the best

Mr. Tummon believes the silo to be almost indispensible for milking cows, and although he has a large run of rough, natural pasture, yet



8 A View of the Once Rat Infested Vineyards of the Austrian Tyrol

never misses more than two months of the year that the milking cows are not fed ensilage twice a gav. His 10 x 24 ft. silo for summer feeding cost only \$45, and a neighbor also built one 12 x 30 ft. for \$70. These silos have wooden hoops made of 1/2 x 4 inch rock elm bent to the size of circle required, following this with three more ply breaking joints until there is a hoop four inches wide and two inches thick. These hoops



Austrian Grape Growers Fighting One of Their Own Peculiar Pests

The Austrian Tyrol, one of the greatest grape producing sections of the world, has recently suffered from an invasion of field rats, which threatened to completely destroy their vinesaria. A modern "plet Piper of and under his direction several Pasteur Institute of Pa. Impregnated with a commercial poison, Danyse Viras, were distributed in the method suggested by the jointer. The operations have proved or markably successful. Is is prompt measures the potential provided and vineyard.

inch lumber slightly bevelled, nailed to these hoops (on the inside of hoops), following again with a second supply of lumber breaking joints. These, when properly erected and painted, will make very serviceable silos and keep ensilage with the best. His second silo, 12 x 30 ft., is an "Ideal." Mr. Tummon grows 12 or more acres Freezing in the Silo

By A. D. Wilson

None of the types of silos put upon the market so far will keep silage in this latitude without more or less freezing taking 'ace during the winter months, although those having air spaces in the walls seem to freeze somewhat less than the type having solid walls.

Experience has shown, however, that freezing can be kept within reasonable limits in silos of any comomn type by the exercise of a little extra care. A good tight roof should be provided and the doors should be kept closed as much as possible to prevent circulation of air above the silage and to keep in the heat generated by the silage.

In using, it is important to keep the surface of the silage level, or even a trifle high in the middle, not allowing a hole to form in the centre as is sometimes done when silage begins to freeze around the edges. We have never had any bad results from feeding frozen silage, but it will not keep long after thawing out,

Since most of the freezing is due to cold air above the silage it is possible to afford considerable protection by keeping the surface covered with hay or straw, or better still, a blanket of

If in addition to these precautions it is convenient to build the silo in a sheltered place there should be little loss or trouble from freezing.

The Why of a Rotation

J. H. Grisdale, Supt. Dominion Experime Farms

In order to lower the cost of production the first step is the introduction of a proper rotation, such as a rotation of corn, grain and clover. Do you ask why?

It facilitates the operation of a farm. It is always easier to grow grain aier corn, as provided for in the rotation I have mentioned, than it is to sow it on only plowed land. It is easier to prepare sod for corn than it is to prepare it for any other crop for the reason that it gives you more time to work it.

You want to put your grain on the ground that is ready to receive it the soonest and I know of no ground that is as near ready for the grain crop in the spring as corn land. I know of no land that is better prepared for the grain crop than corn land. It has a good solid foundation and a solid seed bed and at the same time it is in good condition for drainage and it is ready early in the spring. It has also the manure in it in just such a stage of decomposition and disintegration as fits it best for the requirements of the tiny grains of grass seed. It is in every way in ideal condition for growing

The corn comes, in a three or four year rotation, just where it gets what suits it, abundance of coarse feed in the way of rotten manure and decaying grass roots, and has received that pulverizing which enables the roots to go into the soil and get more food from the sub-soil and more or less moisture. It is in fact, an ideal condition for the corn, and the (Continued on page 17)

grain.

HERE 'V adian p Internat Contest at C

tural College tober 31. T White Wyand Creek, Ont., heavily as v but two eggs in the first co cessors of the good year, well in the la ished tied among the White Legho Moore with a

The Cana get going w the year the The latter p hens this time double colony laid 681 eggs or 15 hen pen sprinkling of the hen pens white leghorn eggs against

hens laid 807 The chief l to English Wh from Catforth for egg produ eggs these fiv the year each, eggs. They week and from in the pen lai the 8th to 12th pullet wasn't

A N "Baroness I national record comes the title Canada and E eggs during t was done by horn which ma Missouri conte with two eggs below four a seventh week She laid 10 eg the contest. 1 a day and for twice, as indic her egg laying "Baroness I the best pair

The White Wyan

HERE were but four Canadian pens in the Second International Egg Laying Contest at Connecticut Agricultural College, which ended October 31. The Beulah Farm White Wyandottes from Stoney Creek, Ont., didn't lay quite as heavily as when they finished but two eggs behind the leaders in the first contest; yet the successors of those pullets put in a good year, laying especially well in the later weeks, and finished tied for tenth place among the 100 pens with the White Leghorns of Burton E. Moore with a total of 945 eggs.

The Canadian birds didn't get going well until later in the year than the 1912 pen. The latter pen was left in as

hens this time and occupied the other side of the double colony house from the next generation, and laid 681 eggs during the year. There were a dozen or 15 hen pens in this second contest and a slight sprinkling of hens in the pullet pens. Among the hen pens was that of F. G. Vost's, Sayre, Pa., white leghorns, which won last year with 1,671 eggs against Beulah Farm's 1,609; Mr. Yost's hens laid 807 eggs this time.

The chief honors of the year-long affair went to English White Leghorns; Thomas Barron's pen from Catforth, Eng., made a wonderful record for egg production. Eleven hundred and ninety eggs these five pullets laid, an average of 238 for the year each, and every bird laid more than 200 eggs. They started laying with 11 eggs the first week and from thep till the 48th week every bird in the pen laid each week, with the exception of the 8th to 12th weeks, inclusive, when the No. 3 pullet wasn't laying.

A NEW WORLD'S EGG RECORD

"Baroness IV," one of the five, broke the international record for individual egg laying and becomes the title holder so far as the United States, Canada and Europe are concerned. She laid 282 eggs during the year, which is one better than was done by "Lady Showyou," the White Leghorn which made the previous record in the first Missouri contest. "Baroness IV" began laying with two eggs in the first week, and dropped down below four a week only twice after that, in the seventh week to three, and in the 50th to two. She laid 10 eggs, however, in the last 15 days of the contest. Nine weeks only did she lay an egg a day and for 14 days an egg a day only twice, as indications of the consistent course of her egg laying.

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"Baroness IV" and a sister in the pen made up the best pair of layers in the contest with 544



The Type of Double Colony House Used in the Contest

eggs their joint production. The sister was third among individuals with 262 eggs for 12 months. Another pen of English White Leghorns which

Another pen of English White Leghorns which occupied the other half of the double colony house, belonging to Edward Cam, Houghton, Eng., came in second among the hundred pens in



The International Champion Layer

This hen, Baroness IV., has laid more eggs than any other hen in the world on record,—252 eggs in 365 days, She is owned by Thos, Barron, Gatforth, England, who sent her, with four other White Leghorns to compete in the International Egg Leying Contest at Storrs,

the contest, with a total of 1,107, and in this pen was the bird which took fourth place among in-individuals with 296 eggs. Last year's best was but 294, made by a Kentucky Rhode Island Red, and the improvement can be readily seen. Last year, however, Barron's Leghorns finished with but four Leghorns in fourth place, having led the affair till the fifth bird died.

Fifth place among individuals really belongs to England, as the pen entered by O. A. Foster, Santa Cruz, Cal., was elected from the Baron strair of White Leghorns. One of these birds came in fifth with a record of 293

BEST AMERICAN RECORDS

The best Amarican bird, which was second to "Baron-ess IV," was a White Leghorn in the pen of Burton E. Moore, Winsted, Conn., which laid 207 eggs in the year. She has had a very consistent record, laying seven eggs in a week but once. The best American pen was that of W. L. Sleeger, York, Pa.. White Leghorns, which finished in third place among the hundred, with a total of 1.029

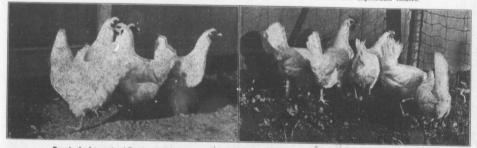
eggs. They were first in the monthly totals in April, May, July and August, and tied with Barron's Leghorns for third in June. Barron's birds figured in the three monthly prize winners six times, but were first only in November.

In the first seven pens to finish there were four English pens, since in addition to Barron's and Cam's Leghorns there was a pen of White Wyandottes from the latter in fourth place, with 1,009, and a pen of White Leghorns from Frank Toulmin, Burnley, Eng., in seventh, with \$64—and the Foster pen finished fifth.

In all 67 birds laid 200 eggs or better. The total egg production for the 500 birds—all pens finishing with five layers apiece—was 77,916, which gave the five hundred an average of 156 eggs each. Among the breeds the Leghorns were far in the lead with an average per bird of 168.6, but reduced to varieties the White Plymouth Rocks did best, with 1,728, and the White Leghorns came next with 170.6, and White Wyandottes next with 180.9.

Upon the conclusion of this contest the Third International Contest began and there are now 10 birds to a pen in place of five, thus giving the breeder a trap nest record for twice as many. Three pens of mongrels have been accepted for entry in order to t. at out the ability of the old speckled hen against pure bred stock. The college has also entered 10 pens for experiments with various feeds and feeding methods. The outside connection which has hitherto prevailed terminated with the second contest, and the third is conducted by the United States Department of Agriculture, through the experiment station at Storrs, and Connecticut College jointly as a purely scientific affair.

Have you sold off all surplus cockerels? They are now unprofitable feeders.



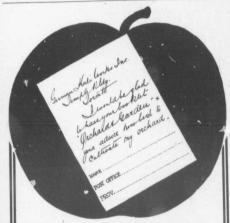
Pens in the International Egg Laying Competition at Storrs, Conn., that Did Honor to the Poulfrymen of Canada and England
The White Wyandottee to the left were bred by McLeed Bros., Wentworth Co., Ont., and tied for tenth place among the 250 pens of all breeds competing. Last year a pen
from the same farm were just two eggs behind the winners. To the right is the pen of Edward Can, Houghton, England, that came second in total production with 1,107
eggs for the five pullets in one year.

DRILLING MACHINES

Over 70 isses and styles for drilling either deep or shallow wells in any kind of soil or rock. Mounted on wheels or on sills with engines or horse powers. Strong, eimple and durable. Any mechanic can operate them easily, Send for catalog. WILLIAMS EROS... ITHEAA. N. V. WILLIAMS BROS.,



CONCRETE SILOS Any size with the London Adjustable Silo Curbs. Send for Catalog. We manufacture a complete line of Concrete Machinery. Tell us your requirements. LONDON Concrete Machinery Coy., Listtled Dept. S. London, Just Largeet Manufachurers of concrete machinery in Canadia.



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The attached coupon makes it convenient for you to send for our "ORCHARD AND GARDEN" booklet. If you will let us know your soil condition, our Scientific Bureau will tell you, without charge, how best to cultivate your own particular orchard.

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Toronto Dairy Test

There were no new public test records made in connection with the dairy was at the National Live Stock Same with the dairy was at the National Live Stock Same without the stock of the same without exception mong all the 50 cows competing production was lower during the three days of the test than before the test began and after it was completed. The fat test of the milk was particularly unsatisfactory. This falling off in the production of the products that bring points and fame was attributed by several experienced contestants to too high a temperature in the stable. Some of the attendants made the mistake of considering a comfortable temperature for themselves most desirable for the cows. There were no new public test

sirable for the cows.

Even under slightly unfavorable conditions, however, the records made were creditable to the respective the breeds and breeders. The high cow breeding class at the National Live was a pure-bred Holstein, Madam B.

as follows: The five highest cows in as follows: The five highest cows in the test were Holsteins, the sixth a Holstein grade (the only grade there). Seventh and eighth places were taken by Ayrahiyas and ninth and tenth again by Holsteins. Full re-sults are given in the table adjoining.

Whatever may be said in criticism of a three-day test as a mark of a cow's ability the dairy test is generally recognized as a more correct in-dex of merit than show ring placings. dex of merit than show ring placings.

Dairy tests are growing in tavor with
dairy cattle breeders. That this first
test at Toronto was so well patronized
is just an additional proof of its popularity. May we have more of the

Ayrshires Out in Force

The Dairy Test at the Ne National Exhibition Lbs. % Total

HOLSTEINS-Cow, 4 Years and Over.	milk.	fat.	points.
1—Madam B 3rd Alma 2nd—W. F. Walker, Manchester, Ont 2—Netherland Schichy—W. J. Biggar & Sons Eric 3—Ladoga Idaline's Veemen—A. E. Hulet, Norwich 4—Queen Noisey—Leussier & Bollett Bright 5—Madam B 3rd Princess De Kol—W. F. Walker	213.3 220.9 197.5 196.5 219	3.5 3.3 3.5 3.4 3	243.34 241.58 227.61 220.3 220.2
Cow, 36 Mos. Under 48 Mos. -Nettie Abbekerk-M. H. Haley, Springford 2-Jeminia Boucheur-A. E. Hulet	166.6 145.5	3.9 3.3	207.2 157.3
Helfer, Under & Mos. -Grac, Golantha Posob-M. H. Haley -Oorea, Falrmonn Horotise-M. H. Italey -Lady Zeella be Kol-Leusler & Bollet 4. Agrle Fortella-M. H. Haley -Grace Fapra of Oxford-M. H. Haley		3.8 2.8 3.9 3.4 3.3	173,7 160.6 151.1 142.8 134.5
JERSEYS—Cow, 36 Mos. and Under 48. 1—Brampton Wonder Beauty—B. H. Bull & Son, Brampton 2—Brampton Csarina—B. H. Bull & Son 3—Brampton Lady Alice—B. H. Bull & Son		4.4 5.3 4.3	156.3 147.4 132.2
Heffer, Under 16 Mos. -Brampton Bright, Lass. B. H. Bull & Son. -Mokenn's Best. I. R. Cowleson & Sons. -McAnnen Bright Kathleen—B. H. Bull & Son. -Brampton Bright Betty.—B. H. Bull & Son. -Brampton Dutcle—B. H. Bull & Son.	101.3	4.7 4.9 4.2 5.8 4	141.5 140.6 136.5 127.4 126
Cow. 48 Mos. and Over. 1—Lida—J. B. Cowieson & Sons	. 83-7	5.6	140.
AYRSHIRES—Cow. 48 Mos. and Over. -Briery 2nd of Springbank—A. 8. Turner & Sons. Byckman' Corners - Greens & Turner & Sons - Brewdron of Monie—Wm. Stewart & Sons. Monie - Clerkind Kate 2nd—Alex. Hume & Co., Menie	185.8 176.5 113.6	3.4 3.7 4.2 3.6	210. 155.
Cow. 36 Mos. and Under 48. 1-White Lass-J. L. Stansell. Straffordville 2-Betsy Brown-A. S. Turner & Sons 3-Dairymaid-N. Dyment. Dundas	. 134.9	4.6 4 3.9	178
Heifers, Under 16 Mos. 1.—Fairy—N. Dyment 1. 2.—Spicy Lass—Alex Harris, Mt. Eigin 4. 4. Whitshill White Rose—A. S Turner & Son 5. 4. Handland Boos—Alex Hume 5.	. 110.6 . 107 . 106.7 . 96.8	4	121.
GRADES. 1-Willis Bros., Pine Grove		2.1	212

3rd Alma 2nd, owned by W. F. Walker. Manchester. Ont. Her production of milk was 213.3 pounds or 71.1
c) exhibitors short of a dozen at the fair
bis. Her milk yield was exceeded by
fat. Her milk yield was exceeded by
Mr. Biggar's cow in second place, but
mer. These figures show how well the
mer. These figures show how well the
Avershire men are natronizing the new tion of mik was 213.3 pounds or 71.1 lbs. a day and her test 3.5 per cent fat. Her milk yield was exceeded by Mr. Biggar's cow in second place, but her high fat content saved her. This win is all the more creditable to Mr. Walker in that it is his first visit to a large show.

a large show.

Briery 2nd of Springbank, wellkniew 2nd overy Ayrahire lover as a
one time world's champion milk and
fat producer, sustained her reputation
by studing at the head of her breed
with the creditable record of 185.8
lbs. of milk or 61.93 lbs. a day testing
3.4 per cent fat. A feature of the
three-year-old class was the fact that
the winner in production was also at

Ayrshire men are patronizing the new

A feature of the Ayrshire class was that many breeders who have become well known as successful breeders of dairy test animals but have never yet been seen in the ring with their catbeen seen in the ring with their catby standing at the head of her breed
with the creditable record of 185.
Ibs. of milk or 61.93 lbs. a day testing
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3.4 per cent fat. A feature of the
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November

This Ayrshire of Clerkland Kate Toronto last we pionship of the

not as nice to at many other however, a mil great proportio uccessfully bee Performance; stuff was from stock. In one winner stood at The special

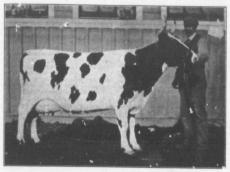
Canadian Ayrsh

tion for cows the entries to b tion and record class. The ba The bas one point added of fat produced entry to R.O.P 100.26; 2nd, St Menie, 98.64; Lass of Trout ment's Lassie Another specia new departure i was for heifers whose dams we Here the award ner, Harris and

NOTA Lessnessock great bull, show class and later



in the Ayrahire m



An Upholder of Ayrshire Laurels at the National Show

This Ayrshire ow will be well known to many Farm and Dairy readers: she is Cierkiand Kate 2nd, the great show cow owned by Alex. Hume, Menie, Ont. At Toronto least week she added to her already long list of honors, the grand chappionship of the Ayrshire female sections.—Photo by an editor of Farm and Dairy.

not as nice to look at as is the case pion. An illustration of this bull apat many other fairs. They were, however, a milky lot throughout, a lill's winning two-year-old had size great proportion of the cows having successfully been tested in Record of in the hind quarters. Hume's well performance suffice when the proposed in the hind quarters when suffice suffice was from Record of Performance advantage as we have seen him stock. In one class, too, a dairy test winner stood at the head of the ring

The special prize offered by the Canadian Ayrshire Breeders' Association for cows with R.O.P. records, the entries to be scored on conformation and records brought out a large tion and records brought out a large class. The basis of Awards was the total of score on conformation and one point added for each ten pounds of fat produced over that required for entry to R.O.P. Turner's Pierey 2nd of Springbank won on a score of 100.26; 2nd, Stewart's Dewdrop of Menie, 98.64; 3rd, Stansell's White Lass of Trout River, 97.4; 4th, Dyment's Lassie of Hillview 2nd, 28.3. Another special that constitutes a new departure in dairy cattle judging was for heliefers under three years old was for heifers under three years old whose dams were entered in R.O.P. Here the awards went to Hume, Tur-ner, Harris and Stewart.

ox

pears elsewhere in this issue. Hamill's winning two-year-old had size, ill's winning two-year-old had size, constitution and was particularly good in the hind quarters. Hume's well-bred bull was not showing to as good advantage as we have seen him. Stewart got first on yearling with but a slight margin over the second and their placings, both of which were the second and their placings, both of which were the second and their placings, both of which were the second and their placings, both of which were him the second and their placings, both of which were the second and their placings, but of which were second and their placings with the second and the

Hume's Clerkland Kate 8nd, well known in many show rings, a big cow and typy, was first cow and grand champion female. She was particularly strong in one point on which several of the others fell short, that is, on substance. It would seem that Ayrshire breeders as a whole would do well to breed for more size in their animals even as they are now doing in Scotland. The three year old heifer was a very typy animal but a trifle small. She had, however the marks of a producer, and ever the marks of a producer, and was also winner in the dairy test. One of the most strongly contested female classes was two-year-old heifers with 11 entries. Mr. Hume won first on size, the animals being a neater,

rece the awards went to runne, tur-norm. Harris and Stewart.

NOTABLE MALES

Lessnessock Forest King, Turner's

great bull, showed up in capital con-dition, and was an easy winner in his

class and later was made grand cham

later was made grand cham

Bull, 2 years old: 1, Hamill-Heien's



Another Old-time Champion on Top

Lessnessock Forest King, A. S. Turner & Son's great bull, was an easy champion in the Ayrshire male sections of the National Live Stock and Dairy Show. Note the character of this bull. Doesn't he look the king all over?

—Photo by an editor of Farm and Dairy.



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Monarch; 2, Hume — White Duke of Springbank; 3, Turner—Neatherton King's Theodore.

springbank; 3, Turner-vessurer cross assistance of the control of

d Oraigrilla; 4, Hamilla About migleside.

Heifer, 2 years; 1, Hume-Spicy Lass; 2, Iarris — Hasel; 3, Turner — Whitehill White Rose; 4, Hume-Humeshaugh Rose.

Heifer, senior yearling; 1, Turner — Whitehill White Bose Srd; 2, Hume-Humeshaugh Kate; 5, Harris-Iwahhoe's dirace; 4, Stewari-Ayrshire Beauty of Marris (1), M

Menie.

Heifer, junior yearling: 1, Harris —
Duchess of Hillcrest; 2, Stewart—White
Heather 3rd; 3, Hume, Humeshaugh Snowdrop; 4, Hamill—White Lady of Craigle

Heifer, senior calf: 1, 2 and 3, Turner-Lady Floss of Springbank, Dorean of Springbank and Dons of Springbank; 4, Stewart, Blue Bell of Menic, the Stewart, Blue Bell of Menic, Heifer, Junior calf: 1, Talenther, and Hume-burn Valenther, and Hume-burn Bello 2nd and Humeshaugh Bello 2nd Box 2nd and Humeshaugh Bello

angn Rose and Administration of the Senior and Grand Champion: Clerkland Kate 2nd. Junior Champion: Whitehill White Rose 3rd. Group Awards
Graded herd: Hume, Turner, Stewart,

Breeders' herd: Turner. Stewart, Hume, Harris.
Best four animals: Dyment, Turner.
Stewart. Harris.

There are three essentials in the building of a poultry house. First and foremost it must be dry; second, it must have abundance of fresh air, without creating a direct drawly without creating a direct drawly over the bird; and third, you must have a fair amount of light.—I W. R. Graham, O.A.C., Guelph.

Poultry at the National

How will it compare with Guelph? is was the Arst question an editor Farm and Dairy was asked after or Farm and Dairy was asked after a visit to the poultry department at the new National Show in Toronto last week. The management of the new fair had started out to make a strong feature of the poultry end of strong feature of the poultry end of their exhibition so, naturally, poultry men wish to knew how they succeed-ed. And that can best be told by a comparison with Guelph, the greatest poultry show on the continent.

The poultry exhibit did not attain to Guelph proportions. It fell as few hundred short. In the estimation of several short. In the estimation of several short. In the case the quality through the highest short of the property of the highest short of Guelph classes. They did, however, make a very good start, and the large Horticultural Building, with its three commodious wings, was well filled. The turkeys and water fowl were narticularly well re The poultry exhibit did not attain was well filled. The turkeys and water fowl were particularly well re presented. The utility fowl were there in greatest numbers, and assections of Ontario were well represented. The showing, however, was not national in character.

A PEN WORTH \$1,000

A pen of white Leghorns that at-tracted much attention were the Aus-tralian bred birds that won first in tralian bred birds that won first in the International Egg Laying Competition conducted by the British Colum-bia Government recently. Mr. F Bradley, who owns these six birds, values them at \$1,000. A good price for 'just hems!'

Perhaps the finest poultry exhibit of an educational character ever be-fore seen in Canada was that staged by the Dominion Department of Agri-tulture, with "A. Brown, B.S.A., in charge. The candling of eggs, a tulture, with in charge. The candling of eggs, a subject much discussed since the produce dealers have adopted the 'loss duce dealers have adopted the 'loss made off" system of payment, was made plain to everyone by a candling demonstration.

"Realty maps" were made to tell more vividly than dry figures ever could just how eggs should be handled For instance, what is an egg circle? A realty map showed a country district dotted with farm homes and an egg dotted with farm nomes and an egy wagon going from house to house collecting eggs and bringing them to the central shipping point. A sample constitution for a circle could be had for the taking.

RIGHT WAY AND WRONG

BIGHT WAY AND WRONG The right and the wrong ways of marketing eggs were similarly illus-trated. To one side was a realty map showing a farm house in the back-ground with a convenient strawstack for "stolen" nests and the develop-ment of bad eggs. At store of the enu-try merchant they are delayed, at the country depot they stand in the sun till the way freight arrives to draw them slowly to the city. There they get more rough handling, go to the wholesaler who pays without regard to quality and then to the retailer who displays them in a hot window anddisplays them in a not window window the result is given in a picture of a child holding his nose with a look of greatest disgust on his face and an open egg on the table before him. "The right way" had the farm

house, the merchant, the railway de-pots, the dealers and the consumers, but all abuses done away with and a happy smile on the face of the con-sumer. The display was well cal-culated to interest first and then edu culated to interest first and then cate. A finishing point and one very gratifying to poultry men showed piles of bright new coppers that looked just as good as gold showing noted just as good as gold showing by the comparative size of the heap the comparative value of the egg crop in Canada as compared with a few staple farm crops: Eggs, \$22.475,000; corn. \$17.510.800; barley, \$14,600.000; fruit \$11.600.000.

HORTIC 2222222222 The Fruit, Flo

November 27

Ontario's Hort emonstrates abo the efficacy of addice. The last s of severe drough Many visitors to which by the way ated with the N Horticultural and pected to see the hibition. But no while it was evide



Fruit, Flows before have products to advants Canadian National idea of how well fru

it had taken mu enough good fru was of good size from blemish. It that in the preview wet weather favor of all fungus disc less only clean fr Horticultural Shov Ontario's Fruit

more and more a Eight years ago or exhibition. Last exhibition. Last entries of 300 box 100 box entries; a show that Ontario to appreciate the package.

People who have that the flower dep ar excelled that show, both in qual transportation bui commodious enougists plenty of roo

Railway Passen **Guelph Wint** GENERA

From stations in Sharbot Lake, Ren not west of Azilda may purchase for single fare (wi for ticket, 25 cent 9th to 11th, 1913, return up to and i JUDGES AND

From all station of and including Ste. Marie, St. Cla ers, on surrender of judges' and exhilt signed by R. W. W. exhibitors and jud minimum charge from December 5th Return limit Dece



HORTICULTURE

The Fruit, Flower and Honey Show

Ontario's Horticultural Exhibition demonstrates above all other things the efficacy of advanced orchard prac-The last season has been one of severe drought and short crops. Thos. Manton and George Bonneu, which by the way has been incorporated with the National Live Stock, florticultural and Dairy Show—exactled in the quality of fruit on exhibits being a decided prefetch in the quality of fruit on exhibits being a decided on the control of the property severe drought and short crops.

exhibits artistically, and they took ad vantage of their opportunity to the full. Chrysanthemums and orchids full. Chrysanthemums and orchuds were especially strong, some of the finest specimens coming from the greenhouses of R. Jennings and the Dale Estate, of Brampton. Many of the chysanthemum blooms were 22 to 25 inches in circumference. Sir Hen-25 inches in circumference. Sir Hen-ry Pellatt was the most successful private exhibitor. Other prominent exhibitors were Wm. Jay & Sons, Thos. Manton and George Bonnett.

the most to make the vegetable show an attractive one were Charles Plun-



Fruit, Flowers and Honey in Abundance and Beautifully Arranged

Never before have Gataric horticulturists had such an opportunity to show their products to advantage as in the Transportation Building on the grounds of the Canadian National Ethibityon last week. The illustration herewith will give an idea of how well fruit grow re, florists and beskeepers made use of their opportunity.

it had taken much picking to get kett & Sons, of Weston, F. C. enough good fruit, what was shown Reeves and James Dandridge of Humwas of good size, coloring, and free ber Bay, W. R. Trott, London, and from blemish. It will be remembered several other growers, most of whom that in the previous year continual are located in or near Toronto.

Eight years ago only 11 boxes were on exhibition. Last week there were two exhibition. Last week there were two entries of 300 boxes each and several 100 box entries; all of which goes to show that Ontario growers are coming to appreciate the merits of the box package.

People who have seen both testify that the flower department of the fair far excelled that of the New York show, both in quality and beauty. The transportation building on the Cana-dian National Exhibition grounds, was commodious enough to give the flor-ists plenty of room to arrange their

Guelph Winter Fair, 1913

JUDGES AND EXHIBITORS

JODGES AND EXHIBITORS
From all stations in Canada, east
of and including Port Arthur, Sault
Ste. Marie, St. Clair and Detroit Rivers, on surrender of standard form of
judges' and exhibitors of critificates,
signed by R. W. Wade, secretary, and
exhibitors and side of the state of the state

agained by R. W. Wade, Secretary, and exhibitors and judges may purchase round trip tickets for single fare (with minimum charge for ticket 25 cents) from December 5th to 12th inclusive. Return limit December 16th, 1913.

was of good size, coloring, was of good size, coloring, was of good size, coloring, was so good size, coloring, wa liquid, comb and sugared state.

THE PEEL EXHIBIT

exhibits were County exhibits were not the strong feature of this show that they have been in previous years, only one county having a special exhibit,—Peel county. This is the first time that Peel county has made an exhibit, and their first exhibit in attention to detail outclassed anything ever seen be-It consisted of a map of Peel county, with every township laid out in apples and potatoes of varying col-or. Every creek of any size in the county was indicated by tinsel paper, every rairoad was there on a minia-Railway Passenger Rates to the every rairoad was there on a mina-ture scale. Even the improved high-ways and hydro-electric lines were worked into the map, while in the cen-tre of the county, at Brampton, were GENERAL PUBLIC From stations in Ontario, Kingston, Sharbot Lake, Renfrew and West, but Sharroot Lake, Kentrew and West, but not west of Azilda, the general pub-lic may purchase round trip tickets for single fare (with minimum charge for ticket, 25 cents) from December 9th to 11th, 1913, inclusive; good to return up to and including December 13th, 1913. the great greenhouses of the Dale Estate, and nearby was a Jersey cow, indicating the location of the home of the Brampton Jerseys. Mr. Tisdale, the district representative, was largely responsible for this attractive ex-

The Northumberland and Durham Fruit Growers' Association and Hal-ton county each had an exhibit of 300 boxes of apples, the first Spys, the latter Baldwins. The Spys were of somewhat better quality and likewise somewhat better quality and inkewise a trifle better packed, although the difference was not great. These Spys were purchased by the Robert Simpson Co., of Toronto, for \$2.50 a box. So good was the packing that there was exactly 100 apples of almost uni-

(Concluded on page 12)



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THE EDUCATIONAL PROBLEM

The chief business of a commonwealth is education. It is education that lifts man above the level of the savage. It is education that gives us the advantages of modern civilization and teaches us how to enjoy them. Lack of education is a most serious handicap to a man in life, be his interest in the farm, or the varied industries of the cities. The education that our children are receiving is therefore a question of first interest to every parent and one of the greatest problems of the nation.

The city father or mother has little of which to complain in so far as the education of children is concerned. The City Fathers everywhere attest their interest in education by the liberal financial provision that they make for educational purposes. Can we farmers feel as well satisfied with the educational provision made for our children?

Dairy last week are altogether too common. They are almost the rule.

The forlorn, battered school house, with its entire absence of anything bordering on the attractive, and its poorly equipped interior, is just the type of building in which most of us received our education, even as our children now are receiving them. Rural education has not made the progress that it should.

Farm and Dairy intends to find out why. With the help of "Our Folks" we intend to bring strongly to public attention the great need of rural educational reform. We would like to have every one of "Our Folks" read carefully Mr. Lees articles. would like still better to have letters from "Our Folks" giving their own

opinions on conditions, notes on the educational facilities of their own districts and suggestions for improvement. Let us hear from you. Let us make this a discussion worth while, one that will lead to substantial results

A GREAT FARMERS' COMPANY

How many of our folks are aware that the biggest grain handling company in Canada is owned and operated by farmers? Few enterprises in the history of Canada have had such wonderful growth as the Grain Growers Grain Company of the Canadian West. This farmers' organization started in 1907 with small capital and few members and that year declared profits of \$790. This year the company has declared a profit of \$170,000, and that after paying off a loss of \$30,000 on the operation of the Manitoba Government elevators. As the paid-up capital of the company is now \$645,000 the profit represents more than twenty-five per cent. Over 14,-000 farm shareholders throughout the three prairie provinces shared in the dividend of ten per cent, that was paid.

Still more astonishing and gratifying is the success of this farmers' business venture when we consider the volume of business transacted, which totaled over \$50,000,000. This trade makes the Grain Growers Grain Company the largest grain organization doing business in Canada and makes it the strongest farmers' commercial organization on the American

The company has now taken on new responsibilities. Since their last meeting they have taken over the entire output of 150 barrels a day of a small Manitoba flour mill, and the venture has proved successful from Through the prices at the start. which they have offered their flour, competitors have been forced to reduce quotations to the farmers. The company has been operating the C. P. R terminal elevator at Fort William for the past year very successfully. And now it is announced that the company will operate their own sawmills in their own timber tracts in British Columbia to supply their members with cheap lumber.

pany is only seven years old the story base their practice on the knowledge

We fear not. The conditions de- of its development reads more like scribed by Mr. Lees in Farm and fiction than fact. From the first the Grain Growers Grain Company has had the bitter opposition of the railway companies, the line elevator companies and the members of the Winnipeg Grain Exchange, but it has triumphed over all. Surely the success of this company is a great tribute to the business ability of Western farmers.

THE LABOR INCOME

The biggest item in the farm imcome is that which the farmer receives for his own labor. Other sources are interest on investment, the profit of hired labor, and not infrequently the income due to the woman's work in the poultry yard and dairy. But with most of us who work our farms and do much of the work ourselves, our own efforts must count for a large part of the income.

The man in the city never questions the importance of his labor income. In most cases it is his only income, and for 12 months in the year, with the possible exception of a couple of weeks of holidays, he is at his place in office, store or factory. More of us farmers, however, are not so seized of the importance of utilizing our time to the very best advantage.

Here is an incident to illustrate: A farmer in that well-known county of Oxford recently remarked to an editor of Farm and Dairy that he was now going to "take a rest for the winter." He had so arranged his work that in addition to attending to his crops all of the cows freshened in the spring and were practically dry by fall.

Many farmers share the idea that the man who works hard all summer should rest all winter. But does not this winter rest merely spoil a man for the strenuous work next spring? In addition, he loses the profits that he might get on five months of labor. In other words, his labor income is reduced to that extent.

On the dairy farm, at any rate, the proprietor has an opportunity to derive a remunerative labor income for the full twelve months. Oxford county friend would attend to his crops in summer and strange to have his cows freshen all, he would be to the good of five months' wages each year

WILL IT HAPPEN AGAIN?

Many sections of Eastern Canada were hard hit by drought last summer. In not a few sections the rainfall was as little as is characteristic of the so-called dry farming sections of the Western States. Western farmers, however, always expect short rainfall and are ready for it. Our farmers did not make any special preparations for carrying their crops through a dry season and suffered accordingly.

Whether or not we will be again caught unprepared depends on our gs with cheap lumber.

willingness to adopt dry farming
When we consider that this com- methods in the East. "Dry farmers"

The Breeder's Reward

The Breeder's Reward

FRIEND or ours who owns a
high-slass automobile tells us
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that the major portion of the moisture that goes to mature the crop reaches the earth in the rains of late fall and early spring, and in the snows of winter. They know that the moisture that crops receive through the rainfall of the growing period is so small as to make no appreciable difference in their growth. They govern their practice accordingly. By means of fall plowing and thorough and consistent cultivation all through the following season they conserve moisture in the soil for the feeding of their crops.

It may be that in British Columbia and the Maritime Provinces dry farming methods are seldom needed. In Ontario and Quebec dry farming conditions occur more frequently. In every part of Canada, however, farm crops and the farm income will be benefited by more thorough cultivas. tion for the retention of soil moisture. Will the drought catch us again?

It is up to us.

Two thousand people is a big crowd when you get them altogether in one place at one time; but this was the size of the gathering

New Interest in at a plowing match Plowing Matches held in York Co., recently. A few days

later fully 1,000 people witnessed the provincial plowing match; and it was a bitterly cold day. We have been told that the introduction of the sulky and gang plow have made plowing less of a fine art than it was in the years gone by. When such crowds as these gather together, however, it is evident that interest in fine plowing is not yet dead. A similar interest has characterized all plowing matches throughout Ontario, all of which bode well for many more successful Plowing Matches. And let us give credi where credit is due. This interest is plowing is due in no small measure to the good work of the Ontario Plow men's Association, who realize that good plowing is almost sure to be ac companied by good farming. If we try to do one job well it is always at encouragement to do other jobs equal ly well.

> No good dairyman has both go and bad cows in his herd. He know where the good ones are and di penses with the poor ones.

Novemb

Federal Editor, Fa swer your title, "Is Fe the negative.

Do You Did you e

ment for a task? Many particular their adverti Dairy. what to say order to get course one of the stock sh mate knowl worth the el How would

ad, for a w mon, ordinar day wheelbar a young ad may be sure and thought. write anythin attractive above to wo yourself if he here is how h "It is not

didn't have s barrow. We two stringers and a man i end. But one a man and suggested tha the handles place of the arose our mo And then h virtues of the

Did he mal simply told a -so common ested. That's just

sending your and Dairy of have for sale. give the plair appeal to you mal just wha know if you Tell it just

ing to your this). You wi way and be tion for futu sparkles with with glorified is rapidly pa sounding ad-mand our con is popular tobriefly as cleapermit.

Then, too, y is found in a and every adv spect and con tisement is ke in which it is "Farm and

ing medium, ne fidence of its that reaches a and can afford select dairy ca recognized exp Canada to lea of the high-cla

" A Paper P.

Federal Aid for Highways

Editor, Farm and Dairy,-You a swer your own article bearing the title, "Is Federal Aid Advisable?" in the negative. I fail to see any good

AD. TALK

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Do You Find it Difficult?

Did you ever write an advertisement for a paper? Was it a hard task? Many of "Our People" find it particularly difficult to write up their advertisements for Farm and Dairy. They scarcely know just what to say or just how to say it in order to get the best results. Of course one of our Editors could do this for them, but the man who owns the stock should have a more intimate knowledge of his animals. Then, too, the business training is Then, too, the business training is worth the effort of fixing up one's own advertisements.

own advertisements.

How would you like to write up an ad. for a wheelbarrow—just a common, ordinary, unintending, veryday wheelbarrow. That was a young advertising manager as young advertising manager as young advertising manager with the set as his first work. You may be sure he scratched his head and thought. You see it is difficult to write anything very interesting and attractive about a wheelbarrow. But he set to work. You can decide for yourself if he made it interesting for here is how he wrote it:

here is how he wrote it:

"It is not so long ago that we didn't have such a thing as a wheel-barrow. We simply had a barrow—two stringers, a box in the centre and a man in the handles at either and a man in the hardes at enter end. But one day they were short of a man and a genius of a workman suggested that he pus in a wheel in the handles of one end to take the place of the absent man. And so arose our modern wheel-barrow."

And then he went on to tell of the virtues of the wheelbarrow his firm

ufactured. manufactured.

Did he make it interesting? He simply told a few simple, plain facts —so common that people were inter-

That's just what you should do in sending your advertisement to Farm and Dairy of the surplus stock you have for sale. Don't try to make it "look like an advertisement." Just

"look like an advertisement." Just give the plain, simple facts as they appeal to you. Tell about your animal just what you would like to know if you were the buyer. Tell it just as you would in speaking to your customer—be natural and stick to the facts (make sure of this). You will find it will pave the this). You will find it will pave the way and be a strong recommendation for future sales if your adsparkles with simple truth and not with glorified exaggeration. The day is rapidly passing when the high-sounding advertisement can command our confidence. The kind that is popular to-day are those that convey the simple pointed truth as briefly as clearness of meaning will permit. permit.

Then, too, your advertisement will carry greater weight to readers if it is found in a medium in which each and every advertisment has your re-spect and confidence, for any advertisement is known by the company

tisement is known by the company in which it is placed.
"Farm and Dairy," as an advertising medium, not only enjoys the confidence of its readers and the esteem fidence of its readers and the estem of its advertisers, but it is a medium that reaches a people who appreciate and can afford to buy the kind of select dairy cattle you have for sale—who look to our columns as the recognized exponent of dairying in Canada to learn of the wherabouts of the high-class stock they wish to secure.

"A Paper Farmers Swear By"

ground for reaching this conclusion. Arguing from precedents the case for federal aid for provincial roads is a strong one.

strong one.

Why should not a Federal Government that spends \$5,000,000 on the Trent Valley Canalor votes a million dollars for the Normarket Canal, both of which works in have as good a right to set aside a sun of province of Ontario, have as good a right to set aside a sun of provincial highways? The same argument could be used justly in the color for federal grants to provincial and the provincial highways? ment could be used justify in the case of federal grants to provincial rail-ways or railways built by private corporations lying entirely within the bounds of a province.

Two reasons come to my mind as

strong arguments for federal aid to our public roads:

MILITARY MONEY FOR ROADS

MILITARY MONEY FOR ROADS

FIRST—Large grants are made every
year, running into the millions, for
military works and Militia purposes.
A portion of the money thus voice,
following the practice in European
countries, could not be used for bater purposes than the construction and maintenance of such leading roads as might be considered mili-

roads as might be considered mili-tary highways.

I am not advancing the opinion that it is necessary for Canada to spend large sums annually in matters of defence, but as that seems to be the settled policy of both parties in the Federal Government, then a part of these grants might well be used in the making of military highways. In the transport of armies and their sup-nlies the motor wehicle has come into plies the motor vehicle has come into general use. What is most impor-tant then is to see that roads are so constructed that in the eyent of havthe year the highways could be used for this purpose.

A PLACE FOR CUSTOMS REVENUE
Second—The Federal Government
are now in receipt of large sums of money collected as duties on motor money collected as duties on motor cars, accessories, gasoline, and so forth. Is it fair that they should re-ceive the entire benefit from this source of revenue, and look to the farmer to keep up the roads over which these motor cars travel? The British Government have recognized british Government have recognized the unfairness of this position and have in consequence appointed a highway commission, and annually hand over to the board the entire sum collected for motor car taxes and the revenue derived from gasoline and petrol. The moneys thus given are to be used in the constituent parts of to be used in the constituent parts of the Kingdom, or what we would call provinces, for the construction and maintenance of the public highways. The revenue made available to the commission from these sources commission from these sour amounts to \$3,000,000 per annum.

amounts to \$3,000,000 per annum.

In the county of Peel many thousands of dollars have been spent in recent years from moneys contributed by the province, the county, and the townships in constructing high-ways, but no provision has been made for their maintenance, the farmers knowing that the rapid deterioration of these roads is due in a great meaof these roads is due in a great measure to the heavy motor traffic passing over them, and feel that they should not be called upon to bear the full brunt of maintenance, so properly look to the two parties deriving large revenues from the importation of automobiles, motor supplies, and the tax on cars—viz., the Federal and Provincial Governments—to come to their aid.—L. A. Hamilton, Peel Co., Ont.

Farm and Dairy readers who have not yet secured Prof. Grisdale's new bulletin on 'Milk Production in Can-ada," would do well to secure it. It gives complete information on crop rotations, dairy barns, breeding dairy stattle and facilities. cattle, and feeding, care and management of milch cows. In short, it is an encyclopædia of information for the dairy farmer.

CREAM SEPARATORS

SKIM CLEANEST TURN EASIEST ARE SIMPLEST MOST SANITARY LAST LONGEST

De Laval Dairy Supply Co., Ltd. Montreal Peterboro Winnipeg



DON'T DECIDE

On Your Sleigh until you get our Pocket Cata-logue No. 23, and then you will sav "Skidoo" to all other prices and sleighs, for we sell direct GIDLEY CARRIAGE CO.

Sales Dept. D PENETANG, ONT.

THIRTIETH ANNUAL

Ontario Provincial Winter Fair

GUELPH, Dec. 9th to 12th, 1913

The Greatest Educational Fair in Canada

Horses, Beef Cattle, Dairy Cattle, Sheep, Swine, Poultry, Seeds. Educational Exhibits. Practical Lectures by Experts.

Single Fare on all Railways

WM. McNEIL, President London, Ont. R. W. WADE, Secretary

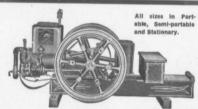
Parliament Buildings, Toronto



Lump Rock Salt, \$10 for ton lots, f.o.b. Torento Torento Salt Works, 128 Adelaide St. E G. J. CLIFF. Manager Toronto, ont

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

FOR SALE—Iron Pipe, Pulleys, Beiting, Rails, Ohain, Wire Fencing, Iron Posts, etc., all sizes, very cheap. Send for itst, stating what you want.—The Imperial Waste and Metal Oc., Dept. F. D., Queen Street, Montreal.



Smooth, Steady Running

is a strong feature of this engine. The parts are as perfectly balanced as a clock, so that even under a heavy load, the



gasoline engine does not jump or crawl around. It needs no fastening down. This perfection of balance also reduces wear to the minimum. You will get many years of long, hard service out of the Renfrew Standard. And you'll like it,

too, because it is so very easy to start. No cranking required. A little push on the wheel and away she goes. But to learn full particulars send for our Bulletin. This is the latest and best type of gasoline engine for sale in Canada.

The Renfrew Machinery Co., Limited

Head Office and Works : RENFREW, ONT. Sales Branches at SUSSEX, N.B., SASKATOON, Sask., CALGARY, Alta. Agencies Almost Everywhere in Canada

John Hallam

HALLAM'S TRAPPERS GUIDE

address JOHN HALLAM, Limited Mail Dept. 309 TORONTO

DISTRICT DAIRY MEETINGS, 1913

County. Place for meeting. Date escott-Vankleek Hill Prescott—Vankleek Hill Glengarry—Alexandria Stormont—Wales Grenville—Kempville Dundas—S. Mountain Lanark—Bmith's Falls

Lanark—Smith's Falls . Leedos—Eigin . Lennox—Napanee Frontenae—Hartington Hastings .S.—Bellwillis Prince Edward—Picton Hastings .N.—Stirling . Northum'ld—Camph'ford Patarboro—Norwood Peterboro-Norwood Victoria-Lindsay



All "ARLINGTON COLLARS" are good, but our CHALLENGE BRAND is the best

Send your Raw WINDSOR

Windsor Dairy Salt dissolves evenly and gives a delicious flavor to the butter.

Practically every big prize at the big fairs was won by Butter made with Windsor Table Salt.

EGGS, BUTTER and POULTRY

For best results, ship your live Poultry to us also your Dressed Poultry, Fresh Dairy Butter and New Laid Eggs. Egg cases and poultry crates supplied. Prompt Returns.

The DAVIES Co. TORONTO, ONT. Established 1854

CREAM WANTED

Ottawa is one of the best markets for butter in Ontario. That is why we are able to offer such attractive prices for cream. Cheese factory patrons who have a supply of cream at this season or the

We supply cans, pay express charges, remit for cream twice monthly. Cream taken from any express office within 150 miles of Ottawa. year should write us.

For particulars write to

Ottawa Creamery Co., Ltd., Ottawa, Ont. 319 SPARKS ST.

SHIP US YOUR CREAM

Supply Cans and Pay All Express Charg within a radius of 100 miles of Berlin. Send a Statement of Each Shipment. Pay Every Two Weeks.

WRITEJFOR FULLI PARTICULARS

THE BERLIN CREAMERY CO.

BERLIN, CANADA

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ls Orchard Planning Being Overdone in Untario?

(Continued from page 3)

second address on "Apple Scab." He called attention to the susceptibility of Snow and McIntosh, and pointed out that bienneim, Duchess, and tolden Kusset were rarely attacked. As a general rule the worst attacks of scab can be warded on by proper

scab can be warded on or personal suppaying.

Inis address will be given in full in a luture issue of Farm and Daity.

HANDLING WITH GLOVES

A. V. STUDENTAUGH OF the United States Department of Agriculture, was stated to give an address on "Free-cooning of Fruit," but failed to turn up. 1119 paper, nowever, was read by MIT. R. R. Granam of the U.A.C. water pointed out that pre-cooling the personal states of th the writer pointed out that pre-cooling, while of itself an important measure for the conservation of fruit in good condition, was only most valuapie when it went nand in hand with care in picking and packing the truit. Pre-cooling, he defined as the rapid reduction in temperature of fruit imreduction in temperature of run am-mediately after picking and before supply As an example of now carefully fruit may be nandled, Mr. Studenrauch made mention of practice of some western growers wearing soit gloves when handling their apples.

An intensely practical and interest-An intensely practical and interesting address was that of K. S. Duncan, B.S.A., who told of the work that the Department of Agriculture is doing on five demonstration orchards in Northumberland and Durham counties. Mr. Duncan described in detail the methods adopted for the regenera-tion of these old orchards and then compared profits both before and atter the trees came into the hands of the Department. On a 21/2 acre orthe Department. On a 2½ acre of-chard on light, sandy soil, receipts for the three years had been \$300, \$200 and \$100. In the succeed-ing three years receipts from the same orchard were \$750.00, \$489.00, and \$485.58. The percentage of No. 1 ap-plies had heen increased from 30 to 30. ples had been increased from 30 to 60 per cent, to 80.5 to 87.6 per cent, and so on through all of the orchards. Good pruning, cultivation and fertilization had greatly increased the pro-

Mr. F. M. Clement described the plum industry as a hit and miss business, but gave it as his belief that it the proper varieties were planted good profits could be made from the pium orchaid. Mrs. L. A. Hamilton, of Lorne Park, told of how she had solvhelp at ed the problem of help at picking time. Mr. S. C. Parker of Berwick, N.S., told of the organization and the N.S., told of the organization and the success of the great cooperative marketing society of the Nova Scotia fruit prowers. Prof. Crow, who took the place of Mr. W. H. Bunting in a discussion of "Strawberry Culture," strongly advised overhead irrigation. All of these adresses will be given more fully in future issues of Farm and Dairy. and Dairy. LTHE RESOLUTIONS

The convention this year was rather bare of business and the resolutions comparatively unimportant, the only ones of a business character being those dealing with the transportation problem already referred to. tion problem already referred to. here from business matters the members united in their expression of sympathy for Mr. McNeil, of the Fruit Division, who has been seriously ill for some months, and in their earnest hopes for his rapid recovery.

DIRECTOR SELECTED

The financial statement showed total receipts of \$5,533.90, with a balance on had of \$1,574.45. Directors were elected for the following year as followed, by the statement of DIRECTORS ELECTED

Schuyler; D. Grant; J. Mallough; C. W. Gurney, Paris; and W. J. Saunders, East Lyane. Prof. J. W. Crownoniunes to represent the Ontario Agricultural College.

At the close of the second day Hon. Martin Burrell, Minister of Agriculture, visited the convention and congratulated them on the progress they were making as evidenced by the fruit. gratulated them on the progress they were making as evidenced by the fruit on exhibition at the Horticultural Show. Mr. J. A. Ruddick, who was also present, asked that representatives be appointed to the Fourth Dominion Fruit Conference, which it is proposed to hold during the summer in one of the fruit districts. The following the summer was appointed to the state of the fruit districts. lowing representatives were appointed: F. S. Wallbridge, Belleville; Walter Dempsey, Trenton; G. W. Grier edi F. S. Walbridge, Bellevulie; Wai-ter Dempsey, Trenton; G. W. Grier-son, Oshawa; A. Onslow, Niagara-on-the-Lake; C. W. Gurney, Paris; E. E. Kimmins, Winona; A. W. Peart, Burlington; D. Johnson, Forest, and Robert Thompson, St. Catharines.

The Fruit, Flower and Honey Show

(Continued from page 9) form size in every box. Another exhibit that attracted much attention was a collection of 225 boxes of McIntosh apples, packed by the St. Lawrence Valley Fruit Growers' Association. Some of the fruit, however, the state of shape and a few of the fruit, because did not show the partial state of the state of t a collection of 225 boxes of Mc-

A RESULT OF CULTURE

A RESULT OF TOLEMEN.

An exhibit of special educational value was £.* made from the demonstration orcha?*s of Northumberland and Durham counties. These apples, all of splendid quality from the standpoint of size, color and freedom from blemishes, were grown on orchards that until three years ago were entirely neglected, producing as low as 30 per cent. of No. 1 fruit. The transformation has been effected by proper pruning and spraying, fertilization and cultivation.

In the single box entries there was

In the single box entries there was much evidence that education is still much evidence that education is still needed in packing. In single boxes of Spys for instance the very best apples exhibited had to go down to last place because the box was only two-hirds full. The same exhibitor made the same mistake in other classes as well. Perhaps the most common miswell. Perhaps the most common mis-take of all was in having the boxes just slightly low. Fruit packed in such a manner lacks bilge, does not carry well and does not present so desirable an appearance. Prominent among the exhibitors in the box sec-tions were the Northumberland and among the exhibitors in the box sec-tions were the Northumberland and Durham Fruit Growers' Association, W. L. Hamilton, Collingwood, R. C. W. L. Hamilton, Collingwood, R. C. Ferguson, Thornbury, Oakville Fruit Growers' Association, Henry C. Bohn, Orono, W. H. Bunting, St. Catharines, P. C. Dempsey, Trenton, Brant Fruit Growers' Association, and several others too numerous to mention.

Barrels formed a comparation mention.

eral others too numerous to mention.

Barrels formed a comparatively unimportant part of the apple exhibit, their number not reaching half a hundred. All standard varieties, however, were well represented in the barrel packs, the same exhibitors being prominent as were successful with

the box pack.
Tender fruits due to the lateness of season, were necessarily a limited ibit. The territory that they repexhibit. The territory that they represented, however, seemed to be unnecessarily limited, practically all coming from the St. Catharines district. There are many other districts of Ontario that can grow just as choice from the strength of the strength o particularly in pears, and an effort should be made to have these districts represented at the provincial fair.

November 2

Holsteins Mak

Thirty-three ye cords say, there statement is not is very nearly have changed. of our most population white fanciers sa Just how breed. Just how ous they now ar from the fact t widely distant c compete for hono Show in Toronto eral classes the e over a dozen, as had his hands ful Holsteins presentation of

The quality wa to be an advance Canadian Nation higher uniformity ticularly marked. too often charac classes, and parti not in evidence animals were ver they were quality same, and with have stood much classes in particu advance on those mer. Of course that should not he HERDS R

along, some of w been seen in Toro Among the larges to fair goers, wer wich, M. H. Ha H. M. Pellatt, Sunnybrook Farr Elias Snyder, Bu the several new the longest string string. In only they left out of they left out of they bear Dundas game, captured championship. The pionship also fell Mr. Wm. Watson ler and Bollert, B ning and Sons, V ning and Sons, V large and credita Dennis, Newmark It bodes w the breed to see coming along.

INDIVIDITA would like of individuals the difficult to spe standing." The one to have a w favor. The aged out a fine first in sen, a low down, bred by Hulet, a City Dairy Farm. responsible fo steins, can certai

The two-year-old hampion male went type. Like t ength with depth but he was a tr ground, and very up. He took through and well position. He is herd of Wm. Wa esented a proble first three vote final decision
Sir Belle Faye
M. H. Haley. advantage more fitting advantage ing that he was
Haleys feed wel
Leuszler and Boll
champion in class First place in

Holsteins Make Great Showing a dry cow, a very deep bodied animal

Thirty-three years ago, so the records say, there was not a Holstein in the Province of Ontario. If this statement is not absolutely accurate it is very nearly so. How things have changed. Holsteins are now one of our most popular breeds; black and white fanciers say the most popular breed. Just how popular and numerous they now are may be gathered from the fact that 13 herds widely distant counties gathered to compete for honors at the Live Stock Show in Toronto last week. In several classes the entries numbered well over a dozen, and Judge Geo. Rice had his hands full in picking the winners. Holstein had the largest representation of any of the dairy breeds. Just how popular and numer

The quality was generally conceded to be an advance on the entries at the Canadian National last summer. The higher uniformity of quality was particularly marked. The "ragged ends" too often characteristic of Holstein classes, and particularly moticeable in some of the classes last summer, were not in evidence last week. A few animals were very poorly fitted, but they were quality animals just the same and much consistent of the properties of the same and much consistent of the properties of t

HERDS REPRESENTED
Many of the old time breeders were Many of the old time breeders were along, some of whose herds have not been seen in Toronto for several years. Among the largest exhibitors, known been seen in Toronto for several years.
Among the largest exhibitors, known
to fair goors, were A. E. Hulet, Norwich, M. H. Haley, Springford, Sir
H. M. Pellatt, Walmer Road Hill.
Sunnybrook Farm, Egifsiton, and
Elias Snyder, Burgesaville, Among
the several new exhibitors the City
Dairy Farm, New Lawell, Ont, had
the several new exhibitors the City
Dairy Farm, New Lawell, Ont, had
the several new exhibitors to the content of the money. Hiram
Dyment, Dundas, also now to the
game, captured the female grand championship also fell to a new exhibitor,
Mr. Wm. Walson, Pine Grove. Leussler and Bollert, Bright and Wm. Manning and Sons. Woodville, both had
large and creditable exhibits. Edgar
Dennis, Newmarket, had some good
cows. It bodes well for the future of
the breed to see soo man new men the breed to see so many new men coming along.

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coming along.

We would like to speak extensively
of individuals that attracted particular attention, but space forbids. It
is difficult to speak of any as "outstanding." There were too many
very high class animals there for any
every high class animals there for any
to the complex of t favor. The aged bull class brought out a fine first in Lord Cornelius Tensen, a low down, flashy type of bull bred by Hulet, and exhibited by the City Dairy Farm. Mr Kitchen, who is responsible for City Dairy Holsteins, can certainly pick the good

The two-year-old winner and grand champion male was of a little different type. Like the older bull he had ent type. Like the older bull he had length with depth and constitution, but he was a trifle further off the ground, and very stylish in his get up. He took the breeder right through and well earned his premer position. He is at the head of the berd of Wm. Watson. Yearly bulls presented a problem to the judge. The first three were very uniform. The final decision was given in favor of Sir Belle Fayne, bred and owned by M. H. Haley. This bull had a little advantage in substance, and with more fitting would show to even greater advantage. This is not 8aywith more fitting would show to even greater advantage. This is not say-ing that he was in poor condition; Haleys feed well the pear round. Leuzsler and Bollert had the junior ehampion in classy company. First place in females was won by

a dry cow, a very deep bodied anima; with well sprung rib, constitution and indications of doing big things when she freshers. The illustration appearing elsewhere in this issue describes her more accurately than we can. She was shown by Hiram Dyment, Dundas.

Mature cows in milk brought out a string of nine, as good cows as were ever seen in one section at Toronto. Hulet got first and several might have gone up and no great mistake made.

The City Dairy entry looked milkier, but was a trifet thin and inclined to droop at the rump. A feature of the three-year class was that the winner, one of Haley's, was also first in her class in the desire in the desire.

one of Haley's, was also first in her class in the dairy test.

Our Holstein friends will pardon a little criticism. Evidently Holstein nen have no definite and fixed ideal of type. Even the best classes presented great diversity of type. Here is one point, from the show yard standpoint at least, where the breed could stand improvement. Beauty counts when an animal is sold, in some cases almost as much as preduction. cases almost as much as production and uniform conformation, commer-cially speaking, is therefore desirable.

AWARDS-BULL CLASSES

Bull, 3 years and over; 1 and 5. City Dairy Farm-Lord Cornelius Tensen and Dutchland Colauth Bir Abbecker; 3. Biles Dutchland Colauth Bir Abbecker; 3. Biles Calamity Paul; 4. Wm. Mannine & Sons—Sumerbill Sir Madda.

William Mannine & Sons—Sumerbill Sir Madda.

Hust—Major Posch Mercens; 3. Leungler & Buller—King Lyons Hengerveld; 4. M. Haber—Stratund Colauthand Prince Canany; 2. A. E. Hust—Major Posch Mercens; 3. Leungler & Buller—King Lyons Hengerveld; 4. M. Haber—Stratund on Page 199

(Continued on page 19)

New National Live Stock and Dairy Show off to Good Start (Continued from page 2)

fairs. At winter fairs in the past male animals have been prohibited. Consequently with flocks centralized at Toronto and all classes represented the sheep exhibit was a very superior one. Long and short wooled breeds were about equally represented. In one. Long and short wooled breeds were about equally represented. In Cotswolds honors were contested by E. F. Park, Burford; E. Brien & Sons, Ridgetown, and S. Dolson & Son, Norval Stn. Leicesters were exhibited by H. M. Robinson, Erindale, David Rodger, Drumbor. A. and W. Whitelaw, Guelph, and J. Kelly, Shakespeare, J. and D. J. Campbells, and J. G. W. Grand, C. W. Gurney, Paris, had Shrop-shires. P. Arkell & Sons, Teeswater, were the principal exhibitors of Oxfords, and in Southdowns the flocks of J. W. Springstead & Son, Abbingdon, Robert McEwen, Byton and J. J. Lloyd lones, Burford, were referenced. don, Robert McEwen, Byton and J. J. Lloyd Jones, Burford, were represented. W. E. Wright & Sons, Glanworth, J. Robertson & Sons, Milton and Forster Farm, Oakwood, were on hand with their Dorsets. Other breeds represented were Lincolns, Hammshires and Sufficient Hampshires and Suffolks.

In the swine divisions In the swine divisions Joseph Featherston & Sons, Streetsville, and J. E. Brethour & Nephew, Burford, had the largest showing of Yorkshires. In Berkshires, S. Dolson & Sons, W. W. Brownridge, Georgetown and E. Brien & Sons, Ridgetown, were most successful. D. Douglas, Mitchell, had almost a monopoly on Tamworth classes, while in Chester Whites, W. E. Wright & Son, Glanworth, and D. DeCourcy, Bornholme, divided most of the money.

The management of the National

The management of the National Live Stock and Dairy Show are to be congratulated on their success in gathering together such a splendid exhibition of live stock. With the im-proved accommodations, which it is already reported will be provided be-fore the next Canadian National Ex-hibition, the fair should appeal strongly to the fair-going public. The fact that the Horticultural Show is held in connection will also add to the attrac-tiveness of Canada's new national



THE CHOICEST SUGAR

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Made from choice selected cane sugar, by the most modern and perfect machinery, it is now offered in three different sizes of grain— each one the choicest quality.

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ydruggists at \$1 a bottle,6 for \$5, and fall's willcure. Thousands of farmers horsemen will say so. Our book atise on the horse'' free.

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FOR SALE OR EXCHANGE — A 6 H.P. Second-Hand Gasoline Engine, in good running order. Will take pure bred stock or hay. Write to Walter Payne, Bluebell View Farm, Lake Edward, N.B.

STOP-IHINK-200 Acres—in good cultiva-tion; no waste land; free gas and \$175 rental therefrom; good buildings; school and post office adjoining farm; tele-phone; plenty of water; at \$45 per acre. Apply to Box 642, Farm and Dairy, Peterboro. Ont.

FARM MANAGER wants position on large farm or ranch on salary and share. Graduate of Agricultural College. Life experience in managing large estate. Thoroughly understands business man-agement, organization mixed farming, stock radius, truck farming and frait growing. Al references. Apply Farm and Dalry. Box 251. Peterboro. Ont.

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EVERY home should be a lighthouse to help strugglers outside, but the lamps should not wear shields reflecting the light away from the family.

Women's Institute Convention a Record Breaker

stitutes all over Canada came together at our twelfth annual convention held in the Canadian Foresters' Hall, Toronto, on Thursday and Friday of last week. The hall, which has seating capacity for 750 people, was taxed to its utmost capacity at every session on Thursday, and splendid attendance marked the Friday sessions as well. Mr. George A. Putnam, our superinmarked the Friday sessions as well.
Mr. George A. Putnam, our superintendent, called it the largest and most representative gathering of our Women's Institute yet seen in convention. Surely an incentive for us to do even

better next year!

Just how well the branches were rejust how well the branches were re-presented was indicated when, after opening exercises, Mr. Putnam asked opening exercises, Mi. a give reports all delegates who were to give reports from the different branches to take seats on the platform. It was necessary for him to send out the warning cry "Enough!" before all could se-

cure seats.
Mrs. Wm. Bacon, Orillia, was pre-Mrs. Wm. Bacon, Orillia, was presiding officer at the morning session.
The greater part of the morning session.
The greater part of the morning atsession and sevening, was divided to
the hearing of reports. Lack of space
does not permit of my dealing with
these splendid reports saa in a very
cutrailed manner. In every instance
successful work was reported and
many plans for future work were ensuccessful work was reported and many plans for future work were en-morated. A great many ideas were thrown out as to ways of raising funds. Here are a few of them: Pic-nics, socials, bazaars, taking up sub-scriptions, having tag day at the time of the county fair (and this seemed to have been most successful where it been most successful where had been tried out, one institute hav-ing raised \$651.74), autograph quilts, and fowl suppers, to which members only were admitted and asked to bring a friend, thus securing new mem-

It was an easily appreciated fact It was an easily appreciated tact that funds were a very necessary part of the organization, when we heard the good that was being accomplish-ed by the competent use of the finan-ces. Some Institutes have built rearooms in their town or village. have improved the cemetery grounds, have improved the cemetery grounds, planted trees and made flower beds in school grounds, bought land to be used as c park, and built sidewalk. Still others are helping to support a hospital. Much more commendable

Much more commendable work is being done.
Mrs. Dir. Wilson, Parkhill, and Dr. W. E. Struthers, Toronto, dealt with "Medical Inspection of Rural Schools." This inspection has been tried in North Middlesex, and it is surprising and alarming to learn that 30 per cent. of the children in our schools require medical and dental attention of iome sort. Dr. Struthers spoke of the advance being made in education. We realize, said he, that in the changed conditions of the world a child needs to know something more

A resolution was then drawn to the A resolution was then drawn to the effect that medical and dental inspection of rural schools be established at once, which was signed by the dele-

gates present.

A feature of the Women's Institute

to, told us that while she had been to, told us that while she had been warned not to talk as time did not permit, she expressed the hope that on every programme of the Institute's for the ensuing year would something to help the boys and girls. The senting ment running through the whole convention was the great responsibilconvention was the great responsibility that is ours in caring for the boys and girls. Dr. Helen McMurchy welcomed the Institute in a warm adappreciative manner, Miss McGhee of Chesterville, replying in a bright and thesize pleasing manner
"Children's Rights" was the sub-

ject of Archdeacon Cody's message to the delegates. The first right of ject of Archdeacon Cody's message to the delegates. The first right of the child is to be born, then to be well born, the right to live, the right to protection, the right to play, and the right to be well educated. Remember that the true measure of greatness is the growth and power of

Hon. Martin Burrell, Minister Hon, Martin Burrell, Millister of Agriculture, Ottawa, spoke a few con-gratulatory words to the delegates on the tremendous influences that the Women's Institute are exercising for

good.
Mrs. L. A. Hamilton, Lorne Park, gave a lantern talk on "Fruit Farming for Women." Many women are ing for women." Many women are thrown on their own resources and have to make a living, probably not only for themselves but for their fam-ily, and Mrs. Hamilton believes fruit

A Farm Home Recently Remodelled and Made Thereughly Up-to-Date When the farm of Mr. and Mrs. J. W. Logan, Chateaugusy Co., Que, was visited by an eliter of Farm and Darry in 1933. the tarm home was a single storey briefs where the control of Farm and Darry in 1933, the tarm home was a single storey briefs when a the Ormstown Show is garring the same editor called on Mr. and the control of the con

Convention that is looked forward to Convention that is fooked forward to from year to year is the Superintendent's report. Mr. Putnam has been superintendent for 10 years. "On the first ocasion," he said in his report, "we were just a small group. The Women's Institute was then only a minor organization. What we have not yet sufficiently superintendent of the property and the superintendent of the superinte a minor organization. What we have here to-day is sufficient evidence of the relative importance of the Wo-

men's Institute.

"An outstanding characteristic of
the Institute," said he, "is that in
nearly all the lines of work undertaken, sooner or later the consideration men's Institute en, sooner or later the consideration of the child in relation thereto be-comes an important factor; and rightly so, for the child is after all our greatest asset."

our greatest asset.

Mr. Putnam gave a brief summary
of the work of some Women's Instiof the work of some Women's Insti-tutes that has recently come to his notice, and which goes to show that the workers in the Institutes are doing what they can for the best interests of their several communities.

Miss Watson of Macdonald College,

Miss Watson of Macdonald College, Que., conducted a question drawer in a capable and satisfactory manner. Miss Jean Smith, Powasson, gave an inspiring address on "Our Cana-dian Women." She pointed out that while Canada may be justly proud of her wonderful resources her best as-set and empire builders are her good mothers. Mrs. Inch of Hamilton, pre-sided at this, session.

sided at this session.

The presiding officer at the evening meeting, Mrs. M. N. Norman, Toron-

farming a good work to take up. Not only is it suitable for older women but for young girls desiring to make

money.

The Friday morning session opened with Mrs. H. L. Goltz, Bardsville, in the chair, and in the afternoon Mrs.

A. L. Stackhouse, Kinburn.

Mrs. W. L. Parsons, Forest, Ont.,
well known at Women's Institute Con-"Parliamentary ventions, spoke on "Parliamentary ventions, spoke on "Parliamentary Procedure and Business Methods for Procedure and Business Methods for Procedure and Business Methods for the Institute." She defined a good meeting as the one where the maxi-num amount of business is done in the minimum amount of time. She described the proper ways of voting and advised every Institute to follow their hand book closely as much valu-able information is given therein. This subject was thrown open for dis-cussion and Mrs. Parsons answered a great many questions for troubled delegates pertaining to business

Very interesting and instructive invery interesting and instructive in-formation was given the delegates by two young ladies, Miss M. S. Hill, Vandorf, and Miss Ethel Robson, Ilderton, the former on poultry raising derton, the former on pounty raising and the latter on bee keeping. The practical experiences of each given and facts and figures were stated to show that it was possible to stated to show that it was possible to make either occupation a profitable one for young women who have lots of enthusiasm and are not afraid of

A practically new work in Ontario

at least, which has been taken up, that of Supervised Play Grounds, was explained by Mr. Armstrong, Toronto. This is something, he said, which country schools would do well to consider exactly.

sider carefully.

Miss E. I. Guest, Belleville, Miss E. J. Guest, Belleville, was warmly welcomed, and in a capable manner discussed a very broad sub-ect, "The Greatest Movement of the ect, "The Greatest Movement of the Age." We are busy aatton building and are focusing on the discount of the spoke of the change that is taking place in clurch wo the temperance, medical attention to the temperance, medical attention are the special of these of the special of the provinces and all wished the Institute future success. Mrs. W. Y. Stephen (Laura Rose) was among those special of the special of t

Stephen (Laura Rose) was among those sending greetings.

Sympathy was expressed for those who had lost their loved ones in the Great Lakes disasters.

A collection amounting to almost \$70, was taken up to swell the fund for their benefit.

Why House Plants Don't Thrive

Why House Plants DOR't Intive
Henry Gibson, Staatsburg
Plants intended for winter blooming indoors, which have been summered out in the garden or on a shady
corner of the verandah; will now be
indoors. Give them all the air possible on fine days, for the change from outdoors is a trying one, no m how vigorous the plants may be. proper attention and atmosphere they should thrive, but how few do at all well. Perhaps you have tried to grow them and had your disappointments, despite your best efforts and attention. despite your best efforts and attention. Perhaps you put the blame on the furnace, F summing that the gas killed them, as strely it would, but it was not really the gas, but lack of humidity in the atmosphere of the rooms, which was the cause of your failure. The most active root hairs of a plant are almost aquatic and must always be in contact with an adequate supply of water.

supply of water. DETERMINED BY HUMIDITY The stem and leaves are aerial, but The stem and leaves are aerial, but their behavior and form are largely determined by the water in the air; that is the humidity. The water supply is used by the root hairs, while the water loss is the result of evaporation by the leaves. The humidity of the pit water endired control uncompared to the pit water endired uncompared to the pit water endired to the pit water end to the pit w the air exerts a direct control up the air exerts a direct control upon the amount of water evaporated by the leaves, and it is evident that the evaporation will be greater when the air is dry. If this evaporation of, water loss is greater than the supply curling, drooping and wilting of the leaves evaporate.

leaves ensues.

Even when you water your plant faithfully, the excessively dry atmosphere of the house is apt to overwork. them, by drawing up moisture throug the stem and leaves, for dry heat air will take up what moisture it is air will take up what moisture it is quires from every possible source When you consider that the humids outdoors on a summer day is about per cent. you will appreciate what is unnaturally dry atmosphere obtain our homes in winter, where it say water at all is evaporated it will be the most but a few quarts with a my sultant humidity of about 18 to 20 pr cent.

By all means evaporate water free both for your own good as well as that of your plants, by keeping a 70 kettle of water steaming on a heater or by pans on the radiate Another way to accomplish the sar result is to elevate your pots on eighter a free of the same of the By all means evaporate water fr

... Water sprinkled over pie crust fore baking will make it light The Upw

November 27

J To-day I overhea this not lovely wea ewer, "but we will for it." Why do we so of

that it is not righ happiness—that s will have to suffer I do not think we of the purest swee

There are many the year than dar skies than cloudy slopes than barrer

nes in the materia may expect to find
Think of the jo
every-day life are ords, playful kitte One may say, "It little ones to be g older ones do not fashion." No, th ou watch their fa the fun and merri although quieter also denicted the thinks the very twi experience gladnes Many think chi

piest time; many

The Upward Look

To-day I overheard the remark: "Is this not lovely weather? How long it has lasted!" "Yes," was the anewer, "but we will have to make up

Why do we so often have the feeling that it is not right to have too much happiness—that sooner or later we will have to suffer for it?

do not think we can have too much of the purest sweetness, most natural kind of happiness and joy in our

There are many more sunny days in the year than dark ones, more clear skies than cloudy ones, more grassy slopes than barren ones. If our lov-Father has created such brighting Father has created such dight-nes in the material world, surely we may expect to find it in our lives. Think of the joy we see in the every-day life around us, singing

very-day life around us, singing birds, playful kittens, merry children. One may say, "It's all very well for little ones to be gay and happy, but older ones do not frolic in the same fashion." No, they do not, but as you watch their faces, as they watch the fun and merriment, you see although quieter and more subdued. although quieter and more shoulded, also depicted there. Wordsworth thinks the very twigs, leaves and trees experience gladness in being alive. Many think childhood is the hap-

piest time; many do not. How is it mont Co., Ont.

nessessessessessessess with you? Their sorrows and disappointments foom up very large and pointments from up very large and seem very hopeless. They may be soon over, but while they last they are very real. Older people ought to be much happier, because they have received help in difficulties, comfort

in sorrows, so many many times.

Do you know Pollyanna in the
Glad book? If not she is well worth
the knowing. Her father said there

the knowing. Her father said there were eight hundred rejoicing texts in the Bible, like "Be glad in the Lord," or "Shout for joy."

It must not be thought that there will never be troubles and trials in our lives. What would our world be if there were no dreary, rainy days? What would our characters be if there were no said, mourful days? were no said, mourful days? when the control of the company of the co

In sewing old goods try dropping your spool of thread in hor water for a few minutes, then dry, and your thread won't draw after washing material.

Our Women's Institute is doing good work. The members work har-moniously and I am sure it is proving of great benefit to those who pre-pare papers (and nearly all do) as it takes away that fear of hearing one's own voice, and also helps to put our ideas into intelligent form. The social part of our meetings are also much enjoyed.-Mrs. W. J. Johnston, Stor-

Helping the Women

The cream separator is one of the few things which specifically alleviate the drudgery of the woman whose lot the detailors was performing allower abecause the detailor was performed and the second of the secon she was on a vacation.

It is this inequality of labor which starts country girls citywards. It is a lamentable commentary on the lack of chivalry in men, but in every rural community in which the writer has visited, the average head of the house always has money to buy labor saving machines for himself and sons. He is machines for himself and sons. He is thoroughly up-to-date in that, but when the patent washer, the fireless cooker, the carpet sweeper, the water system, and the lighting plant are advocated by the junior partner, funds are always low. This condition is not so bad as it used to be—press-perity has opened the pure, strings— but there are still consuming. but there are still opportunities for betterment.

The cream searator is one of them. It fills a need felt by every woman from Leah down to the 1911 college

coed, and even if it did not increase the farmer's dairy profit one iota, it is worth its weight in gold for the labor it saves the mothers, wives, and sisters on the farm. — Harvester World.

(15)

To Our Women Folk
A Letter from the Circulation Manager
of Farm and Dairy

Would you like a nice tea set in our home? They are wonderfully your nome? They are wonderfully nice to have, when you are entertain-ing your friends. Because so many the women readers of Farm and Dairy are interested in having their tea tables attractive, we have made tea tables attractive, we have made it possible, for all who wish, to get one of these sets.

If you look on page 9 in this week's issue of Farm and Dairy you

week's issue of Farm and Darry you will see a photo of this tea service. It is semi-porcelain, decorated with roses in a new design. It consists of twelve plates, twelve cups and sau-cers, two cake plates, a cream jug, and slop bowl.

and slop bowl.

This set would be exceptional value at five dollars; but owing to the fact that we have placed a large order with a well-known china firm, we are able to offer it for four new subscriptions to Farm and Lairy.

Although the announcement first appeared in last week's issue, coming out on Thursday, we had one order and several inquiries on Mon-

Look up this announcement in last week's issue. You would do well to write us for further particulars, or send in four new subscriptions.



| Come again, Pie Time, and often. For wholesome, digestible "eats" —give us PIE.

At its very best wrapped in a FIVE ROSES crust.

Upsets Pie Prejudice without upsetting the Eater's Insides-FIVE ROSES flour. Great for Pie Crust - top and bottom. And Puff Paste and Difficult Things. Close-grained — melting — even textured. Flaky, too, and crinkly - crisp yet tender. Put into your bake things the rare nutlike sweetness of Manitoba wheat kernels. All soppy with the rich red juice of the cherry-or lemon pie-or apple-or healthy custard—meat, may be, or mince— Put the FIVE ROSES "crust end" about 'em. See the hungry wedges fade behind busy milk teeth. At Pie Time

Roses Flour.

Use FIVE ROSES.

Not Bleached



Not Blended

LAKE OF THE WOODS MILLING COMPANY, LIMITED MORTREAL

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atter With they t all grow ents, ation. the t was lure. of a ast al-equate

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Use this on the Farm and in the Home

No wasting time over a lantern. Wherever you wast a powerful light—indoors—outdoors—in any weather—you can get it instantly if you have a

"NINE LIVES" ELECTRIC FLASHLIGHT

Just press he butten and get a fright, powerful gleam
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a Clip to hold the cow's tail while milking. Handy and easy to use. Saves the milkers many a many to the milking. Sent from the and the milking. Sent milking, Sent milking, Sent milking, Sent milking, Sent milking, Sent milking, Sent milking sent to the sent milking sent milkin

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FOUR-PIECE SKIRT 8022

TOUR-PIECE SKIRT 8922
This skirt consists of just four piece or just in piece or just four piece or just fou



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Such a wrapper to a such a wrapper to the wrapper to the

is pattern is cut in sizes for children months, 1, 2 and 4 years.



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ling. sizes from 34 to





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A it was a fine horse and had nothing the how any it. All the horse, but, it was a fine horse and had nothing the how any it. All the horse had a fine horse had been had a fine horse had been had a fine horse h

Address me personally: B. F. MORRIS, Mgr. 1900 Washer Co. Yonge St., Toronto.

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On cold, zero nights you will find the



the best protection for your stock.

The new model Perfection, just on the market, is the best heater ever made. Flat font insures steady heat. Indicator always in sight. Burns all night on one gallon of oil. Easy to

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at all chief points.

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Finished with blue enamel or plain steel drums. Stock



Jersey Cattle Brampton Jersey

November 27

tienal Show, as shows on the sam shows on the sam off the bulk of the cases getting first, a section. At the day's judging B totalled several hu competition was of B. Cowieson & Ont., and W. N. Westhill, Ont., p Westhill, Ont., p winners hard, parti-sections, and got s Mr. Cowieson's en attracted much for Mr. Cowieson has a stitution for his Jerseys of unusual

type as compared Bull & Son. It was anticipat known show here David Duncan David Duncan was be in the ring a after a couple of y absence, and er were made, but tr with hired help vented their con Josh Lawrence, V stock, had a few er and Thos. R

but lacking a little

Downsview, one. MALE CLASSES MALE CLASSES
The Canadian
tional champion,
tan's Raleigh, wa
only aged bull si
and later was dec
champion. He is
one of the finest
of the breed ever of the breed ever in Canada, comb style and finish constitution and stance. In two old bulls Cowieson cured first on a strong bull over what neater bull on herd. Slip a sag in the l sirable rudimentar

the latter finally W. Hunter, in his rence was little place on a bull of lacking in finish a In yearling bulled his triumph of with a bull of Bristraight and finish could wish for.

An easy winner slip Blue Bell, sen pion female. T criticised as a lit ticularly when sta of Cowieson's ent udder, great veir looking as one co to her in the mate cow of splendid p with irregular udo repeated their tri where Cowieson, type he favors, la first honors. This to place, the first special menti of special menta-champion, Bramp a sweet heifer and as a producer of in full follow:

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He said the mai-it, I didn't

Brampton Jeraeys at the new National Show, as at many summer have no the same grounds, earried have no the same grounds, earried have no the same grounds, earried same getting first, second and third in a cedion. At the end of the first second lundred dollars. But sompetition was oftentimes keen. J. Cow, 3 years, in milk; 1, 2 and 3 B. Lady sompetition was oftentimes keen. J. Cow, 3 years, in milk; 1, 2 and 3 B. Lady sompetition was oftentimes keen. J. Cow, 3 years or over, in calf, not milking; the complex of the same properties of the same pro Brampton Jerseys at the new Na-tional Show, as at many summer shows on the same grounds, "carried off the bulk of the awards, in a few cases getting first, second and third in a section. At the end of the first day's judging Brampton earnings totalled several hundred dollars. But

anance. In two-year and old bulls Cowieson secured first on a large, strong bull over a smaller, some strong bull over a smaller strong bul

FEMALES

An essay winner was Brampton Cow-slip Blue Bell, senior and grand cham-pion female. This cow may be criticised as a little undersized, par-ticularly when standing beside some of Cowieson's entries, but she is of perfect type, with a fine quality udder, great veining and as breedy looking as one could desire. Third to her in the mature cow class stood a cow of splendid producing type, but with irregular udder and teats. Bulls with irregular udder and teats. Bulls repeated their triumph in every other class save one, the three-year-olds, where Cowieson, with a cow of the type he favors, large and strong, got first honors. This was a hard class to place, the first three cows being of to place, the first three cows being of three distinct types. Another worthy of special mention was the junior champion, Brampton Stockwell Rose, a sweet heifer and already doing duty as a producer of Jersey milk. Awards in full follow:

AWARDS Bull, 3 years and over: 1, Sultan's Ral-eigh, Bull.
Bull, 2 years: 1, King Fox of Queens-ville, Cowleton: 2, Brampion Raleigh Duke, Bull; 3, Erdenheim's Majesty, Josh. Lavrence: 4, B. Raleigh Bean Bull.
Bull, 1 year: 1, B. diockweil A. McRach-ern: a and 3, B. Nap Plasis' and McRach-ern: and 3, B. Nap Plasis' and Section of the Cowle-me Cutford, Bull; 4, Royal Purple, Cowle-me Cutford, Bull; 4, Royal Purple, Cowle-

son.

Bull, senior calf: 1 and 2. B. Golden

Noble and B. Burma Knight, Bull; 3. B.

Royal Stock, McEachern.



following of such a short rotation adds materially to the fertility of the land and I do not hesitate to say that we may increase the crop producing capacity of our soil by anywhere from 50 to 100 per cent. In six years, by such a rotation.

such a rotation.

That may yound exaggerated but it is harmay und exaggerated but it is harmay und exaggerated but it is harmay und experiments at Ottawa. It is also corroborated by the experiments of the agriculturist at Guelph, and it has also been proved by my own experience on a farm which I owned in the Province of Quebec. It has also been the experience of many farners who, in the past, I have been able to persuade to adopt smaller rotations. The introduction of a rotation in which clover enters at least two out of three years is the first step to success in farming.—Extract from an address. tract from an address.

Box pack of apples is bound to come and the Ontario Department of Agriculture has recognized the need Agriculture has recognized the need for light on the subject in Ontario by publishing a bulletin, "Box Packing of Apples." This bulletin, which is written by E. F. Palmer, B.S.A., deals with every phase of the box packing problem, from the description of a packing house to the fullest information re packing apples, style of pack, and so forth. A cophying to the Department of Agriculture at

HOLSTEINS

KING PONTIAC ARTIS CANADA

SON of KING of the PONTIACS

Avondale Farm offers sons of this great bull:

downdate Farm offers som at this great buil:

1. From a 134; b. two-pear-old daughter of
Countees Sogis (26.80 lbs. at 3 years), born
May 10th; 10th. -3276.

2. Born March 2nd, 10th. from a 2 lb. cow.
Albert damal basing of lifed the cortice. -3276.

3. Bur damal basing of lifed the cortice. -3276.

4. Born May 10th, from a 14.40 b, yearling daughter of Firence Hangered Hesien, 2 lb. cow, and daughter of Firence Hangered Hesien, 2 lb. covered his co

A. C. HARDY, BROCKVILLE, ONT.

Lyndenwood Holsteins

Among the Young Bulls were now offering is a full prother to Netherland to the real protection of the parties of the parties of the parties record. Also, so not this helfer, both fit for service, and some loc Galven enarly in for service, from note Calven enarly in for service, from the Calven for sale, either tested or from tested dams. W. J. BAILEY Hagerwite Station, Nober P.O., Ont.

Lyndale Offering

One Yearling Bull—tuberculin tested—of his nearest dams average 27 lib. butter of HE PONTIACS." one 12 me, old from a 20-lb. jr. 3-year-old; another 5 me, from a 20-lb. 3-year-old grand daughter of Sort Jewel Hengervild.

BROWN BROS. - LYN, ONT.

Anything in Holstein Females

Anything in noistein remaies

From 1 week to 6 yrs, old, 75 head to
choose from.

8PECIAL OPPER: 10 Heiers rising 2 yrs,,
bred, and Bulls from 7 to 10 m.os.
My herd bull is Cossi Hespervell Be Kel, No.
0702: dam, Sara Jewel Hengerveld 3rd, first cow
in Canada to make over 30 lbs, butter in daysrecord 30.4. Sold for \$2,000.

Write no or onne and see what we have that

you think it would pay you to buy.

W. F. BELL. BRITTANNIA HEIGHTS, ONT Ottawa Bell 'Phone. RIVERVIEW HERD

9 Young Bulla, from 9 to 12 months, sired by King Isabelia Walker, whose sister, 3 nearest officiasity tested dams, a sister of his dam, and two sisters of his sire average for the eight 50,4 lbs, from R.O.M. and R.O.P. dams. P. J. SALLEY, LACHINE RAPIDS, QUE-

Lakeview Holsteins

Bull calves only for sale for the pre-went, sired by Count Hengerveld Fayne De Kol or from his daughters and sired by Duvchland Colantha Sir Mona. Write for extended pedigrees of these bulls, or o-me to Bronte and see the herd. Visition a lways welcome.

E. F. OSLER, BRONTE, ONT.

HOLSTEINS

Allison Stock Farm

THE HOME OF SIR LYONS SEGIS

HE HOME OF SIR LYONS SEGIS
His six first dams average 30.50 bis. butter in seven days. 1. the first three generations he has 3. cover that three generations he has 3. cover that the second of the follows and 3.54 hs. butter in seven days. 3.57 hs. butter in seven days. 3.64 hs. butter in seven days. 3.65 hs. butter in seven days and the pontines. I half-site to 7.05 hs. butter in seven full with a seven day seven day records, that we simported, and so fill be dam, and the other two by a seven day records, that we imported and so of the man are stretchy a but with seven-day records, that we imported and so of them are stretchy a but with seven-day records, that we imported and so of them are stretchy a but with seven-day seconds and see them. We have a number of the form.

ALLISON STOCK FARM.

ALLISON STOCK FARM CHESTERVILLE . .

· ONT

Phone and neighbors right now while you are ak them to become emberthers to Farm and Dairy. You can easily get up a club in this way, and 9 new sub-ribor to one of Farm and Dairy & Fare-bred Figs.

LAKESIDE DAIRY AND STOCK FARM

Present offering, Bull Calves from Record of Performance dam; also a few females.

15,345 lbs. in 1 Year

For a jr. 2-year-old, milked twice per day, She is a daughter of Dutchland Colanths Sir Abbekerk. A pair of his cons from 22 and 23-lb. 4-year-olds for sale. Both extra show bulls, old enough for service. Write for pedigree. . LAIDLAW BROS. — AYLMER, ONT.

OXFORD DISTRICT The Holland of North America

Is the place to buy Holsteins of quality.
The Third Annual Bale will be held in the city of Woodstock on March 25th, 1914.
Full 1st of breeders in the Oxford District with post office and station addresses sent on application to R. J. KELLY, SECY., TILLSONBURG, ONT

KING SEGIS WALKER

The greatest transmitting family of the breed, holding the world's ecords for 3, 4 and 5 generations. records for 3, 1 and 2 generations.

I have for sale sons of this bull from high record daughters of Pontiac Korndyke, making the greatest and most valuable combination poss in the whole Holstein breed. Photo and Pedigree sent on applications. esible to get

A. A. FAREWELL - OSHAWA, ONT.

HET LOO STOCK FARM

New arrivals at Het Loo Farm,—a son of twenty-seven-lb cow, sired by a son of Pontiac Korndyke. Also one from a twenty-six lb. cow will be sold for less than balf their value if taken soon. Write to Dr. L. de L. HARWOOD, Proprietor GORDON H. MANHARD, Manager HET LOO FARM, VAUDREUIL, QUE.

FAIRVIEW FARMS HERD

is the only piace on earth that you can secure a young bull that is a brother to the sire of the cow holding the championship of Canada as well as the United States. Both of these records are held by cows that were sired by some of PONTIAC KONNDYKE. We can ofter you a few of his some at reasonable prices; also some of the stratest Korndyke buil, thing "Scaley," and properly the control of the some of the strategy of the some state of the some state of the some states of the some stat

E. H. DOLLAR, HEUVELTON, NEW YORK, NEAR PRESCOTT, ONT.

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IF you have any doubts regarding the composition of a feed—why use it? You need not have any misgivings about the quality of Caldwell's Molasses Meal—because we print the in-

gredients in plain English on the tag attached to every bag and guarantee the composition of our meal to the buyer. Caldwell's Molasses Meal is 84% pure cane molasses and 16% of edible

moss, having remarkable therapeutic qualities. Its use is an economy, because it makes other feed more palatable and diges-tible. Let us know if you cannot get it at your dealer's.

The Caldwell Feed Co. Ltd., Dundas, Ont. Molasses Meal, Dairy Meal Substitute Calf Meal, Poultry Meals.



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Every farmer in Canada needs and unes our kind of goods. Over 2,000 me are asking by movey using Reu-leigh Qualey Product, Hundreld Rene-dee, Extents, Syean, Soan, I fails of Article, Societ Renedick, Febrity Disperse, Soan, I fails of Article, Societ We water a man and once in every locality to represent the genere Byring, Munderstrain, Darkholing and Selfies Quegation in North America. Eddidhed 19 year. Capital and Resource need The Miller Control of the Control of

Get Into Business For Yourself

With little competition. We are the only conce ma kind who even and operate a fastasy in Ca. No duty. Freight services prompt.

We want men of good standing is their comments of the conferral satisfactory benchmen, not see the confect of the basiness. No experience was the confect of the basiness. No experience was the confect of the basiness. No experience was the confect of the post success and stand back of you with the services of our

The W. T. Rawleigh Medical Co.

66 Henry Street
Winnipeg, Man. Winnipeg,

Toronto, Monday, Nov. 34.—Welcome as mild weather may be to those who find it hard to make and meet assisting, local welcome and the second of the second of

COARSE GRAINS

COARSE GRAINS
There has been an upward tendency in many the property of the pr

EGGS AND POULTRY

FIGUS AND POULTRY
The rask and she of consumers are not buying free last eggs nowadays. The retail price rune around sic to 66c. Storage eggs also have taken an upward jump, and No. 1s are now gumman to 30c, and the state of t

DAIRY PRODUCE

Fresh creamery butter is at a greater premium this week then it was last week. Fresh primary for the control of DAIRY PRODUCE

LIVE STOCK
been moderate and prices have been moderate and prices have been from
the moderate and prices have to the reportion are unfinished, but packers have
to be content with poor quality stuff asit is the best that they encount of the reception to be for the prices of the resolution of the prices of the prices of the resolution of the prices of the prices of the reterm of the prices of the prices of the re
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84.56.

There is a splendid demand for all kinds of dairy cattle. A few extra choice cows have sold for \$65 to \$90 and \$25 to \$90 and \$25 to \$90. Springers on \$4.50 to \$90. Veal calves are \$9 to \$10; inferior, \$4.50 to \$97.

Yeal calves are \$9 to \$100; interior, search of \$1.00 to \$1.00 to

MONTREAL HOG MARKET

MONTELAL HOG MARKET

Montreal. Saturday, Nov. Zeronto nurprice were like to Zeo a cert, higher than
last week, the tone of the local mari-tirif anything, was essuire than a celler of
local were made at 85 90 to 85,00 weighted
off care. There was no change in he
condition of the mand was rain; and sole
of abstract, was essuired to the condition of the mand was rain; and sole
of abattoir, freshchilled were made at
\$15.50 to \$125.70

Montreal, Saturday, Nov. 22.—The section
has wound up with market quiet and a
very alow demand for cappert, price and
very alow demand for cappert, price
very alow demand fair were readed
very rapidly, and will soon stop allower
of the factories have started making better
and will keep open for a week or tea
longer where such is the mand. He smallect, in fact, known in the trade at this
season of the year, and consequently
written of the factories have started making better
and very rapidly, and will seen one of the capped
very rapidly, and will seen one of the factories have started making better
and



Reduces Strained, Puffy Ankles Lymphangitis, Poll Evil, Fistuia Boils, Swellings; Stops Lameness and allays pain, Heals Sores, Cuta Bruises, Boot Chafes. It is an ANTISEPTIC AND GERMICIDE

Does not blister or remove the air and horse can be worked. Pleasant to use. \$2.00 a bottle, delivered. Describe your case for special instructions and Book 5 K free ABSORBINE, JR., antiseptic liniment for masked to duces Strains. Painful. Knotted. Swoller Veins. Milk Let cation. Price \$1 per bottle at dealers or delivered, W. F. YOUNG, P.D.F. 123 Lymans Bldg., Montreal, Can.

FOR SALE-13 Young Registered Cotswold Ewes (Bred) for \$150,00. Write to Fred Comerford, Eldorado, Ont.

ROSE COMB BROWN LEGHORN and Rhode Island Red Cockerels. Prices reasonable.—J. Walsh. Westwood. Ont.

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FOR CREAM HAULING
Russel Motor Car. Run only 1,000 miles
Right in every way, and good as new 8
H.P. engine. Wheel base, 132. 7 passeger. Can be converted into A1 truck for
eream hauling. Originally cost 85/ge.
Priced now so as to interest you Write
for particular: This is a wonderful opportunity for any oreamery man to get a
motor truck. H. LEBS. motor truck. H. LEES, Care of Farm and Dairy, Peterboro, Ont.

Trappers Highest prices paid for Raw Fursin Bundlo, Nr. Don't ship to anyone till you get the Huilable Price list, The home of the manufacture. Write J. I. GLEED, East Aurora, N. Y. Oopt. 5.

Registered Holsteins FOR SALE

5 Young Cows, bred to an imported bull A so 3 Young Bulls and 2 Heifer Calves R. A. GILLESPIE - ABBOTSFORD, OUE

MARKET REVIEW AND FORECAST

Reports from the Agrenine continue to be unfavorable strengthened accordingly. Many of the bids coming from Lawrpool and also from Germany have been doing that our commission of the bids. however, are will too low. There is a good trade on local account. Quotations are also. 1 continued to the continued of the

LIVE STOCK

November 2

but is not any n supply the deman mouths, and it is of Zealand butter will before the advent Canadian.

HOLSTEINS MAR

Bull. 1 years 1 years

King Lyons Henne Cow, 4 years as 3, 8, R. Years and 4 A. R. Years and Ladong Medilin Farm-Lady Nell . 4 Sonn, Erle-Net Cow, 3 years, in Cow, 3 years, and Echo: 2, Ellas 9 and 4, Beigar De Della Company of the Helfer, 2 years, and Fair-count Hawlie Letter of the Company of the Fair-count Hawlie Helfer Coloniths, I Ul Hazel Tonsen; 4, Veeman.

Hazel Tonson; 4, veeman.
Heifer, junior y. Haley, Sprinfield-tha and Homework Leuenler & Bol Beauty: 4, Wm. Morooke Victoria.
Heifer, senior c. Hulet—Lady Paul tions Mercena an ary: 4, City Dair Bell.
Heifer, junior os Heifer, junior ca Fayre: 2 and 4. Pontiac Abbekerk Abbekerk; 3, A.

Canary. Senior and Gr

As we the tire herd thighest bi tomers in with their

Wedr Dec

Sire-KING butter
Dam—BLAN
De Kol
Five neares

Come t

LEUS!

but is not any more than sufficient to supply the demand during the next few months, and it is quite possible that New Zealand butter will have to be imported before the advent of the new make of Canadian.

Granddan.

HOLSTEINS MAKE GREAT SHOWING
(Continued from page 19)

Bull, I year: 1 M. H. Haley-Sir Bull: Sayder: 4. Dymen.

Bull: 1 year: 1 M. H. Haley-Sir Bull: Sayder: 4. Dymen.

Bull: 1 year: 1 M. H. Haley-Sir Bull: Sayder: 4. Dymen.

Bull: Senior call: 1 and 1 Sayder: 4. Dymen.

Bull: Senior call: 1 and 2 M. H. Haley-Sir Bull: Sayder: 4. Dymen.

Bull: Senior call: 1 and 2 M. H. Haley-Sir Bull: Sayder: 4. Dymen.

Bull: Senior call: 1 and 2 M. H. Haley-Sir Bull: Sayder: 4. Dymen.

Bull: Senior call: 1 and 2 M. H. Haley-Sir Bull: Sayder: 4. Dymen.

Bull: Senior call: 1 and 2 M. H. Haley-Sir Bull: Sayder: 4. Dymen.

Correspondence Invited

Son: Remark Awards

Cow. 4 years and over. 10 milk: 1 and 5 M. H. Haley-Sir Bull: 1 and 4 M. H. Haley-Sir Bull: 1 and 5 M. H. Haley-Sir Bull: 1 and 5 M. H. Haley-Sir Bull: 1 and 5 M. H. Haley-Sir Bull: 1 Sayder: 4. Sir Bull: 1 Sayder: 4. Dymen.

Carners Bull: 1 Sayder: 4. Dymen.

Correspondence Invited

Son: Riches Web Park 4 Bollert

King Lores Yearner 1 milk: 1 and 5 M. H. Hellart.

Son: Riches Weberhand Shurling.

Ladoga Maline Veenan: 2, City Dairy Farm—Lavly Not. 15 Bull: 1 Sayder: 4. Dymen.

Son: Riches Weberhand Shurling.

Ladoga Maline Veenan: 5, City Dairy Farm—Lavly Not. 1 Sayder: 4. Dymen.

Son: Riches Weberhand Shurling.

Ladoga Maline Veenan: 5, City Dairy Farm—Lavly Not. 1 Sayder: 4. Dymen.

Son: Riches Weberhand Shurling.

Ladoga Maline Veenan: 5, City Dairy Farm—Lavly Not. 1 Sayder: 4. Dymen.

CARLETON CO., ONT.

BEILT NINE AND NOT. 2 Sayder: 4. Dymen.

CARLETON CO., ONT.

BEILT NINE AND NOT. 2 Sayder: 4. Dymen.

CARLETON CO., ONT.

BEILT NINE AND NOT. 2 Sayder: 4. Dymen.

Ladoga Maline Veenan: 5, City Dairy Farm—Valle M. M. Fellat.

Bell: Sayder: 4. Dymen.

Ladoga Maline Veenan: 5, City Dairy Farm—Valle M. M. Fellat.

Lowers Montague.

Carners Montague.

Hazel Tensen; 6, Hiram Dyment-Lany Veenas, 100 years, 200 years, 2

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Hiram Dyment-Cora Countees Echo.

Graded herd: 1. Hulet: 2. Haley; 3. City Dair; Farm; 4. Snyder. Breeders' herd: 1. Haley; 2. Hulet; 3. Snyder; 4. Dyment.

toes, 81 to 1.19 a bag.—J. A. D.
WATERLOO. CO. ONT.
WATERLOO. CO. ONT.
WATERLOO. To 15.—The rush of fall plowing is about over, and the mild. open fail westher helped a lot to attain this grain russ well. Cattle have been stabled, and with it comes the regular routine of chores Feeders are being put in at from \$5.20 Med.—T. B. gin weight from 300 to 1.00 mill.

Halley, Surfindel-Orticose Sparse Colan tha and Homeword Fayne Cornella; 5. Loughter & Bollett - Ganalan shafes and Homeword Fayne Cornella; 5. Loughter & Bollett - Ganalan shafes to the State of State

DISPERSION SALE BIG

AT WILLOW GROVE STOCK FARM

WEDNESDAY, DECEMBER 10th, 1913 **30 REGISTERED HOLSTEINS**

and a few high frades. 1 Cows in milk, 4 promising E-prar-olds, 4 splendid Yearlings, 7 Calves 6 Keifers and 2 bulls second to none.

All are decendants of such noted sires as Pieterje Hengered Count De Kol, Pieterje Hengered Count De Kol, 15 Hechtlide Foech, all from high official record ancestors.

All are decendant for such milk production. Every animal in the herd bred and raised at "Willow Growth and kept for preditable milk production. Every animal in the herd bred and raised at "Willow Growth and Every animal in the herd bred and raised at "Willow Growth and promising going sire 25 months old, present hard bull). The coord cow Collapha th di Johann. So of the Thom World's record cow Collapha th di Johann. Owner retiring—everything goes—well equipped set of Farm Machinery Horses, etc., soid amine day. Farm is easily rendech. 3 miles west of Drumbo Lett III. The All Irains, both C.P.R. and G.T.R., met at Drumbo station on morning of site.

Send for Catalogue today.

Send for Catalogue to-day C. C. FRY, R. R. No. 1, DRUMBO, ONT.

Auctioneers:
COL. WELBY ALMAS, Brantford
W. PULLEN, Woodstock

Princetown and Drumbo Telephone

MANOR FARM

Senior Herd Sire, Prince Hengerveld of the Pontiacs, a son of King of the Pontiacs and from a daughter of Pietertje Hengerveld Count De Kol. Junior Herd Sire, King Segis Pontiac Posch, a son of King Segis Pontiac Alcarta (the \$10,000 bull), and from a 20 62 lb. 3 year old.

We will be glad to mail to anyone extended pedigrees of these Sires.

We are offering a limited number of cows in call to them for sale.

THAT BIG SALE

As we are dissolving partnership we have decided to sell the en-tire hard and positively every animal we own will be sold to the highest bidder. We wish to thank those who have been our cus-tomers in the past and trust our offering at this sale will meet with their approval.

BOLLERT & LEUSZLER

in offering the 20 head of Holsteins at this sale I do not wish it to be understood that mine is just a consignment. With the ex-ception of the heifers sired by my former herd bull, Veeman Beauty Hartog, every animal in my herd will be knocked down to the highest bidder positively without reserve.

The Graceland Farm. ELIAS RUBY.

Big Heavy-Milking Holteins

Wednesday Dec. 17

Woodstock 90

OF





Wednesday

Dec. 17

KING LYONS COLANTHA

Sire—KING PIETER, as on of King Hengerveia and Blanche Lyons—M.M.

butter in 7 days

By All Sire—King Lyons, as on of Colombia Johanna Champion and Segis Betta—

Damber Kol 2nd Boy and Blanche Lyons Netherland—M.M.

Eve nearest dams average 3.0.2 in 7 days. As a whiter of Retherland Johanna

The females offered should give a strategies to buyers from

The females offered should give a strategies to buyers from

Silbs. B.O.P. records up to 17.0% milk and 2 year olds up to 15.6—in fact all mature females, but 2 have records over

Silbs. B.O.P. records up to 17.0% milk and 20 lbs. butter as mature. Note to efficient on the should be saminals in the

The young stock are the growthy, thritty Mind that will develog into the bits rectuance the records becaming the records of the saminals in the

The young stock are the growthy, thrifty kind that will develop into the big producers—the records and breeding of their dams insures record performers.

Come to This Sale and set your price on animals that will do for you what they have done for us Note the Cuts of some of these in Farm and Dairy, on December 4th

A Post Card will bring your copy of the Official Catalogue. It gives you all particulars and pedigrees

LEUSZLER & BOLLERT Crescent Ridge Stock Farms Welcome

TAVISTOCK, ONT.

ELIAS RUBY Graceland Farm

Auctioneers: COL. R. E. HAEGAR, COL. B. V. KELIEY Catalogues from JACOB LEUSZLER, Secretary of Sale, R. R. No. 1, Bright, Ont. Sales Manager: E. M. HASTINGS

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ONCRETE roads have proved to be the best. Once laid, they are there for a generation, no matter how heavy the traffic. Some so-called "good roads" need so much repairing that the maintenance expense in a few years amounts to as much as the roads cost originally.

The cost of repair and upkeep on a concrete road is practically nothing.

The first cost of a concrete road is not high. In most cases it comes close to that of good macadam.

To gain some idea of just what this kind of real "good road" may mean to you, ask yourself these questions:

How many pounds can you haul when the roads are good?

How many pounds can you haul when they are bad?

How long does it take you to make a trip to market over good roads?

How long does the trip take over bad roads?

How many trips have you made over bad roads this year?

How many more trips would you have made, if the roads had been good?

Have you estimated what poor roads have cost you—in time of men and teams wasted,—in inability to get to town when market prices were high—in trouble and inconvenience—and in actual taxes for repairs that temporarily made a poor road better, but that never gave you a real good road?

Concrete roads mean more profitable marketing of your crops, the saving of your horses, more convenience for your family, increased value for your land, and full value for the money you pay in road taxes.

The story of the concrete road is interesting. Every Canadian farmer ought to know it. Write for complete information to

Canada Cement Company Limited, Montreal

