

Issued Each Week—Only One Dollar A Year

VOL. XXXII.

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# FARM AND DAIRY

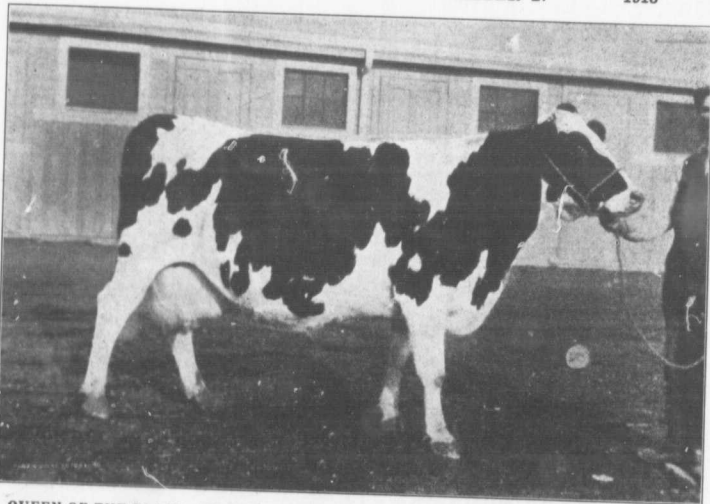
are Counts Dicks  
and Gold Medal

## RURAL HOME

PETERBORO, ONT.

NOVEMBER 27

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 Holsteins. The subject of our illustration is the grand champion female, Cora Countess Echo, shown in the dry cow class by her owner, Hiram Dymont, 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.

DEVOTED TO  
BETTER FARMING AND  
CANADIAN COUNTRY LIFE

## 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 National Live Stock and Dairy Show is off to a good start. If we may judge from the success of the first fair held on the grounds of the Canadian National Exhibition last week, the new winter fair is here to stay. True, the people were not there in as great numbers as was anticipated, and the financial deficit will be large, but as the merits of the show become better known and more fair goers will add the National Live Stock and Dairy Show to their list of fairs they "can't afford to miss." Bad weather during the first two days of the fair and the last also seriously interfered with attendance. The breeders of live stock, however, were there in even greater numbers, in many departments, than at the Canadian National itself. In important particulars the exhibits eclipsed those of the previous Ontario Provincial Winter Fairs at Guelph. The new fair has an advantage over the older one in that breeding class of fat stock, sheep and hogs are provided for in the prize list whereas Guelph, except in the case of horses, is almost purely a fat stock show, with little consideration given to breeding classes. This one factor served to bring to Toronto a record exhibit of cattle, sheep and swine.

## NOT A NATIONAL SHOW

When the subject of a National winter fair was first broached it was seriously questioned if such a fair could be made national in more than name only. 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 realized to a certain extent in the show of last week. It might better be called a provincial winter fair. In the dairy classes, for instance, there was not a single exhibitor from outside the province. In all other classes except beef cattle the same conditions generally ruled. In beef cattle the show assumed an international aspect, a couple of United States herds being present.

But whether the fair was national or provincial in character it was a success from the standpoint of enterprise. There were almost 300 dairy animals, well on to 300 beef cattle, 300 pigs. The breeders will continue to come. The prize list is a generous one. The treatment accorded to exhibitors by the management was 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 promising start, is the lack of a suitable judging arena. The horses and beef cattle, for instance, were judged in the stock yards. There was not the live stock arena available for those who wished to see these classes judged. There was no room for seats to be placed. Practically all the space required for space in the arcade was required for 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 good (?) position near the fence of the ring, the narrowness of the enclosure made it impossible to see more than a few entries in any class.

So much for the horses and fat cattle. When we consider the dairy cattle, the conditions were even worse. The dairymen rendered the show when first suggested, more substantial and systematic assistance than any of the breeders. They felt they were deserving of first consideration at the hands of the management. Instead, they were housed in the back rows of sheds that could be reached only by wading through mud, in many cases ankle deep, and then one would find difficulty in locating the judging. An editor of Farm and Dairy waded around fully 10 minutes before he finally located the judging in an empty cow shed. There were no signs to direct people to the judging shed, no seats for visitors in the shed except a couple of benches carried in by the breeders themselves, and insufficient lighting.

## HORSES

Every one, or nearly every one, loves a good horse. And the horses at the National would appeal to the most critical. Heavy horses greatly predominated; more so perhaps than any previous winter fair in Canada, and many of the breeders were out in strength, such as Elliott, Bolton, T. H. Hassard, Markham, Graham Brown, Claremont, and numerous smaller breeders, some well represented. The winnings were widely distributed among contestants. Jno. Garbouse & Sons, Highfield, had almost all the Shires, their old rivals, Porter Bros., of Toronto, being generally ruled. In beef cattle the show assumed an international aspect, a couple of United States herds being present.

## CATTLE

Canadians get a bad set back in the Shorthorn classes. Two United States herds, Anoka Farms, Waukesha, Wis., and Carper, of Mansfield, Ohio, captured every championship, and the majority of the red ribbons in the sections in which they competed. Their success, however, will be but a spur to the Canadian breeders. Kyle Bros., Drumbo; Kerr & Davis, Amos; F. A. Watt, Elora; and George Amos & Sons, Moffatt, and several others.

Hereford were shown most numerous by O. Clifford, Oshawa; Mrs. W. A. Hunter & Son, The Maple, Henry Reed, Mimosa, and Jas. Pappas Tyroconnell, Jas. Bowman, and Jas. Thos. Broadfoot, Ferguson, and Jas. Lowe, Elora, contested the Angus classes. Col. McCrae's Gallows, as usual, were also.

## SHEEP AND SWINE

Sheep men had an unusually good opportunity of displaying their wares last week. During the summer the best flocks are gathered over many (Continued on page 13)

## B-L-K Milkers Save Money

The greater advantage of Burrell-Laurence-Kennedy Machine Milking 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-L-K method, as one customer puts it, "has got hand milking beat by a mile" no matter what way you look at it.

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It is impossible for us to tell you more this week, about the B-L-K and what it can do for you in the way of saving labor, money, etc., but if you drop us a card we'll gladly send you literature giving full details. Get your card and pen now, before the matter slips your memory.

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XMAS AND BREEDERS NUMBER**

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O. W. MORSON, one of the best known poultrymen in Indiana, says—"I have heartily recommended INTERNATIONAL POULTRY FOOD, as I have tested it on my hens. They laid eggs all winter. No one around here did as well with their poultry, and my results were caused by INTERNATIONAL POULTRY FOOD."

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# FARM AND DAIRY & RURAL HOME

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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.

Is 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 address of President W. H. Dempsey. "The crop in production 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 over-crop 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.

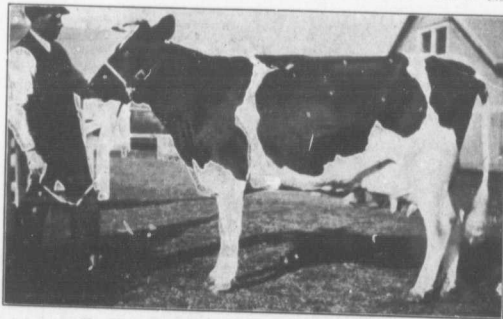
### PRODUCE FANCY VARIETIES

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 instructed 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."

### PEACH 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 win honors at Toronto by two distinctly different methods, on conformation and by proving their ability as producers. The winner by the first test appears on the front cover of Farm and Dairy this week. Herewith may be seen Madam B. 3rd Alma Ltd. champion of the dairy test. She produced 213 lbs. of 55 per cent milk in the three days. She is owned by W. P. Walker, Manchester, Ont.

—Photo by an editor of Farm and Dairy.

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 well as 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

Continued on page 18

**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 at \$4 .....\$12.00
- 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 20¢ per cwt..... 12.00
- Transportation or freight on one ton of grain at 17¢ per cwt. .... 8.40
- 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 of its cost.

**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:

**CRIMPS 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

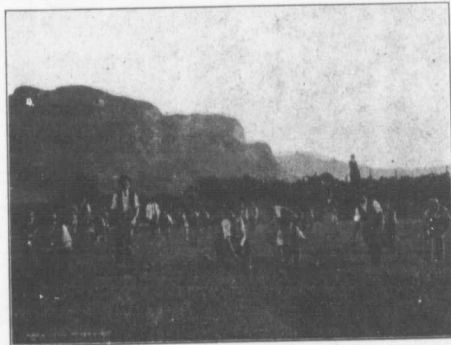
the cream has sometimes been kept three to four days in the warmest weather. This tank was built at a cost of only \$14. Another proof of its satisfying qualities may be found in the fact that Mr. James Anderson, treasurer of the E. O. Dairymen's Association, asked Mr. Tummon to build one for him, which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

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



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 day. 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 3/4 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 are put on three feet apart on the silo, and one



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 vineyards. A modern "Fied Piper of Hamelin," Dr. Danvers of the Pasteur Institute of Paris, came to their assistance, and under his direction several tons of crushed oats, impregnated with a commercial poison, Danysin Virus, were distributed in the method suggested in the picture. The operations have proved remarkably successful. It is prompt measures like this that ensure success in fighting all pests in the orchard 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 of corn.

**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 'tice 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 common 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 canvas.

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 Experiment Station, 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 after 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 grain.

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)

**T**HERE is a plan for the International Contest at Colton, Col. The White Wyandotte, heavily as it is but two eggs in the first incenssors of the good year well in the lished tied among the White Leghore Moore with a The Canada get going the year the The latter produces this time double colony laid 681 eggs or 15 hen pens sprinkling of the hen pens white leghorns eggs against hens laid 807

The chief to English White from Carforth for egg production eggs these five the year each, eggs. They s week and from in the pen to 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 m Missouri conte with two eggs below four a seventh week She laid 10 eggs the contest. N a day and for twice, as indic her egg laying "Baroness I the best pair



The White Wyandotte from the same farm



THERE 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. Yost's, Sayre, Pa., white Leghorns, which won last year with 1,071 eggs against Beulah Farm's 1,009; 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 then 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 292 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 60th 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.

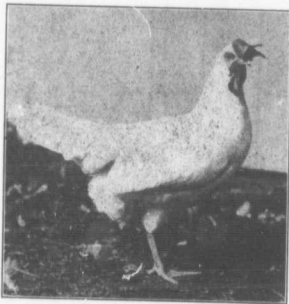
"Baroness IV" and a sister in the pen made up the best pair of layers in the contest with 544



The Type of Double Colony House Used in the Contest

eggs their joint production. The sister was third among individuals with 292 eggs for 19 months.

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—292 eggs in 365 days. She is owned by Thos. Barron, Catforth, England, who sent her, with four other White Leghorns, to compete in the International Egg Laying Contest at Storrs, Connecticut.

the contest, with a total of 1,107, and in this pen was the bird which took fourth place among individuals with 256 eggs. Last year's best was but 264, 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 belonged to England, as the pen entered by O. A. Foster, Santa Cruz, Cal., was selected from the Baron strair of White Leghorns. One of these birds came in fifth with a record of 283.

#### BEST AMERICAN RECORDS

The best American bird, which was second to "Baroness 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

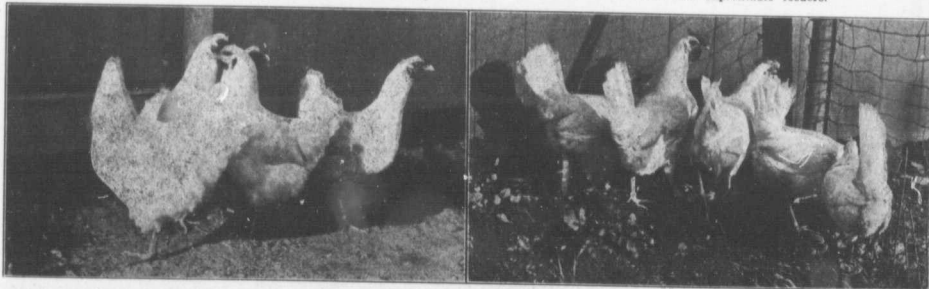
eggs. They were first in the monthly totals in April, May, July and August, and tied with Barron's Leghorns for third in June. Barron's birds figured in the three monthly prize winners six times, but were first only in November.

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 1,000, and a pen of White Leghorns from Frank Toulmin, Burnley, Eng., in seventh, with 984—and the Foster pen finished fifth.

In all 87 birds laid 200 eggs or better. The total egg production for the 600 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 108.6, but reduced to varieties the White Plymouth Rocks did best, with 1,733, and the White Leghorns came next with 170.8, and White Wyandottes next with 169.9.

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 test 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 Poultrymen of Canada and England  
The White Wyandottes to the left were bred by McLeod Bros., Wentworth Co., Ont., and tied for tenth place among the 100 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 Cam, Houghton, England, that came second in total production with 1,107 eggs for the five pullets in one year.

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## Toronto Dairy Test

There were no new public test records made in connection with the dairy test at the National Live Stock Show. Almost without exception among all the 60 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. Even under slightly unfavorable conditions, however, the records made were creditable to the respective breeders and breeders. The high cow was a pure-bred Holstein, Madam B.

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 Ayrshires and ninth and tenth again by Holsteins. Full results 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 index of merit than show ring placings. Dairy tests are growing in favor 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 them.

## Ayrshires Out in Force

There were 91 representatives of the Ayrshire breed entered in the breeding class at the National Live Stock and Dairy Show. There were

## The Dairy Test at the National Exhibition

HOLSTEINS—Cows, 4 Years and Over.		Lbs	%	Total
		milk	fat.	fat. points
1—Madam B 3rd Alma 2nd—W. F. Walker, Manchester, Ont.	233.3	3.5	241.50	
2—Netherland Schaly—W. J. Biggar, & Sons, Brampton	197.5	3.6	227.61	
3—Ladoga, Maline's Yemassee—A. E. Hulet, Norwich	197.5	3.6	227.61	
4—Queen Noisy—Lennear & Bellert, Bright	196.2	3.7	225.87	
5—Madam B 3rd Princess De—W. F. Walker, Manchester, Ont.	219	3	200.25	
<b>Cow, 3 Mos., Under 48 Mos.</b>				
1—Nettie Abbecher—E. H. Haley, Springford	166.6	3.9	207.28	
2—Jemima Boucher—A. E. Hulet, Norwich	145.5	3.5	157.53	
<b>Heifer, Under 36 Mos.</b>				
1—Grace Colantha Pouch—M. H. Haley, Springford	142.7	3.8	173.77	
2—Corea Fairmount Horatia—M. H. Haley, Springford	140.8	3.2	160.67	
3—Lady Quella, De Sol—Lennear & Bellert, Bright	139.9	3.9	151.13	
4—Aggie Portella—M. H. Haley, Springford	137.7	3.7	152.87	
5—Grace Payne of Ontario—M. H. Haley, Springford	133	3.3	134.92	
<b>JERSEYS—Cows, 36 Mos. and Under 48 Mos.</b>				
1—Brampton Wonder Beauty—B. H. Bull & Son, Brampton	107.7	4.4	156.33	
2—Brampton Caritas—B. H. Bull & Son, Brampton	95.3	4.3	132.26	
3—Brampton Lady Alice—B. H. Bull & Son, Brampton	93.7	4.3	132.26	
<b>Heifer, Under 36 Mos.</b>				
1—Brampton Bright Lillian—B. H. Bull & Son, Brampton	97.4	4.7	141.22	
2—Molena's Best—J. B. Cowles & Sons, York	88.4	4.9	140.66	
3—Brampton Bright Kathleen—B. H. Bull & Son, Brampton	70.9	6.8	127.67	
4—Brampton Bright Betty—B. H. Bull & Son, Brampton	69.3	4.3	126.87	
5—Brampton Dulcie—B. H. Bull & Son, Brampton	59.2	4.4	132.66	
<b>Cow, 48 Mos. and Over.</b>				
1—Lida—J. B. Cowles & Sons, York	85.7	5.6	140.59	
<b>AYRSHIRES—Cows, 48 Mos. and Over.</b>				
1—Briery 2nd of Springbank—A. S. Turner & Sons, Ryckman's Cornery	188.8	3.4	211.45	
2—Jennie—A. S. Turner & Sons, Ryckman's Cornery	176.3	3.7	205.64	
3—Dewdon of Menie—Wm. Stewart & Alex. Hume & Co., Menie	130.1	3.6	144.64	
4—Clerland Kate 2nd—Alex. Hume & Co., Menie	129.5	3.5	145.17	
<b>Cow, 36 Mos. and Under 48 Mos.</b>				
1—White Lass—J. L. Stansell, Stratfordville	134.9	4.5	192.96	
2—Betty Brown—J. L. Stansell, Stratfordville	135.5	4.4	178.08	
3—Dairymaid—N. Dymont, Dundas	121.5	3.9	141.99	
<b>Heifers, Under 36 Mos.</b>				
1—Fair—N. Dymont, Dundas	110.7	4	141.96	
2—Spicy Lass—Alex. Hume & Co., Menie	106.7	3.6	125.60	
3—Lassie—Frank H. Harris, Mt. Elgin	96.8	3.7	121.93	
4—Whitell White Rose—A. S. Turner & Sons, Ryckman's Cornery	87.3	4.1	113.67	
5—Hunehaugh Rose—Alex. Hume & Co., Menie	87.3	4.1	113.67	
<b>GRADES.</b>				
1—Willis Bros., Pine Grove	227.5	2.7	212.92	

3rd Alma 2nd, owned by W. F. Walker, Manchester, Ont. Her production of milk 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.

Briery 2nd of Springbank, well-known to every Ayrshire lover as a one time world's champion milk and fat producer, sustained her reputation by standing 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 the head of her section when judged for conformation: "Good type and producing ability combined," as her owner, J. L. Stansell, put it. Two herds of Jerseys were represented.

The following scale of points was used in making the awards: 25 points for each pound of fat; three points for each pound of solids not fat; one each pound of solids in milk after point for each 10 days in milk after the first 30 days, limit 10 points. The results of the test may be summarized

only 66 at the summer fair on the same grounds. There were only two exhibitors short of a dozen at the fair last week. There were but three herds in competition in the summer. These figures show how well the Ayrshire men are patronizing the new show.

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 cattle entered in the breeding classes as well as in the dairy test. Notable among these were N. Dymont of Dundas and Wm. Thorn of Lyndock. Other herds represented were those of the veteran exhibitor Wm. Stewart and of A. S. Turner & Sons, Ryckman's Corners, H. C. Hamill, Box Grove, Frank H. Harris, Mt. Elgin, Jas. Begg & Sons, St. Thomas, B. Ross, Stratfordville, and J. L. Stansell, Stratfordville. All the herds, it will be noted, are from Ontario.

Competition in every class was of the keenest. None of these breeders are show type specialists; therefore the top animals in many sections were



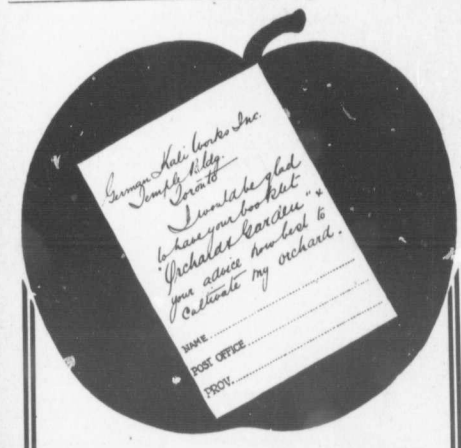
This Ayrshire cow, Clerkland Kate, is the Toronto best cow in the show.

not as nice to look at as many other cows at many other shows, however, a milk of great proportion and performance; in fact, the stuff was from the stock. In one winner stood at test.

The special Canadian Ayrshire exhibition for cows the entries to be in and record class. The basis of total of scores one point added for fat produced entry to R.O.P. of Springbank 100.25; 2nd, St. Menie, 98.64; 3rd, Lass of Troutmen's Lassic. Another special new departure in the show was for heifers whose dams were here. The award was given to the winner, Harris and Sons.

NOTES

Lesnessock Forest is the Ayrshire mascot.



## MR. ORCHARDMAN, USE THIS COUPON—NOW!

A decision now as to the proper methods of cultivating and fertilizing your orchard, will mean dollars and cents to YOU next season.

NOW—after harvest—is the best time to apply fertilizers, viz.: POTASH and Phosphoric Acid. This because the plant food in these materials by the action of Winter cold and Spring thaws will make the plant foods completely available by the time the sap flows in the spring.

You need have no fear of loss by leaching.

In the world-famed Annapolis Valley, the customary practice is to apply 600 lbs. Bone Meal, (furnishing the Phosphoric Acid and Nitrogen), and 300 lbs. Muriate of POTASH per acre, in the fall. If you can't get Bone Meal, apply 400 to 600 lbs. per acre of Acid Phosphate or Basic Slag. The Nitrogen is supplied by plowing under clover or leguminous plants, or by applying Nitrate of Soda in the Spring.

If you prefer a factory-mixed fertilizer, be sure and get one containing at least 10 per cent. of POTASH.

The present high price for apples should impress you with the importance of improving the quality and increasing your crop. It is the best quality of fruit that demands the best prices.

If you want to learn more about cultivating and fertilizing orchards, our Scientific Bureau will be glad to advise you fully. This Bureau is composed of the very best Agricultural Experts in Canada. This advice is scientifically and agriculturally correct, and it is good.

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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TEMPLE BUILDING TORONTO



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Do you want to make more money? Then start, RIGHT NOW, to feed Pratts to your horses, cows, sheep and hogs. Pratts CAN'T hurt them, because it is NOT a stimulant but a mild, natural tonic and health regulator. Every ounce of feed is converted into rich, red blood and firm, solid flesh with the aid of Pratts.

**"Your Money Back If It Fails."**

Order a pair TO-DAY.

At your dealer's, \$3.50 per 35-lb. pail; also in packages at 50c., 50c. and \$1.98.

**PRATT'S FOOD CO.**  
of Canada, Limited,  
TORONTO. 84



## The Call of the North

Do you know of the many advantages that New Ontario, with its Millions of Fertile Acres, offers to the prospective settler? Do you know that obtainable free and at a nominal cost are already producing grain and vegetables second to none in the world?

For literature descriptive of this great territory, and for information as to terms, home-stead regulations, settlers' rates, etc., write to  
**H. A. MACDONELL,**  
Director of Colonization,  
Parliament Buildings,  
Toronto, Ontario

## Cream Wanted

Highest prices—unlimited markets  
Toronto consumes daily the milk and cream from over 14,000 cows and the butter from over 78,000 cows. We want your cream and your neighbor's. Write

**Toronto Creamery Co., Ltd.**  
TORONTO

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We give thorough and practical instruction on all kinds of Gas and Gasoline Engines—Motor, Stationary and Portable—for Farm or Factory use for automobiles, motor boats. (Course of 15 Shopwork Lessons and 8 Driving Lessons.)  
Write today for Illustrated Booklet and full particulars.

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I'd driven had work—just "cut it up"—and it costs but a trifle to keep my 1 1/2 H.P. "hustle" going on gasoline. Do you know your perfect speed because I am one of the fastest!

**GILSON** *Speed After Oil*

Engine—the line that exactly suits every form need with a high speed engine at a low price. It will pay to write for full particulars of Gilson "Joos Like Yours" Engine. 1 1/2 H.P.

**\$47.50**  
Gilson Mfg. Co., Ltd. 100 York St., Toronto, Canada

**Steel Troughs and Cookers**

Wooden troughs and utensils are unsanitary and likely to leak. Our steel tanks and troughs, guaranteed for 10 years, are self-supporting and made of finest quality galvanized steel.

**SQUARE STEEL WATER TROUGH (Fig. 1)** will not rust or leak, and is strong, clean and sanitary. Freezing will not damage it. Thoroughly riveted, soldered and braided.

**STEEL FEED COOKER (Fig. 2)** sits right over the fire and is very easy on fuel. Made in same style as our Maple Evaporator. A necessity on every farm.

**STEEL TROUGH (Fig. 3)** insures running water for your winter stock. Simple construction. Nothing to get out of order. Sold in lengths easily bolted together.

**STEEL HOG TROUGH (Fig. 4)** soldered to prevent leakage. Heavy galvanized steel specially imported. Heavy and durable.

Above are a few of our well-known steel tank and trough specialties. You will be interested in fully descriptive catalog. Send for YOUR copy.

**THE Steel Trough & Machine Co., Ltd.**  
No. 135 James St., TWEED, Ont.

## Poultry at the National

How will it compare with Guelph? This was the first question an editor of Farm and Dairy was asked after a visit to the poultry department of 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 their exhibition so, naturally, poultry of many varieties, how they succeeded. 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 a few hundred short. In the estimation of several good poultry judges the quality throughout did not reach the high standard of uniformly characteristic of Guelph classes. 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 particularly well represented. The utility fowl were there in greatest numbers, and all sections of Ontario were well represented. The showing, however, was not national in character.

A PEN WORTH \$1,000

A pen of white Leghorns that attracted much attention were the Australian bird breeders that won first in the International Egg Laying Competition conducted by the British Columbia Government recently. Mr. F. Bradley, who owns these six birds, values them at \$1,000. A good price for "just hens!"

Perhaps the finest poultry exhibit of an educational character ever before seen had particular well regarded by the Dominion Department of Agriculture, with "A. Brown, B.S.A., in charge. The candling of eggs, a subject much discussed since the produce dealers have adopted the practice to everyone by a candling demonstration.

"Really maps" were made to tell more vividly than dry figures, even could just have adopted the practice. For instance, what is an egg circle? A really map showed a country district dotted with farm homes and an egg 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

The right and the wrong ways of marketing eggs were similarly illustrated. To one side was a very map showing a farm home in the background with a convenient strawstack for "stolen" nests and the development of bad eggs. At store of the consumer they are delayed, at the open egg on the table before him.

"The right way" had the farm home, the merchant, the railway depot, the dealers and the consumers, but all abuses done away with and a happy smile on the face of the consumer. The display was well calculated to interest first and then educate. A finishing point and one very gratifying to poultry men showed a pile of bright new coppers that looked 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 other staple farm crops. Eggs, \$22,175,000; corn, \$17,510,800; barley, \$14,600,000; fruit \$11,600,000.

## HORTICULTURE

### The Fruit, Flower and Vegetable Show

Ontario's Horticultural Show demonstrates also the efficacy of advice. The last season of many visitors who were drawn to the Horticultural and expected to see the reflected in the exhibition. But not as well up to an white it was evident



### Fruit, Flower and Vegetable Show

Never before have products to advance the Ontario Horticultural Show

it had taken enough good fruit was of good size, from blenheim. It that in the previous wet weather favour of all fungus diseases less only clean for Horticultural Show

Ontario's Fruit and more a exhibition. Last entries of 300 box 100 box entries; a show that Ontario to appreciate the package.

People who have far excelled that the flower department in show, both in quality transportation but National Exhibition commodious enough lists plenty of room

### Railway Passengers and Guelph Winter

GENERAL From stations in Sharbot Lake, near west of Azilda, he may purchase for single fare (with for ticket, 25 cent 9th to 11th, 1913, return up to and 13th, 1913.

JUDGES AND From all stations of and including St. Marie, St. Catharines, on surrender of judges' and exhibited by R. W. W. exhibition tickets and round trip tickets for minimum charge for from December 31st. Return limit Decem



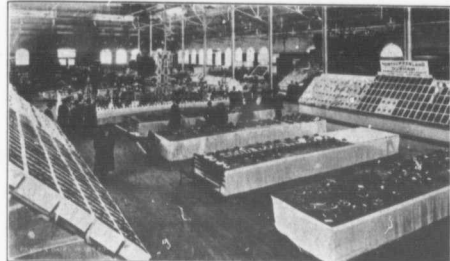
## HORTICULTURE

### The Fruit, Flower and Honey Show

Ontario's Horticultural Exhibition demonstrates above all other things the efficacy of advanced orchard practice. The last season has been one of severe drought and short crops. Many visitors to the fair last week— which by the way has been incorporated with the National Live Stock, Horticultural and Dairy Show—expected to see the unfavorable season reflected in the quality of fruit on exhibition. But not so. The standard was well up to any previous year and while it was evident in some cases that

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

**VEGETABLES SHOW IMPROVEMENT**  
Vegetable growers did themselves credit, their exhibits being a decided advance on those of any previous year. Onions, cabbages, potatoes, and all other field vegetables, were shown in profusion. Some of the men who did 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 Ontario horticultural products to advantage as in the Transportation Building on the grounds of the Canadian National Exhibition last week. The illustration herewith will give an idea of how well fruit grows, florists and it had taken much picking to get enough good fruit, which was shown of good size, coloring, and free from blemish. It will be remembered that in the previous year continual wet weather favored the development of all fungus diseases, but nevertheless only clean fruit was seen at the Horticultural Show.

Ontario's Fruit Show is becoming more and more a boxed apple show. Eight years ago only 11 boxes were on 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 exceeded that of the New York show, both in quality and beauty. The transportation building on the Canadian National Exhibition grounds, was commodious enough to give the florists plenty of room to arrange their

### Railway Passenger Rates to the Guelph Winter Fair, 1913

#### GENERAL PUBLIC

From stations in Ontario, Kingston, Sharbot Lake, Renfrew and West, but not west of Azilda, the general public 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.

#### JUDGES 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' certificates, signed 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 9th to 12th inclusive. Return limit December 16th, 1913.

had such an opportunity to show their products in the Transportation Building on the grounds of the Canadian National Exhibition last week. The illustration herewith will give an idea of how well fruit grows, florists and

had such an opportunity to show their products in the Transportation Building on the grounds of the Canadian National Exhibition last week. The illustration herewith will give an idea of how well fruit grows, florists and

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#### THE PEEL EXHIBIT

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 before. It consisted of a map of Peel county with every township laid out in apples and potatoes of varying color. Every creek of any size in the county was indicated by tinsel paper, every railroad was there on a miniature scale. Even the improved highways and hydro-electric lines were worked into the map, while in the centre of the county, at Brampton, were 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 exhibit.

The Northumberland and Durham Fruit Growers' Association and Halton county each had an exhibit of 300 boxes of apples, the first Spys, the latter Baldwin's. The Spys were of somewhat better quality and likewise 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)



### Some Facts You Should Know About the Dillon Litter Carrier

It is the Strongest, most Convenient and Cheapest on the American Market.

On account of using the Best Material it costs us more to build it, and yet, we are offering our Guaranteed Carrier at \$18.00, Freight prepaid to your nearest station. Track and Fixtures correspondingly low and about 25% CHEAPER than other makers.

How is it?—Because we have NO MIDDLEMEN.

We sign the above statement and are prepared to back it up.

*R. Willow & Son,*

150 Mill Street, OSHAWA, Ont.

Write us for particulars and for our Book on Clean Stables

## THIS TEA SET IS INTENDED FOR YOU



#### ACTUAL PHOTO OF SET

THIS beautiful Tea Set is semi-porcelain, nicely shaped and decorated with roses in the new design. The set consists of 12 cups and saucers, 12 tea plates, 2 cake plates, and 1 cream jug and slop bowl; 40 pieces in all.

You can have one for the expenditure of only a little effort. Farm and Dairy has arranged with one of Canada's leading wholesale china firms for a large number of these sets for distribution among our women readers. This enables us to make this exceptional offer.

Every woman reader of Farm and Dairy can have one of these sets by sending us Four New Subscriptions to

FARM AND DAIRY — PETERBORO



**Federal Aid for Highways**

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

**AD. TALK**  
CXVII

**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 worth the effort of fixing up one's own advertisements.

How would you like to write up an ad. for a wheelbarrow—just a common, ordinary, uninteresting, everyday wheelbarrow. That was the task a young advertising manager was once set at 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:

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

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

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

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 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—the natural and stick to the facts (make sure of this). You will find it will pave the way and be a strong recommendation for future sales if your ad. sparkles 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.

Then, too, your advertisement will carry greater weight to readers if it is found in a medium in which each and every advertisement has your respect and confidence, for any advertisement 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 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. Learn of the whereabouts 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.

Why should not a Federal Government that spends \$5,000,000 on the Trent Valley Canal, or votes a million dollars for the Newmarket Canal, both of which works lie wholly within the province of Ontario, have as good a right to set aside a sum of money to assist in the construction of provincial highways? The same argument could be used justly in the case of federal grants to provincial railways or railroads built by private corporations lying entirely within the bounds of a province.

Two reasons come to my mind as large arguments for federal aid to our public 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 so voted, following the practice in European countries, could not be used for better purposes than the construction and maintenance of such leading roads as might be considered military highways.

I am not advancing the opinion that it is necessary for Canada to spend large sums of money 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 supplies the motor vehicle has come into general use. What is most important then is to see that roads are so constructed that in the event of having to move troops at any time of the year the highways could be used for this purpose.

**A PLACE FOR CUSTOMERS' REVENUE**

Second—The Federal Government are now in receipt of large sums of money collected as duties on motor cars, accessories, gasoline, and so forth. Is it fair that they should receive 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 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 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 amounts to \$3,000,000 per annum.

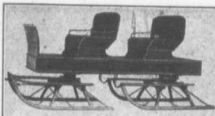
In the county of Peel many thousands of dollars have been spent in recent years from moneys contributed by the province, the county, and the townships in constructing highways, but no provision has been made for their maintenance, the farmers knowing that the rapid deterioration of these roads is due 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 Canada," would do well to secure it. It gives complete information on crop rotations, dairy barns, breeding dairy cattle, and feeding, care and management of milk cows. In short, it is an encyclopaedia of information for the dairy farmer.

**DE LAVAL**  
**CREAM**  
**SEPARATORS**

SKIM CLEANEST  
TURN EASIEST  
ARE SIMPLEST  
MOST SANGINE  
LAST LONGEST

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



**DON'T DECIDE**  
On Your Sleigh  
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**Ontario Provincial Winter Fair**

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

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*It starts without cranking*

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.

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The **DAVIES Co., Ltd.** Established 1854 TORONTO, ONT.

**Is Orchard Planning Being Overdone in Ontario?**

(Continued from page 3)  
second address on "Apple Scab." He called attention to the susceptibility of snow and McIntosh, and pointed out that blight, Dutch scab and Golden Russet were rarely attacked. As a general rule the worst attacks of scab can be warded off by proper spraying.

This address will be given in full in a future issue of Farm and Dairy.

**JAUNDICE WITH WILDOES**  
A. V. Stuenkelmarch of the United States Department of Agriculture, was slated to give an address on "Freezing of fruit," but failed to turn up. His paper, however, was read by Mr. K. S. Graham of the U.S.A. The writer pointed out that pre-cooling was of great importance, and that for the conservation of fruit in good condition, was only most valuable when it went into hands with pre-cooling, he deduced as the rapid reduction in temperature of fruit immediately after picking and before shipping. As an example of how carefully fruit may be handled, Mr. Stuenkelmarch made mention of the practice of some western growers of wearing soft gloves when handling their apples.

An intensely practical and interesting address was that of K. S. Duncan, D.D., 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 regeneration of these old orchards and then compared profits both before and after the treatment. On a 2½ acre orchard on light, sandy soil, receipts for the three years had been \$300, \$200 and \$100. In the succeeding three years receipts from the same orchard were \$750, \$800, \$850, 80, and the percentage of No. 1 apples had been increased from 30 to 90 per cent. to 80.5 to 87.6 per cent., and so on through all of the orchards. Good pruning, cultivation and fertilizing had greatly increased the profits.

Mr. F. M. Clement described the plum industry as a hit and miss business, but gave it his best when that it, then proper varieties were planted good profits could be made from the plum orchard. Mrs. L. A. Hamilton, of Lorne Park, told of how she had solved the problem of help at picking time. Mr. S. C. Parker of Berwick, N.S., told of the organization and the success of the great cooperative marketing society of the Nova Scotia fruit growers.

Prof. Crow, who took the place of Mr. W. H. Bunting in a discussion of "Strawberry Culture," strongly advised overhead irrigation. All of these addresses will be given more fully in future issues of Farm and Dairy.

**THE CHICKEN RESOLUTIONS**  
The convention this year was rather bare of business and the only comparatively important part, the only one of a business character being those dealing with the transportation problem already referred to. Aside 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.

**FINANCIAL STATEMENT**  
The financial statement showed total receipts of \$5,583.20, with a balance on hand of \$1,674.43. Directors were elected for the following year as follows: K. B. Whyte, Ottawa; G. W. Beaven, Trenton; P. S. Wallbridge, Belleville; Elmer Lick, Oshawa; W. J. Bragg, Bowmanville; H. G. Foster, Burlington; R. H. Dewar, R. Thompson, St. Catharines; George

Schryer, D. Grant; J. Malouche; C. W. Gurney, Paris; and W. J. Saunders, East Lynne. Prof. J. W. Crow continues 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 show 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 representatives were appointed: F. S. Wallbridge, Belleville; W. J. Bragg, Trenton; G. W. Grierston, Oshawa; A. Onslow, Niagara-on-the-Lake; C. W. Gurney, Paris; A. E. Kimmins, Winona; A. W. Beart, E. 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 250 boxes of McIntosh apples made by the Lawrence Valley Fruit Growers' Association. Some of the fruit, however, was off shape and a few of the boxes did not show the product, although of more value commercially, had to take second place to a 100-box lot of Baldwins shown by the Northumberland and Durham Fruit Growers' Association. Third place in this section went to Mr. R. C. Ferguson.

**A RESULT OF EDUCATION**  
An exhibit of special educational value was that of the demonstration orchard 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 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 much evidence that education is still needed in packing. In single boxes of Spys for instance the very best apples exhibited failed to go up to last place because the box was only two-thirds full. The same exhibitor made the same mistake in other classes as well. Perhaps the most common mistake of all was in having the boxes just slightly low. Fruit packed in such a manner lacks bigge, does not carry well and does not present so desirable an appearance. Prominent among the exhibits in the box section were those of Northumberland and Durham Fruit Growers' Association, W. L. Hamilton, Collingwood, R. C. Ferguson, Thornbury, Oakville Fruit Growers' Association, Henry C. Bohm, Orono, W. H. Bunting, St. Catharines, P. C. Dempsey, Trenton, Brant County Fruit Growers' Association, and several 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, and the exhibitors being prominent were successful with the box pack.

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

**Holsteins Make**

Thirty-three year olds, the statement is not it is very nearly have changed. One of our most popular white fanciers as breed. Just how ours they now are from the fact that widely distant compete for honor Show in Toronto. eral classes the en for one dozen, and had his hands full ners. Holsteins presentation of breeds.

The quality was to be an advance Canadian National higher uniformity (ticularly marked. to on these classes, and parties of the classes not in evidence animals were of more quality same, and with have stood much classes in particular advance on the fact. Of course that should not have

**HEADS UP**  
Many of the old also some that been seen in Toronto. Among the largest to fair goes, with which, M. H. Hall, sunnyside farm, Elias Snyder, but the several new Dairy Farm. New the longest string. In only they left out of Dymont, Dundas gave the championship. This championship also fell to Mr. Wm. Watson, ller and Bollett, Bering and Sons, and credit to Dennis, Newmarket. It bodes well the breed to see coming along.

**INDIVIDUALS**  
We would like of individuals that lar attention, but is difficult to stand." The very high class one to have a favor. The aged one of fine first in sen, a low down, bred by Hulet, at City Dairy Farm. is responsible for stants, can certain ones.

The two-year-old champion male was one type. Like the length with depth, but he was a tr ground, and very though and well position. He is a herd of Wm. Wat presented a prob the first three W. The first in by Mr. Belle Fay of M. H. Haley. little advantage with more fitting greater advantage, ing that he was Haley fed well Leusler and Blos champion in class. First place in 1

**DISTRICT DAIRY MEETINGS, 1913**

County.	Place for meeting.	Date.
Prescott—Vankeek Hill	Nov. 23, 24 p.m.	
Glengarry—Alexandria	Nov. 29, 30 p.m.	
Stormont—Wales	Dec. 1, 2, 30 p.m.	
Grenville—Kempville	Dec. 2, 2, 30 p.m.	
Dundas—Mountain	Dec. 3, 2, 30 p.m.	
Leamington—Smith's Falls	Dec. 4, 2, 30 p.m.	
Leamington—Smith's Falls	Dec. 5, 2, 30 p.m.	
Leamington—Smith's Falls	Dec. 6, 2, 30 p.m.	
Leamington—Smith's Falls	Dec. 7, 2, 30 p.m.	
Leamington—Smith's Falls	Dec. 8, 2, 30 p.m.	
Leamington—Smith's Falls	Dec. 9, 2, 30 p.m.	
Leamington—Smith's Falls	Dec. 10, 2, 30 p.m.	
Leamington—Smith's Falls	Dec. 11, 2, 30 p.m.	
Leamington—Smith's Falls	Dec. 12, 2, 30 p.m.	
Leamington—Smith's Falls	Dec. 13, 2, 30 p.m.	
Leamington—Smith's Falls	Dec. 14, 2, 30 p.m.	
Leamington—Smith's Falls	Dec. 15, 2, 30 p.m.	
Leamington—Smith's Falls	Dec. 16, 2, 30 p.m.	
Leamington—Smith's Falls	Dec. 17, 2, 30 p.m.	



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WRITE FOR FULL PARTICULARS

**THE BERLIN CREAMERY CO.**  
BERLIN, CANADA



Holsteins Make Great Showing

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 from 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. Holsteins had the largest representation of any of the dairy breeds.

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" so often characteristic of Holstein classes, and particularly noticeable in some of the classes last summer, were not in evidence last week. A few animals were very poorly fitted, but the quality was generally just the same, and with good fitting would have stood much higher. The bull classes in particular were a distinct advance on those exhibited last summer. Of course there were a few that should not have been there.

HERDS REPRESENTED 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 to fair goers, were A. E. Hulet, Norwich, M. H. Haley, Springfield, Sir H. M. Bellatt, Walmer Road Hill, Sunnybrook Farm, Eglington, and Elias Snyder, Burgessville. Among the several new exhibitors the City Dairy Farm, New Lowell, Ont., had the longest string of animals that was a good string. In only a few classes were they left out of the money. Hiram Dymont, Dundas, also new to the game, captured the female grand champion grand chamale grand championship also fell to a new exhibitor, Mr. Wm. Watson, Pine Grove, Leuzler 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 so many new men coming along.

INDIVIDUAL MENTION We would like to speak extensively of individuals that attracted particular attention, but space forbids. It is difficult to say any as "standing." There were too many very high class animals there for any one to have a wide margin in its favor. The aged bull class brought large interest. Lord Cornwallis, Toronto, 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 ones.

The two-year-old winner and grand champion male was of a little different 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 up to his ears with his great position. He is at the head of the herd of Wm. Watson. Yearly bulls presented a problem to the judge. The first three were very uniform. The decision was given in favor of Sir Belle Faine, 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. It is not saying that he was in poor condition; Halsey feed well the year round. Leuzler and Bollert had the junior champion in classy company. First place in females was won by

a dry cow, a very deep bodied animal with well sprung ribs, constitution and indications of doing big things when she freshens. The illustration appearing elsewhere in this issue describes her more accurately than we can. She was shown by Hiram Dymont, 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 trifle thin and inclined to droop at the rump. A feature of the three-year class was that the winner, one of Halsey's, was also first in her class in the dairy test.

Our Holstein friends will pardon a little criticism. Evidently Holstein men 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 production and uniform conformation, commercially speaking, is therefore desirable.

- AWARDS—BULL CLASSES Bull, 3 years and over: 1 and 3, City Dairy Farm—Lord Cornwallis, Timsen and Dutschland Colantha Sir Abbecks; 2, Elias Snyder, Burgessville—Pontiac Hengerveld Classy; 2 years: 1, Wm Watson—Homestead Colantha; 2, Prince Canada; 3, A. E. Hulet—Major Joseph Mercera; 4, Leuzler & Bollert—King; 5, Hiram Dymont; 6, M. H. Halsey—Sir Homewood Fayne. (Continued on page 19)

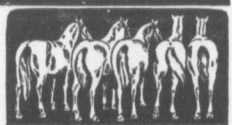
New National Live Stock and Dairy Show off to Good Start

(Continued from page 3) fairs. At winter fairs in the past male animals have been prohibited. Consequently with stocks centralized at Toronto and all classes represented the sheep exhibit was a very superior one. Long and short woolled breeds were about equally represented. In the outdoors the show was entered by E. F. Park, Burford; E. Brien & Sons, Ridgeway, and S. Dolson & Son, Norval Stn. Leicesters were exhibited by H. M. Robinson, Erindale, David Rodger, Drumbo; A. and W. Whitelaw, Guelph, and J. Kelly, Shakespeare. J. and D. J. Campbell, Woodville, Ont.; J. G. Hamner, Burford, John R. Kelly, Woodville, and C. W. Gurney, Paris, had Shropshires. P. Arkell & Sons, Teeswater, were the principal exhibitors of Oxford, and in Southdowns the flocks of J. W. Springstead & Sons, Abingdon, Robert deEwen, Byron and J. J. Lloyd Jones, Burford, were represented. W. E. Wright & Sons, Glanworth, J. Robertson & Sons, Milton and Forster, Park, Oakwood, were on hand with their Dorsets. Other breeds represented were Lincolns, Hampshires and Suffolks.

In the swine divisions Joseph Featherstone & 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, Ridgeway, were most successful. D. Douglas, Mitchell, had almost a monopoly on Tamworth classes, while in Chester Whites, W. E. Wright & Son, Glanworth, and D. DeCoursey, Borthwick, managed the most of the money. 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 improved accommodations, which it is already reported will be provided before the next Canadian National Exhibition, the standard appears strongly to be fair-going public. The fact that the Horticultural Show is held in connection will also add to the attractiveness of Canada's new national fair.



THE CHOICEST SUGAR No choicer or purer sugar can be produced than St. Lawrence Granulated White Pure Cane Sugar. Made from choice selected cane sugar, by the most modern and perfect machinery, it is now offered in three different sizes of grain—each on the choicest quality. St. Lawrence Sugar is packed in 100 lb., 25 lb. and 20 lb. sealed bags, and also in 5 lb. and 2 lb. cartons, and may be had at all first class dealers. Buy it by the bag. ST. LAWRENCE SUGAR REFINERIES LIMITED, MONTREAL. 25-10-13



KEEP THEM WORKING A horse in the field is worth two in the barn. You can't prevent Spavin, Kingbone, Splint, or Curb from putting your horse in the barn but you can prevent these troubles from keeping horses in the barn very long. You can get KENDALL'S SPAVIN CURE at any druggist at \$1 a bottle, 6 for \$5, and Kendall's will cure. Thousands of farmers and horsemen will say so. Our book "Treatment on the horse" free. DR. R. J. KENDALL CO., Kensington Falls, Vt.

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STOP—THINK—200 Acres—in good cultivation; 200 acre land; free gas and \$750 rental therefrom; good buildings; school and post office adjoining farms; telephone; 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 management, organization, mixed farming, stock raising, truck farming and fruit growing. A 1 reference. Apply Farm and Dairy, Box 513, Peterboro, Ont.

Farmers Sons Wanted with knowledge and fair education to work in an office; \$80 a month with advancement; free meals; room and board; branch offices of the association are being established in each state; 1000 members; write for literature. The Veterinary Service Association, Dept. 82, London, Canada.

Blankets at Wholesale Prices

ORDER WHILE THEY LAST Heavy Grey Blankets, 60 x 80, 8 lbs per pair, price \$3.00. Brown Army Blankets, 55 x 76, 6 1/2 lbs per pair, special price, \$2.00. Grey or Brown Blankets, 74 x 86, weight per pair, 5 1/2 lbs, \$2.00. Brown Blankets, 60 x 90, 8 1/2 lbs per pair, \$2.00. Extra Heavy Jute Horse Blankets, thick fleecy lining, light or dark stripes, shaped neck, wide stayons, length 22 or 18 ft. each, \$3.00. Heavy Brown Waterproof Covers, 120x70, flame around breast, \$3.75. An extra good cover. All the above shipped same day as ordered.

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To The TORONTO FAT STOCK SHOW Union Stock Yards TORONTO

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CREAM WANTED

Cheese Factories are Closing for the Season How about your Cream? We will buy your Cream all the year through Returns are made every week Ship your New Laid Eggs to us We pay highest prices for both Cream and Eggs

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## The Upward Look

### Joy

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

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?

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

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 loving Father has created such brightness 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 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 joy, although quieter and more subdued, also depicted there. Wordsworth thinks the very twigs, leaves and trees experience gladness in being alive.

Many think childhood is the happiest time; many do not. How is it

with you? Their sorrows and disappointments loom 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 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 sad, mournful days?

But let us all enjoy all the happiness that we can, and mar it not by thoughts of possible coming disappointment, suffering, sorrow.—I.H.N.

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

Our Woman's Institute is doing good work. The members work harmoniously and I am sure it is proving of great benefit to those who prepare 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, Stormont Co., Ont.

### Helping the Women

The cream separator is one of the few things which specifically alleviate the drudgery of the woman whose lot has been cast on the farm. No better argument can be advanced for the increased sale and extended use of these machines. The man who places a separator on a farm has done something for humanity. In the city, when a housewife has cooked the meals, washed the dishes, and otherwise cared for a little flat with running water, steam heat, and electric lights, her whole duty toward man is done. Whereas, in the country a woman's work is never finished. Give the average farmer's wife only the housework to do, and she would think 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 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—prosperity has opened the purse strings—but there are still opportunities for betterment.

The cream separator 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.

### To Our Women Folk

A Letter from the Circulation Manager of Farm and Dairy

Would you like a nice tea set in your home? They are wonderfully nice to have, when you are entertaining your friends. Because so many of the women readers of Farm and Dairy are interested in having their 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 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 saucers, two cake plates, a cream jug, and a 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 Dairy.

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

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 Inside—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 wadges fade behind busy milk teeth.

At Pie Time—

Use FIVE ROSES.

# Five Roses Flour

Not Bleached



Not Blended





Jersey Cattle at Toronto

Brampton Jerseys at the new National Show, as at many summer shows on the 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 totaled several hundred dollars. But competition was oftentimes keen. J. B. Cowieson & Sons, Queensville, Ont., and W. N. McCaechern & Son, Westhill, Ont., pushed the old-time winners hard, particularly in the male sections, and got some valuable firsts. Mr. Cowieson's entries in particular attracted much favorable attention. Mr. Cowieson has production and conformation for his ideal, and shows Jersey of unusual size and strength, but lacking a little in finish and show type as compared with the herd of B. H. Bell & Son.

It was anticipated that the well-known show herd of David Duncan would be in the ring again after a couple of days' absence, and entries were made, but trouble with hired help prevented their coming. Josh Lawrence, of Westhill, had a few entries and a Thos. Russell, Downsview, one.

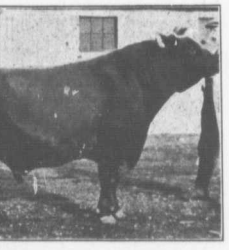
MALE CLASSES The Canadian National champion, Sultan's Raleigh, was the only aged bull shown, and later was declared champion. He is the sire of one of the finest bulls of the breed ever seen in Canada, combining size and finish with conformation and sturdiness. In two-year old bulls Cowieson secured first on a large, strong bull over a smaller, somewhat heavier bull from Brampton. Slight indications of a sag in the back and less desirable rudimentaries on the part of the latter finally decided the judge. W. Hunter, in his placing, Mr. Lawrence was little satisfied with his place on a bull of great substance, but lacking in finish and quality.

In yearling bulls McCaechern repeated his triumph of the summer show with a bull of Brampton breeding, as straight and finished a fellow as one could wish for.

AN ASSESSOR'S COMMENTS An easy winner was Brampton Cowslip Blue Bell, senior grand champion female. This cow may be criticized as a little underized, particularly when standing beside some of the other entries, but she is of perfect type, with fine quality looking, great veining and as breechly udder as one could desire. Third to her in the mature cow class stood a Brampton bred, mottled producing type, but 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 three distinct types. Another worthy competitor was the junior champion, Brampton Stockwell Rose, a special heifer and already doing duty as a producer of Jersey milk. Awards in full follow:

- AWARDS Bull, 3 years and over; 1. Sultan's Raleigh, Bull. 2 years; 1. King Fox of Queensville, Cowieson; 2. Brampton Raleigh Dale, Bull; 3. Erdenheim's Majesty, Josh Lawrence; 4. Raleigh Bush, Bull. Bull, 1 year; 1. B. Stockwell & McCaechern, Bull; 2. Royal Purple, Cowieson; Bull, senior calf; 1 and 2. B. Golden Noble and B. Burns Knight, Bull; 3. Royal Stock, McCaechern.

- Bull, junior calf; 1, 2 and 3. Bull. Senior and grand champion bull; Sultan's Raleigh. Female Awards: Cow, 4 years and over milk; 1, 2 and 3. B. Raleigh Noble, B. Patricia and B. Astoria, Bull; 4. Pontiac's Bell of Hamilton, Lawrence. Cow, 3 years, in milk; 1, 2 and 3. B. Lady Blue, B. Wonder Beauty and B. Carolina, Bull; 4. Helen, McCaechern. 1. Milking Queen's Susanna, Cowieson; 2 and 3. B. Manor Lady and B. Gamage Lane, Bull; 4. B. Stockwell Joy, McCaechern. Heifer, 2 years; 1, 2, 3 and 4. Cowslip Blue Bell, You'll Do Queen, Bright Kathleen and Bright Lass, Bull. Heifer, senior yearling; 1, 2 and 3. B. Golden Ferns Blue, B. Dulcie and B. Fern Heifer, Bull; 4. Queen'sville's Brunette, Cowieson. Heifer, junior yearling; 1, 2 and 3. Sultana Hay, B. Pretty Gumboe and B. Florence B, Bull; 4. Lady Fox, Cowieson. Heifer, senior calf; 1, 3 and 4, Bull; 2, Cowieson. Heifer, junior calf; 1 and 2, Bull; 3, Russell.



Champion Again at the National Show This is Sultan's Raleigh, grand champion Jersey male at the Canadian National Exhibition last summer and again declared grand champion at the new National Live Stock and Dairy show. He is owned by B. H. Bell & Son, Brampton. -Photo by an editor of Farm and Dairy.

- Senior and grand champion female: Brampton Cowslip Blue Bell. Junior champion female: B. Stockwell Rose. Group Awards: graded herd; 1, 2 and 4, Bull; 3, Cowieson. Breeders' herd; 1 and 2, Bull; 3, Cowieson. Four animals, get of one bull; 1, 2, Bull; 3, Cowieson.

The Waxy of a Joy (Continued from page 5)

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 using such a rotation. That may sound exaggerated but it is borne out after our experiments at Ottawa. It is also corroborated by the experiments of the agriculturists at Quebec, and 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 farmers 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.

Box pack of apples is bound to come and the Ontario Department of 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 copy of this bulletin may be had by applying to the Department of Agriculture at Toronto.

HOLSTEINS

KING PONTIAC ARTS CANADA SON OF KINGMASTERS Available Farm offers sons of this great bull: 1. From a 13 1/2 lb. two-year-old daughter of Countess Segin (29.30 lbs. at 3 years), born Mar 1911, 1913. -\$275. 2. Born March 2nd, 1913, from a 21 lb. cow, all her dams having official records. -\$275. 3. Born March 15th, 1913, from a 19 lb. daughter of Homestead Girl Do Kol Saracina -\$150. 4. Born May 19th, from a 11-10 lb. yearling daughter of Prince Hengerveld Pictorie, record of six nearest dams average 27-25 lbs. -\$275. All more white than black, well marked and grown A. C. HARDY, BROCKVILLE, ONT.

Lyndenwood Holsteins

Among the Young Bulls we are now offering is a full brother to Netherland, Fawcett, also having the 2yr-old 30-day butter record. Also a son of this heifer, both fit for service, and some nice Calves nearly fit for service, from high-testing dams. A few Cows and Heifers for sale, either tested or from tested dams. W. J. BAILEY, Farm, Hagerville Station, Naber P.O., Ont.

Lynde Offering

One Yearling Bull—tuberculin tested—3 of his nearest dams average 27 lbs. butter each in 7 days. Two granddaughters—"KING OF THE PONTIACS," one 12 mos. old, from a 20 lb. jr. 2-year-old; another 6 mos. from a 20 lb. 2-year-old grand daughter of Sora Jewel Hengerveld. BROWN BROS. - LYN, ONT.

Anything in Holstein Females

From 1 week to 6 yrs. old, 75 head to choose. SPECIAL OFFER: 10 Heifers rising 2 yrs., bred, and Bulls from 1 to 10 months. My herd bull is Count Hengerveld's Red, No. 10, 6 mos. dam, Sora Jewel, first cow in Canada to make over 30 lbs. butter in 7 days—record 33.4. Sold for \$250. Write me or come and see what we have that you think it would pay you to buy. Wm. HIGGINSON, INKERMAR, ONT.

RIVERVIEW HERD

9 Young Bulls, from 9 to 12 months, sired by King Isabella Walker, whose sister, 3 nearset officially tested dams, 4 sires of his dam, and two sisters of his also average for the eight 30.4 lbs. from R. O. M. jr. 2-year-old. Another 6 mos. from P. J. SALLER, LACHINE RAPIDS, QUE.

Lakeview Holsteins

Bull calves only for sale for the present, sired by Count Hengerveld's Prince Do Kol or from his daughters and sired by Dutchland Colantha Bir Moss. Write for extended pedigrees of these bulls, or come to Bronte and see the herd. Visitors always welcome. E. F. OSLER, BRONTE, ONT.

KING SEGIS WALKER

The greatest transmitting family of the breed, holding the world's records for 111 and 3 generations. I have for sale sons of this bull from high record daughters of Pontiac Korndyke, making the greatest and most valuable combination possible to get in the whole Holstein breed. Photo and pedigree sent on application. 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 this season. Photo and pedigree sent on application. Dr. L. de L. HARWOOD, Proprietor, HET LOO FARM, VAUDREUIL, QUE.

FAIRVIEW FARMS HERD

is the only place on earth that you can secure a young bull that is as 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 sons of PONTIAC KORNDYKE. We can offer you a few fine sons at a very low price. Also sons of the greatest Korndyke bull, DIVING KING, LAG OFFICIAL KORNDYKE ETB. 7545, out of daughters of Pontiac Korndyke with large official records. Write, or come and see the herd. E. H. DOLLAR, HEUVELTON, NEW YORK, NEAR PRESCOTT, ONT.

HOLSTEINS

Allison Stock Farm THE HOME OF SIR LYONS SEGIS

His six first dams average 30.6 lbs. butter in seven days. 1. The first three generations of his dam & sows that average 30 lbs. in seven days. We have sons and daughters from a 19 lb. daughter of Homestead Girl Do Kol Saracina - \$150. 4. Born May 19th, from a 11-10 lb. yearling daughter of Prince Hengerveld Pictorie, record of six nearest dams average 27-25 lbs. - \$275. No. 2-Dam, Netherly Queen Jane, Canadian Record, 12 1/2 lbs. milk in one day, 74 1/2 lbs. milk and 28.87 lbs. butter in seven days. No. 3-Dam, Queen Pictorie of the Pontiacs. This heifer is sired by King of the Pontiacs, is a mother to the title case, 44 1/2 lbs. butter in seven days, 4.9 lbs. milk. We have also a few choice ones from heifers that we did not test last year, but intend to this year. No. 4-Dam, one of our cows with seven-day records, that we imported, and two of them are sired by a bull with a 34 1/2 lb. dam, and the other two by a bull whose dam is A and D Links, Males, seven day record 29.62. King Segis, dam.

Come and see them. We have a new stock plot from ALLISON STOCK FARM CHESTERTVILLE . . . ONT.

Phone

2 or 3 of your friends and neighbors, right now while you are in club in this way, and 3 new subscribers you know will entitle you to one of Farm and Dairy's Pure-Bred Pig

LAKESIDE DAIRY AND STOCK FARM

Present offering, Bull Calves from Record of Performance dam; also a few females. W. F. BELL, BRITANNIA HEIGHTS, ONT. Ottawa Bell Phone.

15,345 lbs. in 1 Year

For a jr. 2-year-old, milked twice per day. She is a daughter of Dutchland Colantha Bir Moss. A pair of 6 mos. from 22 and 23 lbs. 4-year-olds for sale. Both extra show bulls, odd enough for service. Write for pedigrees. LAIDLAW BROS. - AXLMER, ONT.

OXFORD DISTRICT

The Holland of North America. In the place to buy Holsteins of quality. The Third Annual Sale will be held in the city of Woodstock on March 25th, 1914. Full list of breeders in the Oxford District with post office and section addresses sent on application to R. J. KELLY, SECVY, TILLSONBURG, ONT.

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out is not any more than sufficient to pay for 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.

HOLSTEINS MAKE GREAT SHOWING (Continued from page 13)

Bull, 1 year: 1. M. H. Haley—Sir Belle Payne; 2. Sir H. M. Pellatt—Sedia. De Kol; 3. A. E. Hulet, Norwich—Ruben Abbeher, Mercona; 4. Hiram Dryment—Ormsby Deho Echo. Bull, senior calf: 1 and 2. A. E. Hulet—Prince Colanthes Abbeher and Sir Paul Abbeher, Mercona; 3. City Dairy Farm—Potter Tensen De Kol.

Female Awards

Cow, 4 years and over, in milk: 1 and 2. A. E. Hulet, Colanthes, Posh and LaJoda Idaline Veeman; 3. City Dairy Farm—Lady Nell De Kol; 4. W. J. Biggar & Sons, Erie—Netherland Shurling. Cow, 3 years, in milk: 1. M. H. Haley—Sottie Abbeher; 2. Sir H. M. Pellatt—Zennie; 3. Jemina Bonlier. Cow, 3 years and up to in calf, not milking: 1. Hiram Dryment—Cora Countess Echo; 2. Ella Snyder—Oliver Abbeher; 3 and 4. Edgar Drault, Newmarket—Queen De Kol Peer 2nd and Queen De Kol Peer. Heifer, 3 years, in milk: 1. A. E. Hulet—Madam Pauline Canary and Heale Posh of Tyrell; 2 and 3. M. H. Haley—Cores Fairmount Heavie and Angie Fortilla. Heifer, senior yearling: 1 and 2. M. H. Haley—Colantha De Boer and Grace of Oxford; 3. City Dairy Farm—Vaahlia Hazel Tensen; 4. Hiram Dryment—Lady Veeman. Heifer, junior yearling: 1 and 2. M. H. Haley, Springfield—Princess Payne Colan the and Homestead Payne Corrella; 3. Leuzler & Bollert—Canadian Sunny Beauty; 4. Wm. Manning & Sons—Sunny Victoria. Heifer, senior calf: 1, 2 and 3. A. E. Hulet—Lady Pauline, Colanthes, Perfection Mercona and Madam Pauline Canary; 4. City Dairy Farm—Potters Lucy. Heifer, junior calf: 1. M. H. Haley—Rose Payne; 2 and 4. Ella Snyder—Joanling Pontiac Abbeher and Kerona Pontiac Abbeher; 3. A. E. Hulet—Jane Mercona Canary. Senior and Grand Champion female:

Hiram Dryment—Cora Countess Echo. Junior Champion female: M. H. Haley—Colantha De Boer.

Group Awards. Breeders' herd: 1. Haley; 2. Haley; 3. City Dairy Farm; 4. Snyder. Snyder; 4. Dryment.

Four animals, get of one bull: 1. Haley; 2 and 3. Hulet; 4. Snyder.

OUR FARMERS' CLUB

Correspondence Invited

PRINCE EDWARD ISLAND

KINGS CO., P. I.

LOWER MONTAGUE, Nov. 15.—The weather is fair, with little frost yet. All the grain is gathered. Feed will be scarce on the island this winter owing to so much rain being lost during the wet weather. Butter will be scarce. Oats are up to 40c; potatoes, 50c to 40c a bus; turnips, 5c a bus; fable beans, 30c; carrots, 50c; parsnips, 1c a lb; butter, 25c—J. A. D.

ONTARIO

CARLETON CO., ONT.—BRITANNIA, R. R., Nov. 19.—Most of the farmers have finished plowing. Turnips are harvested and are a fair crop. Beef is \$7 for front, hinds at 6; pork, light, \$13.50; heavy, \$12; oats, 40c; wheat, \$1; barley, 60c; eggs, 40c; butter, 30c; potatoes, \$1 to \$1.10 a bag.—J. A. D.

WATERLOO CO., ONT.

WATERLOO, Nov. 18.—The rush of fall plowing is about over, and the mild, open fall weather helped a lot to attain this end. Thrashing is the order of the day, grain runs well. Cattle have been stabled, and with it comes the regular routine of chores. Feeders are being put in at from \$5.50 to \$6.25 ranging in weight from 800 to 1,050 lbs.—C. H. S.

MIDDLESEX CO., ONT.

LAMBETH, Nov. 20.—The worst storm of many years came along on the 20th and with a terrific wind, soon made the stock exposed to it almost unrecognizable, and all were got under cover as soon as possible. We are now having nice weather, and the fall work getting finished up properly. For nearly all farm products, prices are good. Hay, \$15 to 18; butter, 30c; eggs, 40c; pork, \$13. While all kinds of cattle are very high, horses are quiet in price.—J. E. O.

BIG DISPERSION SALE

AT WILLOW GROVE STOCK FARM

WEDNESDAY, DECEMBER 10th, 1913

30 REGISTERED HOLSTEINS

and a few high grades. 14 Cows in milk, 4 promising 2-year-olds, 4 splendid Yearlings, 7 Calves (5 heifers and 2 bulls) second to none.

All are descendants of such noted sires as Pieterig Hengerveld Count De Kol, Pieterig Hengerveld Paul De Kol, Lytle, Colanthes Abbeher, Prince Pauline De Kol, Sir Mechtild Posh, all from high record ancestors. This is an exceptional line of cows and heifers—all heavy producers—bred and kept for profitable milk production. Every animal in the herd bred and raised at "Willow Grove".

Colanthes Butter Baron a promising young sire 23 months old, present herd bull, is in the sale. Dams record, 16,000 lbs. of milk. Sire's side, not far from World's record, second Colanthes 6th Johanna.

Owner retiring—everything goes—well equipped set of Farm Machinery, Horses, etc., sold same day. Farm is easily reached. 3 miles west of Drumbo Lot 21 Con. & Blenheim Township.

All trains, both C.P.R. and G.T.R., met at Drumbo station on morning of sale. Lunch all noon. Send for Catalogue today.

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 Pieterig Hengerveld Count De Kol. Junior Herd Sire, King Segin Pontiac Posh, a son of King Segin Pontiac Alcarita (the \$10,000 bull), and from a 29 1/2 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 calf to them for sale.

No Heifer Calves for sale at any price. GORDON S. GOODERHAM - BEDFORD PARK, ONT.

SUNNYSIDE AYRSHIRES

Imported and Home-Bred. Are of the choicest breeding of good type and have been selected for production. THREE Young Bulls dropped this fall, sired by "Nether Hall Good-time" - 2564 (Imp.), as well as a few females of various ages, for sale. See pedigrees and see. J. W. LOGAN, Howick Station. (Phone in house.) 141

Burnside Ayrshires

Winners in the show ring and dairy tests. Animals of both sexes, imported or Canadian bred, for sale. Long distance phone in house. R. R. NESS - HOWICK, QUE.

THAT BIG SALE

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

BOLLERT & LEUZLER AT

Wednesday Dec. 17



Three—KING PIETER, a son of King Hengerveld and Blanche Lyons—331 bull in 7 days. Dam—BLANCHE JOHANNA, 28.92, a daughter of Netherland Johanna. Heifer De Kol 2nd Boy and Blanche Lyons Netherland—34.26. Five nearest dams average 23.50 in 7 days.

The females offered should prove attractive to buyers from every part of Eastern Canada. They are large, straight, heavy milkers—mature ones up to 28.28, 3 year olds 27.9 and 2 year olds up to 15.63—in fact all mature females, but 2 have records over catalogue. Nearly all of them will be bred to freshening from the above herd sire.

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

LEUZLER & BOLLERT Stock Farms

Auctioneers: COL. R. E. HAEGAR, COL. B. V. KELLEY

In offering the 20 head of Holsteins at this sale I do not wish to be understood that mine is just a consignment. With the exception 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 Graeland Farm, ELIAS RUBY.

Big Heavy-Milking Holsteins

Wednesday Dec. 17



Three—KING LYONS, a son of King Colanthes Johanna Champion and Segis Betta—27.78 in 4 years. Dam—PRINCESS WALKER SEGIS, 21.19 at 2 years. She is a daughter of King Walker and Princess Segis, 39.43. Fourteen nearest dams average 23.68 in 7 days.

every part of Eastern Canada. They are large, straight, heavy milkers—mature ones up to 28.28, 3 year olds 27.9 and 2 year olds up to 15.63—in fact all mature females, but 2 have records over catalogue. Nearly all of them will be bred to freshening from the above herd sire.

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TAVISTOCK, ONT.

Catalogues from JACOB LEUZLER, Secretary of Sale, R. R. No. 1, Bright, Ont.

ELIAS RUBY

Graceland Farm Sales Manager: E. M. HASTINGS

## Better Roads—Better Profits

**C**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**

