AUGUST 26, 1915

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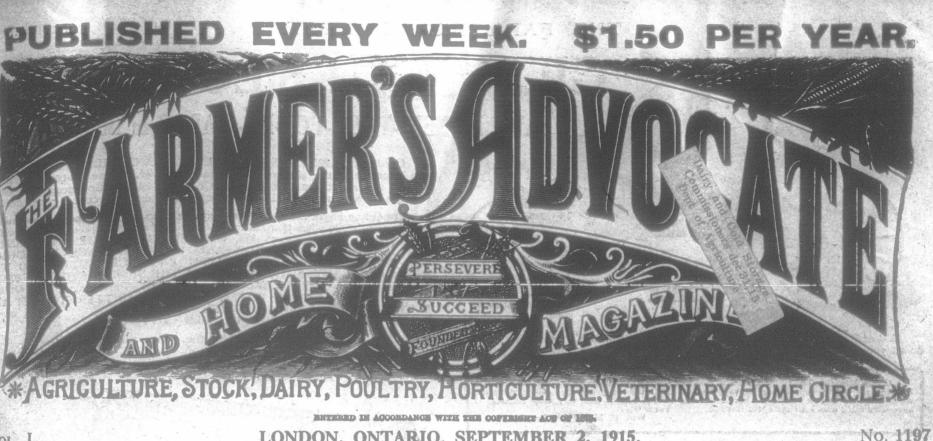
positively all com-D. The quality is never before in all Separator offered s. We have such BOLO Separator

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all UNITED mae but the highest d the best skilled oney can procure. mes to give your eatment, whether es or a small re-



LONDON, ONTARIO, SEPTEMBER 2, 1915.

"There they are, the enemies of roofing

A roof that will last must be first-class in more ways than one. The numerous and varied enemies of roofing made it necessary to produce Brantford-the roofing of all 'round excellence; proof against wet, frost, heat, fire, lightning.

Because we made Brantford Roofing to withstand every roof trial, and the years have proven it does so, you need pay only a reasonable price for better roofing than was ever produced before.



is used on huge manufacturing plants, with the approval of the best architects, by firms who must have the highest grade that money can buy. Why shouldn't it be the best poss covering for that building of yours? Remember, that the labor cost of laying a poor roof is the same as for putting on a real permanent covering.

Brantford **Asphalt Slates**

VOL. L.

are the twentieth century house-roofing material. Uniform in thickness, pliable, fit any corner, curve or angle, can be laid quicker and cheaper than wooden shingles, natural slate or tiles. First cost is only cost-they are practically indestructible; proof against fire, water, heat, cold, lightning.

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ITED Engines are World's Standard, can pay more, but can't buy a better le.

our Big Catalogue ABOLO Separators, ED Gasoline En-Pump Jacks, Water ire Systems, Goverulleys and the Calf-Milker Systems.

ited Engine & eparator Co. anada, Limited Wellington St. West CANADA NTO

Brantford Asphalt Slates will not warp, crack, become weather-beaten or ugly. Made in three permanent fadeless, colors, finished with a coating of crushed rock. For a warmer house, a more attractive house, a safer house-roof with these everlasting slates.

Ask for free booklet to-day.

Brantford Roofing costs no more, yet has resistant qualities never reached by ordinary roofs. It is superior to metal roofing, which is liable to rust both sides and under which drifting rains and snow will find a way. No roof-tinkering needed year by year once you use Brantford. There is no metal in it, no paper in it, no weather can affect it.

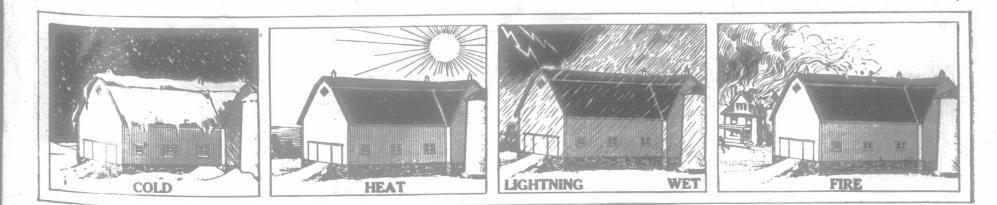
The base of Brantford Roofing is long-fibred pure wool. saturated and super-saturated with pure Asphalt. Fire insurance companies quote low rates on Brantford-roofed buildings. They know !

Write for Free **Roofing Book**

Now, don't you want to use Brantford Roofing and no other ? We'll send a big, practical book on roofing free. It contains truths you should know. Mail a postal for your copy to-day.

Brantford Roofing Company, Limited, Brantford, Canada

The only roll roofing plant in Canada controlled entirely by Canadian Capital





SEPTEMBER 2, 1915

FOUNDED 1866

OR in filling your silo

TERS AND GILSON ENGINES are e buyer, whose motto is " Safety Like Sixty "Engines and Ensilate and ensilage cutter construction.

Gilson Engine is the most sensational

Placed on the market for the individual ANTEE ANY GILSON ENGINE (BLOW ENSILAGE PERPENDIC-ENSILAGE CUTTER TO THE

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THE FARMER'S ADVOCATE

His house has 9 rooms-yes, but he can live in only one !

Can your neighbors say that about you in the winter months? Is it true that you and your women folk get old before your time and lose your health, to say nothing of comfort, because your HOME is a cheerless, dreary, wintrycold place for five months in the year?

You want to stop and think about your health. Remember, a cold house runs up the doctor's bills, it drives away hired help, it sends the young folk away to the city, it injures the women even more than you, a strong man.

You can't heat a farm house by out-of-date methods. You may get one or two rooms "toler-able" for a few hours out of the twenty-four, while with HOT WATER heating you certainly will get every room, every hall, every corner from attic to cellar warm, cozy and absolutely comfortable. Why is every good city home now equipped with HOT WATER heating? Only one answer. Hot water delivers more heat of the right kind and delivers more comfort, more efficiency and more convenience at a less cost.

And why is the GURNEY OXFORD Hot Water System by far the biggest seller in Canada ? Because our patented system of boiler construction

and temperature control through our "Economizer" has never been equalled.

We want you to consider putting a GURNEY OXFORD Hot Water system in your home Don't make up your mind that you can't afford it. Wait until you find out what it costs. It costs NOTHING to know that.

A GURNEY OXFORD Hot Water Heating System can be installed with astonishingly little trouble and carpentry. It means a water boiler in the cellar that will burn either coal or up to 40-inch wood, as you prefer. Radiators are put into every room you want them in, and pipes connect the whole. No "water system" needed. A few buckets of water last all winter. The boiler keeps the hot water circulating all through the house. One fire only does all the work-no carrying fuel into and ashes out of two or three rooms. Means a warm, snug dining-room, kitchen, bed-room at 6 in the morning. Means solid comfort all over the house

The cost certainly is not high looked at from any standpiont.

We have just published a booklet, "City Comfort for Country Homes," that tells all about the GURNEY OXFORD Hot Water Heating System. Shows how it is installed. Pictures and letters from farm homes now using it. Answers pretty nearly every question.

We want you to write to-day for your copy. Now is the time to plan for GUR-NEY OXFORD Hot water comfort.

Address :





1377

certain districts a homesteader in good ng may pre-empt a quarter-section alous s homestead. Price \$3.00 per acre.

ynopsis of Canadian

seven nead of a family, or any male over 18 rears old, may homestead a quarter-ection ilable Dominion land in Manitoba, Salan-n or Alberta. Applicant must appear in a at the Dominion Lands Agency or Sub-y for the District. Entry by proxy may be at any Dominion Lands Agency (but mil-gency), on certain conditions.

-Six months residence upon and cl tes—Six months residence upon an of m of the land in each of three years A teader may live within nine miles of his tead on a farm of at least 80 acres h conditions. A habitable house is required where residence is performed in the

North-West Land Regulations sole head of a family, or any male over 18

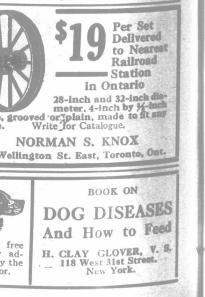
—Six months residence in each of three after earning homestead patent also so xtra cultivation. Pre-emption patent may tained as soon as homestead patent. on conditions,

ettler who has exhausted his homested may take a purchased homestend in certain s. Price \$3.00 per acre. Duties-Mar 6 months in each of three years, culture a and erect a house worth \$300.

area of cultivation is subject to reduction of rough, scrubby or stony land. Live may be substituted for cultivation under conditions,

W. W. CORY, C.M.G., Deputy of the Minister of the Interior.

-Unauthorized publication of this adver-t will not be paid for.—64388.



PRICES

Owing to the fact that the spelter situation has eased considerable in the past few weeks wire has dropped back to almost nominal priceconsequently we are enabled to reduce the price of fence quite materially. This drop in price is also our regular off season reduction and is a very close price. As the market on black wire is very stiff, owing to the steel companies using large quantities for war munitions, the price of wire may advance again which will of course compell us to advance our price again. We would therefore suggest that you order your requirements at the earliest possible moment in order to take advantage of these prices.

Sold	Direct	to	the	Farmer
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ALL FULL No. 9 WIRE

No. Lin Wires Height Inches Stays per rod Weight per rod (lbs.) On Spacing of Horizontals 5 40 9 10, 10, 10, 10..... $... 6\frac{1}{2}$ \$0.19 7, 7, 8, 9, 9 5, 6, 6, 7, $7\frac{1}{2}$, $8\frac{1}{2}$. 5, 6, 7, 9, 10, 11.... 9 6 40 .22 40 9 81/2 9 48 9 12 3, 4, 5, 6, 7, 7, 8 $.10\frac{1}{2}$ 8 40 8 48 11 9 48 11 9 6, 6, 6, 6, 6, 6, 6, 6. 9 48 11 .38 141/ .42 POULTRY AND HOG FENCES-No. 9 and 12 Wire .4() .44 .75 31/2 x 48. 12 x 48 GATE PRICES

\$2.50 \$2.75 4.004.00 13 x 48 4.25 14 x 48 4.254.50 16 x 48 4.75 5.00

GUARANTEE

We guarantee our fence to be made from the best galvanized hard steel wire, both stay, line wire and knot, and to be the most perfectly woven fence on the market, and of full Government gauge No. 9 wire.

PRICE PRICE SERVICE This year with our exten-\$0.21 sions to our formerly enormous plant, we are able .28 to adhere very closely to .29 our rule of making ship-.34 ment the same day the order is received. **OUALITY** .39 42 Sarnia Fence is the best 46 known fence in the Do-

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minion of Canada to-day, which is due largely to the fact that it has lived up to every claim we have made for it. From the first we have used a most rigid system of inspection, which insures our customers of getting the most perfect fence possible.

This year we are selling the farmers of Canada the best fence ever placed on the market at the best price possible.

The Sarnia Fence Company, Limited, Sarnia, Canada

FOUNDED 1866

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Saved!!

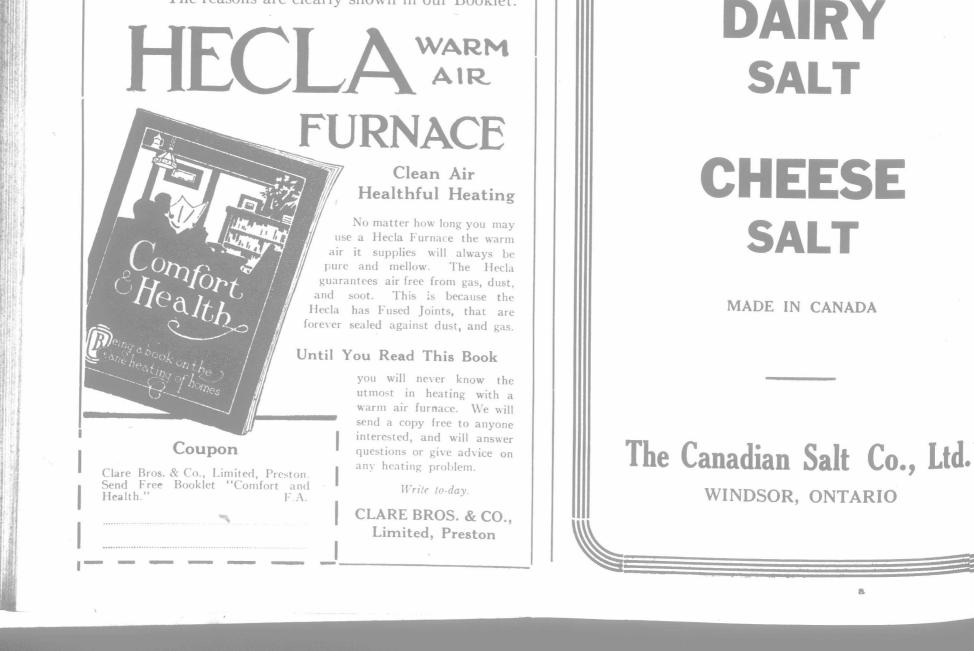
1378

"That little Booklet was right. It said we would save one ton in seven—and there's the coal to prove it."

There's nothing surprising about this. The Hecla has a firepot that saves coal because of its triple heating surface. This firepot is ribbed with steel flanges. Every winter thousands of Hecla Furnaces prove that the Steel Ribbed Firepot gives greater heat from the coal.

Every winter Hecla owners are able to reckon a big saving in coal because of this patented Firepot.

The reasons are clearly shown in our Booklet.



"Finest Butter and Cheese We've Seen in Years"

> Is what the experts say about the Dairy Products shown at the Exhibitions this year.

And the Prize Winners[all used

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For pumping or other light work-

—and it's ready in a few minutes.

THE FARMER'S ADVOCATE.



1379



FARM BOYS What are Your Plans For the Future?

1380

Do you intend to run your own farm; to practice the best farm methods; to raise better crops and better stock; to keep your farm in the highest state of fertility; TO MAKE THE FARM PAY? Unless you do, what satisfaction is there in farming? NOW is the time to lay the FOUNDATION of your life's work; to learn something of soils, fertilizers, drainage, plant and animal diseases, insect pests, varieties of grains, roots and fruits, breeds and types of animals, marketing of farm produce, methods of cultivation, carpentry, blacksmithing, etc. Get an insight into the innumerable problems that every farmer has to face and should know about.

HOW?

By taking the Two-year Course at

THE ONTARIO AGRICULTURAL COLLEGE GUELPH

This course is designed to meet the requirements of our country boys.

You can come to College for two years.

GRAND PRIZE PANAMA-PACIFIC EXPOSITION Awarded to DE LAVAL CREAM

SEPARATORS

as the Highest Award has been at every International Exposition since the invention of the Centrifugal Cream Separator in 1878.

And likewise as at all previous expositions, all higher dairy product awards at San Francisco have been made to users of the De Laval machines.

DE LAVAL DAIRY SUPPLY CO., Ltd.

MONTREALPETERBOROWINNIPEGVANCOUVER50,000BRANCHES AND LOCAL AGENCIES THE WORLD OVER



Do you know that out of 1,000 physically perfect men 35 years old—men who have passed the severest kind of medical examination—5 die within one year and 42 within five years ? settle It shoul TI be w If if no W the fa

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BECAUSE ordinary public school education is sufficient for admission to the course.

The College year begins September 17th, and ends April 15th, so that boys from the farm may return to their homes to assist in the spring and summer work. During this period many boys can earn sufficient funds to defray College expenses for the following year.

Tuition fee for Ontario students is only \$20.00 per year, while board and room in residence is obtained at the rate of \$4.00 per week.

A portion of the cost during the first year is defrayed by work on the farm and at the various departments of the College.

N. B.—If you wish to continue to the work of the Third and Fourth Years for the degree of B. S. A., you are not required to have matriculation standing. Students are accepted for this course if their standing on Second Year examinations warrants it.

College Opens September 17

For further particulars write for regular course calendar

G.C.CREELMAN, B.S.A., LL.D., President

This statement is an established fact.

You have an equal chance with each of the other 999 of being one of the 5 or one of the 42.

Can you afford to take this chance? Should you not do everything possible to protect your family, to safeguard your estate, against accident or the ravages of disease?

The only sure way to accomplish this is to provide for a heavy payment at your death—to insure your life in other words.

Negligence and procrastination on your part may result in much hardship or even misery for those you leave behind—the home you have struggled so hard to pay for may be swallowed up by the mortgage.

A suitable insurance policy would absolutely prevent anything of this kind.

Insurance is your most urgent necessity without the shadow of a doubt, and the

NORTHERN LIFE ASSURANCE CO. OF CANADA

would like to supply your needs. It offers the very highest type of security, and is one of LONDON'S leading financial institutions.

POLICIES of all kinds are sold at rates suited to every purse. The Head Office is in the

DOMINION SAVINGS BUILDING.

Total Assets Over \$2,500,000

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SUPPLY CO., Ltd. WINNIPEG VANCOUVER GENCIES THE WORLD OVER



EDITORIAL.

Meet us at the Fair.

VOL. L.

This is truly a patriotic year.

New Ontario is a big country ready for the settler. Read about it in this issue.

It is late in the season, but a weedy root field should be cleaned if at all possible.

That field of rank, poorly-flowered clover may be worth more for hay than for seed.

If you are at the Exhibition study the stock; if not study the types depicted in this issue.

With the call for men for the army and for the farm, valid excuses for unemployment must be difficult to find.

Can anyone outside of a dyed-in-the-wool politician produce any solid reason why an election should be held this fall ?

Attending the fair is a holiday, but time and attention enough should be given that something of real value is carried away.

Do not let your patriotic spirit vanish with the subsiding of the cheering and hat-swinging at the fair. Everyone can continue to help in some way.

Some of the Eastern buyers of horses for army purposes seem to have been working on the basis of wearing out the old, the halt and the blind first.

LONDON, ONTARIO, SEPTEMBER 2, 1915

REGISTERED IN ACCORDANCE WITH THE COPYRIGH

The Security of the Farm.

In time of crisis the fact is brought out that farming, production of the necessaries of life is really the thing which matters most in the economics of the world. When everything is running smoothly and boom times are in evidence everywhere, there is a tendency to forget the farm and all that it stands for and turn all emergies toward money making by what then appears to be the easier and quicker route of city employment and urban investment. A change comes when the slump appears. An American magazine, which pays special attention to investment announcements, in a recent issue had no less than two dozen advertisements, some of them full page, and all appealing to those having money to invest to play safe and put it in farm lands and farm mortgages. City and town real estate booming has received a set back. The man with all his money in town lots is having a hard time to make ends meet. The man who chose the safer investment-farm property-is doing as well as, if not better than, ever.

There is another point of safety in the farm, there is always work there for the willing and competent. There is never any need of providing charitable soup kitchens in the country. The farm, properly worked, looks after all those who attend to their duties.

The farmer's business is built on a much better foundation than many city enterprises. There is always a good living in it, and generally a little besides. Dull times and world crises may come and go, but the farm goes on forever. City business may flourish for a time and then dwindle into bankruptcy because of conditions beyond the control of those engaged in it, but the farmer works along and his fields pay his way through it all. All this should be a good lesson to young men. The farm may seem slow, but it is sure

readable form, and he finds it profitable and pleasant reading.

STABLISHED

No. 1197

There is a reason for everything in farming and the most interesting part of the occupation after the "knowing how" has been mastered is the "knowing why." Perhaps this order should be reversed, but at any rate the up-to-date, getting-on farmer must know "why" farming operations are carried on as they are. "The Farmer's Advocate" tells him why.

As time goes on the problems confronting the farmer become increasingly difficult. Farming today is much more of a technical occupation than it was years ago when the land was new and only needed, its back scratched to produce abundantly. "The Farmer's Advocate" informs its readers on the technique of agriculture as advancement is made.

The home must be supplied with instructive, and wholesome literature. The Home Magazine Department of "The Farmer's Advocate" is read and prized by men, women and children alike. Its helpful, uplifting effect makes it a favorite in every home to which it goes. There is more in life than work, worry and money.

The farmer and his family must, to keep abreast of the times and make the most of their calling and life generally, read the best periodical literature, particularly that dealing with the things in which they are most interested. "The Farmer's Advocate" is the oldest and best, so they read it.

Over-Worked Royal Commission.

Under fair pretentions the public is led to expect from the almost endless succession of Royal Commissions large and beneficial results which too often do not accrue. In some cases the intentions are well meaning but needless. Others appear to be a worked-up and thinly disguised plan of bestowing compliments and compensations for political ends. The Railway Commission of Canada, a permanent, quasi-judicial body, entirely different. exercises functions evidently beyond the scope of a government department and has justified its existence. There are occasions and circumstances like the extraordinary situation lately developed in Manitoba where a temporary commission with ample powers independent of the administration, is clearly the proper means to bring rascality to light and clean up a bad political mess. The proof of the efficiency of the work of the two commissions in that province was evident when the people went to the polls and throwing old party ties to the winds swept one crowd away and authorized another to complete the job of giving decent government. At Ottawa a parliamentary committee proved futile in handling the gang of war contract graiters and the probe of Sir Chas. Davidson as a commissioner soon resulted in the resignation of an M.P. and the refunding of a lot of loot to the Dominion treasury. When Pasteur evolved his treatment for rabies, at his request the government of France very properly appointed a commission to report upon the method and confirm to the nation and the World his splendid achieve-

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mention "The Farmer's Advocate"

We draw the attention of all our readers to the special articles dealing with timely topics in this, our annual Exhibition Number. Read every one of them.

We are pleased to note that the live-stock entry at Toronto is larger. Our live-stock breeders play an important role in the destiny of Canadian agriculture.

Uncle Bije says instead of rushing hot foot for the doctor to cure him when he gets down sick he engages a capable family physician to keep him well.

The people have shown that they are not in favor of mergers. Evidently "The Farmer's Advocate's" stand on banking and big business is receiving practical support.

A wet harvest does not mean that afterharvest tillage should be neglected. Plan to conserve moisture for the climate generally goes from one extreme to the other.

Many farmers whose wheat sprouted in the fields were pleased with the information given in our Stock Department last week regarding the feeding value of sprouted wheat.

Let the boy attend the nearest big exhibition and your own county fair as well. He will work better for the rest of the fall, and will think more of farting as an occupation. And let him take his statute.

and safe. It stands secure through all the ups and downs of finance, and the bulls and bears of Wall Street never make farmers millionaires or paupers. Farm land is the best security always.

Why Thousands Read "The Farmer's Advocate."

If the large clientele of readers could be questioned as to why they read "The Farmer's Advocate" no doubt a great variety of answers would be drawn out, for in their favorite farm paper they find so many features which appeal to readers in a farm home and directly interested in agriculture that each has his and her own reason. It has been truthfully said that experimental work is never done, and such is the case on every farm whether the owner thinks it or not. Things are done the same, or differently, because some practical experience, either by the farmer himself, or his neighbor, or some other farmer, or experiment station has found a certain practice most profitable. It has been demonstrated time and again that individual experience is not enough and that the findings of others are valuable. It is here that "The Farmer's Advocate" proves a helpful medium. Its columns carry information regarding practical experience from one farmer to another-from thousands of ment.

farmers to thousands of other farmers. A farm results of practical experience gained thereon is

What was probably the first Royal Commission is operated in connection with the paper, and the on record ended in a disastrous fizzle. Twelve spies were commissioned by Moses to report on passed on to readers. The twentieth century the Promised Land which was found rich beyond farmer cannot farm unto himself. He must know all conjecture but the courage of ten of them what others are doing, and how they do it. oozed out and precipitated a panic among the "The Farmer's Advocate" tells him all this in people who went back to die on a forty years'

The Farmer's Advocate AND HOME MAGAZINE.

1382

THE LEADING AGRICULTURAL JOURNAL IN THE DOMINION

Published weekly by THE WILLIAM WELD COMPANY (Limited).

JOHN WELD, Manager.

Agents for "The Farmer's Advocate and Home Journal," Winnipeg, Man.

THE FARMER'S ADVOCATE AND HOME MAGAZINE is published every Thursday.

It is impartial and independent of all cliques and partles, handsomely illustrated with original engravings, and fur-nishes the most practical, reliable and profitable informa-tion for farmers, dairymen, gardeners, stockmen and home-makers, of any publication in Canada.

- TERMS OF SUBSCRIPTION.—In Canada, England, Ireland, Scotland, Newfoundland and New Zealand, \$1.50 per year. in advance; \$2.00 per year when not paid in advance. United States, \$2.50 per year; all other countries, 12s.; in advance in advance
- ADVERTISING RATES.—Single insertion, 25 cents per line, agate. Contract rates furnished on application.
 THE FARMER'S ADVOCATE is sent to subscribers until an explicit order is received for its discontinuance. All payments of arrearages must be made as required by law.
- THE LAW IS, that all subscribers to newspapers are held responsible until all arrearages are paid, and their paper ordered to be discontinued.
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- WHEN A REPLY BY MAIL IS REQUIRED to Urgent Veterinary or Legal Enquiries, \$1.00 must be enclosed.
- vereinary or Legar Enquiries, \$1.00 must be enclosed.
 10. LETTERS intended for publication should be written on one side of the paper only.
 11. CHANGE OF ADDRESS.—Subscribers when ordering a change of address should give the old as well as the new P O address
- P. O. address.
 WE INVITE FARMERS to write us on any agricultural topic. We are always pleased to receive practical articles for such as we consider valuable we will pay tap cents per inch printed matter. Criticisms of Articles, Suggestions Hew to Improve "The Farmer's Advocate and Home Magazine," Descriptions of New Grains, Roots or Vegetables not generally known, Particulars of Experiments Tried, or Improved Methods of Cultivation, are each and all welcome. Contributions sent us must not be furnished other papers until after they have appeared 12. each and all welcome. Contributions sent as indee ac-be furnished other papers until after they have appeared in our columns. Rejected matter will be returned on rein our columns. ceipt of postage.
- 13. ADDRESSES OF CORRESPONDENTS ARE CONSIDERED AS CONFIDENTIAL and will not be forwarded.
- ALL COMMUNICATIONS in reference to any matter connected with this paper should be addressed as below, and not to any individual connected with the paper.

Address-THE FARMER'S ADVOCATE, or THE WILLIAM WELD COMPANY (Limited),

London, Canada.

tramp in the desert. Under the guise of wanting information some commissions are simply a dodge of politicians to gain time and avoid troublesome issues. When the anti-alcohol movement was gathering strength in this country a Dominion Prohibition Commission was sent out. The result Vas a dual The majority like the ten spies were unfavorable but probably made just about the brand of a report that was wanted. The proposal of some old-time commissions would provoke a smile now-a-days. A gilt-edged tribunal once perambulated Ontario to fnd out if dehorning was not too painful for the cows and had not better be stopped. The commission to enquire into the state and prospects of Ontario agriculture over thirty years ago gathered a vast storehouse of information of historical use and a guide to the then legislators. In other $c_{\scriptscriptstyle \rm d}ses$ that might be recalled a live officer from a department of agriculture could bring to light just as much knowledge without all the frills and at one-tenth the expense. A good deal of the knowledge reported is often already well known through the press. When the cost of living began to get troublesome because of reasons for which several governments, federal and provincial, were largely responsible, a couple of our most capable publicists were forthwith commissioned to tour the country on a still hunt but the result appears to have fallen into a Rip-Van Winkle sleep from which it may never awaken.

data with carefully worked out recommendations to give the report effect. Unfortunately one government began the undertaking and their successors would not touch it with a forty-foot pole but shoved the volumes into dusty pigeon holes where they will probably lie till the crack of doom. Seriously, this Royal Commissions idea, usual-

ly on "'behalf of the farmer," has been worked to death and as the country comes face to face with the appalling responsibilities and burdens of the war it is about time to initiate economies in government which public men are now recommending the common people to practice. In federal affairs we have ministers and deputies drawing stipends amounting to about \$200,000 annually with assistants as thick as horn files in August. Suppose they tackle the work themselves instead of turning it over to Royal Commissioners with so much official fireworks. Then if political partizans will cease setting the people by the ears this country will probably weather the gale.

Pasteur Versus Kaiser.

Louis Pasteur, Kaiser Wilhelm II.-These two men are cited representing humanity at its best and at its worst. Benefactor and Destroyer! One becomes immortal as the alleviator of suffering and a savior from loss, whose spiritual life was no less admirable than his scientific career. The other has drenched the world with blood and agony. These two types are the product of two distinct ideas of life which as worked out either ennoble or curse. The Kaiser med not be held wholly responsible for the World conflict, other war lords and his armament makers are relatively culpable. Science and philosophy have been harnessed to the hideous car. The world now sees in German ethics a mere shell with everything cast out that will not warrant force and fraud. When Prussia crushed France in 1870, Pasteur resolved to exalt his country in beneficiant science. This would be his revenge-a noble triumph and he achieved it. Out of the labors of this peerless Frenchman grew the diphtheriaantitoxin which up to a year ago had saved over a quarter of a million lives. As an achievement, contrast this with all the past year's destruction in Europe and the butchery of Lusitania innocents. Pasteur gave the world the treatment for rabies, officially described as "magnificent," highly honorable to French science and conferring upon him a new title to the gratitude of humanity." By his discovery of the cause and course of the silk worm disease he rescued that great industry from ruin and brought it back to prosperity. His work with anthrax, chicken cholera and rouget (swine disease) gave results of incalculable benefit to farmers and stockmen the World over. To Pasteur more than to anyone else is due the advancement of the priaciples of

The Future of Canadian Agriculture. AFTER THE WAR-WHAT?

By Dr. G. C. Creelman, B.S.A., L.L.D.

There is food for thought in the plain fact that while the British Empire has been at War spending millions every day Canada, perhaps her most important possession, has scarcely felt the "pinch' at all. Merchants in many towns in form me that business is better than last year, and that even real estate transactions are going on, not as usual-for real money is being used in transfer. Our banks are sound and have plenty of money. No sane person doubts for a moment that the Empire will win out in the long run, and therefore we must think of its future

OUR NEED. When things have settled down again Canada will need four things at least.

(1) CAPITAL-Our undeveloped natural resources will surely attract money. Our cheap lands, great waterways, healthy climate, timber resources, and manufacturing possibilities, will bring to our shores men of wealth. To me our of the most astounding things about this War is the tremendous financial resources of Great Britain. With a daily expenditure of fifteen millions of dollars she still has money to loan to her allied nations. This wealth will later turn to new countries for reinvestment and ours should prove an attractive field.

(2) IMMIGRATION-As Europe supplies the great bulk of our newcomers, then easy transportation facilities and cheap rates give us a very great advantage. Australia, New Zealand, South Africa are all handlicapped in this regard, and when you add the natural resources enumerated above, Canada certainly stands out in the limelight. We will get immigration. Perhaps we may learn something during this lull in immigration affairs that will help us to assimilate our foreign emigrants better and quicker. We easy-going Canadians are apt to forget that while "Canada for the Canadians' is splendid in sentiment and theory yet we are becoming more and more dependent on foreign labor. Let each of us stop now and think of our duty towards the individual foreigner admitted to Canada by our Immigration Authorities. If they are to become as good Canadians as our fathers did, then we must quit calling them "Dagos" and "tramps" and instead extend a sympathetic hand of real friendship, teach them our way of living and farming, and try as early as possible to make them feel so much at home that they will one and all desire to learn our ways and our language and become important assets in our body politic.

(3) MARKETS-This question must receive our very best attention. Our Governments appreciate the importance of an economic study of markets. The Ontario Department of Agriculture has a Bureau of Markets which is gathering statistics and studying the question inside the Province, while the Dominion Government has just appointed a "'Market Commission" with a wide scope. We may soon expect, therefore, to know at least the facts regarding our present limitstions and our need for better market facilities. It is a crying shame that our own West is not economically supplied with fruit from the Eastern Prov

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SEPTE!

Early in July the outline of another elaborate national commission was announced to promote production in Canada. What is worrying the Canadian farmer now is to handle what he has provided and he might not be helped very much hy loading another Royal Commission on his mack. In 1910 a Royal Commission on industrial training and technical education began its labors in Canada and accumulated an invaluable fund of

veterinary science and the levelling up of the study and treatment of animal diseases with the study of human diseases. All mations are to-day grateful to this eminent savant over whose vault in France are four great white angels, Faith, Hope, Charity and Science, a tribute to one who brought blessings to mankind. Though dead, Pasteur lives as a liberator; Kaiserism would enshackle all in a deadly bond of blood and iron. After which model will the young men of Canada pattern their careers .- Pasteur or Kaiser ?

A Cold Water Douche.

It has been said that you can tell a Harvard University man anywhere you see him but you cannot tell him anything else. This sort of jibe is occasionally levelled at the school man, but it is facetious rather than serious. Thinking folk know that colleges worthy the name do not instil inflated notions of mere learning without proved capacity and character. It was likely a college man who remarked "We are not infallible, not even the youngest of us." youngest of us." At this time of year as young people of the farm here and there set out for the schools it is best to give them a heartening word and later on when they return remember to be sparing with the cold water douche. If used at all save it for heady blusterers. The chilling experience of stern life will come soon enough. Nothing is more discouraging than cheap sneers at youthful ardor. If the young man would achieve something new and worth while on the farm let him have a fair and encouraging trial. We have youth but once. The trick is to lengthen it out through life. Apart from the ways of right living, this will be best accomplished by having in harness a safe and going team called Enthusiasm and Experience. Preserve the youthful outlook and the boyish heart and some day you may be able to say

crime that thousan thousands of barrels of good apples are allowed to rot on the ground in Ontario nearly every year because there is no market for them.

(4) CO-OPERATION-I do not propose to go into a scientific or exhaustive economic discuss on the subject. I do hope, however, that the awful war will bring us closer together; as farmers, in the best interests of everybody. seem to be waiting for all the neighbors to get into the same frame of mind before we put into actual practice what we nearly all believe.

WHAT 20 MEN CAN DO .- I believe that 20 men in any farming community, if they would put their heads together could do almost anything. They could :-

(1) Unite the different churches in the neighborhood and have one meeting-place with a strong, vIrile, forceful, influential Preacher in charge

(2) They could build a mile of first-class road in every school section.

(3) They could get Bank credit for any rea sonable amount of money for developing their section.

(4) They could handle the entire fruit crop of the district.

(5) They could explain the drainage act, and by example and precept, 'encourage the draining of all low land in the neighborhood.

(6) They could stand behind buying and selling organizations and so ensure "fair dealings."

(7) They could back up the District Represent tatives and demand short courses in the study of agriculture, demonstrations of spraying, school fairs, school gardens and a thousand other good things.

(8) They could build up a new sentiment in school affairs, engage the best teachers and after fulfilling the requirements of the Department of Education, could have every boy taught the rudi-

of Canadian Agriculture. CR THE WAR-WHAT?

C. Creelman, B.S.A., L.L.D.

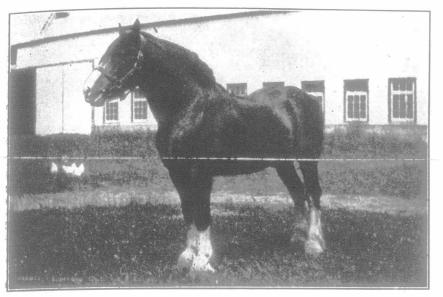
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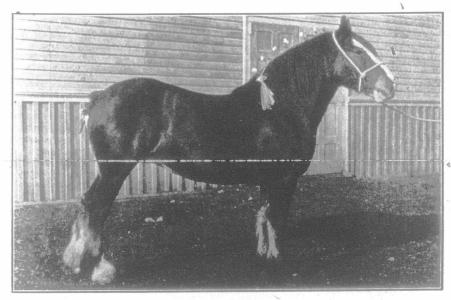
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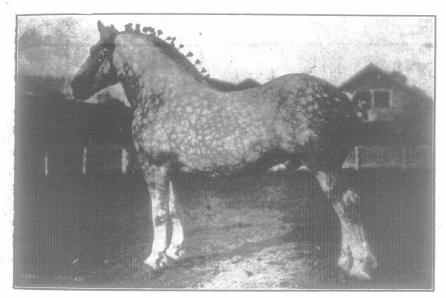


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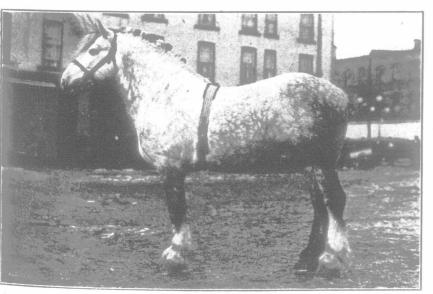


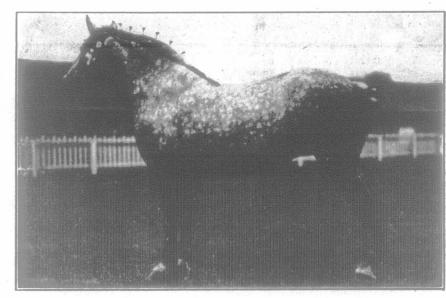
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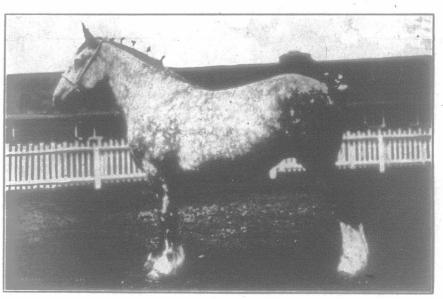


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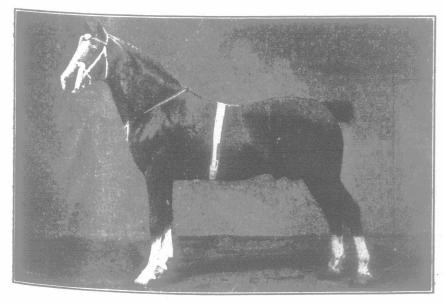
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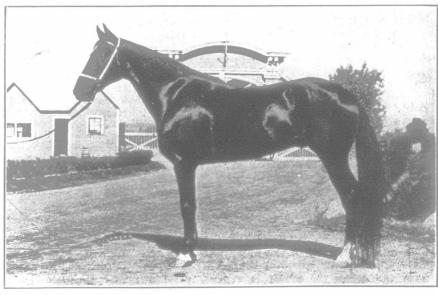
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ments of agriculture, and every girl the practice of Household science.

Oh! for twenty good men in every section in Ontario, meeting every two weeks and working together. They could control the Political, 'Religious, Economic and Educational affairs and under such conditions, weeds and insects would be fought intelligently and to a standstill; only purebred live stock or stock of outstanding merit would be tolerated. "A fair square deal for every man" should be the watchword, and a social awakening would bring farmers to a sense of their power and influence, that would shake our whole social fabric.

our whole social fabric. My prayer is, therefore, that through the suffering and tribulations of these most anxious days we may all be brought to see the folly of each farmer trying to stand alone, and the many many benefits that may arise from standing back to back forgetting local jealousies and former differences and looking forward to the grander Province in that greater Canada that is to be.

Nature's Diary. A. B. Klugh, M.A.

It is now moulting time for a great many of our birds. Some species moult in July, and some in September, but the great majority renew their plumage in August.

The process of moulting is a very interesting one. and one which varies much among the different families of birds. All birds undergo one complete moult in the late summer or early autumn each year, but a large number of species also have partial moults at other times.

In the great majority of our birds the feather loss at the time of the moult is so compensated for by feather gain that they do not lose either the power of flight or the protection of meir The plan on which a moult proceeds plumage. is a perfectly definite one. Old feathers or rows of feathers tend to remain until the new feathers adjacent have matured sufficiently to assume their function, when the old ones fall out and their places are taken by the new ones which develop from the same papilfae. This systematic replacement of feathers shows most plainly in the wings where not only do the flight-feathers fall out one after another in definite sequence and almost synchronously from each wing, but the greater coverts are regularly replaced before the fall of the secondaries beneath them, and the under wing coverts are usually replaced after the moult of the upper surface of the wings is completed. On the body the protective sequence is less obvious, but the moult regularly begins at fairly definite points in the feather tracts and radiates from them in such a manner that the outer rows of feathers where the tracts are widest are the last to be replaced. To understand the moult as it occurs on the body one must study the way in which feathers grow on a bird. Though a bird appears to be feathered all over, we find on careful examination that the feathers really grow only on definite tracts, and that between these tracts are have spaces which are covered by the feathers which overlap from the feather tracts. There is for instance a feather tract down the middle of the back and the feathers of this tract overhang the sides of the back, there is another tract on each side of the breast, and the feathers which grow on it overlap the centre of the breast. This is the reason why a bird appears to be moulting at irregular spots all over, because moult starts at the same time at the centre of each of the tracts. In most of our small birds, such as the Sparrows, Finches, Buntings, Vireos, Warblers, etc., the longest quill-feathers of the wings, (known as the primaries) are nine in number. At the beginning of the moult the ninth primary is the first to fall out, and this feather falls from each wing at the same time. As soon as this primary falls the follicle or envelope containing the new-forming feather pushes into vivw, often reaching one-quarter the length of the old feather before the feather itself breats from the apex of the sheath. Before this has happened the next primary (the eighth) falls out, by the time that the next adjacent primary (the seventh) falls the ninth is about half grown. Thus the moult of the main flight-feathers proceeds, so that at no time is a gap left of more than one or two whole feathers and one or two partially grown, and consequently the bird is but little hampered in its flight. The moult of the primaries proceeding thus slowly occupies from a month to six weeks. At about the time that the fifth primary is lost the moult of the main talf-feathers begins. They are moulted in pairs, beginning with the inner pair, and followed by the feathers next adjacent on each side. The moult of the tailfeachers is, unlike that of the main wing-feathers, very rapid, so that when the outer pair falls the middle pair are only about half grown. With the ducks the moult is entirely different from what it is among the land-birds. All the flight-feathers are monifed at the same time, so that for a time they can swim and dive, but are

incapable of flight as a turtle. They pass their critical period in some secluded pond with margins of high reeds.

In connection with the moulting of birds a point of much interest which comes up is the way in which some species, in fact most species, change the color of some parts of their plumage without a moult. It has been frequently asserted that the feathers themselves become re-pigmented. But we know that a fully-developed feather is a dead structure, and that the only change which can take place in its color is in the nature of loss of color or fading, so that such brightening as takes place cannot be due to re-pigmentation. What really occurs is that the feathers when they develop have edgings of a different color from that of the main portion of the feather, and that as these edges only show the portion of the plumage on which such feathers are found appears to be the color of the edgings. In course of time these edges wear off, due to abrasion against other objects and against other feathers, and reveal the main body of the feather. Thus many birds which appear dull-colored in the fall become much brighter by spring entirely because of the loss of the dull-colored edges of the feathers.

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ing the past winter, to no less than three outside points to take part in debates. Among the young men he is now one of the

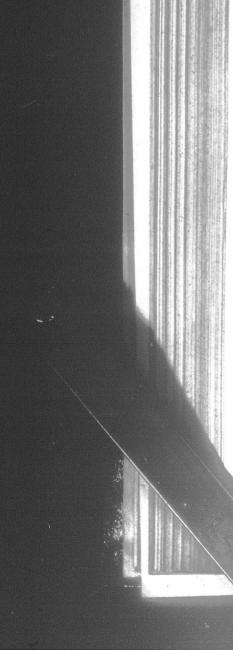
best live-stock judges in his section of the coun-He is producing more and better seed try. through the inspiration received at the Short Course; but, best of all, he is a farmer and not a bank clerk. It is work like this that will make the District Representative solid in his community and indispensable in his county. His efforts are not so much in the direction of a return to the land as in saving the boys to the farm. Canada cannot afford to allow her rural. raised young men all to drift cityward when they would be of far more use to themsel.es and to their country on the farm. We mention this one case simply to prove to any doubters that the District - Representative can do and is doing a profitable work in this particular, and that, with the young men alone, the work is invaluable Every such boy saved to the farm means increased production, more satisfied farmers, a bigger, better and richer Canada. What are you do ing to encourage the farm boy? Has he a call a pig, a lamb or a colt of his own? Has he few bred-to-lay chickens? Has he a little experimental grain or potato plot upon which he is improving the seed ? If not, why not? If the boy is only a chore boy, he will never make a satisfied farmer. Fathers and mothers can help. School teachers can help and District Representatives do help. Which would you rather your boy would be, a good farmer or a ban't clark

> THE HORSE. How to Show Horses.

By "Whip"

The exhibition of high-class horses at "highclass" horse shows is practically a business in itself, and is conducted, in most cases, by those who thoroughly understand the game, hence to exhibitors of this class we do not presume to dictate, as they are better posted on "the tricks of the trade" than we are, but a few hints to the ordinary horse owner, farmer or farmer's boy who exhibits only at small fairs may be seasonable.

It would probably have been more correct to have entitled this article "How to Prepare Horses for Show Purposes." The showing of a horse is comparatively an easy matter if he has been properly prepared. Horses of all classes should receive sufficient education before being taken into the showring to enable them to perform the functions demanded from animals of their class in such a manner as to rehect credit upon themselves and their attendants. The exhibitor should always remember that the show-ring is not the place to train or educate his exhibit whether he is to be shown in hand, in harness or in eaddle. Good manners on the part of both the animal and the exhibitor are necessary for success. The judge knows (or is supposed to know) how a horse of any class should act on the halter, in harness or under saddle, and other things being equal, the





At the Fair.

Saved to the Farm.

One of the greatest works that a District Representative of the Department of Agriculture can do is to educate and encourage boys raised on the farm to stay on the land and make farming their life work. There recently came to our notice the case of a particularly bright farm boy who had become, as most boys do at a certain age, rather unsettled as to his future. He was raised on a good farm, knew farm work well because he had grown up with it, but no particular interest being displayed and efforts put forth to keep him on the farm, he decided to try banking for a while. He spent one year as a clerk in a bank when a District Representative came to his home county and began his work in interesting the boys in farming and live stock. A Short Course was put on one winter in his home town and the boy attended. He became interested in live stock, and for a young man, a fairly good judge of the different classes and breeds of stock kept in this country. From advice given at the Short Course he became interested in seed selection work, and at the present time he is back on the farm with all the old inclinations toward city employment dispelled and thoroughly convinced that farming is the best life work for him. Besides this, he learned to do a little public speaking through the Short Course work, and has since accomplished very good literary society work in his neighborhood. He has developed into a debater of some force and was invited, duranimal that most nearly comes up to his ideal in this respect is the one that will win the best place.

Unfortunately there is often seen an evident want of training or education of any kind, and this is especially noticed in the classes of young horses shown on the halter. Many exhibitors evidently think that so long as their colts can be got into the ring in any way it is all right and nothing further should be asked for. They are not even taught to stand to allow the judge to look them over carefully, and when the attendant is asked to walk or trot his entry, the colt often refuses to move without urging (often rather forcibly) from behind, or will commence to rear and plunge in all directions, or in some cases will run around in a circle, the extent of which depends upon the length of the lead rein, positively refuses to go in a straight line either from or toward the judge at either a walk or a trot. Others go sideways or backwards, while some can with difficulty be induced to move at This is provoking to the judge, aggravating to the audience, and disappointing to the exhibit tor, especially in a case where his entry is really a better animal than the better-fitted and better trained colt that wins. The judge in such case is often very severely criticised and credited with either incompetency or dishonesty. He knows that the awards have not gone to the animals that under more favorable conditions would probably have won, but he is also aware of the fact that a little trouble is necessary to fit and train a colt for exhibition and that each animal must show his action and gaits to enable any person to judge correctly of his relative qualities. He also should thoroughly recognize the fact that his judgment of the animals before him must be influenced by what they are at the time, not what they probably would be under different conditions. The general apresrance of the unfitted and untrained colt may indicate that if fitted and trained he would be a better animal

SEPTEMBER 2, 1915 1385 THE FARMER'S ADVOCATE. Former Champions in Beef and Sheep.

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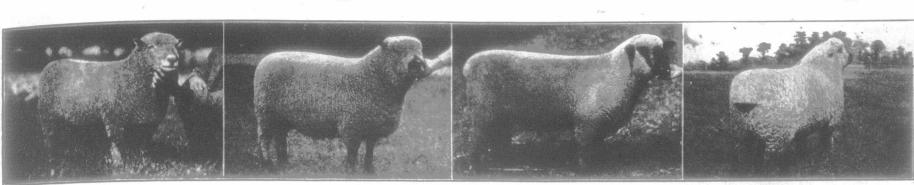
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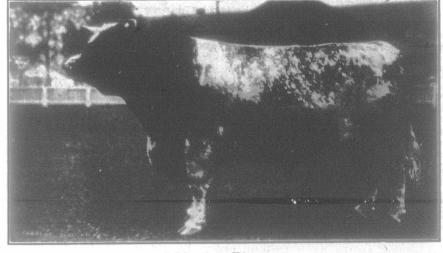
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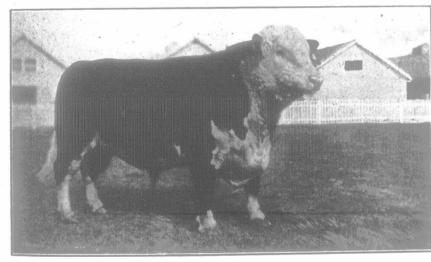
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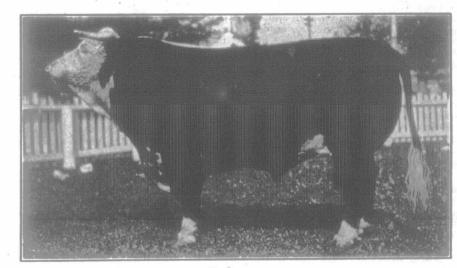


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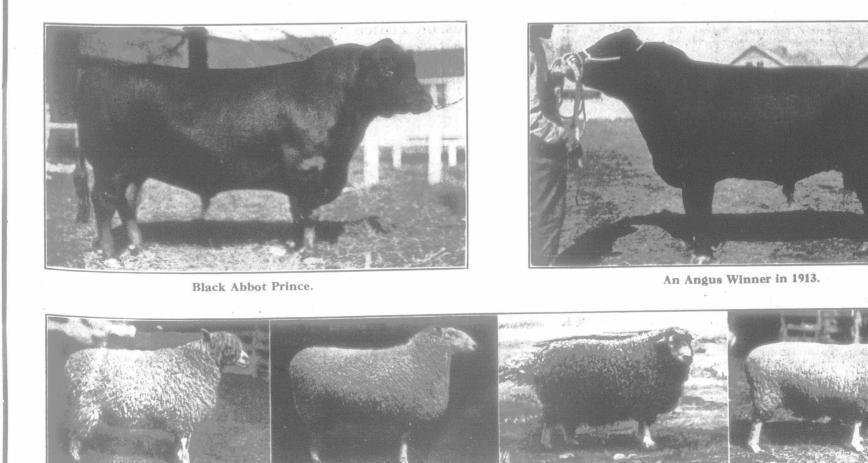
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Leicester.

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THE FARMER'S ADVOCATE.

and have better action than those that he selects for the awards. At the same time the colt is neither fitted nor trained, and he (the judge) also knows that a colt of good conformation, and all indications of showing good action is sometimes a great disappointment when moved, and as he is judging entirely by what he sees, not from what he prohably would see under different conditions, he is practically compelled to give the prizes to the colts that show what they can do. Then, again, the exhibitor who has spent time and money in training and fitting his exhibit so that he may appear at his best before the judge, deserves some recognition over him who has taken no pains or expense to train his colt, often simply bringing his colts direct from the pasture field to the show ground. Such an exhibitor takes no pride in his horses, but simply exhibits for the money he may win, and his winnings seldom reflect glory upon either himself or the exhibition. Even sucking colts should be taught to lead and stand well before being taken into the ring. When this is done there is less danger of accidents, it gives the judge a much better opportunity to judge correctly, and the exhibit a better opportunity to show just how good it is. It will be noticed in this class that the colts that are trained to the halter generally win over those that are running loose. In horses of all ages and all classes action is a most important factor, and in order that a judge may be able to correctly judge action he must see the animal go from him and come towards him in a straight line at any gait he may ask for. Hence the person who expects to show colts or horses of any age on the line should teach them to go well in this way before taking them to the exhibition.

Colts or older animals of the heavy classes should be taught to stand well to attention and allow themselves to be handled and should be taught to walk and trot well. Of course where convenient it is well to have two or more colts take lessons at the same time in order to get them accustomed to company, but this is not always expedient and we notice that a colt that has been taught to perform well when alone seldom causes much trouble in company. The too common practice of teaching a colt to go around in a circle is no use for show, or we might say, for any other purpose. He should be taught to go straight, at any gait required.

Colts of the lighter classes should of course be taught to show the peculiarity of action demanded in the class to as great an extent as possible. Especially in the heavy harness or carriage class shoeing helps action, and it may often be noticed that the colts that are shod win over those that are not, even though their general appearance does not indicate that they should.

In fitting and training horses to show in harness or saddle the same remarks apply to the training and fitting before the day of the show in order mat when the animal or animals are taken before the judge in the ring he or they may be able to show the very best that is in them. In the heavy classes, in either single or double harness a good walker is essential, hence they should be taught to walk well and to go at a slow trot, to stand well and back well. Many horses that look well when standing (probably out-look all others in the ring) have such a poor

general conformation in classifying between the heavy harness and light harness horse. This is particularly noticeable in some Standard-breds, which of course are by breeding and should be by conformation, light harness or road horses, but they have the excessive action both fore and rear that is demanded in the heavy harness horse and undesirable in the roadster, hence for show purposes they must go in the carriage class. Some horses have the desirable actions of each class to a certain extent, but those of neither marked to an extreme extent. hence the owner is at a loss to know how to classify them. Horses of this kind cannot be expected to win in good company in either class. Hence it is necessary for the prospective exhibitor to study the desirable characteristics both as regards general conformation and action of the different classes to enable him to properly classify his horses for show purposes and then he must he careful to intensify the action to as a great degree as possible before the day of the show. He must also remember that in these classes manners count for a great deal, this particularly applies to the carriage horse that is essentially a pleasure horse. He must have good manners and act well under all conditions. He must stand well, back well and show flash and high, straight action both fore and rear, and the faster he can go the better, provided he retains the quality of action. The light harness horse or roadster also should have good manners. Like the carriage horse he should be a good walker and when trotting should go straight and reasonably high, but the excessive action of the carriage horse is objectionable. He must go fast, not necessarily at a racing gait, but the faster he can go the better, but must not require boots or protection of any kind of this nature. saddle horse should be largely of the Thorough-bred type, with good manners, the gais iequired being the walk, trot and canter, all of which should be performed with a light, springy tread and rather close to the ground, but not low enough to cause danger of stumbling. Many judges now want more fash and height of action than the Thoroughbred shows, but this must not be too well marked. As regards the hunter the nearer he approaches the Thoroughbred in type and action the better and in addition he must be able to carry weight according to whether he be a light, middle or heavy-weight fellow and be able and willing to negotiate obstacles of different kinds and like other classes have good manners. A saddler or hunter should promptly obey the wishes of his rider whether they be expressed by word, heels, knees or reins and no horse of any class should bear too heavily upon the reins, but at the same time go with a reasonably tight rein. In a few words to sum up what should be

known about "How to Show Horses" consists in knowing what is required in horses of different classes, teaching them to perform the functions of their class in the highest possible degree, and when in the show-ring avoid getting them rattled or excited in order that they may then perform as they have been taught.

LIVE STOCK.

to react favorably on the industry as a whole Co-operative marketing, which is becoming popular will be fostered; already one section sells all the lambs to a firm in Boston at enhanced prices and cannot supply the demands. Several sections are seriously considering the adoption of such a method and there is every indication that more than lands will be included in the selling list.

The markets for live stock are all comparative ly near-Boston, Halifax, St. John, Sydney and Newfoundland. Market reports show that large quantities of meats from other districts are an nually sent to the Maritime Provinces and are sold in direct competition with Island produce several reasons other than lack of production at home will account for this situation. The demands on the several markets make it possible to dispose of all the output, sometimes regardless of the quality, which is a decided advantage until the industry can be so built that inferior material is of small import. However, any who have the opportunity to visit Charlottetown market and more especially at the Easter season, will find meat which compares favorably with any.

Climatic conditions are, during the warmer months somewhat like those in Great Britain Diseases, however, appear to be more easily controlled; no outbreaks of contagious diseases occur, which may be accountable to the impossibility of carrying them in cars and bedding, but this is a danger which must be carefully guarded in the near future. The fly season is short and not so intense as in most sections. Frequent showers assure good pasturage during the grazing season, and in conjunction with a very responsive soil favor the growing of large hay, grain and root crops.

The population is largely agricultural. During the years from 1901 to 1911, a decrease of 9.2 per cent. was noted, many going to U.S.A., and Western Canada, and it is quite safe to assume that most of them came from the farms. The same period witnessed a large decrease in the sheep population but an increase in other classes of live stock as shown by the following table :

Class of Number Number De-Inin 1900 in 1911 crease crease cent stock Sheep125,546 91,232 34,314 ---- 21.8 Horses 33,731 35,985 -----2,204 6.5 Cattle112,779 120,396 7,617 6.7 Swine 48,007 56,377 ----- 8,370 17.43

The tendency to keep more stock is very Many marked under a decreasing population. very fine animals are being imported by individual breeders, and the Dominion Department Agriculture has during the past two years placed many pure-bred sires in several localities. Everywhere the demand for quality is becoming more insistent and many sections, acting co-operatively, are securing sires independent of the Government.

Probably in no other part of Canada is the light horse appreciated as on the Island; everyone loves a good horse and the majority own excellent horses. Prominence is given to speed trials on the track and ice whenever the seasons permit. The interest is so acute, and the quality of the stallions so high, that this industry is not likely to wane under the present generation. Draft horses are represented principally by Clydesdales, but there have been of late some Type. very fine importations of Percherons. weight, scale and quality are frequently found as the result of years of carefully breeding or good choice in the importations. Beef cattle were monarchs in the olden days, but since the dairy industry has made such rapid strides the former has to remain within bounds. The dispersing of herds gave the beef industry a check, but many have been started of late and give promise of excellent development, and already the mainland show circuit is familiar with Island live stock. A few very good Angus cattle are to be found but the Shorthorn is the favorite. Dairying is of more recent years, but it is now very creditably represented by some noted Avrshires, Holsteins and Jerseys. Records have been made that have given the breeders world-wide distinction. Small herds of pure-bred animals are being built up, and many grade herds are rapidly coming into prominence, particularly in the districts where creameries are situated. Quality is being emphasized very strongly. The beef and dairy industries for many years suffered from cross breeding but this will, due to educational activity and to the influence of cow testing associations, gradually die out. Selling of hay and grain is the greatest drawback in some parts; it is true that in many instances farmers have a surplus but when cattle come out in the spring scarcely able to walk, then feed cannot profitably be sold. This is the greatest and most difficult problem facing the Department of Agriculture; it not only involves poor cattle, but also the question of soil mining. Fortunately this extreme condition is present in but few sections.

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way of going at all gaits (in many cases due largely to want of education) that they must be placed behind their competitors.

Proper classification of heavy horses should be carefully observed. There are, of course, but two classes, viz. draft and agricultural. The general type and characteristics of the two classes is identical, the difference being only in weight. Some Agricultural Societies make 1,600 lbs. and others 1,500 lbs. the minimum for a draft horse and 1,300 or 1,350 lbs. the minimum for an agricultural horse. The horse of a draft 'type that is below the minimum for an agricultural horse has no class for show purposes. He may be a serviceable and valuable animal but is not "a show horse." Many claim that he is "a general purpose horse" but this is a mistake, a general purpose horse is a clean-limbed fellow, reasonably active that will give reasonable service and not look particularly out of place hitched to a plow, binder or other farm machine, a heavy wagon with a reasonable load, a carriage, buggy or cart or under saddle, a horse, we may say of the heavy carriage, heavy road or heavy saddle type. One that is not good enough to win in good company in the class for which he has been bred but is good for general work. Under no process of reasoning can an undersized Lorse of the draft type be properly called a "general purpose horse.

In the lighter classes of horses we have the heavy harness or carriage horse, the light harness or road horse and the saddle horse and hunia Of course in high-class horse shows there are other classes, as the runabout, the combination horse, etc., but the classes mentioned are usually all that are mentioned in the prize list in the smaller exhibitions. Proper classification in the light classes is as essential, and often mare

g.

The Live Stock Outlook on Prince Edward Island.

By W. R. Reek

The rearing of high-grade live stock was fostered by the early settlers of Frince Edward Island, and carried on so successfully that only a few years ago much healthy rivalry existed among the large breeders. Various influences caused the dispersion of some herds, and a waning of the enthusiasm' resulted. However, there are several fine herds, still upon the Island, and scattered throughout are to be found individuals, or the descendants of the earlier noted herds; these will aid in forming the foundation in the near future. Every period of depression is generally followed by an awakening and Prince Edward Island is on the threshold of an extensive progressive movement in live-stoc' r iing; agricultural education has had its influence, but it is largely due to the realization that there is money to be made when live stock are properly cared for

Isolation, due to improper communication with the mainland, exerts an incalculable influence upon the activities of the trieders simply because markets upon a proper basis are rot available at any time, and at certain seasons there are none but the home markets. Cattle and sheep shipments are made under the handicap of loading and unloading several times, en route to market, which entails expense and loss in weight. Live hogs are not shipped at all; the pac'ing plant at Charlottetown handles large numbers and the building of another will stimulate trade very much. Last winter breeders were unable to exhibit on the mainland because the boats could not force passages through the ice. The car ferry, which will be in operation shortly and which will is a live to communication at all times of the difficult than in the heavy classes. In some year, and several times per day, ought to aid the cases action goes farther than breeding and news news of live stock very much and is bound year, and several times per day, ought to aid the

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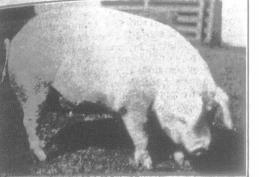
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THE FARMER'S ADVOCATE.

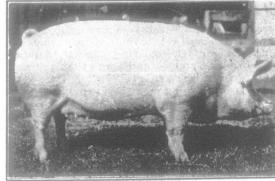






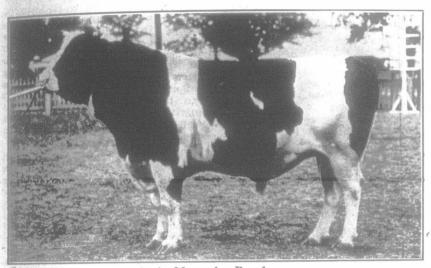


Berkshire.

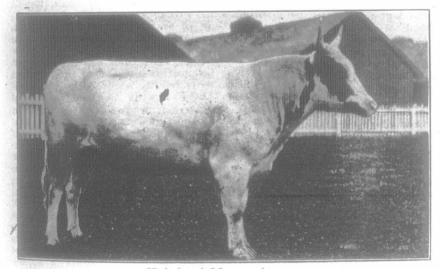


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Yorkshire.

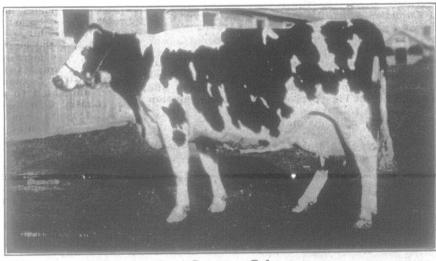


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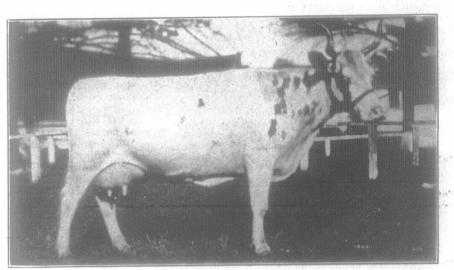


Hobsland Masterpiece.

Duroc Jersey.



Cora Countess Echo.



Snowdrop.

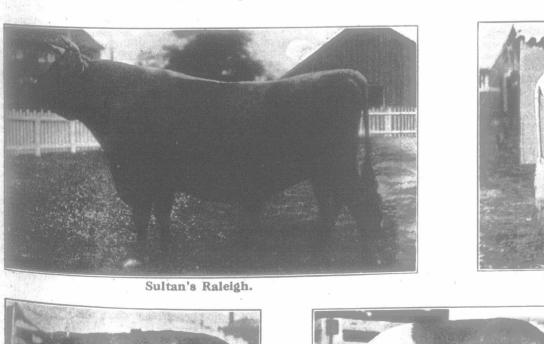
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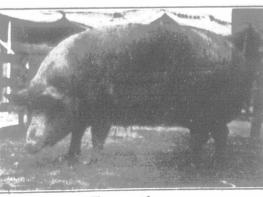
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Hampshire.



Tamworth.

ever growing dairy herds and will likely attain much greater proportion as the markets improve, because the breeds for the production of excellent bacon and hams are on the Island in goodly numbers.

Sheep husbandry declined very fast for a time, but the retrograde movement seems to be checked. New markets and new methods of marketing are responsible in many cases. Freedom from disease and dogs and suitable climatic conditions favor the increasing of the existing flocks. All breeds well known in Canada, and some that are not so well known are represented.

The scrub sire, as in other provinces, is still

The Sheep Industry in War Time.

France

By H. S. Arkeli.

It is announced that the Minister of Agriculture for France has agreed to the importation annually for the French army of 120,000 tons of refrigerated meat for the period of the war or until December 31st, 1916. Such an importation represents an amount equal to fully twice the quantity of meat which would be rendered available by the immediate slaughter of all the sheep in Canada. Speaking conservatively, it represents at least four times the quantity of mutton and lamb consumed in Canada in one year. The latter statement is arrived at by calculation based upon the following facts,-Total killings, mutton and lamb,

rooter ware-feeday ware contract	-
inspected houses-1914 Mutton, representing 75 per cent., averaging 75 lbs. per carcass, yields Lamb, representing 25 per cent. averaging 35 lbs. per carcass, yields	453,618 head 25,516,050 lbs. 3,969,140 lbs.
	29,485,190 lbs. * 19,656,793 lbs. 3,122,671 lbs.
Balance available Canadian consumption 89.856 head	

consumption ... 89,850 Estimate yield meat at 60 lbs. 5,391,370 lbs. per carcass

Total consumed 57,656,614 lbs.

In order to avoid any misunderstanding, it should be made clear at once that mutton and lamb are not used at all extensively for army supplies.

to be found, but the efforts of the Departments of Agriculture are becoming felt and many of them are disappearing. Market demands are making it more difficult every year for the farmer to continue his use without courting heavy loss. The need for quality is becoming more firmly stamped on the general public.

When the markets are made as available as they are to the people on the mainland, then there is every reason to believe that the live-stock industry will steadily and surely advance, because the Island has the natural requisites and already the foundation has been ably laid by men of wide experience.

The situation, as regards the use and supply

of meat, which has developed as a direct result

of the war, is now too well understood to war-

rant any extended statement here. One illustra-

tion will serve the purpose. Take the case of France. In times of peace the consumption in

Owing to the large rations distributed to the

soldiers and the quantity of foodstuffs supplied to

refugees, the increase in consumption to August

tons. As the decrease in the yield for that period amounted to something like 125,000 tons,

the country is obliged to make up a deficit of about 411,000 tons. It is estimated that this

shortage has already reduced, by one-fifth, the

number of head in the national herd. Moreover

the herds and flocks in the war district of France

and of Belgium will have to be replenished.

Faced with this situation France has been obliged to resort to importation. Orders have been given

by the French Government in England, covering 240,000 tons of frozen meat, to be delivered

between February 1915 and February 1916. This supply is exclusively reserved for the army.

addition, the French Government, as above noted,

has authorized the importation annually, for a

period of five years, of 120,000 tons of frozen

meat. It may be interesting to note further that

there have been exported to France from the port

of Montreal practically within the last month, in the neighborhood of 8,000 head of Canadian

These facts illustrate, and without exaggera-

tion, the direction which is being given by the war to the demand for meat in Europe. It may

be argued, of course, that the demand is for beef

and not for mutton and that, therefore, our ut-

most effort should be directed to the development

of cattle production. Such a view of the situa-

tion would clearly, under the circumstances, be a particularly short-sighted one. It has already

been shown and it is widely recognized that small

meats fully share with beef the increase in demand

and the rise in price immediately resulting from

the war. This fact alone should be admitted as

sufficient argument. The relative rapidity, how-

ever, with which the farmer is able to increase

his flock, particularly as compared with cattle,

pointedly suggests the profit and advantage to

Canada of a definite but intelligent increase of

cattle. More are yet to go forward.

In

1915, amounted approximately to 286,000

was about 2,068,000 tons per year.

is one of the most profitable by-products of the farm.

The following paragraph casts an interesting sidelight on existing market conditions,-

The clothing makers of Manchester are pay ing out such wages as were never known in the trade before. A girl who was machining bright red trousers braces for the troops of some nation told me without stopping in her work that she and her older sister had taken home for the pre-vious week's work 57s., which was more than they had ever earned in their lives before, her normal earnings being about 14s.'

Will current prices be maintained? The most suggestive reply which perhaps can be made to this question necessitates a reference to prevailing conditions in Australia. This country is the largest source of supply for the British market and is accustomed to forward annually to Great Britain-in the neighborhood of 600,000,000 Iba. of wool. Australia, at the present time is suffer ing so seriously from drouth that losses of stock by death are likely to be enormous. One authority estimates that in New South Wales alone the losses in sheep will amount to little short of fifteen million head. In South Australia, Queens land and certain other of the States, similar conditions exist. Not only will heavy losses in sheep occur but the ewes will die with young and there will thus be little natural increase. The short supplies of stock have induced one or more of the States to place an embargo on meat exports and notwithstanding the high level which has already been reached, further increases in price are expected.

What these facts suggest as regards the output of wool needs little further comment. Authorities confirm the opinion that, in view of existing conditions and in face of the current demand, the World's supply of wool is likely to be seriously short next year. It is altogether unlikely that relief is to be expected from other sources of supply not here considered and one is led, there fore, to venture the statement that the tone of the wool market will, in all probability, remain very firm for some time to come.

Apart altogether from a review of market conditions and national and imperial needs, there is a growing sense throughout Canada of the utility and advantage of sheep farming as a profitable part of our regular farm operations. The whole industry from a purely commercial point of view exhibits a healthier time than has been apparent for years. Unquestionably, the product-both meat and wool-is readily absorbed by the market and perhaps, therefore, the suggested change of sentiment, while confirmed and safeguarded by existing trade conditions, is based, in part at least, upon a tardy though genuine realization of the economic value of sheep in the country. Improvements in methods of marketing wool, frequently leading to an increase in price of from 4, 5 to 6 cents per pound, is placing the industry upon a firm, businesslike footing. Improvement in methods of marketing lambs, which will provide against the unreasonable glutting of the market in the fall, is likely to follow. The general campaign of instruction and demonstration which is being undertaken by the Federal and certain of the Provincial Departments of Agriculture, is making a live issue of sheep keeping in Canada. The war is giving the needed "push" SEPTEMBI

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This fact is substantiated by inquiries, addressed by Australia to the British Government, which elicited the reply that "all lamb from Australia and all mutton and lamb from New Zealand, then on the market for sale, was for the civilian population. It was also stated that part of the mutton from Australia would probably go in the same direction." As is well known, all mutton and lamb forwarded overseas must be supplied in a frozen state and as, when take out of refrigerated storage, it deteriorates very rapidly, much more rapidly than in the case of beef, the explanation of its non-suitability for army use is sufficiently obvious.

The effect of the war, therefore, upon the consumption of mutton and lamb is indirect. Its use and its market status is dependent upon the utilization of other meats for the commissariat and upon the extent to which a shortage may occur through the diversion of the normal meat supply into consumption outlets created by the The situation in this regard is reflected in part at least by the following table of statistics respecting market prices in Canada and Great Britain.

its sheep supply. Bearing in mind the resources of his land for sheep keeping, the limits of which should never be transgressed, every farmer may do "his bit" a little bit better by keeping or adding to his flock. This, no less than shells for the guns, represents munitions of war. I know of few ways by which the country may more thriftily, more profitably and with less effort increase the product of its farms than by adding to its supply of sheep.

It must be remembered that sheep farming as a fighting machine is a double-barrelled weapon. People of every class have been led during the winter months to realize the value and the use of wool. Wool for soldiers' socks has been difficult to obtain in any quantity and yarn has increased in price from 75 cents to \$1.25 a pound. Wool has been used to line soldiers' coats much in the same manner as the Russians in Western Canada use the sheep skin to fashion jackets which they wear as protection against our, northcountry winters. Wool is used to such an extent in manufacturing underwear and khaki garments for the army, that mills are working overtime to keep abreast of war office orders and in Canada wool has increased in value, within a year, by 12 to 13 cents a lb. At the price now realized, wool

AVERAGE MARKET PRICES-CANADA.

Mutton (live)

	Mutte	on (live)	Lamb (live)
Toronto Montreal Winnipeg	5.19-5.56	July 1915 5.25-6.31 5.81-6.19 7.15-7.63	July 1914 6.63- 5.94-6.69 6.31-7.25	July 1915 8.50- 8.58-9.15 6.00-8.63

WHOLESALE PRICES-SMITHFIELD MARKET-LONDON.

Mutton (dressed)

July, 1st	week, 1914.
Scotch	16 10 17 ets. per 11.
Australian	71 to S ets. per 1b.
	Lumb (dressed
New Zealand	12 to 12; etc. p.r 16.

July, 1st week, 1915. 19 to 20 cts. per ID. 131 to 131 cts. per 16 161 to 17 cts. per ID.

and stimulus to the whole propaganda. Organization will perfect what the war has begun. The industry will never again die.

Cleaning Stables in Wet Weather. Editor "The Farmer's Advocate":

Having completed a new poultry house and having removed the birds to the same we decided to thoroughly clean all the stables through which they had been rambling. This decision was some what clinched by an editorial which we read in "The Advocate" some time ago which suggested that the webs be cleaned from the stable windows.

To begin our cleaning we took out all the old, badly-shaped and patched up boards and replaced them with straight ones of the proper length. Next we took an old broom and swept down all the ceilings, walls and windows. We then cleaned and scraped out all the manure, mildewed straw and dirt from the floors, after which we mixed up our whitewash, which was made strong with good lime, got our small spray pump into position, filled it and began the white-washing operation. We sprayed thoroughly all the walls, around the windows, doors and posts, the mangers, stallboards and all boards in the building. We sprayed some of the ceiling and floor too. Then when that had dried we took some warm water in an old pail and old pail and washed down the windows inside and out, using an old cloth. As we washed a window we dashed cold water on it with a dipper to clear it of dirt, and so on till all the windows were done. One would really be surprised at the sweet, cool and refreshing smell which greets a Person when entering the stables instead of the old dirty, musty smell and it looks a hundred per cent, better. True, it takes time, and time is money but what lovely weather the first two

profitable by-products of the

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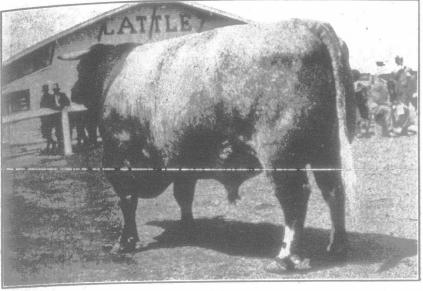
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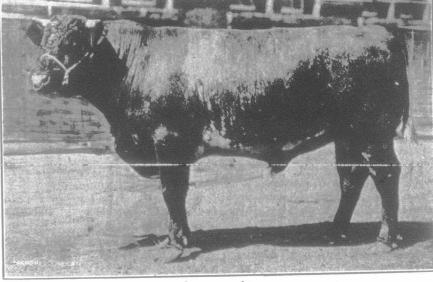
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SEPTEMBER 2, 1915 THE FARMER'S ADVOCATE. Some Western Champions in 1915.

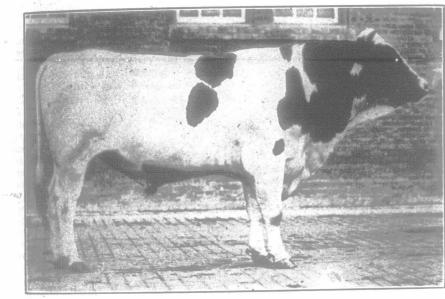


Oakland Star.

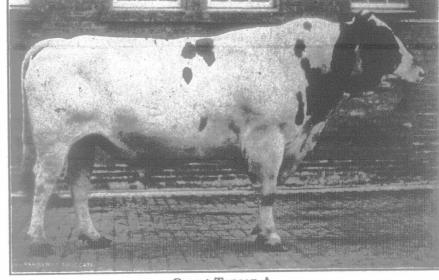


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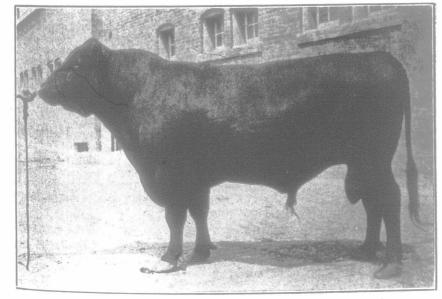
Opportunity.

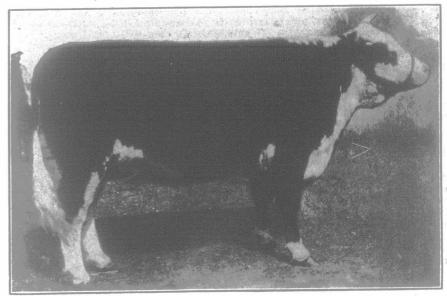


Sir Fayne of Golden West.



Count Tensen A.



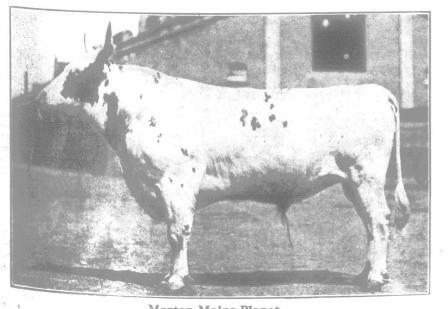


oles in Wet Weather. er's Advocate'':

d a new poultry house and birds to the same we decided all the stables through which oling. This decision was some n editorial which we read in one time ago which suggested be cleaned from the stable

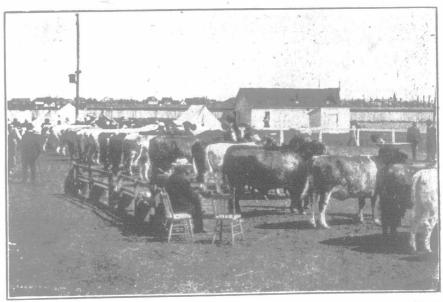
aning we took out all the old, atched up boards and replaced ones of the proper length. Next oom and swept down all the windows. We then cleaned and manure, mildewed straw and s, after which we mixed up our was made strong with good ll spray pump into position, the white-washing operation. ghly all the walls, around the d posts, the mangers, stallds in the building. We sprayed r and floor too. Then when took some warm water in an d down the windows inside and loth. As we washed a window ater on it with a dipper to d so on till all the windows ould really he surprised at the freshing smell which greets a ng the stables instead of the mell and it looks a hundred rue, it takes time, and time is lovely weather the first two

Elm Park Ringleader 7th.



Morton Mains Planet.

Beau Fairy.



A Shorthorn Line-up at Brandon.

1915

3,011

538

712

561 473

20

55

53

70

38

17

41

9

111

the looss of the stables will repay one let alone pens and has nine windows. Try cleaning the smill. It doesn't take half the time one s.a.l.s, if you haven't already done so, and you would think as two of us did ours, all but repl.c- will be more than pleased with the results ing the boards, in about six hours or less and our barn wall is 34 feet by 50 feet and is divided

weeks of August were for such chores. Then just into horse and cow stables, turnip bin and pig the ONE WHO HAS TRIED.

1914

3,414

The Story of the Live-stock Records.

BREED

Shorthorn

By J. W. Brant.

It would indeed have been strange if, considering the stress under, which the World is striving at the present time, the registration of pure-bred live stock had continued this year in the same even and progressive way that had characterized it since the organization of the Canadian Na.i.nal Live Stock Records System. Yet the disturbance has not been so noticeable as might have been expected. In fact, while the aggregate is rather less than in some former years, on the whole the deficiency is anything but striking, except in one or two instances. Indeed, the result can be said to show the stability both of the system and of the live stock interests of the country.

Every year there are naturally variations, and this year in that respect has not been vastly different from any other. Importations have been fewer, but that can be traced rather to the disturbed state of affairs in Europe than to any disruption in Canada. As far as the registrations are concerned, statistics compiled up to as late as August indicate, as has been suggested, It le discrepancy in the work. Indeed, the two leading beef breeds, the Shorthorns and the Herefords, each show a slight increase from January to August this year compared with a similar period in 1914. Of the leading dairy Lreeds the Ayrshire, in the first instance, shows an increase, but the Jerseys exhibit a decline. This latt r, however, is nothing remarkable, for it might mean, as in other years, that records are a little late in coming in. In other breeds the Galloway and Aberdeen-Angus, on the one hand, and French Cattle and Red Polled, on the other, there is a decrease, but Guernseys show a slight improvement. A noteworthy feature is that for the first time, Brown Swiss this year make an appearance on the records, the number being 22.

Swine and sheep both exhibit a decrease, the former to a marked extent, due undoubtedly. to the rush to market that characterized the latter part of last year and the early part of this.

Turning to horses we find that while Clydesdales, Shires, Belgians, Standard-breds, Thoroughbreds and Ponies have fallen off this year as compared with last, flackneys, which have always shown variation from year to year, Percherons, which feil away in 1914 and the French Horses have increased.

To make a long story short here are the figures of the records from January to August of this and last year :--

1915

7,157

108

52

64

22

Hereford 612 831 Ayıshire Jersey Aberdeen-Angus 407 512 19 Guernsey Galloway French Catile 71 Red Polled Brown Swiss 1.152 Swine 618 2.16570 Shire Percheron 406 Suffolk Punch 21 Belgian 56 Hackney 103 Standard Bred 114 Thoroughbred 36 20Pony .. French Hors s French Coach

The importations for the same periods show a distinct falling-off for 1915, owing to the war. In cattle only one Shorthorn, 6 Ayrshires and 62 Jerseys, have come in up to August 1915. In the sime time, 1914, there were imported 3 Shorthorns, 172 Herefords, 4 Ayrshires, 47 Jerseys, 31 Galloways, 41 Aberdeen-Angus, 5 Guernseys, 2 Red Peled and 1 Brown Swiss. In 1915, 89 sheep have been imported as against 10 in 1914; and 1 pig has come in this year as against 25 last season. The horse importations have shown a distinct falling-off. In 1914, 128 Clydesdales were imported up to August; this year only 13. Last year, 135 Percherons came in, this year only 51. There were 6 Shires imported in 1914 and 5 in 1915. Thirty-nine Belgians came into the country up to August 1914: only 6 this No Hac neys have come in this year, but 67 Standard-breds, 17 Thoroughbreds, 19 ponies, 2 French Coach, and 1 Morgan and 1 German Coach, are listed as coming in up to August, in 1915.

It is interesting when discussing the records to know just how many of all breeds of stock have been recorded at Ottawa. The total records of all breeds of cattle and horses to the end of 1914 were :-

CATTLE.-Shorthorn, 208,558; Ayrshire, 51,-813: Hereford, 17,331; Jersev, 5,547; Gallowav, 2,107; Aberdeen-Angus, 8,828 Guernsey, 902, French Canadian, 3,493; Red Polled, 2,136.

HORSES.-Clydesdale, 50,862; Shire, 2,225; Hackney, 1,824; French Canadian, 1.549 Per cheron, 9,076: Pelgian, 793; 1,683; Thoroughbred, 1,743; Pony, 952; Suffolk Punch 327; French Coach, 101.

FOUNDED 1866

£52-proof that the dual-purpose Shorthorn is popular in Britain. The highest price paid was 240 guineas given by Sir Gilbert Greenell for Barrington Constance, full of Cranford blood.

Farmers in many of our sport-loving counties have protested loudly against the stoppage of racing by the Government, because, they declare, they are losing money upon the Thoroughbred colts they have produced this year and last year. These are rendered uscless on account of racing stopping. The Government has been urged to ma c purchases of young stock or to induce owners of Lreading establishments to retain them in private hands, by offering prizes at agricultural shows. As if the Government hasn't enough of its own worries ahead!

In the purent Aberdeen-Angus Cattle Society 13 there are now 542 members and a bank halance of £2,287. Captain Claud Ralston, Glamis, is the new president,

23 To the R. A. S. E. fund that is to help the French farmers in the stricken lands 'twixt Marne and Meuse, H. M. King George has given five 816 354 Southdown Rams. A big shipment of ram lambs 1,500 of that breed given by lovers of the Southdown 59 are being urgently shipped to France. 384

George Leigh, a one time big buyer of the Hereford, when the game boomed on two continents, has begun to get busy again, consequent upon our country being declared free of fost andmouth disease. He has just secured for a Kentucky lover of the white-faced breed, four bulls, thirte'n cows and their thir een calves, and ten heifers. The Royal Show winning bull Renown, and the 1915 Royal Show Champion cow, Clive Iris 3rd are among the crowd-some heaf!

One of the very few slows left in the Old Country this year was the Royal Lancashire, held at Blac barn, in the heart of an industrial contre, and responsible for a big "gate" and a fine all-round exhibition. The Shorthorn bull championship fell to C. W. Kellock's Jack Tar, a white, thic ly-fleshed, and fill of character. Ere a bull can win a championship at this exhibition, he must be shown and retained by his breder. This gives the rch man who buys everything he sees a rare knock. J. C. Toppin's Bright Pearl was the champion Shorthorn cow and her dam, Bright Jewel was reserve. The champion dairy cow was Lord Lucas' Charity 23rd, placed before Primrose Gift, the Royal heroine. Charity 23rd gave 41 lbs. 9 ounces of milk in the ring.

The premier Shire mare was J. G. Williams Halstead Duchess VII, which headed a ring full of brood mares with foals at foot, making one of the finest sights ever seen in the North of England.

Trift geldings made a fine array and the Liverpool corporation took chief spoils with One gelding Shires of immense proportions. shown was a Totton-bred one that cost his original buyers at that sale £2.000. He turned out useless as a stallion and was "al'ered" to work in the shafts of a farmer's cort! Hunters arain came out strong but breeding Hackneys were missing from the breeding cl ss s but there were several harness classes and Mrs. J. Putman.

1390

Britain were sc. Canada stated be rais to the greed s to be h

called

SEPTE

CATTLE	1914	
Shorthorn	7,117	
Hereford	1,000	
Ayrshire	2,133	
Jersev	763	
Aherdeen-Angus	842	
French Cattle		
	63	
Galloway	74	
Guernsey	61	
Brown Swiss		

The numbers for sheep were 1,824 for the first seven months of 1914 as compared with 1,578 in 1915. Of swine the numbers for the same period in 1914 were 8,294 against 5,198 ths year, a deficiency of upwards of 3,000. Both sheep and swine may pick up before the year is out.

Of horses the records from January to August in the two years stand :-

TYPE	1914	1915
Clydesdale	2,045	1,819
Percheron	332	307
Shire	99	47
Belgian	70	46
Suffolk Punch	18	20
Hackney	55	63
Standard Bred	276	178
Thoroughbred	110	81
Pony	202	39
French Coach	6	3
French Horses	17	32

The total of all live stock records from January to August this year is 21,598 against 25,504 in 1914, a deficiency of 3,906, for 3,342 of which swine and sheep are responsible

The transfers for the same periods, indicating as they do to some extent the volume of business, will also be found interesting. From January to August in 1914 they totalled 10,741 against 8,865 this year as follows :-

1,149 The total number of swine record to the end 2,335 of 1914 was 129,371; the total number of sheep 504 was 28,986. 698

English Live Stock News and Views. 43 Editor "The Farmer's Advocate"

Sales of sheep and hirings of pedigree rams of all kinds of breeds are the chief events of the period as I write. For the hire of a Hampshire Down ram, J. H. Ismay, the shipping magnate, has paid 105 guineas and that has been an average figure, while 60 guineas and round about have been paid for rams bought outright.

At Totnes, the South Devon sheep have been selling freely and when a ram owned by E. W. Pody, Lis eard, went for 60 guineas, that breed established a record.

Suffols sheep are in universal request and are selling freely to Scotland, where they are making admirable crosses for mutton purposes. At the Suffold Society's sheep sale in Ipswich, 90 gu neas were paid for Herbert Smith's ram that was second at the Royal Show. A neighbor bought it and Smith bought his neighbor's test ram-a sort of official inter-change of blood.

Oxford Down rams are selling at 61 guineas and prices live that.

The 792 head of Hampshire Down sheep owned by the late Lord Rothschild at Tring Park realized £3,183, or an average for the lot of £4. The 66 ram lambs fetched £571 14s. 6d.

Beef Shorthorns are selling well at public auction. Thirty-one head of Gloucest rshire-bred ones, owned by F. A. Beauchamp, at Bath, realised £1,589, or £51 apiece. Eighty-three Cheshire-bred dairy Shorthorns auctioned by Robert Heath, realized £4,271, or an average of

Standard-bred a newcomer from Aylesbury was loaded with honors by the judges.

W. Par'in-Moore, a Cumber'and breeder, has hean elected President of the English Shorthorn Society.

The London Smithfield Show is to be held as usual in December.

CLAIM FOR CANADIAN CATTLE IN ENGLAND

An aritation is taking place, al' over England and Scotland, as I write, in favor of Canada being allowed to send store cattle to Britain, where the zealots for the scheme, fear, there will soon he a shortage of heef supplies keenly felt. The claimants for Canadian cattle ha e gone so far as to as' the President of the Board of Agriculture to receive them and he has sanctioned the parley. In the House of Commons too, the subiect has been raised and Mr. Acland realying on the behalf of the Government there stated that President was not, at the moment, prevared to introduce the legislation that would be necessary to remove the existing har un against store cattle admitted from o'er the seas.

But there was one important statement made and that was in regard to the importation for slaughter at the port of landing of fat cattle from Canada. Mr. Acland declared that there was nothing against that. The President was carefully considering what arrangements could be made for the re-creation of forein animal wharves for the meeption of such cottle, form of trade having practically censed during recent years.

The subject of cattle disease is the horey at the back of the whole thing. British Freders of podiareod stock are afraid that contacion may be brought over. The contiguity of Canada to United States, America, is the biggest bar that will have to be lifted.

At a big farmers' meeting held in Norwich, England, it was declared by G. Cohon, that everyw stantly ever as in the less ex with 11 camp. the Re The D Dublin both k becaus deman all th tempta them f every k within high in The la equal 'seven the pro able to Wit no ind finding section through horses scarcit mibita doubt in one far a sales (and q drivin difficu

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SEPTEMBER 2, 1915

Britain was running short of cattle and stores ware scarce and commanding exorbitant prices. Canada had a large supply of young cattle, he Canada nau a large supply of young cattle, he stated further, and if the embargo could be raised plenty of stores would he shipped to the country. That is exactly what our pedi-greed stockmen do not want! A big debate is to be held in London, the gathering having been called together by "The Free Importation of

Canadian Cattle Association of Great Britain." It has a high-sounding name this-but I feei sure it will fall at the first hurdle. Birkenhead with its lairages is still available for Canadian cattle s nt over for immediate slaughter .- "Thus far and no further" say the pedigreed stockmen of England! Can you really blame them after all?

THE FARMER'S ADVOCATE.

G. T. BURROWS. London, England.



A Modern Sanitary Stable.

The War and the Scottish Show Season.

which impresses everyone is not so much the absence of exhibits or the public, as the absence of what may be termed "The Show Spirit." We have held most of the principal shows except the Glasoow Show in May, and the H. and A. S. Show at Edinburgh, the Stirling, Perth, Forfar and Kincardines.ire Shows, all county events of the first rank, some for one reason and some for another connected with the War have been abandoned. Generally the disposition not to hold shows is most marked in districts in which the existence of the War and its more serious aspects are very patent. Thus in the north of Scotland and along the east coast it is not easy to forget that the country is passing through a scrious crisis. There are soldiers and training camps everywhere. Warships in large numbers are constantly moving to-and-fro on the North Sea, and ever and anon rumors are abroad of movements in the Fleet which tell of doings of a more or less exciting nature. The Glasgow Show Yard with its full equipment of buildings is a miliary camp. So also is the splendid show ground of the Royal Dublin Society at Bell's Bridge, Dublin. The Dublin Horse Show, the great event of the Dublin season, is for the second year ahandoned, both because of the fact now stated and also because there are few horses to show. The demand of the War Office having swallowed up all the spare horse flesh, men are under no temptation to put expense upon horses to fit them for the show-ring. All surplus horses of every kind have met a ready market and possibly, within living memory, horses have not been so high in price as they are at the present hour. The last time values were anything like being equal to those now ruling was during the "seventics" after the Franco-Prussian War. But the present high prices are more directly traceable to War demands than these were. With such a demand as now prevails there is no inducement to show horses for the purpose of finding a market for them. Consequently the sections of the shows which have be n weakest all through this season are those for light-legged horses-Hunters, Hackneys and Riding Hacks. The scarcity of the first named is directly due to military demands. The second class have no doubt been put out of fashion by motor traction in one form or other, and the Hackney is not so far a special favor te for military purposes. Some sales of Hackney Studs have taken place recently and quite good prices have been realized. Good driving horses are higher in price and more difficult to obtain than they ever have been. The reason is not far to seek. Not only are fewer Hackneys have been far to seek. Hackneys being bred, but breeding mares of the

We have had quite a successful show season better class are dying out and for the past ten in spite of the War and is d.s.ractions. The lact years there has been a gradual reduction in the number of studs of the first rank. Several firstclass stallions are still available but these cannot breed the highest class of animal out of second class marcs. The extinction of this class of horse seems to be within measureable distance. These is now no market for the misfits and the absence of such a market is fatal to the continued prosperity of any breed.

Draft horse sections in the shows, which have been held, have been quite as well-filled as ever and indeed in some cas's the exhibition has been the best held in the history of the associations concerned. This was very much the case at the Edinburgh show. It was originally intended that the show of 1915 should not be held because it was arranged that the H. and A. S. Show should means to hold a demonstration of meter tractors have been held in Edinburgh during the week now H. and A. S. Show the directors of the Edin- area of land out under the rlough in the coming hurgh Agricultural Association were placed in a winter and how the increasing demand for dairy

£200 of an average; the exhibits were of an whole Mr. exceptionally high-class order and on the Richardson exhibited the Royal Champion Shorthorn buli, a marvellous animal; the Doomnolm herd of Aberdeen-Angus cattle sent forth some very fine specimens, and took most of the first prizes for the bred; Shetland Ponics were a fine display, but when all is said, the Clydesdale section was the prime attraction. Nearly all the best representatives of the breed were on exhibition. Champion honors went to the inbeaten champion, Baron's Seal from the Montgomery Studs, and the Royal champion female Andrew Brooks' Lady Betty by Apukwa, a great mare, won the Cawdor Cup. There was a very fine won the Cawdor Cup. There was a very fine show of Clydesdale geldings. A feature of the effect of the War on agricul-

ture has been the great demand for Clydesdales for transport purposes. Thousands of medium weight and medium quality horses have been bought up by army agents and we believe these horses have given great satisfaction in the field. They are used in shifting batteries and are indeed indispensable in artillery warfare, but to a still greater extent are they employed, we believe in the transport service. They are hitched on to the great wagons which convey supplies and stores to the front. After the point is reached at which the motors must be silenced the Clydesdale draft horses are hitched on, and in the darkness they convey stores and supplies to the trenches. It is a wild job at times, but the horses do their part well.

The effect which the War has had on shows, has a bearing on agricultural education and exhibits connected therewith. During the past ten or twenty years these departments of the great shows have become increasingly popular and interesting. The colleges have made exhibits which in respect of educative value leave nothing to be desired. But the War has exacted a heavy to'l of those employed by the colleges and they have therefore been compelled to curtail the extent of their exhibits or not to exhibit at all. In either case the show-going public are insers. At the Royal only one Collere made an exhibitthe Midland Institute at Kingston, Derbyshire. This is one of the most successful colleges in England and for practical value the exhibit at Nottingham was very difficult to heat. The average farmer who visited that stand was bound to come away a better-informed and more in-telligent man. He could not but learn much that he did not have at his finger-ends, although the information was almost indispensable to his success as a farmer. When colleges show this side of their activities to the average farmer he is disposed to view them and their teachers with a more kindly eye.

The scarcity of labor and high price of horses have had a marked effect in rendering more conular the department of shows in which anything (in the nature of motor traction or mechanical substitutes for labor are to be found. Perhans the two most clament demands of farmers at present are for more milkers, and more sneedy forms of movement. The milking machines and motor tractors are ful of intent, and there can be no doubt that the War will leave the farmer less dependent on 'orse traction than he has bern in The Highland and Agricultural Society the past

1391

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ADIAN CATTLE IN ENGLAND.

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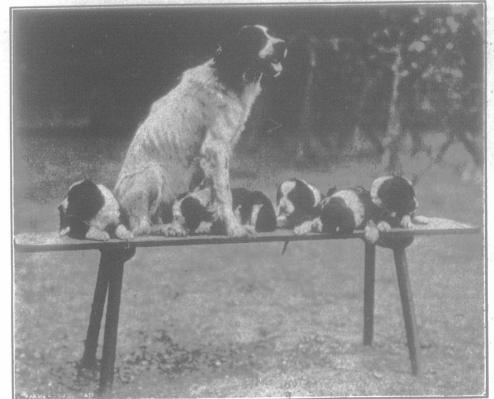
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dilemma. If they followed a like policy in 1916 when in all likelihood the National Show would be held in Edinburgh the difficulty would arise of the Edinburgh Association having no show for two years in succession, a con ingency almost fatal to the existence of the Association. It was therefore determined to hold a one-day show in the middle of the week on which the H. and A. S. Show was to have been hold. The National Society came forward handsomèly with a grant of £100 and as it turned out the show proved an unrualified success. The gate money was over £440 as compared with £185 last year and something like

The object is mainly to discover in October. ended. But when it was decided not to hold the what li'elihood exists of there being an extended



An English Setter and Her Progeny.

1392

THE FARMER'S ADVOCATE.

produce is to be met consistently with the decreasing supply of agricultural labor. At present the British farmer is being placed upon the horns of an agricultural dilemma. The Government calls for recruits. "Men, and still more men," as Lord Kitchener puts it, and the farmer is being soundly rated because there is a suspicion abroad that the agricultural element have not enlisted in anything like the same proportions as other sections of the community. On the other hand the farmer is summoned to grow more food for man and beast. He is told plainly enough that he must do much more than he is doing. His answer is sometimes difficult to counter. cannot do both things that you demand. I cannot let my sons and my servants enlist, and at the same time grow the increased crops that you demand. I cannot do both : which must I leave undone?", A doctrinaire finds the answer easy. A doctrinaire finds the answer easy. But he usually forgets that agriculture is a

seasonal trade that its success is contingent upon weather conditions, and that neither Nature nor the Weather pay much attention to the ups-anddowns in the labor marset. Agriculture largely employs skilled labor. This does not mean that a man needs to serve a long apprenticeship in order to plough and sow and reap and mow, but it does mean that he cannot do these things without being taught how to do them. Laborsaving implements of all kinds are in keen request, yet experience does not show that such implements should be taken up suddenly. Trials are much more useful than examinations of motors or other machinery at rest, and the proposal to hold such trials of motor tractors in the Perth or Edinburgh districts should meet with cordial approbation.

Implement makers as a rule are just as careless about attending and exhibiting at shows as any other class of the community. They have

great difficulty in getting forward their raw material and oftener greater difficulty in getting away their finished article, and always grave anxiety as to whether goods and machinery will reach their distination and when. It was really this question of transport which cast a gloom over the proposal to hold the H. and A. S. Show, It might be all right, but it could just as easily be all wrong. No one could tell what might have happened had there been a great battle and trains conveying wounded men been hurrying over the rails in all directions. Shows and exhibits and crowds would have got scant consideration under these conditions, and therefore it was perhaps wisest to abandon the great shows. It is easy being wise after the event, but that sort of wis dom is not available while the events to which it applies are still future.

SCOTLAND VET

FOUNDED 1866

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Editor

In ye are idle m feed hi hae be land, ernmen him ta a fair mankir say th probal vears a Scotla an' soi an' so condeet gin we tae on fathers their turnin mair o or die else ta up sta gettin' for the for in tae ha stuck 1 an' it women body j acter to hae But dootin

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When the Herd Comes Home from the Show.

Feeders' problems are many; fitters' problems It is one thing to get the herd ready are more. for the exhibition; it is another to feed and manage it from one exhibition to the next. With plenty of feed and judicious care, it is not a difficult process to put flesh and finish on a beef animal of the right type. True there is a certa'n amount of what stockmen call the fine art in getting that extra quality of finish by which champions are known, but, as a general thing, a man with average intelligence and a love for live stock can soon learn to feed animals fat. It is not so easy to let these animals down in flesh

and still preserve their general health and fecundity. Analyses show us that in actual constituents the animal is very little different from the plants upon which it feeds. Each has its comhustible and incombustible materials differing very little the one from the other. Nature has prefrom the other. pared the complex feed which the animal requires and in letting the show stock down in flesh after the exhibitions are over the first thing to remember is to follow nature and feed the stock as closely as possible to the manner in which under natural conditions they would feed themselves-milk for the young stock and grass for the older animals. A good mixture of pasture grasses affords a complete ration and should form the basis of the food material used, in bringing the animal back to field condition. There is a point also in the fact that mixed grasses are better than one grass alone. This should be remembered when compounding rations during the winter season of dry feeding, and variety and mixtures should be depended upon more than feeding from few or single plants.

centage of barren females and impotent males is found amongst animals which have been fitted and refitted and after each fitting let down rapidly in flesh.

We are discussing particularly the influence of care and attention after the show season upon the breeding propensities of the herd. Any herd of stock of show calibre should be more valuable as breeding stock than as exhibition or advertising stock. . It is from this kind of toppers of their respective breeds that the stockman hopes to improve those breeds. One of the main things, then, especially with the younger stre't, but also

and force it to remain in the pasture through cold, protracted rainy spells such as are more or less frequent after the shows are over.

A great deal depends upon the quality of feed given as to whether or not show animals become regular breeders. A very dry ration is unfavorable to impregnation. The breeding animals of the herd, after they have returned from the show and after grass is gone for the season, should get a d'et containing sufficient succulence and one which tends to keep the digestive system in good order There is a very close relation between nutrition and reproduction. Of course, care must be taken

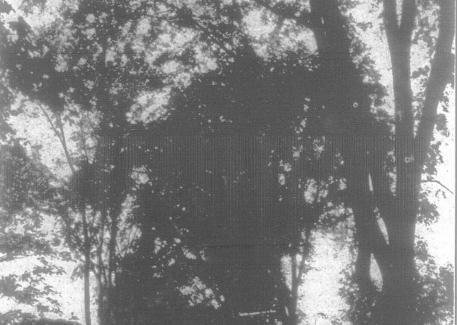
not to feed "so much succulent feed that a pronounced laxative condition of the bowels is produced. Avoid, after the animals have been let down in flesh, feeds rich in car bonaceous materials and fats, and encourage the development of muscle and tissue by the use of plenty of nitrogenous feeds. If it is not de sired to turn the cattle out to pasture they may be let down in condition to very good advantage by the use of soiling crops fed either inside or in a raddock. If this sys tem is followed each animal should run loose in a box stall and have at least five or six hours outdoor exercise in a large paddock. During fly time, this outside exercise could be given to best advantage at night. Kept inside in this manner the cattle may get a little better attention as the stockman may find time to keep their coats in good condition by currying and rubbing down, This will help in the change from show feeding to ordinary feeding for breeding purposes

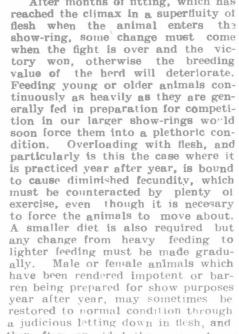
Gradually ease off on the grain fed and if the stock have been get ting the heavier grains such as corn accompanied by the wheat and stimulative feeding of proprietary feeds or certain fatty by-products these should be gradually dropped and their place taken by some of the coarser grains, particularly oats. There is no better grain feed for cattle than oats. Especially is this true of the younger stock. An Old Country authority on feeding states that wheat bran, clover hay, and cut oats is one of the hest combinations he has ever tried and this should be the basis of a very good ration in changing from show-yard feeding to ordinary breeding-herd feeding. Of course, pasture grass will very easily take the place of the clover hay and the oats could be fed rolled, or ground in place of the cut sheaves. As winter comes on, roots or silage or roots and silage should form the bulk of the ration, together with clover hay all they will eat, and the necessary grain feeds composed mainly of oats to keep them in good condition. Rape is a good fall feed as is also secondcrop red clover. It is necessary for the stockman to know his

composing the herd. What will suffice for one

condition. We have seen other cattle that would

We have seen well-bred







A Quebec Macadamized Road, Lower Ormstown.

thereafter, provided they are not again fitted to a high state, go on as regular and frequent re-producers of their kind. Any changes which are made in the feeding and care of the herd should be accomplished as gradually as possible. It is not good practice with a highly fitted, well-caredfor show herd to return from the shows, and be forced to look after themselves for the rest of the season. It is not conducive to increased fecundity to make such violent changes, and animals in an over-fat condition, non-breeders, are not as likely to have the activity of their generative organs restored as where careful, systematic and gradual reduction in flesh is accomplished through this class of feeding. The largest per-

with the older animals, is to see to it that they get sufficient exercise when they return to their cattle thoroughly and to study the re uirements home farms. The animals, while being fitted, are and the individuality of each and every animal generally kept as quiet as possible in so far as this is conducive to their better condition when show time arrives. After the shows they are animal will not be enough for another and yet inclined to be lazy and may not work of the shows they are animal will not be enough for another and yet inclined to be lazy and may not move about too much for a third. We have seen well-bred cattle actually gain in flesh on a heavy feedinger sufficiently unless encouraged by force to do so. turnips and good oat straw, but of course, these As a general thing, however, if they are given the cattle were not, in the beginning, in show-yard free run of a pasture field they will take sufficient exercise. Care should be taken in turning them make very little gain on a heavy feeding of roots out if they have not been throughout the summer and clover hay with a little grain thrown in. A great deal depends upon the animals, but we wish accustomed to feeding outside. They must be accustomed to the new conditions gradually. It to again emphasize the fact that any letting down would not do to turn a pampered animal out

three o this, w Govern invalid I wou than t yard. head] their wark search hasn't we had 'probl the on human that i tak' t he's w alive] mon. can in The agains none (oot o' nine o lazines is on

in tim ent:rel mak' law of It's a to har but w

getting forward their raw greater difficulty in getting article, and always grave er goods and machinery will. on and when. It was really nsport which cast a gloom hold the H. and A. S. Show, t, but it could just as easily ne could tell what might have been a great battle and trains men been hurrying over the s. Shows and exhibits and ot scant consideration under d therefore it was perhaps he great shows. It is easy event, but that sort of wise while the events to which iture.

SCOTLAND YET.

Show.

ain in the pasture through y spells such as are more or e shows are over.

nds upon the quality of feed or not show animals become very dry ration is unfavorable he breeding animals of the e returned from the show and or the season, should get a ient succulence and one which gestive system in good order e relation between nutrition f course, care must be taken feed "so much succulent feed pronounced laxative condithe bowels is produced after the animals have been n in flesh, feeds rich in carus materials and fats, and ge the development of muscle ue by the use of plenty of ous feeds. If it is not deturn the cattle out to pasy may be let down in cono very good advantage by of soiling crops fed either r in a raddock. If this sys ollowed each animal should e in a box stall and have at e or six hours outdoor exera large paddock. During fly is outside exercise could be best advantage at night. side in this manner the catget a little better attention stockman may find time to eir coats in good condition ing and rubbing down, This o in the change from show to ordinary feeding for breed-

boses. Dually ease off on the grain if the stock have been getheavier grains such as corn heat accompanied by the

SEPTEMBER 2, 1915

in fiesh attempted should be done very gradually, as a rapid change from heavy feeding to light teeding and the consequent shock is liable to permanently injure the animal's digestive system as well as its reproductive system, and the general belief that all that is necessary is to than an animal down quickly in order to overcome the tendency toward barrenness is in error. All changes should be made very gradually. Warington, in his book enicled "Cattle

changes should be must book en.i.led "Cattle Warington, in his book en.i.led "Cattle Breeding" says that "what the practical breeder most needs to learn as to feeding may be summed up in two words, liberality and self-restraint." This applies with greater force to the care of show stock when it returns from the exhibitions than to any other class of feeding. Here, the stockman cannot afford to stint his stock, neither dare he over-feed. He must feed with the same regularity as he did in preparing his herd to go before the judge. He must cut out all pampering and he must follow that "middle road" which no writer, be he theorist or practical man can define.

FARM.

Let the Man Feed Himself. Editor "The Farmer's Advocate":

In a recent number o' yer journal I notice that ye are as in' for information in regard tae the idle man. Ye want tae ken wha is gaein' tae feed him. An' ye mention some suggestions that hae been made as tae gettin' him on tae the land, wi' maybe a wee bit o' help frae the gov-ernment in the way o' a loan that wad enable him tae buy his live stock an' implements an' get a fair start. Frae what experience I hae had wi' mankind I'm inclined tae agree wi' you, when you say that this experiment wad be a failure, in a' probability. It warked a' richt aboot a hundred years ago when oor ancestors cam' oot frae auld Scotland an' the Government gave them free land an' some tools an' a wee puckle o' seed wheat an' so on, but I'm feared that wi' the changed condections o' the present time we'd hae trouble gin we started oot giein' somethin' for naethin' tae onyone that wad tak' it. When oor forefathers landed in this country they had burnt their bridges behind them, an' there was no' turnin' back. They each had their hundred acres mair or less, an' it was 'mak' ypr livin' on it or die in the attempt, for there was naething else tae turn tae. There was no chance tae pull up stakes an' strike for the toon wi' the hope o' gettin' a job in a factory o' some kind or ither, for there was neither factory nor toon tae strike for in those days, an' as it turned oot they seem tae hae got alang vera weel wi'oot them. They stuck tae their job an' it made men oot o' them, an' it cam' vera near makin' men oot o' the women as weel, for they warked as hard as ony-body in those days an' developed muscle an' character that the present generation micht be proud to hae.

But times hae changed, an' as I said. I'm dootin' gin it wad be wise tae try the experiment o' free farms an' stock on the man o' today what is not o' a job. They tell me that the mon wha learns tae swim by usin' a cork-belt or some support o' that kind, never mak's much o' a swimmer an' I hae an' idea that some o' oor idle city men wouldna' mak' vera succes ful farmers gin they had tae he coaxed tae leave toon by a bait o' this kind frae the Government. It has aye been my idea that there are juist three class s o' individuals in a free country like this, wi' a' its opportunities, that should get Government support. These three class s are invalids an' lun t cs an' criminals. An' these last I wouldna' gie mair in the way o' their board than they could earn at a stone-pile in the jailyard. But ablo-bodied men wi' twa hands an' a head hae na richt tae he worryin' the country wi their troubles an' hard-luck stories. There's aye wark for the mon that's encuch in earnest in his search for it. The country has it if the toon hasn't, an' while this is the case I dinna' think we hae ony call as a nation tae bother wi' the "problem o' unemployment." There's really juist the one way tae mak' men oot o' some o' the humanity that exist in oor toons an' cities, an' that is tae let them dae their ain hustlin' or tak' the con equences. Gin a mon docsna' think he's worth the trouble it tak's tae keep himsel' alive let him dee an' mak' room for a better mon. It's nature's way an' we needna' think we can improve on it. There are several reasons why we are up against this problem o' unemployment, but there's none o' them that will tak' the solution o' it, oot o' the hands o' the unemployed himsel'. In nine cases oot o' ten it's strikes or drink or laziness that's at the bottom o' it a'. The first is only a passing condection an' will richt itsel' in time, but the ither twa are different an' rest entirely wi' the individual himsal'. Gin he wiling mak' the first for existence that is pairt o' the law o' the Fnices he will hae the go under. It's an unco' bard thing the say an' doesna' seem to has vera thee'le o' Christian charity aboot it, but when we consecder the fact that o' a' the

THE FARMER'S ADVOCATE.

great men this Warld has ever seen, none o' them won their success wi'oot long-continued effort on their ain pairt, we canna' come tae ony ither conclusion. An' the failures are aye made up frae the class that is lookin' tae the Warld tae gie them 'somethin' for na thing. The Warld does-na' owe onybody a livin' but as a rule she pays guid wages tae the mon wha is willin tae wark. But there may be times when he has tae be main than willin'. This half-hearted lookin' for wark is aboot the next thing tae hopin' ye won't find it, an' a mon that canna' pit enthusiasm an' energy intae the effort tae get a job may hae to dae wi'oot it. What's worth gettin' is worth gaein' alifter an' the Government that provides temporary wark for a' the bums an' "unemployed" that are idlin' aboot the saloons isna' doin' them ony guid but is only makin' condections worse by encouragin' others tae depend on gettin' the same kind o' help. A mon is no mon that has tae be helped over a' the hard places an' the only way tae pit some backbone in him is tae 1:t him help himsel'. It's like the auld story o' helpin' the chickens oot o' the shell. They never recover free the kindness frae the kindness.

I mind hearin' of a couple o' young chaps that lived in this pairt o' the country some years

back. Their feyther died an' left them a guid farm, weel stocked an' free o' debt. It wisna' lang before they got intae the habit o' rinnin' store accounts an' lettin' it gae frae year tae year wi oot settlin' up. It was the same wi', the blac.smith an' everyone else. Before they kenned it they were past help an' when the auld storekeeper died the farm went tae pay the storebill. Weel there was naething for the boys to dae but to move tae a rented farm, an' it was a michty poor farm at that. But they had got their lesson, an' it wasna' lost on them. They got doon tae wark an' tae rinnin' their business on different lines, an' it wisna' lang before they bought the farm they had rented, an' they hae been makin' money ever since.

been makin' money ever since. It a' gops tae show that mair depends on the mon hinsel than on the chance he gets. Sae, gin there's a problem as tae who is tae feed the idle mon, I say let the idle mon solve it. He should he as muc'le interested in it as onybody, an' gin he isna' fed too soon na doot his interest will increase. Aboot the only satisfactory way o' makin' men is tae pit the job in their ain hands.

SANDY FRASER.

What Exhibitions Accomplish.

By J. Lockie Wilson.

Much water has flowed down the Ningara River and past the historic old town hearing the name of Ontario's mighty cataract since a little group of pioneer farmers assembled there for the purpose of organizing their first agricultural fair. Little did they dream that the structure they commenced would become one of the greatest and, perhaps, the most important organizations in the Dominion of Canada, not only from an educational, but also a financial point of view.

In the earlier years of these Agricultural Associations the first to develop was the town hip fair where the settlers proudly exhibited the first Institutions, the farmers of Canada, and particularly those from Ontario, as competitors, more than hold their own.

Substantial grants from Governments and from municital councils have been given for nearly one hundred years for Agricultural Exhibitions. The question is sometimes asked whether this expenditure has been justified by results. Thinking men who have watched the sometimes slow but sure and steady progress of these Agricultural Exhibition Associations in their upward climb, know of a surety that no expenditure of public funds has proved a better inventment. As an evidence of this, in 1915, the Fed ral Minister of



Agriculture, real zing as he does the high educational value of fairs and exhibitions, has increased the subventions to a greater extent than was ever before done in Canada, and no dissenting voice was heard from ei her Government or Oppovition. Notwi hstanding the generous assistance gl en, the mem-bers of these soci ties contributed three dollars for every one recei cd from the sources before mentioned.

The primary function of Fair Boards is the holding of exhibitions, and, as the years go by, better systems take the place of obsplate ones. An evidence of this is the adoption by

leat ive feeding of proprietary r certain fatty by-products hould be gradually dropped r place taken by some of the grains, particularly oats no better grain feed for catoats. Esuecially is this the younger stock. An Old authority on feeding states eat bran, clover hay, and is one of the best combinae has ever tried and this e the basis of a very good n changing from show-yard to ordinary breeding-herd Of course, pasture grass y easily take the place of er hay and the oats could be d, or ground in place of the ves. As winter comes on, silage or roots and silage orm the bulk of the ration, with clover hay all they and the necessary grain mposed mainly of oats to in in good condition. Rape d fall feed as is also second-

the stockman to know his d to study the re uirements y of each and every animal What will suffice for one nough for another and yet rd. We have seen well-bred n flesh on a heavy feeding of straw, but of course, these he beginning, in show-yard seen other cattle that would on a heavy feeding of roots a little grain thrown in. A boon the animals, but we wish the fact that any letting down

Some Winning Grain.

fruits of the virgin soil. Next in order was the county exhibition where, besides agricultural produce, live stock became a prominent feature. The prize-winning live stock and products from these county and township fairs was, in turn, exhibited at a Central Pro incial Exhibition.

Under the Onta: 10 Agriculture and Arts Association, grants were given to the above-mentioned organizations without taking into consideration the manner in which these grants were expended. In 1906 the law was changed, township and county fairs, as such, ceased to exist, and grants are now apportioned according to expenditure by Societies for purely agricultural purposes.

In addition to the above there are in different parts of Canada large exhibitions, national in scope and open to the world, and at these greater nearly all the Societics in the Pro ince of an improved form of fair books. These not only simplify the work of the officials, but prevent errors that frequently o curred under the older methods.

The Departmental Judges have proved a boon to exhibitors of live stock, and all progr ssive fairs in the Pro ince employ these judges in the different classes, and each succeeding year shows a marked im ro ement in the work of these oflicials. Short Courses and Demonstrations for these judges are held a h year for the purpose of arii ing at uniformity of type in both animals and products

which they are expected to judge. When asked, judges are required to give reasons for their decisions, which is proving of educational value.

In previous years prizes were rlaced on farm products without giving any information as to the name and variety of the exhibits. Now, wellconducted fairs supply cards giving necessary information. This is especially valuable to the younger generation of agriculturists. Programs are also arranged, and the hour designated when each judging event will take place, and all are run on schedule time. This should be a universal regulation.

Another feature of importance is the brinning together of buyer and solver of nure-brod horses, cattle, sheep and swine, and pure send grain, and, in this connection, it is unlawful under the new regulations for an Exhibition Association to

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offer a prize for any but registered male animals in the breeding classes. Boards of Directors are urgently requisted to carefully te ise th ir prizelists, and to make awards only for such breeds of live stock and other lines of farm produces as are best suited to the locali ics in which fairs are held. This idea of speciali ing is a most important one. If a fair is hold in a dairy section, one outstanding breed should te sel ct d and every dairy farmer in that locality shoud leep no other than that particular local. Great sconomy would accrue from adop ing this m thod, especially in the use and exchange of male ani-The same is true of grain and potatoes mals. particularly. When a section b com s wel- nown for certain lines of stock and lield crops, there buyers will congregate for the reason that carload lots can be purchased at a minimum expenditure of time and effort.

Marked improvement has be n seen in recent years in the grounds and buildings, and here it might be noted that from the time a visitor enters the gates of an exhibition nothing should meet his eye that would be offensive in any par-ticular if The grounds and buil in shold be bright, clean and attractive, ample stating accommodation should be provided for tir d mo hers with little children tugging at their rowns, and for the old pioneers whose fair days will soon be over.

A few years ago the gambler and thimble rigger were regular visitors at the fairs of Untario, and thousands of dollars were fle ed from the pockets of unwary farmer boys who could ill spare them. But now this has all been changed, and through the hearty co-operation of the directors offifairs and exhibitions, these croos have been curbed in their crookedn se, and will no longer be allowed to work unchee ed a farious gambling devices. No Government grants will be given to exhibitions, the directo's of which, allow these fakirs to operate on their grounds or within 300 yards thereof.

Surprise is frequently expressed by visitors at fairs and exhibitions, especially in Un aria, that the old-time splendid exhibits of agricultural machinery have practically disappeared. Attractive indeed, were they in the past when they were continually surrounded by large crowds of in erested spectators. While these exhibits no longer appear to any extent at Canadian exhi i.ion , there has scarcely been a show of any im o tance in Great Britain or on the Continent in recent years, at which there have not been large exhibits of Canadian farm implements. How sa (anadian farmer to select the best machine if he has no opportunity of comparing one make with ano her at an exhibition? As matters now stand he is at the mercy of glib-tongued agents, and the one who can put his case hest is generaly the one who makes the sale, and this at a time when men are requiring demonstrations to be made in other line of industry before purchasing. every The implement manufacturers of Canada should not, as in this connection, be found turning back the hands of the clock.

In recent years improvement is taking place

Agriculture in Timiskaming District

Between parallels 42 and 46 lies practically all of what is known as Old Ontario. Here for many years man has been plying his trade in all the devious ways that comprise the system of an organized community. Here humlets have grown into villages, villages into towns and towns into cieties, and such has been the development since the axe of the wood-man first rang in the wilds that the Province of Ontario with its 407,262 square miles is known by the proportionately small area which Mes between the latitudes already mentioned. Still mindfil of the wonderful resources of Old Untario our Go ernments have endeavored on the platform and through the of the Prairie Provinces. Furthermore, a settler can eat his supper in his shack at home, take the train and arrive in the capital city of the Province in time for breakfast. These two facts are sufficient to link New to Old Ontario and dissipate the erroneous conception regarding the location of that part of the Pro ince which offers virgin soil to the man who will give his efforts in return, and yields immense revenues to the country through its mills and mines. We of the older-settled districts have listened with wonder to the tale of our parents when they recalled their pioneering davs and told of the hardships and battles for existence. The pioneer is fighting

his ha tle in New Ontario, but there have been few pioneer countries in'o which the settler might ride in a pullman coach and glide up the rivers in a gaso i e launch to his farm and home. The linis aming and Northen Ontario Railway with its branches operating between North Bay and cochrane has let the light into that country, and it, wich modern inventions of all kinds in other lines. has a.ter.d the condi iens under whih a new country s being propled and d elop d. Of the farm lands to the north, that part of the great "Clay Belt" which extend; a ross the Dist ict of Timis-

Press to bring to the attention of the world the marvelous and, as yet, uncomprehend d possibiliever. ties which lie wrapt in the great country north and northwest of Lake Ni, i sing and the Great Northern or New Cntavio, as it is frequently called, has an area of 330,000 square unles; the Government surveyors claim for it 20,000,000 acres of farm lands, unlitted wooded areas, and the richest silver and nickel mines in the world. Added to this is the power, of the rivers in a well-watered, undulating country, making the resources available and uncomprehen-

The expressions "Hinterland" and "Great North Land," which have been useful in bursts of

lakes.

sive in scope.

ever, there are still Sudbury, Algoma, Thunder Bay, Kenora and Rainy Ri er Districts, and to the north of them the District of Patricia large enough to be a Province in itself. This article is not intended to discuss at length the resources of New Ontailo, for the willer his more particularly in mind the agriculture of the District of Timiskaming.

FARMING ON THE GREAT CLAY BELT.

After leaving North Bay one must travel 118 miles north through a wooded country, dotted with lakes connected by rivers, hefore New Liskeard is reached. This town is located on the southern limits

of the clay belt on the T. & N. O. Rail way, and around it, but more especially to the north, are some of the best farms to be found in New Ontario. The country is still very young and the settlers have done remarkably well to establish themselves as they have, but as years go by, there must be a tendency to keep more live stock and maintain the fertility of the soil. The writer is cognizant of all the obstacles that confront such a system of farming in the Timiskaming District, but farms now ten or fifteen years of age are conclusive evidence in favor of this oratory or journalistic efforts have tended to argument. The best crops can not be obtained after selling hay and grain, and although the farmer might not procure the highest market price for his products when fed to live stock, yet the increased yields procured where manure is used, if only in small quantities, will more than balance the yearly operations in favor of the · methods herein suggested.

An Up-to-date Barn in Timiskaming. This barn, under construction, was photographed on the farm of A. J. Kennedy on July 29. When complete, it will be modern in every respect.

kaming has attracted most attention. How-

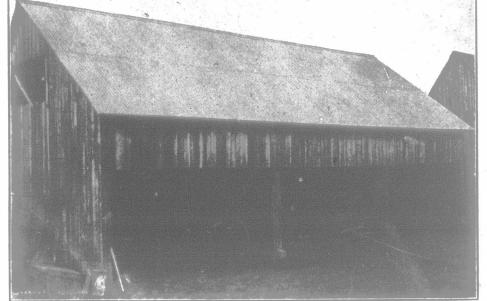
in the putting up of grain and sheaf exhibits at the different fairs in the Province. Never before in the history of Ontario have e hi i'ors at fairs and exhibitions taken such an interst as they are now showing in having every department, particularly inside the main halls, neatly and tastefully arranged.

At fairs and exhibitions opportunities are given to compare different classes of stock, farm products and improved machinery, also many purchases of stock and, particularly, of sure seed grain are effected. The preparat on of li e stock and other agricultural products for exhibitions is itself of educational value, and watc ing the awarding of prizes by expert judges is of decided penefit to interested onlookers. The encouragement of children's exhibits of school work. chickens, grain, roots and flowers has a tend ncy to develop a pride in farming and is varied endeavors. Last, but not least important are the benefits that accrue from the ass milling together at exhibitions of friends and o hers engaged in the same work who seldom meet at other times and who there Cychan e ideas and experiences. These all have an elevating tendency.

Never before in the history of this country have statesmen with a broaden ng outlook given more attention or shown greater interest in assis cultural exhibitions than they are doing to-day, knowing as they do, the excellent wor: that is being done by the intelligent and progres ive Boards of Directors of our several hundred fairs and exhibitions without remumeration or hope of reward other than the knowledge of work well

To save a few seconds time by beating th. train at the crossing has lost many a life.

Stop--Look--listen at the level railway crossing and avoid a tragedy.



Protecting the Farm Machinery.

 $O_{\rm Dx}$ of the two implement sheds on the farm of T. S. Loach, in the Timiskaming District.

shroud the country in a veil of remotiness, separating it from the civilization which we, in Old Ontario, know so vell, and causing readers or hearers to think of New Untario as a vast country in the fastnesses of the north, a region 'from whose bourne no traveller returns," fallacy of this-conception is at once apparent. Cochrane, at the most northerly point file long steel line which the Provincial Govern. nt projected across the Timiskaming District, s practically one degree south of the cly of Winnipeg, and on a line with the best agricultural country

they are hoping a through t increased perhaps way enti developm its powe tion the Smaller but they give the organizat cient lar However, be taken purposes certain n induce a would be A lar ing is wo and balm white w

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There is a difference between the settler and the farmer. The former is clearing his land. selling pulpwood, and growing what cro's he may find consistent with his work of making a living in a new country. All settlers do not make

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inces. Furthermore, a settle in his shack at home, take the the capital city of the Probreakfast. These two facts ink New to Old Ontario and eous conception regarding the rt of the Pro ince which offers man who will give his efforts lds immense revenues to the mills and mines. We of the ts have listened with wonder r parents when they recalled vs and told of the hardships The rioneer is fighting tence. his ha tle in New

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of the clay belt on the T. & N. O. Reil

SEPTEMBER 2, 1915

When the land is cleared, the timber and wood gone, and his 160 acres more or 1088 transformed into a homstead where thing the soil is the chaef pursuit, the sattler sometimes gets uneasy and moves. This is the typical bushman who prefers clearing and br.a ing to the routine of actual farming, he is the one who ges before. Next wil sometimes come the speculator, buying the partly-cleared larm and senting to the farmer who is to remain and the ne hand is his one occupation. All homes caus a e not developed in this tri-ownership manner; the majority we believe ale not, for many ha e brought their fanilies and their all into the country, located their homesteads, secured thar patents from the Crown and prospered. We have in ulged in this digression only to emphasize the signifi-cance of the word "farmer," for it is he who will ultimately prove that faith in the great clay

Belt was not misplaced. It is stated that half a million bushels of oats are consumed annually in the limis aming Dis-Consider also the demand for hay that trict. would correspond with this amount of grain, and the reader will realize at once the tympta ion to dispose of farm products directly. Furth rmore, there is no organization of buyers and shippers to handle live stock as we have in Old On ario, so the encouragement is slight indeed. At Matheson two li.e-stock, associations have been organized, and they are using a pure-bred s a lion, Lull and boar supplied by the Fro incial and F d ral Gov-These organizations should in time ernments. become active enough to handle live ock in a co-operative manner, making it pos ible for the farmer to buy and sell to advantage. Buildings and stables also enter into the proposition and would require considerable capital, but beef cattle and sheep could he housed with reasona le expense, and they would undoubtedly be a penent Although we cannot advocate a to the country. universal adoption of stock farming in the district at present, yet we look forward to the day when this system will be the practice in Timiskaming, as in any country where ag iculture is established on a same basis.

Clover is as native to this new country as pulpwood. Along the roadsides, between the stumps, everywhere, clover grows luxu lantly. Oats, spring wheat, barley and turnips do exceedingly well, and many were the good crops to be seen the last week of July. Fall wheat is also grown with considerable s ccess, and potatoes thrive and yild heavily when i in the proper cultivation. The writer saw filds of oats and harley in Timiskaming, as well as o her crops, that would shame like areas in Old Ontario.

One of the greatest hinderances to the speedy breaking up and settling of Timis aming soils may be explained in one word-speculation. Property is held by parties who do not live on the land, neither are they de eloging it. When a young man wishes to launch out for himself he must often ro some distance from his father's homestead before he can locate. Not because the home farm is always surrounded by o her ind strious settlers who are tilling the soil, but because non-resid nt locators are doing only what they are compell d to do by the real tors and

hoping as the contguous fields are in roved

through the sw at of o h r brows to p o'it I on the

increased value of the land so hogged, and thus

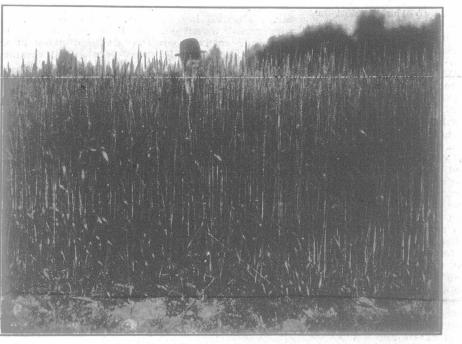
THE FARMER'S ADVOCATE.

makes little more than wages by the time he has hauled and marketed his crop of pulpwood. In spite of this fact the outlet for such tunber is of the utmost importance. It is usually cut in the winter when other work is scarce, and the settler is really paid for clearing his own land. This source of rovenue was not available when the early settler strove for existence in the thicklywooded country. After the remaining trees and branches are piled and burned, clover is usually sown and scratched in with a harrow. This

apart readily in the spring, pulverize, and, mixed with organic matter, make an excell nt seed-bed.

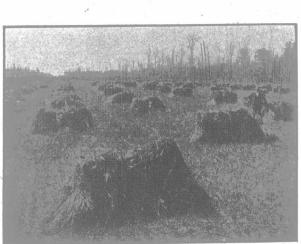
FROM STUMPS TO GRAIN IN ONE YEAR.

The stumps are not always left to rot before neing lifted. Last September, A. J. Kennedy procured a block of land in the wild state, and this season has 145 acres of grain and another 10 acres of roots, potatoes and corn growing where stumps and small timber stood less than 12 months ago. These fields would do credit to any Ontario farm. One



Spring Wheat in Timiskaming. This crop was photographed on the farm of E. F. Stephenson, on July 29, 1915.

clearance makes excellent pastura e for sometime, from the wild. but the stumps which a eorly shillo -ro+ed come out easily after from three to five years, and the land is ready to till. In some cass there is a considerable depth of muskeg, which is of a



cording to the modern' principles. The lighting and ven ilation systems are complete, and when finished will be by far the most upto-date barn the writer saw in the Timiskaming District. Mr. Kenn dy bel'e es no settl r is a good farmer who does not feed his crops on the place. and wih this in mind the stable is being enuipped in a most con enient manner for feeding and care of the live stock. Near Cochrane, M.

important fature of

the place was a large

barn under construc-

tion masuring 46 feet

by 104, and built ac-

Roths ild has 59 acres of crops on land broken during the last 12 months, and W. J. Bauldry has been quite successi l on a new farm just bung cleared

TALES OF THE PIONEER.

One will meet men of all trades and professions in the Timuskaming District. From the college professor to the woodsman who ne er did aught but swing an axe, they are there; they come from far and near, but they are soon at home in the country of their adoption. T. S. Loach is one example of a man who went to the land and "made good." He did not "go back to the land" for he was not from it. Mr. Loach was born in Birmingham, England, and worked as a jeweller in Toronto for Liteen years. Not satisfied with life in the city he assembled his assets amounting to \$500, and moved his family fifteen years ago to the soil. The farm of his choice was wet. "There was not a foot of dry land on it," said Mr. Loach. A pair of cedar snowshoes were used to keep him above the mire while he sowed his first spring wh at, and the first crop was cut with a sickle. One would now be surprised to see the crops and implements on the place. From the plow and harrow to the threshing machine and grinder everything is complete. Neither are they "hous d" out of doors

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way, and around it, but more especially to the north, are some of the best farms to be found in ... ow On-The country tario. is still very young and the settlers have done remarkably well to establish themselves as they have, but as years go by, there must be a tendency to keep more live stock and maintain the fertility of the soil. The writer is cognizant of all the obstacles that confront such a system of farming in the Timiskaming District, but farms now ten or fifteen years of age are conclusive evidence in favor of this

perhaps reap a reward to which thy are in no way entitled. Any Government loo ing to the development of New Cntario shou'd do all wi hin its powers to climinate the element of speculation that tends to the scaling of homes. Smaller farms might have some d sad antages, but they would bring the people closer 'ogether, give them better roads, schools and social organizations, and at the same time pro ide suficlent land for many years on which to work. However, if the lots endowed upon veterans could be taken up and those held purily for sp c lative purposes could be "iumped" if the owner, after a certain number of years, did not settle on it or induce another to in his behalf, the country would benefit considerably.

ATTACKING THE RAW LAND.

A large proportion of the land in Timiskaming is wooded with spruce, balam, birch, poplar and balm of gilead. The latter three are termed "white woods." and from observation appear to most commonly upon the more roling land The farms covered with spruce or mived tumber have been most easily cleared, according to set tlers, and have revealed the most desirable linds of soil. Soruce is the most valuable pulpwood, and the locator of such a homestcad will reap a greater profit for his lebors.

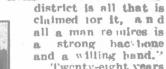
The first operation is clearing. The pulrwood is cut and floated down the rivers or hauled to the Fairnord, and although considerable stress has been laid much the financial ad antagra of cutting and selfing this commodity, the prospec-tive anticle in the second selfing the second secon the settler should not attach too much importance to It. 1 com \$4.00 to \$4.50 rer cord, in the rough, annouses to be the general price and when woodsman part make considerable moment when clearing his land, but the average man

Barley Does Well in Timiskaming.

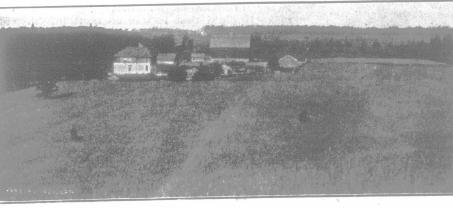
This field of barley was cut and shocked on August 2, 1915. It is expected to thresh a large yield per acre.

mossy nature and detrimental to cultivation and growth of crops. This is loosened with a plow exposed to the weather and burned. 'The good farmer is very careful when burning his land not to allow the fire to go too deeply and remove all can't understand people living in the city.

for two sheds have been erected to preserve the machinery properly. Only four years ago an accident with fire destroyed a complete line of implements and 30 tons of hav. Since that they have been replaced. A workshop has also been put up, and in it a carpen'er's bench and outfit, a grinder, hone-crusher and saw all di en by a 16-horse-rower engine. This farmer who came to the country with as much knowledge of farming as a jeweller requires in his tr d' said, "I This



Twenty-eight years ago John Macharlane loft Tarbut Lo hine in Argylashire, Scotland, and came to Canada. Alter farming for fourteen years in Huron County, Ont., he took his family, including ten children, and moved Timiskaming. to Here he rented a place for a short time, and then moved on to his present farm where he



A Timiskaming View. Overlooking part of the crops and the buildings on E. F. Stephenson's farm.

the decomposing organic matter or humus which overlays the clay. When properly executed the burning will leave the greater part of this substance, which is the life of the land for the first few years. The advantages which accrue from plowing the land in the fall cannot be too strongly emphasized. The share may turn up large lumps of clay in the autumn, but through the good offices of the winter frosts they break

During this brief has lived for eleven years. period the 150 acres, except one, have been cleared, fenced and brought under cultivation. A barn, 48 feet by 68 feet with 21-feet posts, was built in which to store the hav and grain, and now cement floors and mangers are bring 'ns alled in the basement to accommodate stock. Mr. Mac-Farlane is a firm believer in alfaifa, and when visited had the plants growing in rows from

iskam-

st crops can not be obtained and grain, and although not procure the highest market cts when fed to live stock, yet ds procured where manure is nall quantities, will more than operations in favor of the

gested. rence between the settler and tormer is clearing h's land. nd growing what cross he may h his work of making a living All settlers do not make

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depends (The part water be sterilizin third far solution according two days seem, to flavors in a distinc been mad wish to those wl thorough milking milk twi the best where th machine labor ne ing for t involved duces th possible anxious milk ap believe tory or a high-g reasona is enoug ing? is neces tion, al with th sterilizi water, i will abs particle increase to keep teat cu connect thoroug ventilat may be of dust previou should taken from th of all t in the difficult the mi dairym milking conside Of c men c gives t econom the lat cised. be litt only to we vis machin econom

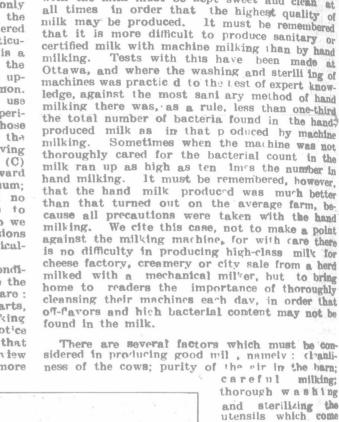
FARMER'S ADVOCATE. THE

THE DAIRY.

Cleanliness the First Consideration in Mechanical Milking.

During the past forty years something over 200 patents, representing different types of milking machines, have been taken out, but it is only little over two or three decades ago that the milking machine began to be seriously considered by the public generally, and dairymen in particu-The milling machine, as we know it, is a lar. recent invention, and it is only during the very past four or five years that its installation in upto-date dairy stables has been at all common. There are four types of machines now in use which Prof. Archihald, of the Central Experimental Farm, Ottawa, classifies as: (A) Those having intermittent suction, no squeeze to the teat and no vacuum in the can; (B) those having suction, pulsation and squeeze to the teat; (C) those having suction, pulsation, and downward squeeze, with the squeeze caused by the vacuum; and (D) those having suction, pulsation and no squeeze to the teat. It is not our purrose to discuss these different types in this article, so we leave the users to come to their own conclusions as to which is the better method of mechanically drawing milk from the cow.

A well-known English writer gives six conditions which must be summed up to determine the real value of the milking machine. These are : simplicity of construction, durability of parts, efficiency in mil'ing, influence on the cow, milking intensity, and cleanliness, Readers will notice that cleanliness is placed last. We believe that the order should be reversed, particularly in view of the fact that the demand for cleaner, more



agent's word for the washing and did it, as little

same trouble with the mechani al miller is trace-

able to the same cause. Every ag nt or machine

man who handles any make of mil ing machine

whatever, should emphasize to hase who hay

that it is absolutely necessary that the parts of

the machine which come in contact in any way

with the milk must be kept sweet and clean at

as possible.

We believe some, at least, of this

careful milking; thorough washing and sterilizing the utensils which come in con act with the milk, and this is where clanliness with the mechanical milder comes in. It has been found that by : im ly rinsing the machine with cold water and af erwards luke-warm with water the bacterial count in the milk will be trom 200 to 500 times as great as where good, careful hand mil ing is whereas, practiced, where the machine parts which come into contact wih the milk are carefully rinsed in cold water and then washed with hot water containing a good washing soda, and this followed by cleansing thorough with the brushes and the sterilizing of all rubber parts in a 10 per cent. salt solution, 5 per cent. lime-water : olution, 21 per cent. formalin solution, or a solu ion of water 72 lbs., salt 10 lbs., and chlorine of lime & R., will give far more satisfactory results; and with the other general precautions the bacterial count should not range more than five or six times that Where chloride of of real good hand milking. Where chlor lime is used it must be added frequen 1_{2} . this point of washing and sterilizing the parts of the machine which come in contact with the milk that we wish to emphasize more srongly than any other. We have viied several farms upon which the various types of miling machines are in operation, and we found on these farms no complaints regarding the machines, and, on three visited in one day, where three different makes of machines were used the o inion erpressed by the owners was that if they had to do without the machine they would do without the cows Most milking-machine operators give the parts of the machine coming in contact with the milk only one or two thorough washings a week Some wash thoroughly once each day; none that we visited washed thoroughly after each mil ing, but all rinse the parts out and keep them in water or in some solution. At one place we found the parts in a wooden bucket containing salt-water solution, but care had not been taken to get all the tubing immersed in the liquid. The Besides, ends of several of the tubes protrud d. dairy authorities tell us that a wooden shall or wooden bucket of any kind is not the most sand tary place to keep milking machine parts in & sterilizing solution. They prefer tin. At another place we found the machine parts all very sweet and clean, as they had just been thoroughly washed on the day of our visit. This dairyman washes his machine thoroughly once a week, and

observing he might be, could fail to not ce the difference in favor of the treated seed. This settler of early Timiskaming days has now a large farm to show for his fourteen years of labor in the pioneer country, labor that was not lightened by the advantages available to the present-day comer. About twenty years ago E. F. Stephenson moored his bark cance near the mouth of the Wabis River, and with two men and a few of the most necessary utens.ls set out to hew his way into the forest. Last year the spring wheat scoring highest in the Field Crop Competition throughout Ontario grew on this farm, which had been reclaimed from the wild and brought under cultivation. Seventy-five acres are now arable, and thirty more acres are cleared and used for pasture. Some years ago Mr. Stephenson erocted a plank-frame barn 36 feet by 46 from a plan which appeared in "The Farmer's Ad ocate" at the time. One alteration, howe er, was made. For the purlin plates sticks of timber 8 inches by

which to procure seed that would be hardy in

that district. The writer never witnessed such a

good example of the benefits of inoculation for

alfalfa seed as the crop showed on this farm.

The greater part of the seed was treated with

nitro-culture, but a few rows were sown

without being inoculated. No one, however, un-

8 inches were used instead of plan's nailed together, which he considers materially strengthens the building. On a southern slope four acres of alfalfa has been growing for five years, and for four years it has been cut twice annual'y. crop has been considered a success on the farm, and this year a westerly slope has been seeded 'the owner of somewhat as an experiment. Silver Spring Farm, as the place is call d, has an occupation in town so the farm is rented at present, but twenty head of cattle and six horses are maintained to keep up the fertility. The accompanying illustration indicates the quality of a crop of spring wheat seen growing on the place, which for length of straw and size of heads could hardly be surpassed.

THE DEMONSTRATION FARM.

In order to test varieties of farm crops and secure information relative to all the various phases of agriculture as applied to the district, a demonstration farm is being operated at Monteith, with W. H. Clemens as Superintendent. The farm is far enough north that climatic conditions are fully tested, and any varietics or strains that do well at Monteith should prove hardy throughout Timiskaming where farming is being carried on. No less than 75 experiments are being conducted on the farm this season. In some cases perhaps the results will be of a negative character, but these are quite as valuable many times as those of a favorable nature. It is important to determine what crops and methods are not suited to any locality and eliminate them, giving place to those that prove Seed grains grown on the their adaptability. plots are sold at a nominal price to settlers. Pure-bred stock is also maintained, and the offspring sold in the same manner. In advition to this an excellent bull is kept in the herd, and used by the farmers li in , in the More acres are being constantly added vicinity. to the clearance, and records of all the costs of clearing, stumping, breaking and tilling are tabulated in such detail that valuable information can be dispensed regarding the operations connected with farming. A ten-acre feld of red clover grown this year was exemplary of the suitability of Timiskaming soil for such a crop. Where live stock is not kert in large numbers the farmer cannot overlook the importance of this wonderful plant, for upon it detends the strength and life of his land. Last year the record hive of bees for Ontario was one of the small apiary kent at the Montei'h farm. Throughout the season these busy bees mathered 147 rounds of honey, and from June 23 to July 23 of 1915 a hive gathered 102 pounds. Those engaged in agricultural work have the services of a District Ronresentative. W. G. Nixon is now in charge of the work in that country, organizing, carrying ideas from one farmer to another, and advising as to the crows best suited to the district and how they should be handled.

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The Kaiser's driv to the world should be complete, now that after a warning from the United States, he goes on and sinks passenger liners without giving the slightest time for the innocent to escape. As we heard one trooper remark the other day when reading the bulletin announcing the sinking of the latest victim of "Kul'ur"-"That is poor sport anyway." What can the neutrals think of it? Where would humanity be under German ""Kultur" ?

Political correspond is ever on its last legs.

Canadian Ayrshires.

sanitary milk and milk products is increasing rapidly in this country. Cleanline: 8 should be the first consideration in all dairy work, not excepting the mil ing machine. We have recently heard of a few complaints regarding the milk delivered at cheese factories from herds where mechanical milkers were used. In several cases the off-flavor was traced directly to the miling machine, but when more care was ta en to keep these machines sweet and clean the objectionable flavor disappeared immediately. We wish to make it plain that it was no fault of the machine, but was due to carelessness or a misunderstanding on the part of those operating the ma-The fact that the milk was all right as chine. soon as better methods were followed in caring for the different parts of the milker demonstrates conclusively that good milk can be subjlid from the milking machine just as easily as in the most sanitary operation of hand milking.

Those dairymen who remember the introduction of the cream sevarator has e no difficulty in recalling instances where a similar trouble occurred in those days. A great deal of the difficulty was then directly due to the misleading teaching of agents to sell the machine. Naturally one of the first questions asked by a farmer or his wife contemplating the purchase of a cream separator, was, 'is it hard to chan?'' Agents soon found this to be one of the questions which they must get around in some manner, and, of course, they invariably advised that it took very little washing, some going so far as to state that once a day would do. The consequence was that a great deal of the milk from the cream secarator, when first used, was not of the best quality. Tt was not the fault of the machine, nor of the operator, so much as of the agent who made the sale. The dairyman and his wife, having all the work they could handle, naturally took the herself to tho: ing. simple done a cups a questio their 1 a nerv hand t her cu At found with t boys operat boys f have little COWS. stripp comple The that . that] of nea of tro placed owner worki COWS all th machi bered includ factor

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the washing and did it, as little believe some, at least, of this the mechanial milder is tracecause. Every ag nt or machine any make of nil ing machine emphasize to hase who huy tely necessary that the parts of h come in contact in uny way ast be kept sweet and clean at er that the highest quality of duced. It must be remembered difficult to produce sanitary or n machine milking than by hand with this have been made at e the washing and sterili ing of tic d to the test of expert knowmost sani ary method of hand s, as a rule, less than one-third of bacteria found in the hand in that p oduced by machine mes when the machine was not for the bacterial count in the igh as ten imes the number in t must be remembered, however, ilk produced was much better out on the average farm, beions were taken with the hand this case, not to make a point ng machine, for with care there producing high-class milk for eamery or city sale from a herd nechanical milver, but to bring the importance of thoroughly achines each day, in order that h bacterial content may not be

ral factors which must be con-ing good mil, namely : cleanli-purity of the sir in the harn; careful milking;

thorough washing and sterilizing the utensils which come in con act with the milk, and this is where cl.anliness with the mechanical milaer comes in. It has been found that by sim ly rinsing the machine with cold water and af erwards luke-warm with water the bacterial count in the milk will be trom 200 to 500 times as great as where good, careful hand mil ing is whereas, practiced, where the machine parts which come into contact wih the milk are carefully rinsed in cold water and then washed with hot water containing a good washing soda,

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depends on rinsing the remainder of the time. The parts are kept in a large wooden tub, fresh water being put on them after each milking; no sterilizing material is used in this water. At a third farm we found the parts in a proprietary solution in a large galvanized tub, the solution, according to the dairyman, being changed every two days, but it had a distinct odor and did not seem to be at all suitable for keeping down bad favors in milk. The parts themselves conveyed However, no complaints had a distinct odor. been made about any trouble with the milk. We wish to point out that it is, in the opinion of those who have operated machines, necessary to thoroughly wash and sterilize all parts of the milking machine which come in contact with the milk twice each day if a low bacterial count and the best class of milk is to be produced. Even where this is followed there should be from the machine a saving of at least 50 per cent. in the abor necessary when milking the cows and caring for the milk. It is this point of extra labor involved in keeping the machine clean that indudes the dairyman to do as little washing as possible. All producers of milk may not be anxious to put on the market certified milk or milk approaching the certified standard, but, we believe that every man producing milk for a factory or for city use is anxious that his milk be a high-grade article. This being so, does it seem reasonable that a thorough washing once a week is enough, coupled with rinsing after each milking? It would seem that more frequent washing is necessary, and, in keeping the parts in solution, always he sure that they are all covered with the solution, and be careful to change this sterilizing material frequently. Even clean water, kept standing for several days in a vessel, will absorb odors and become bad. Any milk particles adhering to the machine parts tend to increase this trouble. Care must also be taken to keep the cows' udders clean and prevent the In this teat cups from dropping to the floor. connection it is always well to have the stables thoroughly clean before milking commences. Good ventilation is necessary that the air in the barn may be as pure as possible, and the stirring up of dust while the cows are being milked or just previous to their being brought to the stable Wi'h these precautions, care should be avoided. taken, with the mil's after it has been removed from the units, a thorough washing and clansing of all the parts, and keeping them well submerged in the sterilizing solution, there should be no difficulty and no complaints about the milk from This, in the opinion of the milking machine. dairymen who have been following closely the milking machine, is one of the most important considerations in connection with this operation. Of course, the first consideration the dairy-

men contemplating the purchase of a machine gives to the project is in connection with the economy of it. If it will save 50 per cent. of the labor, even where the greatest care is exercised, and if the parts are durable, there should We have be little complaint in this direction. only to call attention to the three farms which we visited a short time ago to prove that the machine is considered by those who use it economical and efficient. On no one of these farms would they do without the mechanical On no one of these On one of them no stripping whatever is milker. done after the machine. The night before we saw this machine in operation, the farmer, being busy in a belated harvest, his wife brought in the cows, did the milking and attended to the milk herself without any of the hard work well known to those who have had experience with hand milking. This in itself proves that the machine is simple in construction, and, as no stripping is done after its work more than to work the teat cups a little at the finish, its efficiency is, unquestionable. The cows are not falling off in their milk flow because of the machine, and one, a nervous cow, which could not well be milked by hand takes to the machine and stands chewing her cud throughout the entire operation. At the second place at which we called we found nearly forty head of cows being milked with the machine in charge of a number of the boys of the farm. When a machine can be operated by the women of the household or by boys from ten to twelve years of age, it cannot have many complications. At this farm very little stripping is done after the mil'er, a few cows, which are rather hard to milk, require stripping, but for the most part the machine completes the job. The third farmer upon whom we called stated that with his machine he had no difficulty, and that he and his father could mak his large herd of nearly forty head without any great amount of trouble. The time given to milk a cow was placed at from six to ten minutes by these three owners, but it must be remembered that each is working two to three units, milking two to three cows at a time. This time is given as covering all the operations of milking and caring for the machine parts afterwards. It must be remembered that three different makes of machines were included in this visit and all were proving satisfactory, having been in operation from two to

THE FARMER'S ADVOCATE.

three years respectively, and having cost very little so far for repairs.

While mentioning repairs it would be well to point out that old rubber tubing, rough and cracked, tends to a much higher bacterial count in the milk than where newer tubing, compara-tively smooth, is used. There is a point in this for the man producing clean milk. Do not use tubing which is worn out.

On most farms where a small gasoline engine is brought into use to do the milking, this engine is used for other purposes as well. Some do the churning, run the washing machine, cut feed and all such odd jobs in the household and around the barn with this engine. This helps cut down the actual expense of installation.

By mentioning the fact that a woman or a small boy could operate the machine, we do not wish to convey the impression that care is not necessary. A certain amount of care is necessary

The milkstricter tab on it and on their cows. ing machine seems destined to do the milling while the operator does the stripping. We would again, however, emphasize cleanliness in its operation.

The Farmer of the Future.

Personally I believe that agriculture is the fundamental profession, that it is one in which a man can have greater opportuniti s for development, have broader views of life and render more efficient service, than in any other activity in which man engages. But much depends upon the point of view. There may be carried into agriculture the same selfish principles that have made commerce synonymous with greed and Wall Street synonymous with robbery; but that is not the kind of agriculture that I have in viw. On the farm alone a human unit can come into real communion with nature.



The Willows.

in any operation, and the milking machine is no exception to the rule. The operator must be thoughtful, intelligent, and must understand the machine, and particularly the means of keeping it clean.

With the labor problem as it is and the milking machine standing in the favor it does so soon after its introduction to the various dairying districts, we believe that the greater part of the milk produced, will, in the very near future, be drawn from the cow by the mechanical milker. Like the automobile the milking machine is here to stay, and must, with the modern improvements which will come to it, increase in efficiency and There seems to be no doubt in the popularity. minds of those who have seen the various types of machine worked and have talked with those who have been operating them for two or three years, but that the machine is efficient and is taking already an important place in the milk production of this country. Many owners of machines state that, with no after stripping whatever, the machine mills the cows drier than the

not escape from who lives in the belief that the man closest touch with nature, other things being equal, will, be the best man and have the broadest view of human life, human activity and human destiny. The farmer of the future, if he develops in accordance with the views which I have tried to express, will be the leader of thought, the expounder of the true philosophy, and the conserver of wholesome politics for the nation."-Dr. Harvey W. Wiley, formerly Uhist Chemist, N. S. Department of Agriculture.

We never favored keeping dairy calves in a thin, half-starved condition. Many seem to think that the dairy calf must not be fed very much for fear of it developing a beef type not conducive to heavy milk production. Feed the calves well and do not worry if the young heifers get a little thick. If they have milking breeding then they will soon milk down when they freshen and

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In the fields he sees

illustrated better

than anywhere else

the unalterable laws

of nature working for

the benefit of human-

ity. In the forest he

can sit with the

trees and God as his

auditors and dis-

course upon life as he

can do in no other

environment. The ris-ing of the sun in-

spires him, the gath-

ering of the storm

awes him, the beauty

of nature charms

him, the joy of life consoles him. I can-

not get it out of my

mind that the na-

tural must in all

cases be superior to

the artificial. I can-

and this followed by cleansing thorough with the brushes

g of all rubber parts in a 10 per .5 per cent. lime-water : olution,2} solution, or a solu ion of water ibs., and chloime of lime th., e satisfactory results; and with precautions the bacterial count more than five or six times that Where chloride of d milking. Where chloride of nust be added frequen ly. It is hing and sterilizing the parts of ich come in contact with the sh to emphasize more s rongly We have viied several farms various types of mil ing ma-ration, and we found on these nts regarding the machines, and, in one day, where three different nes were used the o inion exwners was that if they had to machine they would do without

machine operators give the parts oming in contact with the milk thorough washings a week. oughly once each day; none that d thoroughly after each mil ing, e parts out and keep them in ne solution. At one place we in a wooden bucket containing on, but care had not been taken bing immersed in the liquid. The f the tubes protrud d. Besides, tell us that a wooden mail or any kind is not the most saniep milking machine parts in a n. They prefer fin. At ano her he machine parts all verv sweet hey had just been thoroughly av of our visit. This dairyman ne thoroughly once a week, and

average hired man will. Most dairymen prefer are far more likely to make good cows than to strip after the machine in order to keep a heifers raised on scant rations with poor care.



Dairy Cattle in the Noon-day Shade.

POULTRY.

1398

Poultry Housing and Poultry House Construction.

By F. N. Marcellus, B.S.A.

The housing of poultry is no doubt better understood now than it was a few years ago, yet much remains to be done. It is not necessary for one to travel far through the country to be impressed with the fact that bad housing and environmental conditions existing on many farms, are responsible for the poor returns many people are getting from this branch of their farm operations

It is altogether too common a sight to visit poultry houses on the farms during the Fall and Winter months, and find the droppings of the preceding year still in the pen. This, coupled with the presence of a heavy coating of frost on the walls and ceiling due to poor ventilation of the pen, certainly presents conditions far from being sanitary, healthful and conducive to the best returns from the flock. It is often difficult to understand why many people clean their stables where other classes of stock are kept, regularly once or twice a day, yet will only clean the poultry house once or possibly twice a year. The best-bred birds obtainable, will not produce under such conditions. The droppings should be removed at least once every two weeks, and if dropping boards are used under roosts they should be cleaned daily. Once a year houses should be thoroughly cleaned and white-washed with lime white-wash containing ten per cent. of some disinfectant as crude carbolic-acid, and applied preferably with a force spray.

The ventilation of the poultry house does not receive sufficient attention as this is possibly the most important factor to be considered in the housing of the birds. The presence of frost on the walls of the pen during late fall and winter is one of the surest indications of poor ventilation. The moisture-laden air must be carried off from the pen and replaced with dry, fresh air, thereby keeping the pen in a more sanitary con-dition. This interchange of air must take place dition. without causing drafts in the house as drafts are highly conducive to the development of colds and roup, just as is dark, damp, comparatively warm quarters ideal for the development of tuberculosis. We should, therefore, aim in constructing houses for poultry to have them as bright and airy as possible consistent with dryness and freedom from drafts.

In the accompanying illustrations are shown plans of two poultry houses. It will be noticed that the houses are both along the lines of the open, cool type in which there is an abundance of fresh air. A house embodying these features is undoubtedly best, as the returns which are secured from the birds in one similar, have been better in numbers of eggs, health of stock and hatching power of eggs in the spring, than where birds were housed in the warm, closed type of house. It has also been further noted that frosting of combs of the birds is not nearly so common in the cool, well-ventilated house as in the warmer, damp, poorly-ventilated house when the temperature

Hinged

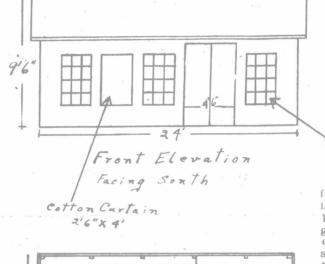
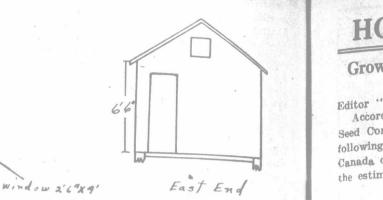




Fig. 2-House for 50 Hens.

Fig. 1 gives the working plans of a house large enough to accommodate a flock of one hundred hens. This house is 20 feet by 20 feet, feet 6 inches high at the back and 3 feet high in front, while the height in the centre is 7 fuet It is built of single-ply boards 8 inches or 10 inches in width, dressed on one side, but not tongued and groved, and 3 inch battens over the cracks. The roof is first sheathed with a good quality of sheathing and then covered with a good roofing paper. The paper is preferable to wood shingles as it is more durable on the flat roof. The house is built on a concrete foundation and has a floor of the same material which is raised at least 8 inches above the ground level at its highest point. The filling for the floor is of coarse stone which prevents moisture rising through the floor by capillarity. A window 4 feet by 5 feet is placed in the west end of the house and a door 3 feet by 6 feet 6 inches in the east end. These are kept closed except in late spring and summer when they are opened for greater circulation of air in hot weather. The studding is of 2 inch by 4 inch material; the rafter's are 2 inch by 6 inch and are supported by draft develop. Curtains, where used, should be a ridge pole 2 feet by 6 inches which is again kept free from dust else they will lose their supported by a post in the centre of the pen. It will be noticed that the front is only covered by 1-inch mesh wire netting 2 feet in width while an 8-inch board at the foor and 4 inch by 4 inch

FOUNDED 1866



foundation to top of roof. The foundation and Loor are of concrete and the walls of single ply boards with battens as in the former house. Three glass windows 2 feet 6 inches by 4 feet and one cotton curtain of the same size are placed on the south side. A pair of doors are also placed on the south side and can be opened wide in warm or mild weather thereby converting the house into an open shed. The doors open outward and the inside is covered with wire netting as is also the space outside the curtain, the latter being on a frame and hinged at the top so as to open inward. A door is also placed in the east end which is used in tending the flock. Collar-joists are put in above the plates, covered with boards or poles about 4 inches apart and a foot or more of straw is placed on the top of these. The straw loft assists in keeping the house dry, especially if the small doors in the gables are opened. dropping board is shown in the plan and may be used or not as desired, but if used must be cleaned daily. Roosts are made of 2 inch by 4 inch material placed at 12-inch centres. If dropping board is used it should be 30 inches from the floor, and the top of roosts 10 inches from dropping board. If no dropping board is used then roosts should be 30 inches from floor and always place all roosts on the same level.

In constructing a house for a flock of twenty five to thirty birds one much similar to the one just described would answer quite satisfactorily with only a few alterations. A house 12 fest by .14 feet with double doors on the front and a window on each side of these as described above and shown in figure 2 would meet the require ments for a flock of this size. If preferred the house might be turned with the longer measure-ment from front to back which would enable one to place roosts farther from the front.

In the construction of houses for poultry three sides should be perfectly draft proof. This, is especially important where the house is of the open-front or curtain-front type. It must also be remembered that where using either type of house one must never have more than one opening in the house at the one time, as two windows, two doors, window and door, or two curtains, as under such manipulation there is bound to be a value as ventilators.

The Last Great Fight.

Garde Swed Garde Cabb Cauli Radis Field Parso Celery It ma ties will number minion h especially selection he grow

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E Root as unifor tivated subject to quali the prop If the se seed wil careful a delay develope ly attac begin to ground sequently grown possible to hang place. larger a At t

pods gen the colo dication ascertai cover of Mang seed is side the upon cu clusters stalks a are tied stooked a few d be haule with an been re farming which s Then it away. Cruci the seed cauliflor The flow smooth when ri reddish-The firs stalks seed is should It is tim plants ting br the last seed the ly casil practice

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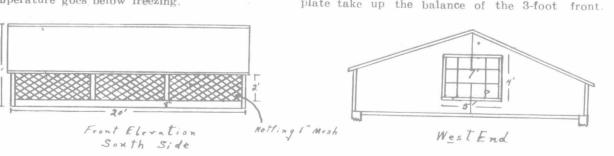
cocks f

either

Roost

Nests

Ground Plan



The roosts are placed along the north side of the house and the nests in the spaces between the roosts and the window, and door. The nests may be in one tier or built in two tiers, one above the other. The large opening in the front whene found too cold as in sections of Ontario north of a line east and west through the town of Barrie, may be covered with a drop curtain which should be let down only in extreme weather.

In fig. 2 is given the plan of a house 12 feet by 24 feet which will accommodate fifty hens. It is built with a double pitch roof, 6 feet 6 inches from foundation to eave and 9 feet 6 inches from



Fig. 1 House for 100 Hens.

She wakes ! and the clang of arming echoes through all the earth

The ring of warrior's weapon; stern music of soldier's mirth

In the world there be many nations and there gather round every Throne

The strength of earth-born armies, but the sea is England's own, she ruled, she still shail rule ut, from

Plymouth to Esquimault.

As long as the winds are tameless, as long as the waves are salt,

This may be our Armageddon;

Seas may purple with blood and flame

As we go to our rest forever loa ing the world a name.

What matters there have been none like us nor any to tame our pride

fall we shail fall as they fell, die as our fathers died,

What better ? the seas that bred us shall rock us to rest at last

If we sink with the Jac's still floating nailed to the Nation's mast.

[Note.-Concluding lines from verses en'itled, "The Sea Queen Wakes," by Capt. ('li @ Phillipps-Wolley, in "The Colonist," British Columbia. 1896.

The British Farmers' Chance.

"This is the hour in which the farmer should come to his own. What he needs is not more education, but the opportunity to take out of the land all that it can possibly produce. Every acre of land that can carry a sheep or a calf should be utilized to that end. The game beeper should give way to the should a sheep or a should be and the should be all the should be should be all the should be all the should be all the give way to the shepherd, and an effort be made to put sheep and kine on every acre of land that will carry them. Foxes should go, and every facility be afforded for the extended production of eggs and bacon."-Scottish Farmer.

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o of roof. The foundation and ete and the walls of single phy ens as in the former house. 'three feet 6 inches by 4 feet and one the same size are placed on the ir of doors are also placed on d can be opened wide in warm hereby converting the house into he doors open outward and the with wire netting as is also the curtain, the latter being on a at the top so as to open ins also placed in the east end tending the flock. Collar-joists the plates, covered with boards inches apart and a foot or more on the top of these. The straw seping the house dry, especially in the gables are opened. shown in the plan and may be desired, but if used must be ed at 12-inch centres. If dropd it should be 30 inches from top of roosts 10 inches from If no dropping board is used d be 30 inches from floor and coosts on the same level. a house for a flock of twentyds one much similar to the one ald answer quite satisfactorily

Iterations. A house 12 feet by ole doors on the front and a ide of these as described above ure 2 would meet the require of this size. If preferred the urned with the longer measureo back which would enable one ther from the front.

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ast Great Fight.

SEPTEMBER 2, 1915

HORTICULTURE.

Growing Seed From Roots and Vegetables.

Editor "The Farmer's Advocate" :

According to the calculations of our energetic Seed Commissioner at Ottawa, Geo. Clark, the following amounts of seed ought to be grown in Canada during the present year in order to meet the estimated shortage of imported seed :

	Lbs.
Mangel Seed	172,500
dandon Rust Seed	6,300
Garden Turnip Seed	275, 100
Gorden Turnip Seed	1,900
Cabbage Seed	1,600
Cauliflower Seed	105
Radish Seed	4,200
Field Carrot Seed	16,800
Parsnip Seed	2,100
Celery Seed	1,260

It may be questionable whether these quantities will be produced this year even though a number of growers in different parts of the Dominion have responded to the call. Seed growing, especially of biennial plants, requires considerable selection and preparatory work, and many wouldhe growers neither had, nor could they in time procure, the necessary stock for this year's planting. The fact remains, however, and we mention it with a great deal of satisfaction and with good hope for the future development of this important work, that patches of seed plants are to be found in several places where a successful start has been made

HARVESTING AND THRESHING.

Root and vegetable seed does not ripen nearly as uniformly as the seed from our commonly cultivated plants. The grower is therefore more subject to loss in regard to quantity as well as to quality, unless the seed plants be harvested at the proper time and treated with particular care. If the seed stal's are cut early.-too much of the seed will remain immature even with the most careful subsequent drying. On the other hand, a delay in cutting, i.e. cutting after the first developed seed clusters commence to become loosely attached to the stalks or when the seedpods begin to split, may result in the falling to the ground of much of the best developed and consequently the most valuable seed. Where seed is grown only in small quantities it is of course possible to cut off the ripened seed gradually and to hang it up or spread it out in a well-aired place. But this method is impracticable on a larger acreage.

At the time of ripening the clusters or seed pods generally become brownish or yellowish, but the color of the cover is not always a safe in-dication of the state of maturity. In order to ascertain this it is advisable to cut or break the cover of some seeds from time to time.

THE FARMER'S ADVOCATE.

For this purpose a three-feet-high wooden barn. tripod is placed on a tarpaulin, and the seed stalks are piled up around the tripod in such a way as to let the air circulate freely in the cock. The remaining seed ripens quite well and may later be threshed out on a mill or with a flail before final cleaning on the fanning mill.

Garden radish, although belonging to the same botanical family, differs from the above mentioned in the shape and structure of the seed pods and the color of the seed. The seed of the radish reddish-brown in color and sits enclosed in a is conical-shaped, slowly-hardening, fleshy pod which is not nearly as apt to split open as the others. When ripe the plants are cut off, tied into small bundles and are left to dry in stooks. It is necessary to exercise a certain amount of care in the threshing of radish seed in order to avoid crushing or hulling. The seed is easily cleaned on a good fanning mill.

Umbelliferous Plants.-Carrots, parsnips and celery belong to the same family, Umbelliferae A common characteristic of them all is that the seed ripens rather unevenly. But, whereas it is possible to obtain a fairly satisfactory yield of seed from parsnips and celery in one cutting, it is absolutely necessary to pick or cut off the ripened umbels of the carrots for several consecutive weeks in order to secure quantity as well as quality. In the case of celery, maturity is easily recognized as the seed takes on a light brown The same holds in regard to parsnips. At this time of the year a seed bearing carrot plant will present fruits and flowers in all stages from a fully-matured, brownish umbel down to just opening greenish-white flower buds. Carrot umbels which have been picked off from the stalks are stored in an airy place until the harvesting is finished, and the whole crop is then threshed together. The fruit of the carrot is covered with long spines on the end of which are three or four It is on account of these spiny hooked hairs. projections that the fruits cling together and prevent the seed from being sown evenly unless "rubbed off" after threshing. Where carrot seed is only grown for home consumption the rubbing may he done by hand while the seed is enclosed in a bag. But this method is too slow and too expensive where larger quantities are handled. Effective "rubbing" may be procured through

FARM BULLETIN.

Make Believe. By Peter McArthur.

During the past weeks I have been privileged to watch the various transformations of a little express wagon. A couple of active imaginations have made it one of the most wonderful things that was ever on the farm. When we began harvesting there was the sound of much hammering in the granary and presently the express wagon appeared with a serviceable rack. that fell from the large rack was promptly loaded on the little rack, hauled to an out-of-the-way place and stacked with all possible gravity. The grown-ups were not a bit more serious about their work than the two littlest boys. They haw-ed and gee-ed and backed around and ecolded when the load was not brought near enough to the stack to make easy pitching, just live their elders. As I watched them and listened to them some of the expressions used seemed strangely familiar, and I remembered an article by A. E. Carman of the Montreal Star in which he demonstrated that the keenest satire on any man is his own son. Those imitative young rascals, not knowing that I was watching them, gave me a pretty fair idea of how I looked to them when doing things. Of course it was flattering to find that their ambition was to do things as I do them but it gave me a side slant at my methods that was somewhat disconcerting. But presently the harvesting game lost interest and the little express wagon underwent a magic change.

. . . .

For some weeks the automobile visitors were rather plentiful, and it was only natural that the boys should want an automobile. Then I had a chance to see how some of my friends looked to The rack was taken off the express wagon them. and a box put in place to form the body of the automobile. In the front part of the box were placed a number of loose cog-wheels, holts, and scraps of old iron to represent the machinery. At the back there was a compartment for the tools -a hammer with a four-inch handle, a hatchet without a handle, a handful of bent nails, and other articles too numer-

ous to mention. A secret examination of the automobile showed that parts of an old fanning mill, a cream separator of earlier days, an ice-cream freezer and part of a potato ricer had been put together strangely to make the wonderful engine. There was a seat for the chauffeur and with the tongue of the wagon turned back where he could grasp it the driver was furnished with a practical steering gear. But the most realistic touch of all was the line tank. It con sisted of a can of water to which the necessary odor had been added by squeezing some onion juice into it. When the using a threshing mill, on which the cylinder has automobile was in action a triple expansion boy got behind it and shoved. As some one remarked it was provided with both a chauffeur and a shover. But I mustn't forget one of the most important touches. There was a crank fastened on the front of the wagon and every time before it started the chauffeur jumped out and cranked wildly while the shover behind got up steam, making a sound with his lips that was a fair imitation of the gasoline explosions on a real automobile. One point of their imitation failed, however. Try as they would they couldn't manage to run over a hen or the dog the same as real automobiles do. And when things went wrong there was real excitement. Both of them would lie on their backs with their heads under their automobile and hammer and scold just like grown-ups. Although the township is full of automobiles I doubt if anyone with real cars got more enjoyment than the two boys did. * * * *



the clang of arming echoes the earth

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e be many nations and there d every Throne

rth-born armies, but the sea is wn,

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vith blood and flame rest forever lea ing the world

e have been none like us nor our pride

I fall as they fell, die as our

seas that bred us shall rock t last

e Jack still floating nailed to mast.

ng lines from verses en'itled, colonist," British Columbia.

Farmers' Chance.

ir in which the farmer should What he needs is not more opportunity to take out of the a possibly produce. Every acre arry a sheep or a calf should end. The game^beeper should opherd, and an effort be made ne on every acre of land that Foxes should go, and every for the extended production of Scottish Farmer.

Mangels and Garden Beets .- Mangel and heet seed is ready to harvest when the true seed inside the cluster shows a mealy or floury surface upon cutting. It is of no consequence if the clusters be almost green on the outside. The stalks are cut off with a sickle or a sharp knife, are tied together in small sheaves and are stooked with 4 to 8 bundles to each stook. After a few days of dry weather the seed is ready to be hauled home for threshing. This can be done with an ordinary mill on which some teeth have been removed. The seed is cleaned on a good farming mill and is spread out in thin layers which should be shuffled daily until quite dry. Then it may safely be put in bags and stored away.

Cruciferous Plants .- The flowers, the fruit and the seed of swedes, garden turnips, cabbage and cauliflower resemble each other more or less. The flowers are vellowish, the fruit consists of a smooth elongated siline which splits ingthways when ripe, and the seed is almost round with a reddish-purple or dark-brown to black color. The first formed seed on the lower parts of the stalks ripens earlier than the rest, and as this. seed is stronger than the later formed, the grower should endeavor to save it before it falls off. It is time to harvest the seed of these crucilerous plants when the bottom siliques or pods are getting brown on the outside and the upper ones, the last set, have attained a yellowish color. The seed threshes out very readily and is consequently easily lost. Some growers therefore make a practice of giving the stalks a few tabs with a fail on a big tarpaulin in the field, immediately after cutting, thereby securing all the first ribened seed. The stalls are then put in well-ventilated cocks for subsequent drying and after maturing either in the field or in a drafty place in the

Seed in Stooks.

Mangel seed in stooks at Macdonald College. To the left are isolation tents for family roots.

been tightly closed after being half-filled with seed.

CONCLUSIONS.

For home consumption in general and in the case of such expensive seed as that of cabbage, caulif.ower and more prominent strains of celery it will always be expedient to harvest the seed subsequently. But where ordinary root and vegetable seed is produced under field conditions the grower must watch and choose the proper time for cutting and must take every precaution, by using sheets or tarpaulins in the bottom of the wagon etc., in order to prevent losses. In all cases it is essential that the seed be perfectly dried, through shutling and airing, before it is stored away in bags.

In Ontario, seed has been grown successfully from all the plants under discussion. Root seed and vegetable seed has been produced at the Ontario Agricultural College, by the Dominion Sugar Company, Berlin, the Ontario Seed Company, Waterloo, and by a number of other private growers. At Macdonald College, St. Anne de Bellevue, and on trial plots in different counties in the Province of Quebec we have grown seed for a number of years of mangels, beets, swedes, turnips, carrots, cabbage and other vegetables with splendid results as far as quality is concerned, and with quite satisfactory though somewhat varying yields. The experience gained during the present year ought to furnish excellent material for interesting discussions at the meetings of the coming winter. P. A. BOVING.

Macdonald College, Que.

I have long been of the opinion that children get more real enjoyment out of their makebelieve toys, which enable them to use their imaginations than they do from the highly finished ones which we buy for them. My observations in connection with the automobile has convinced me that this view is right for during the heighth of the automobile season they put together their pocket-money and sent away for a couple of little air guns and targets. When the consignment came home I was somewhat put out to find that the targets were tin soldiers and 'I didn't like the idea of the children playing at the war game when we are suffering so much from the reality. But I knew that if I forbade 1400

THE FARMER'S ADVOCATE.

and from past experience I knew that the guns would not last long. In less than an hour I was asked to fix a broken gun and I decided that it would be just as well to let the war game run its course. While it was at its heighth the boys had a visitor and I was delighted to see that they soon deserted the guns and went back to their automobile. The visitor seemed much more interested in it than in the guns and all afternoon the automobile raced around the place with a two-boy power engine, and kept at it until it was too dark for them to see.

. . . .

Of course a story like this should have a moral attached to it and I believe it has. I would not want to deny the children toys but I think the most important thing of all is to let them have odds and ends with which they can make believe. It strikes me that an educationist could show that make believe games help to develop the imagination and would teach the children to make practical things as they grow up. Anyway, I am convinced that they get more real fun out of their make-believe than out of anything else. In this also they are not so very different from grown-ups.

The Manitoba Scandal Report.

Perhaps the most unsavory page in the political history of Canada is that containing the unanimous report of the Royal Commission appointed to investigate the new Manitoba Parliament Buildings' scandal. The charges made were found to be true and disclose a colossal and brazen plundering of the treasury and the worst was perhaps all uncovered. The total amount fraudulently over-paid by the late government to the contractors was \$822,963.64. It was found that contractor Thos. Kelly was shown or told the amount of a tender from Montreal and was given a day to submit his own a few thousand dollars lower. There were large overpayments on the caissons and steel contract, and Dr. R. M. Simpson, the government's financial agent (now in France) set the amounts to be added as extras to contracts for campaign funds with an election immediately pending. Members of the late government interested themselves in keeping a material witness, Mr. Salt, out of the jurisdiction of the Commission. Mentioning the names of Sir Rodmond Roblin, Mr. Howden, Mr. Coldwell and Mr. Armstrong, the commissioners report that "none of these ministers gave your commissioners any assistance in proving shortage which they know to exist, but Sir Rodmond was in common cause with the contractors to resist the discovery and took an active part in securing for the contractors able counsel for the purpose. Messrs. Coldwell and Howden were equally reticent about disclosing information useful to our investigation." The Commissioners close their report with a recommendation that the Provincial Auditor be made independent of the Government. "Had he been so, much of the fraud which has been perpetrated in connection with the Parliament buildings might have been prevented." The Commissioners

them the game it would only fix it in their minds chairman; Mr. Justice McDonald and Sir Hugh John Macdonald.

South Peel Notes.

Editor "The Farmer's Advocate": At the present time much crop is left uncut and much more standing in the fields. The heavy rains during the last few weeks have left the fields in a very soft state. Many people have to cut just the one way and the result is slow progress. In making an estimate of the crops of this district would say that crops are above the average. Wheat was a grand crop and most of it in this district was harvested in good condition. The barley crop was good but most of it had to be cut with the mower because of it being broken down. The cats, where not treated for smut, are affected more this year than for years before. The root crop is good. The corn crop is above the average and as there is a large acreage sown in this district a large amount of roughage will be the result. This district around Streetsville is growing more and more into a dairying centre. Most of those who go into it extensively cater to the city milk and cream trade. Those who devote themselves to this line of farming pay very little attention to the growing of wheat. Necessity is the mother of invention and they plan their work according to their help. The corn and roots take up a lot of time in the fall and wheat has to be harvested when you should be putting the finishing touches on the hoed crops. J. B. ROSS Peel Co., Ont.

A Noted Shorthorn Breeder Passes.

The daily papers a few days ago announced the death of Arthur Johnson, at his home, Brooklin, Foremost for many years in the breeding Ont. and exhibiting of Shorthorns, he was widely known in Canada, the United States and the Old Land. Some years ago he retired from the old farminear Greenwood, Ontario, and moved to Brooklin. His interest in the Shorthorn never waned. He was a live-stock enthusiast as long as his health permitted and the great beef breed and live-stock interests generally have lost an ardent and faithful champion.

Death of Wm. Gibson.

There passed away in London, Friday, August 27, Wm. Gibson, a man well-known to live-stock breeders in Canada and the United States. was connected for some time with some of the largest live-stock breeding firms in the United States, and was later manager of the herds and flocks of Sir George Drummond, Beaconsfield,

John E. Dupuis, Lambton Co., Ont., writes that his fall wheat yielded 58 bushels per acre on a barley stubble manured and fertilized. Previous to the barley crop the field was clover sod.

With bacon selling in Canadian stores at 35 cents per pound there would seem to be a rather long soread between what the farmer receives for

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Ontario Crop Statistics.

The following statistics of the principal field crops of Ontario for 1915 show the acreage as compiled from individual returns made by farmers to the Ontario Bureau of Industries and the yields as estimated by a large and experienced staff of correspondents, who give probable yields according to conditions on August 10th, 1915. FALL WHEAT : 811,185 acres wid produce

23,344,435 bush. or 28.8 per acre as against 685,692 acres 14,333,548 bush. and 20,9 in 1914. The annual average for 33 years 1882-1914 was 21.1

SPRING WHEAT: 162,142 acres 3,410,197 bush. or 21.0 per acre as against 118,607 acres 2,169,425 bush. and 18.3 in 1914. Av. 16.0.

BARLEY: 552,318 acres 18,505,355 bush, or 33.5 per acre as against 579,473 acres 18,096.-754 bush. and 31.2 in 1914. Av. 27.9

OATS: 2,871,755 acres 119,816,987 bush, or 41.7 per acre as against 2,776,883 acres 108,-564,322 bush. and 37.3 in 1914. Av. 35.7.

RYE: 173,736 acres 3,396,892 bush. or 19.6 per acre as against 138,913 acres 2,315,582 bush. and 16.7 in 1914. Av. 16.4. PEAS: 126,943 acres 2,502,100 bush. or 19.7

per acre as against 177,856 acres 2,609,585 bush, and 14.7 in 1914. Av. 19.2.
 BEANS: 62,863 acres 1,097,678 bush. or 17.5

per acre as against 51,149 acres 835,895 bush. and 16.3 in 1914. Av. 17.1. HAY AND CLOVER (not moluting alfalfa):

3,066,468 acres 3,825,026 tons or 1.25 per acre as against 3,251,799 acres 3,469,795 tons and 1.07 in 1914. Av. 1.43. There are 3,350,420 acres of cleared land devoted

to pasture; 226,217 in summer fallow; 288,825 in orchard; 23,443 in small fruits; 10,276 in vineyard; 57,774 in farm gardens; 40,613 in rape; 5,334 in flax; 5,503 in tobacco (Essex 2,824, Kent 1.774).

Celery Blight Quite Serious.

Vegetable Grower writes :- "On the plantations of several extensive growers, it was disheartening last month to observe the destructive ravage of celery blight. Most of the owners appeared to be very much at sea regarding the real nature or life history of the disease though the one having perhaps the cleanest rows was satisfied that effective control must begin with the seed beds or even with the seed itself. He had systematically sprayed the little plants as they grew with Bordeaux mixture. Once it started on the plants in the main rows spraying appeared to be of little avail in stopping the spread of contagion. In one case it made its appearance in a plot where it had never been seen before and originated from a few plants of another sort imported from another locality. It was noticed in time and heroic measures were resorted to the affected plants being entirely destroyed and the healthy ones thoroughly sprayed with a strong application of Bordeaux, sprayed on each side of rows ard below as well as on upper surface of the foliage. The opinion was freely expressed that there was room for perhaps a couple of years thorough research on this subject by some of our most capable

Rye.-C Barley. No. 3 fe Buckwh Flour.ronto w patents, strong b cent. win hoard, o \$4, prom track, T Bran.— shorts, middling freights;

> ronto, \$ Butter. pound or week, cr 29c. to 28c. to butter a Eggs.ary, sell

> > Cheese.

Honey.

Montreal

Straw.

Mathers, his hogs and the other end of the business. plant pathologists. Toronto, Montreal, Buffalo, and Other Leading Markets.

Toronto.

Receipts at the Union Stock-yards West Toronto, from Saturday, Augus 28, to Monday, August 30, numbered 24; cars, comprising 2,418 cattle, 153 calves 535 hogs, 1,345 sheep and lambs, and 2,597 horses for the allied armies in France. Cattle generally of common quality. Trade was slow, especially in poorer kinds, and only steady. No export cattle. Butchers' steers and hei'ers, \$7.75 to \$8.25; good butchers', \$7.25 to \$7.75; medium, \$6.80 to \$7.25; common. \$6.25 to \$6.75; cows, \$3.50 to \$6.75; bulls, \$3.50 to \$6.75; feeders, \$6.75 to \$7.25; stockers, \$5 to \$6.75; milkers, \$60 to \$100; calves, \$5 to \$11. Sheep, \$3 to \$7; lambs, \$8.25 to \$8.75. Hogs, \$9.25 fed and watered, and \$9.40 off cars.

REVIEW OF LAST WEEK'S MARKETS

The total receipts of live stock at the City and Union Stock-yards for the past week were : TTuinne

	C107.	Union.	Total.
Cars	2.0	536	531
Callie	192	5,428	5,639
lings	388	5,881	6,272
She p	1,143	5,662	7,105
Calve	29	578	+ 07
Horsen		· · · · · · · ·	2.2511

	City.	Union.	Total.
Cars	40	311	331
Cattle	528	4,354	4,882
Hogs	401	8,622	9,023
Sheep	803	2,38)	3,133
Calves	322	786	1,108
Horses	189	196	385

The combined receipts of live stock at the two markets for the past week show an increase of 180 cars, 748 cattle, 3,922 sheep and lambs, and 3,009 horses, but a decrease of 2,751 bors and 501 calves, compared with the corresponding week of 1914.

Receipts of live stock for the past weak have been too large for the demand. The receipts also showed, by the condition of the market, the advisability of shippers refraining from making Monday the only real market. There were 4,000 cattle on sale Monday; 1,000 came in on Tuesday; 900 on Wednesday, and only 175 on Thursday. The large number present in the early week gave the bears a fine opening, and trade was the slowest and weakest for many weeks. Many cattle were unsold at the day's close. The weak tone did not improve in the next three days, and the market dropped 25c, to 40c, below the previous week. Common lots weakened the most, and heavy bulls became a drug on the market. There were very few choice cattle, and these, holding steady at first, grad-

ually yielded to the general tone of the market. On account of the previous \$6.75. prevailing high prices, several buyers

purchased in Western Canada butcher cattle for their own use and brought them in under the former Toronto prices. This also assisted in shortening the demand. The stockers and feeders closed easier, due to the absence of farmer buyers, who are busy with the harvest. Some fancy prices were paid during the week for choice milkers and forward springers, David Smith paying \$111 for a Holstein cow weighing 1,350 lbs., with her calf. The supply in this class was the only one short of the demand. Sheep and lambs had a heavy run, many Eastern lambs being in evidence. Toward the week-end the market became slow and weak, and broke 25c. to 50c. per cwt. under last week's close. Sheep remained steady, while choice yeal calves were strong up to 11c. again. Hogs had light shipments and were firm, at prices quoted in last letter.

Export Cattle .- There were no export cattle last week. One load fit for exiort was bid \$8 and remained unsold. Eutchers' Cattle .- There were only a half dozen extra choice cattle, bringing \$8.50 to \$8.75; choice butcher steers, \$7.75 to \$8.25; good, \$7.25 to \$7.75; medium, 36.80 to \$7.25; common, \$6.25 to \$6.75; mierior, light steers and heifers. \$5.25 to \$5.75; choice cows, \$6.50 to \$6.75; good cows, \$5.75 to \$6.50; medium cows, \$5.25 to \$5.75; common cows, \$4.50 to \$5.25; canners and cutters, \$3.50 to \$4.75; bulls, \$3.50 to Stockers and Feeders .- Choice feeders,

850 to 1,000 lbs., sold from \$7 to \$7.25; feeders, 800 to 900 lbs., \$6.80 to \$7.25; stockers, 600 to 800 lbs., \$6 to \$6.75; common stock steers, \$5.50 to \$6; stock heifers, 550 lbs., sold at \$5 to \$5.50.

Milkers and Springers .- Demand for choice cows was strong, many selling at \$100 and over. Choice milkers and forward springers sold at \$85 td \$100; good cows, \$70 to \$80; common and medium cows, \$45 to \$65 each.

Veal Calves .- Some farmers were fortunate enough to receive 111c. to 12c. per lb. for some extra choice calves, to be dressed for Toronto's fair. Choice veal calves sold at \$9 to \$11; good, \$8 to \$8.75; medium, \$6.50 to \$7.50; common calves, \$5.75 to \$6.75; grass calves. \$4 to \$5.

Sheep and Lambs .- Many Eastern lambs Light of poorer quality shipped in. ewes, \$6 to \$7; yearling lambs or sheep, \$7 to \$8; heavy, fat ewes and rams, \$3 to \$4.50; spring_lambs, \$8.50 to \$9. Hogs .- Selects, weighed off cars, \$9.15 to \$9.40; fed and watered hogs, \$9; f. o. b., \$8.65. Heavy, fat hogs, weighing over 230 lbs., 50 cents per cwt. deducted. Sows sold at \$2 per cwt., and stags \$4 per cwt. less than prices paid for selects.

BREADSTUFFS.

Wheat.-Ontario, No. 2 winter, per car lot, \$1.15; new, \$1 to \$1.02. according to freights outside; sprouted or smutty. 75c. to 85c., according to sample. Mani-

washed, per lb., FR Plums in very and hav The plus 11 - quar a few from 15 Peaches 90c. per bringing 40c. to from 65 the 6-qu

\$2.50 to Beans. primes. . Potato per bag, Poultr lb., 20c spring ch 12c. per per doze City

cured, 1 cured, 1 18c.; k skins, \$ 35c.; h \$4.50; 90c.; sh

low, No washed, ings, w washed,

o Crop Statistics.

statistics of the principal field for 1915 show the acreage as lividual returns made by farmers Bureau of Industries and the ed by a large and experienced dents, who give probable yields litions on August 10th, 1915. : 811,185 acres will produce or 28.8 per acre as against 333,548 bush. and 20.9 in 1914. ge for 33 years 1882-1914 was

AT: 162,142 acres 3,410,197 acre as against 118,607 acres and 18.3 in 1914. Av. 16.0. 2,318 acres 18,505,355 bush, or against 579,473 acres 18,096,-.2 in 1914. Av. 27.9.

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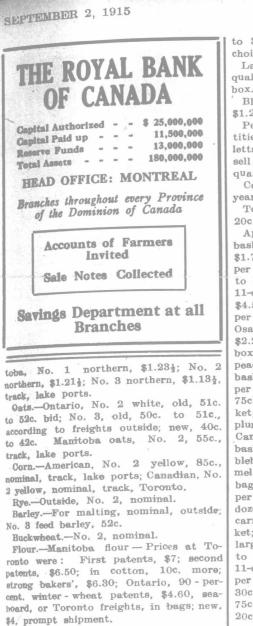
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HAY AND MILLFEED.

Hay .-- Baled, car lots, track, Toronto, No. 1, \$17 to \$19; No. 2, \$15 to \$16, track, Toronto.

Bran.-\$27 per ton, Montreal freights; shorts, \$29 per ton, Montreal freights; middlings, per ton, \$30, Montreal freights; good feed flour per bag, \$1.90,

Montreal freights. Straw. - Baled, car lots, track, Toronto, \$7.50.

COUNTRY PRODUCE.

Butter .-- Butter advanced one cent per pound on the wholesales during the past week, creamery pound squares selling at 29c. to 30c. per lb.; creamery solids at 28c. to 29c. per lb., and separator dairy butter at 26c. to 27c. per lb. Eggs .- New-laid eggs remained station-

ary, selling at 22c. to 23c. per dozen. Cheese,-New, large, 14%c.; twins, 15c.

THE FARMER'S ADVOCATE.

to 30c., and 35c. to 50c.; a few extra choice, 65c.

Lawton berries have been of very poor quality, and now sell at 5c. to 8c. per box.

Blueberries are plentiful, bringing \$1 to \$1.25 per 11-quart basket.

Pears are coming in in increased quantities, and there were some good Bartletts on the market Thursday. They sell at 40c. to 50c. and 60c. per 11quart basket.

Cantaloupes are a disappointment this year, the quality is so poor. Tomatoes are a slow sale, at 15c. to

20c. per 11-quart basket. Apples, new, 25c. to 50c. per 11-quart basket, \$3 per barrel; bananas, \$1.40 to \$1.75 per bunch; blueberries, \$1 to \$1.25 per 11-quart basket; currants, red, 3c. to 6c. per box; black, \$1 to \$1.50 per 11-quart basket; cantaloupes, \$3.75 to \$4.50 per case; Canadians, 30c. to 40c. per 11-quart baskets, 75c. per case; Osage, \$1.75 per case; grapes, California, \$2.25 per box; lemons, \$3 to \$3.50 per box; oranges, \$5.25 to \$5.50 per case; peaches, Georgia Elbertas, \$2.25 per 6basket crate; California, \$1.10 to \$1.25 per box; Canadian, 20c. to 30c., 40c. to 75c., and 65c. to 90c. per 11-quart basket; pears, California, \$2.25 per box; plums, imported, \$1.50 to \$1.75 per box; Canadians, 20c. to 40c. per 11-quart basket, a few extra choice at 50c.; thimbleberries, 5c. to 8c. per box; watermelons, 40c. to 60c. each; beets, 75c. per bag; cabbage, 75c. per crate, 35c. to 40c. per dozen; cauliflower, \$1 to \$2 per dozen, 20c. to 25c. per 11-quart basket: carrots, 20c. to 30c. per 11-quart basket; celery, small, 25c. to 30c. per dozen; large, 40c. to 50c. per dozen; corn, 10c. to 13c. per dožen; cucumbers, 25c. per 11-quart basket; eggplant, 40c. to 60c. per 11-quart basket; peppers, 20c. to 30c. per 11-quart basket; potatoes, new, 75c. to 90c. per bag; tomatoes, 15c. to 20c. per 11-quart basket.

Montreal.

Live Stock .- The cattle markets were generally a little easier during last week, owing principally to the increased supplies. Offerings were much freer, with the result that buyers were able to obtain supplies at fractionally lower prices than prevailed earlier in the month. Some fair steers were offered and purchases of all good animals were made at Sc. to Sic. Fair stock sold at 71c. to 7%c., and prices ranged from this down to 51c. for common grades. Butchers' cows were not in very good demand, but prices showed very little change. Common stock sold at 5¹/₄c., and best at 7¹/₄c. Offerings of canning cattle were fairly large. The general range of price was 31c. to 41c. per lb. Sheep and lambs were also in good supply, and a brisk Lambs ranged from trade was done 71c. to 81c. per lb., while sheep were picked up at 41c. to 51c. The number of calves offered was also fairly large, and best stock brought as high as \$20 each. From this, prices ranged down to about \$5, the tone being generally firm. The price of hogs was also firm, and demand was good. Choice select lots sold at 91c. to 91c., and rougher stock at 9c. to 9%c. per lb., weighed off cars. Horses .- The market continued in the unsatisfactory condition which characterized it for a long time past. Prices were as follows: Heavy draft horses, weighing from 1,500 to 1,700 lbs., \$250 to \$300 each; light draft, weighing from 1,400 to 1,500 lbs., \$200 to \$225 each; small animals, \$125 to \$175; culls, \$50 to \$100, and fancy saddle and carriage horses, \$300 to \$400 each. Dressed Hogs .- Offerings of dressed hogs were not specially liberal, and demand was good, so that prices held their own, being 131c. to 14c. per lb. for abattoirdressed, fresh-killed stock. Honey and Syrup.-Supplies of maple syrup were light, and holders were firm in their views. Prices distinctly advanced. Maple syrup was 90c. for 8-lb. tins; \$1.05 for 10-lb. tins. and \$1.40 for 13-lb. tins. Maple sugar was 13c. per White-clover comb honey was 15c lb. to 151c. per lb.; extracted, 10c. to 111c., and dark honey, 81c. to 9c. Eggs .-- Quality of eggs was not very choice. Receipts were limited, and really fine stock was not easy to get Prices held steady. Fresh-laid eggs were 27c. to 28c. per dozen; selects, 26c.; No. 1 candled, 23c., and No. 2 candled, 20c. per dozen.

vanced last week, and quality should shortly show improvement. Receipts were fair. Prices were 28c. to 281c. for choicest, and 27%c. to 28c. for fine. Seconds were ic. to ic. under these prices. Dairies were 23c. to 24c. per lb. Cheese .-- The market for cheese showed practically no change as compared with the previous week. Colored maintained a premium over white. Finest Ontario colored cheese was 121c. to 121c. per lb. white being 121c. Finest Eastern was 11ac. to 12ac., and undergrades about 1c. less.

Grain .--- Wheat markets all went lower last week. No. 1 old crop Canadian Western feed oats were 59c., and No. 2 feed 571c., while new crop Quebec No. 2 white were 511c. to 52c. per bushel, ex store. American No. 2 yellow corn was 92c. per bushel, ex track.

Flour.-The market was dull. Manitobas were unchanged in price, but Ontarios were lower. Manitoba flour was \$7.10 per barrel for first patents; \$6.60 for seconds, and \$6.40 for strong bakers' in bags. Ontario patents were \$6.25 per barrel; straight rollers, \$5.40 to \$5.60 per barrel in wood, and the latter at \$2.55 per bag.

Millfeed.—The millfeed market held steady. Bran was \$26 to \$26.50 per ton in bags, and shorts were \$28. Middlings were \$33 to \$34 per ton; pure grain mouille, \$38 to \$40 per ton, and mixed, \$35 to \$37 per ton.

Hay .- New hay was dealt in exclusively, and prices showed a distinct advance. No. 1 hay was quoted at \$19 to \$19.50 per ton; extra good No. 2 hay was \$18 to \$18.50, and No. 2 hay was \$17.50 per ton, ex track, and No. 3 was \$16.50. Hides .- The price of lamb skins again advanced, and were \$1 each. Otherwise prices were unchanged. Trade was brisk in all lines of hides. Beel hides were 21c., 22c. and 23c. per lb., respectively, for Nos. 3, 2 and 1; calf skins were 18c. and 20c, per lb.; horse hides were \$1.50 for No. 2, to \$2.50 each for No. 1. Tallow was 6c. per lb. for refined, and 21c. for crude.

Buffalo.

Receipts the past week were 4,625 head, as against 4,025 the previous week, and 5,475 for the corresponding week last year. Quotations: Shipping steers-Choice to prime, \$9.25 to \$9.60; fair to good, \$8.75 to \$9; plain, \$8 to \$8.50. Butchering steers-Choice heavy, \$9 to \$9.25; fair to good, \$8.25 to \$8.75; best handy, \$8.75 to \$9.25; common to good, \$7.50 to \$8.50; yearlings, prime, \$9 to \$9.75; yearlings, fair to good, \$8 to \$8.75. Cows and heifers-Frime weighty heifers, \$7.75 to \$8.50; best handy butcher heifers, \$7.50 to \$7.75; common to good, \$6.50 to \$7.25; best heavy fat cows, \$6.75 to \$7.25; good butchering cows, \$6 to \$6.75; medium to good, \$5.50 to \$6; cutters, \$4 to \$4.50; canners, \$3 to \$3.75. Bulls-Best heavy, \$7 to \$7.25; good butchering, \$6.50 to \$7; sausage, \$5.65 to \$6.50; hight bulls, \$4.50 to \$5.50; oxen, \$5.50 to \$7.50. Grass cattle quotable from 50 cents to a dollar under given quotations. Hogs .- Trade was active the past week and while good - weight grades showed a little improvement as the week advanced, light hogs were but little changed. On the opening day heavies sold from \$7.35 to \$7.60, and Thursday's and Friday's sales on the same weights were made from \$7.50 to \$7.70. Decks on the heavy mixed order sold up to \$7.90, and before the week was out mixed grades, kinds that sold Monday at \$7.90 and \$8, brought up to \$8.15, with some of the light mixed order reaching \$8.25. Good Yorkers during the entire week ranged from \$8.15 to \$8.25, with a few reaching \$8.30, and pigs landed in about the same notch as Yorkers. Grassy hogs are beginning to run quite freely, and on Friday's market there was a difference of from 15c. to 25c. between the common, grassy kinds, and the better quality grades of the same weight. Dryfed hogs are getting scarce, and the opinion is that the good-weight kinds will soon be on top. Roughs mostly \$6, and stags \$4.50 to \$5.50. Receipts the past week reached 27,800 head, being against 25,764 head for the week before, and 23,360 head for the same week a year ago.

Butter .-- Prices of creamery butter ad- | half of the past week sold mostly at \$9.25, and the next two days prices were stronger, bulk of Friday's sales being made at \$9.50, one lot reaching \$9.65. Cull lambs mostly \$8 down, and yearlings, which were scarce, went from \$7,50 down. Sheep were about steady all week, top quotations for wethers being \$6.50, and, while a few handy ewes made \$6.25, general ewe range was from \$5.50 to \$6, as to weight. Supply the past week totaled 7,700 head, being against 8,773 head for the previous week, and 12,400 head for the same week a year

1401

Calves .- Demand for veals the past week was strong, and prices were as high as any previous time this year. Tops sold from \$12.50 to \$13, and on Friday's market best native veals reached \$13.25. Cull grades went from \$10 down, and grassers \$5 to \$6. Two decks of Canadian calves were offered Friday, and tops out of these sold at \$12.50. Receipts the past week were 1,600 head, week before there were 1,710 head, and for the same week a year ago 2,275 head.

Chicago.

Cattle .-- Beeves, \$6.10 to \$10.15; cows and heifers, \$3.10 to \$8.75; calves, \$8.50 to \$12.

Hogs.-Light, \$7.40 to \$8.05; mixed, \$6.60 to \$7.95; heavy, \$6.85 to \$7.70; rough, \$6.35 to \$6.50; pigs, \$7 to \$8; bulk of sales, \$6.75 to \$7.70.

Sheep and Lambs .- Sheep, native, \$5.90 to \$6.50; Western, \$6 to \$6.70; yearlings, \$6.65 to \$7.70; lambs, native, \$7.25 to \$9.55.

Cheese Markets.

St. Hyacinthe, Que., 11%c.; London, bid 12c.; Belleville, 12 8-16c., 12%c.; Watertown, N. Y., 12c.; Vankleek Hill, white, 13 1-16c.; colored, 18 tc.; Brockville, 131c.; Woodstock, bid 12c.; Madoc, 121c.; St. Paschal, Que., 12 1-82c.; Stirling, 12 7-16c.; Campbel ford, 12 ;c.; Utica, N. Y., 11ac.; Lindsay, 124c.

Gossip.

Walburn Rivers, in a change of advertisement, announces that the name of his farm has been changed from "The Maples " to "Pioneer Farm." The address is R. R. 5, Ingersoll, Ont.

Inadvertently, eighty yearling Oxford ewes and ewe lambs which Henry Arkell & Son, of Guelph, Ont., are offering for sale, are not mentioned in their advertisement this week, and we ask readers to bear in mind that this breeding stock is for sale. Mr. Arkell is very proud of a splendid lot of yearling lambs and ram lambs which he is offering for flock-

ng Markets.

1,000 lbs., sold from \$7 to \$7.25; , 800 to 900 lbs., \$6.80 to \$7.25; rs, 600 to 800 lbs., \$6 to \$6.75; on stock steers, \$5.50 to \$6; stock , 550 lbs., sold at \$5 to \$5.50.

ers and Springers.-Demand for cows was strong, many selling at and over. Choice milkers and forspringers sold at \$85 to \$100; cows, \$70 to \$80; common and n cows, \$45 to \$65 each.

Calves .- Some farmers were forenough to receive 111c. to 12c. for some extra choice calves, to essed for Toronto's fair. Choice alves sold at \$9 to \$11; good, \$8 75; medium, \$6.50 to \$7.50; comalves, \$5.75 to \$6.75; grass calves. \$5.

and Lambs .- Many Eastern lambs orer quality shipped in. Light \$6 to \$7; yearling lambs or sheep, \$8; heavy, fat ewes and rams, \$3 50; spring_lambs, \$8.50 to \$9. -Selects, weighed off cars, \$9.15 .40; fed and watered hogs, \$9; r 230 lbs., 50 cents per cwt. de

Sows sold at \$2 per cwt., and \$4 per cwt. less than prices paid ects.

BREADSTUFFS.

t.—Ontario, No. 2 winter, per car .15; new, \$1 to \$1.02 according ghts outside; sprouted or smutty. 85c., according to sample. Mani-

Honey.-Extracted, 10c. to 11c.; comb, \$2.50 to \$3 per dozen sections. Beans.-Hand-picked, per bushel, \$3.60; primes, \$3.40.

Potatoes .- New were selling at 65c. per bag, track, Toronto.

Poultry.-Live weight : Turkeys, per lb., 20c.; spring ducks, 11c. per lb.; spring chickens, 15c. per lb.; fowl, heavy, 12c. per lb.; light, 10c. per lb.; squabs, per dozen, 10 ounces, \$3.60 (dressed).

HIDES AND SKINS.

City hides, flat 18c.; country hides, cured, 17c. to 19c.; country hides, part cured, 16c. to 17c.; calf skins, per lb. 18c.; kip skins, per 1b., 16c.; sheep skins, \$1.50 to \$2; horse hair, per lb. 35c.; horse hides, No. 1, \$3.50 to \$4.50; lamb skins and pelts, 60c. to 90c.; sheep skins, \$1.50 to \$2; tallow, No. 1, per lb., 51c. to 7c.; wool, washed, fine, per lb., 40c.; wool, combings, washed, per lb., 35c.; wool, unwashed, fine, per 1b., 30c.; wool, upwashed, coarse, per lb., 28c.; rejectious, per 1b., 28c.

FRUITS AND VEGETABLES.

Plums and peaches have been shipped in very heavily during the past week, and have been of much better quality. The plums now sill at 20c. to 40c. per 11-quart basket, according to quality, a few extra choice bringing 50c., and from 15c. to 300 per 6-quart basket. Peaches sold all the way from 20c. to 90c. per 11-quare basket, the Triumphs bringing 20c. Buy, the while ones 40c. to 75c., vellow St. Johns from 65c. to er 11-quart basket, the 6-quart bar bringing from 20c.

N A YIBAAS OADIM ILUA

headers or show purposes. Communicate with Mr. Arkell and get details regarding this excellent breeding stock,

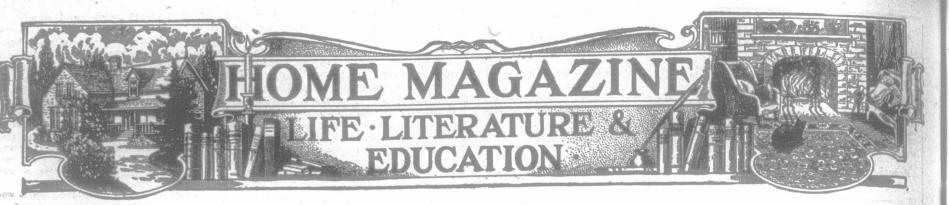
The twenty-seventh annual meeting of the American Leicester Breeders' Association will convene in the parlors of the Hotel Carls - Rite, Toronto, on Thursday evening, September 2, 1915, at 7.80 The breed will be judged at o'clock. the Exhibition on Thursday, and it is hoped that arrangements will be made to attend the Exhibition during the day, and the meeting in the evening.

WM. BARNETT & SON'S OXFORDS.

Wm. Barnett & Son, whose advertisement of Oxford Down sheep appears in another column of this paper, are among Wellington County's oldest Oxford breeders. Their flock is a large one, the breeding of which has been their specialty and their pride for very many years, their best endeavor having always been centered on reaching the highest possible standard of merit for the flock as a whole, and this by using only the best flock-headers available, and then by proper attention and generous feeding. The splendid demand they annually receive for breeding stock, and the universal satisfaction of their many customers, is the best guarantee of the quality of the Oxfords they breed. This year again they have a big bunch of cam and ewe lambs for sale up to the usual high standard of growth, covering, and breed characteristics. Send in your Sheep and Lambs.-Top lambs the first orders early and get an early selection.

FOUNDED 1866

SEPTEN



Autumn Magic.

1402

By Louise Imogen Guiney. as divine September, flushing from Soon sea to sea,

from the whole wide upland into Peers eternity,

Soft as an exhalation, ghosts of the thistle start :

Never a poet saw them but ached in Wis baffled heart.

Oh, what a nameless urging through avenues laid in air;

of scape, unbodied, intricate, Hints everywhere;

Sense of a feared denial, or access yet to be won ;

Gleams of a dubious gesture for guesses to feed upon !

Flame is flying in heaven, the down on the cool hillside :

Earth is a bride-veil glory that can not conceal the Bride

-From The Atlantic Monthly (October).

Cheap and Convenient Summer Dwellings.

By P. B. Walmsley.

A friend of mine, who is a back-to-thelander, though not a regular farmer, lives on the shore of one of the lakes in the highlands of Ontario much frequented by tourists. He and his wife find profitable occupation in summer in catering to the wants of the goodly number of summer people in rather a unique Mashion. That is, they do not run a conventional summer hotel or boardinghouse, where most of the guests sleep under one roof. Instead, they have a number of what they call "camps," which are really a compromise between a tent and a cottage. All the guests take their meals at the house, but spend much of their time and sleep in their several camps. Originally, they provided tents, but gave these up for various reasons, such as their heat in the day - time, short life, necessity for resides are left entirely open except for this

These tent houses are set by themselves in groves of balsam and young spruce near the lake shore, so quiet and privacy can be obtained, yet, when the occupant wishes, he can emerge from his solitude to mingle with the merry throng on the house veranda.

Such methods could be adopted by many farmers located near lakes. They save labor to the owner and his wife, and are full of the next-to-nature idea

knowledge is too certain, too cold, too real.

It is true that I have not always met the fine adventure nor won the friend, but if I had, what should I have more to look for at other turnings and other hilltops ?

The afternoon of my purchase was one of the great afternoons of my life. When Horace put me down at my gate, I did not go at once to the house; I did not wish, then, to talk with Harriet. The things I had with myself were too

I might swell with dignity and impor tance-for once, at least.

So I started at the fence corner hark of the burn and walked straight up through the pasture, keeping close to my boundaries, that I might not miss single rod of my acres. And, oh, i was a prime afternoon ! The Lord made it ! Sunshine-and autumn hazeand red trees-and yellow fields-and blue distances above the far-away town. And the air had a tang which got into a man's blood and set him chanting all the poetry he ever knew.

" I climb that was a clod,

- I run whose steps were slow. I reap the very wheat of God
 - That once had none to sow !"

So I walked up the margin of my field looking broadly about me: and presently I began to examine my fences-MY fences-with a critical eye. I considered the quality of the soil, though in truth I was not much of a judge of such matters. I gloated over my plowed land, lying there open and passive in the sunshine. I said of this tree: "It is mine," and of its companion beyond the fences : "It is my neighbor's." Deeply and sharply within myself I drew the line between meum and tuum: for only thus, by comparing ourselves with our neighbors, can we came to the true realization of property. Occasionally I stopped to pick up a stone and cast it over the fence, thinking with some truculence that my neighbor would probably throw it back again. Never mind, I had it out of my field. Once, with eager surplusage of energy, I pulled down a dead and partly-rotten oak stub, long an eye-sore, with an important feeling of proprietorship. 1 could do anything I liked. The 'farm was "mine."

How sweet an emotion is possession What charm is inherent in ownership! What a foundation for vanity; even for the greater quality of self-respect, lies in a little property 1 I fell to thinking of the excellent wording of the old books in which land is called "real prop erty" or "real estate." Money we may possess, or goods or chattels, but they the feeling that one's feet rest upon soil that is his: that part of the deep earth is his, with all the water upon it, all small animals that creep or crawl in the holes of it, all birds or insects that fy in the air above it, all trees, shrubs, flowers, and grass that grow upon it, all houses, barns and fences-all, his. As I strode along that afternoon I fed upon possession. I rolled the sweet morsel of ownership under my tongue. I seemed to set my feet down more firmly on the good earth. I straightened my shoulders: this land was mine. I picked up a clod of earth and let it crumble and drop through my fingers it gave me a peculiar and poignant feeling of possession. I can understand why the miser enjoys the very physical contact of his gold. Every sense 1 possessed, sight, hearing, smell, touch, fed upon the new joy. At one corner of my upper field the fence crosses an abrupt ravine upon leggy stilts. My line skirts the slope half-way up. My neighbor owns the crown of the hill, which he has shorn until it resembles the tonsured pate of a monk. Every rain brings the light soil down the ravine and lays it like a hand of infertility upon my farm. It had always bothered me, this wastage; and as I looked across my fence I thought to myself:

The Camp. A compromise between a tent and a cottage.

so dear to the heart of the city-dweller. important. I skulked toward my barn, work on these lines.

Browsings Among the Books.

THE JOY OF POSSESSION. [From David Grayson's delightful book,

And sometimes the farmer, who has no compelling myself to walk slowly until time for much reading, only needs the I reached the corner, where I broke into suggestion of the tourist to set him to an eager run as though the old Nick himself were after me. Behind the barn I dropped down on the grass, panting with laughter, and not without some of the shame a man feels at being a boy. Close along the side of the barn, as I sat there in the cool of the shade, I could see a tangled mat of smartweed and catnip, and the boards of the barn,

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moval and storage at end of each seabedsteads and mattresses, occasional leaky roofs, and difficulty of giving sufficient ventilation at night without letting in mosquitoes, etc.

The substitutes give satisfaction. The first is a sexagonal structure, each side being six feet six inches. Height from floor to sill six feet six inches. Roof (a pitch) is composed of one of the composition materials now on the mar-Sides are all of hemlock slabs, ket. cut with the bark on, six inches wide. Floor is 'of inch boards. Three sides have windows, or, rather, the upper half opens upwards on hinges. There is no glass. One side is left for a doorway. Across this are hung curtains made of heavy, brown duck. The inside of door and windows is protected with cotton mosquito - netting. As for cost, if he was putting one up for anyone else, he would charge \$100 to cover material and labor, and his own trouble. Of course, a handy man putting one up for himself, could do it for much less.

The second plan is what they call a "tent house," more open than the first, and larger. It is twelve feet square on the floor, and is boarded completely on New York. The narrator is a man who now deserted; and it struck me suddenly, one side and open on the other three. left the city because tired of its crush as I observed these homely, pleasant The root is of shingles. There is a and hurry. He first rented, then bought things : board fear. When in use the sides are a small farm, to which he came with protected by heavy canvas hung by his sister. The book from which the run, our books along the sill. The following chapter has been selected, tells support completese himself, according to the story of his experiences.] ad said weather, as to how much mo-

"Adventures in Contentment," published brown and weather - beaten, and the son, entailing the same trouble with by Doubleday, Page & Co., Garden City, gables above with mud swallows' nests, give no such impression of mineness as



A Cool Spot for a Hot Day.

"All this is mine."

I sprang up and drew a long breath. "Mine," I said.

It came to me then like an inspiraand and and and and and an other the permanent and the section he permanent and the section he permanent and the section he permanent and the section here the permanent and the section here the permanent and the section of a landowner. It came to me then like an inspira-tion that I might now go out and take formal possession of my farm. I might arosative method, estimative method and the future: tion that I might now go out and take formal possession of my farm. I might

"I must have that hill. I will buy it. I will set the fence farther up. I will plant the slope. It is no age of tonsures either in religion or agriculture."

separated Of all ob ocracy of greater th I was me. Ho I said, fences. fect beaut I saw ho placid, ho I had ready thi fondly as possess n like hung eat to g ness, so How man they rega temperance indulgence and how it sets it I said t fence him large one quisition thought o his hand "Everyth" acle''-for was also As I s broad va my farm, belongs (gave me for the 1

SEPTEMBER 2, 1915

THE FARMER'S ADVOCATE.

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Guard of Honor of the Honorable Artillery Company, of London.

Being inspected by Lord Kitchener (right) during the War Secretary's visit to the Guildhall, where he made a rousing address, appealing for "men, material and money." Next to Lord Kitchener is His Honor the Lord Mayor of London. Photo by Underwood & Underwood.

The very vision of widened acres set ripe stalks of the buckwheat, giving extended my farm upon all sides, thinkland than my neighbors. I dwelt avariwith discontent of my poverty. More clouds of envy. I coveted my neigh-Horace inferior : I was consumed with black vanity.

So I dealt hotly with these thoughts until I reached the top of the ridge at the farther corner of my land. It is the highest point on the farm.

For a moment I stood looking about me-a wonderful prospect of serene beauty. As it came to me-hills, fields, woods-the fever which had been consuming me died down. I thought how the world stretched away from my fences -just such fields-for a thousand miles, and in each small enclosure a man as hot as I with the passion of possession. How they all envied, and hated, in their iging for more land ! How property kept them apart, prevented the close, confident touch of friendship, how it separated lovers and ruined families ! Of all obstacles to that complete democracy of which we dream, is there a greater than property ? I was ashamed. Deep shame covered me. How little of the earth, after all, I said, lies within the limits of my fences. And I looked out upon the perlect beauty of the world around me, and I saw how little excited it was, how placid, how undemanding. I had come here to be free, and already this farm, which I thought of so fondly as my possession, was coming to Possess me. Ownership is an appetite Hke hunger or thirst, and as we may eat to gluttony and drink to drunkenness, so we may possess to avarice. How many men have I seen who, though they regard themselves as models of temperance, wear the marks of unbridled indulgence of the passion of possession, and how like gluttony or licentiousness it sets its sure sign upon their faces. I said to myself, Why should any man lence himself in ? And why hope to enlarge one's world by the creeping acquisition of a few acres to his farm? thought of the old scientist, who, laying his hand upon the grass, remarked : "Everything under my hand is a miracle"-forgetting that everything outside was also a miracle. As I stood there I glanced across the broad valley wherein lies the most of my farm, to a field of buckwheat which belongs to Horace. For an instant it gave me the illusion of a hill on fire : for the late sun shone full on the thick,

my thoughts on fire. In imagination I forth an abundant red glory that blessed hill in my upper pasture, I thought of the eye. Horace had been proud of his ing how much better I could handle my crop, smacking his lips at the prospect of winter pancakes, and here I was enclously upon more possessions : I thought tering his field and taking without hinderance another crop, a crop gathered land I wanted. I was enveloped in not with hands nor stored in granaries: a wonderful crop, which, once gathered, bor's land: I felt myself superior and may long be fed upon and yet remain unconsumed.

> So I looked across the countryside: a group of elms here, a tufted hilltop there, the smooth verdure of pastures, the rich brown of new-plowed fields,and the odors, and the sounds of the country-all cropped by me. How little the fences keep me out: I do not regard titles, nor consider boundaries. I enter either by day or by night, but not used. secretly. Taking my fill, I leave as shall not allow possessions to come bemuch as I find.

And thus standing upon the highest the quoted saying of a certain old abbot of the middle ages-"He that is a true monk considers nothing as belonging to him except a lyre."

What finer spirit? Who shall step forth freer than he who goes with nothing save his lyre? He shall sing as he goes: he shall not be held down nor fenced in.

With a lifting of the soul I thought of that old abbot, how smooth his brow, how catholic his interest, how serene his outlook, how free his friendships, how unlimited his whole life. Nothing but a lyre !

So I made a covenant there with myself. I said : "I shall use, not be used. I do not limit myself here. I tween me and my life or my friends."

For a time-how long I do not know-I stood thinking. Presently I discovered, moving slowly along the margin of the field below me, the old professor with his tin botany box. And somehow had now no feeling that he was intruding upon my new land. His walk was slow and methodical, his head, and even his shoulders, were bent-almost habitually-from looking close upon the earth, and from time to time he stopped, and once he knelt to examine some object that attracted his eye. It seemed appropriate that he should thus kneel to the earth. So he gathered HIS crop and fences did not keep him out, nor titles disturb him. He also was free ! It gave me at that moment a peculiar pleasure to have him on my land, to know that I was, if unconsciously, rais-I felt ing other crops than I knew. friendship for this old professor : I could understand him, I thought. And I said aloud, but in a low tone, as though I were addressing him :

1403

Do not apologize, friend, when you come into my field. You do not interrupt me. What you have come for is of more importance at this moment than corn. Who is it that says I must plow so many furrows this way? Come in, friend, and sit here on these clods: we will sweeten the evening with fine words. We will invest our time not in corn, or in cash, but in life :--

I walked with confidence down the hill toward the professor. So engrossed was he with his employment that he did not see me until I was within a few paces of him. When he looked up at me it was as though his eyes returned from some far journey. I felt at first out of focus, unplaced, and only gradually coming into view. In his hand he held a lump of earth containing a thrifty young plant of the purple cone-flower, having several blossoms. He worked at the lump deftly, delicately, so that the earth, pinched, powdered, and shaken out, fell between his fingers, leaving the knotty yellow roots in his hand. marked how firm, slow, brown, the old man was, how little obtrusive in my field. One foot rested in a furrow, the other was set among the grass of the margin, near the fence-his place, I thought.

His first words, though of little moment in themselves, gave me a curious satisfaction, as when a coin, tested, rings true gold, or a hero, tried, is heroic.

"I have rarely," he said, "seen a finer display of rudbeckia than this, along these old fences."

If he had referred to me, or questioned, or apologized, I should have been

ss, or goods or chattels, but they no such impression of mineness as eling that one's feet rest upon soil is his: that part of the deep earth s, with all the water upon it, all animals that creep or crawl in the of it, all birds or insects that fy ne air above it, all trees, shrubs, s, and grass that grow upon it, ouses, barns and fences-all, his. strode along that afternoon I fed possession. I rolled the sweet l of ownership under my tongue. ned to set my feet down more on the good earth. I straightmy shoulders: this land was mine ed up a clod of earth and let it le and drop through my fingers: e me a peculiar and poignant feelf possession. I can understand he miser enjoys the very physical it of his gold. Every sense 1 sed, sight, hearing, smell, touch, on the new joy.

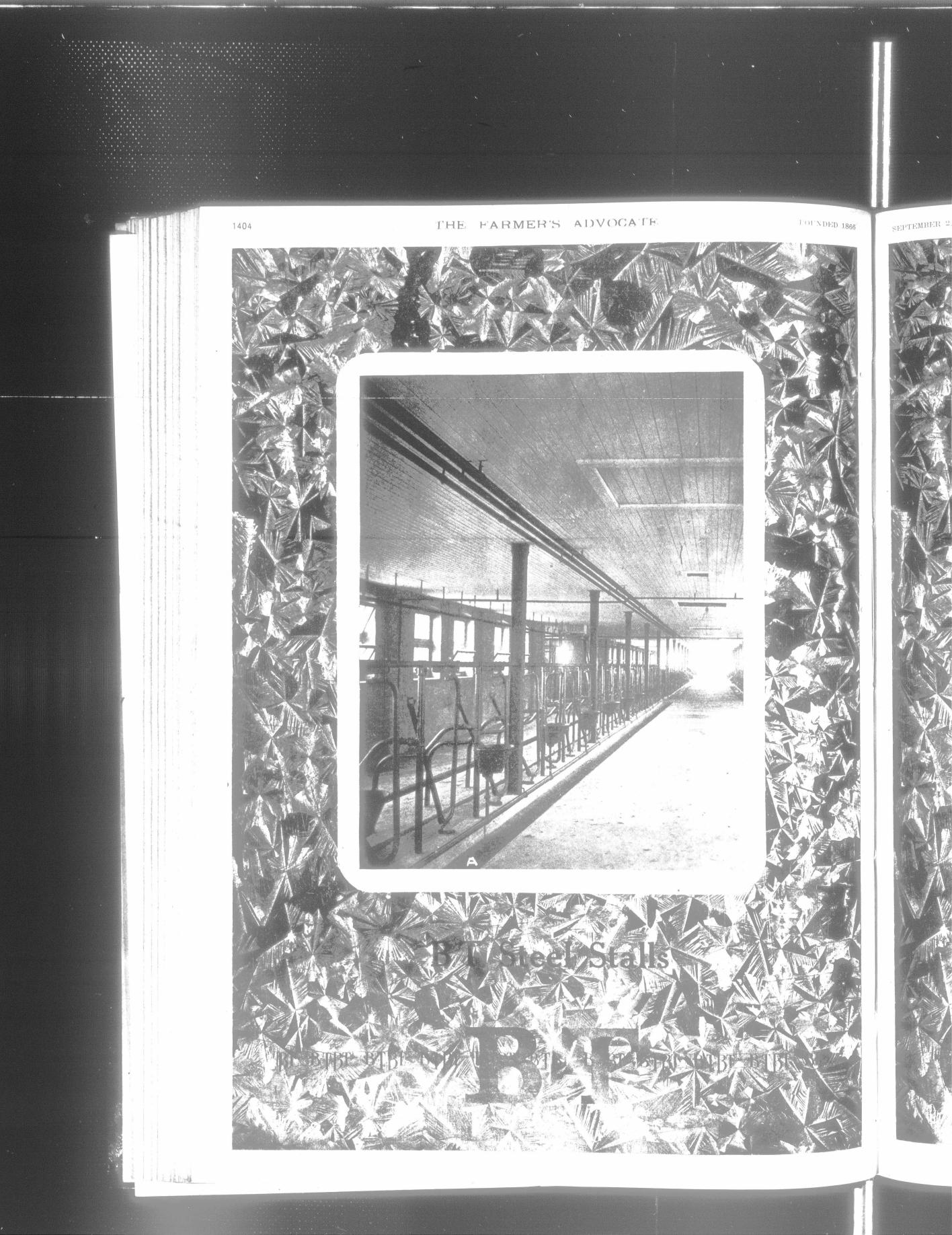
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France Pays Homage to the Composer of "The Marseillaise."

On July 14th, the National Festival of France, the nation paid fitting tribute to the composer of the national anthem, "The Marseillaise." The body of Rouget de l'Isle, the composer, was exhumed from its grave at Choisy le Toi, and with great ceremony conveyed to the Palace of the Invalides, where it was received with due honors, President Poincare delivering an address to the people. The photograph shows the procession passing through the Arch of Triumph in Paris. The remains of Rouget de l'Isle are borne on the gun carriage. Photo by Underwood & Underwood.



SEPTEMBER 2, 1915

THE FARMER'S ADVOCATE.

Worth twice the Price Prove It For Yourself

Galvanized

\$19.80

NEXT time you are in town, ask the hardware man, plumber, or implement agent, for the price of galvanized and black pipe. You will find that he asks almost twice as much for the galvanized pipe as for the black or ordinary pipe. The latest price at the time we are writing is: 1405

Per 100 feet 2-inch - -

BT Stalls are made of 2-inch galvanized pipe, and are therefore worth twice the price of painted stalls made of black pipe. Every BT Stall is worth \$5 more than you pay for it, you can prove that for yourself.

Galvanized pipe is very costly, because spelter or zinc is needed for the galvanizing process. Spelter is also used in making ammunition for the war. It is therefore very scarce and difficult to get.

The war taxes and extra duties are heavy, and many manufacturers have been forced to raise their prices.

But, notwithstanding these facts, we are going to galvanize BT Steel Stalls without any increase in the price.

Although Galvanized pipe costs twice as much as black pipe, we are galvanizing BT Stalls without extra charge.

BT Galvanized Stalls last longer than stalls which are only dipped in black japan or painted with aluminum. Rust cannot attack BT Stalls. They look far better in the stable. You can always be proud of the appearance of your equipment.

Not only is the pipe used in BT Stalls galvanized, but every clamp and nut and bolt as well. Every inch is rust-proof. The galvanizing is done by the electro process,

How Can We Do It?

Black

\$9.99

We are charging no more for BT Galvanized Stalls than we used to charge for painted stalls. How can we do it? There has been a large increase in the sale of BT Steel Stalls. Twice as many are sold annually as of all other makes combined. They are being installed in stables everywhere. We are selling and manufacturing them on a larger scale, and this has enabled us to make many savings. Machines are being used which cut, bend and rivet stalls, stanchions and mangers 25 times more quickly than could be done by hand. The money we save in the se ways we use to improve the stalls for you. You get the \$5.00 extra value, free, on every BT Stall. We have two galvanizing plants of our own. Visitors are welcome at our factory. Farmers who buy stalls very often come up to Fergus to see the stalls being made.

It Pays to Buy the BT.

BT Stands for the BesT—the best goods, the best value. The galvanizing is only one sample of the extra value of the BT. There are many facts you ought to know—the patented features, the individual barn plan service, the help we give in installing. We have not the space here to tell about them. We have not the room to tell half the facts about the galvanizing. We want to tell you how to test stalls to make sure they are galvanized. We want you to see photos of some of the barns we have equipped. Be sure to write for the BT Illustrated Catalogue and investigate all. The fact that twice as many BT Galvanized Stalls are sold each year as there are of all other makes combined is the best reason for learning all about them.

The BT Line includes not only cow stalls, but all equipment necessary for the barn. If you need a Hay Carrier, Manure Carrier, Horse Stable Fittings, Water Bowls, Hog Pens or Hog Troughs, Barn Door Track, we will be glad to send you our catalogue. See the BT Steel Stalls in the Model Barn at the Toronto Exhibition. Also see BT exhibits at London and Ottawa.



BEATTY BROS., Limited, 1901 Hill St. Fergus, Ontario

1406

THE FARMER'S ADVOCATE.

He did not say, "your disappointed. fences," he said "these fences," as though they were as much his as mine. And he speke in his own world, knowing that if I could enter I would, but that if I could not, no stooping to me would avail either of us.

"It has been a good autumn for flowers," I said inanely, for so many things were flying through my mind that I could not at once think of the great particular words which should bring us together. At first I thought my chance had passed, but he seemed to see something in me after all, for he said :

"Here is a peculiarly large specimen of the rudbeckia. Observe the deep purple of the cone, and the bright yellow of the petals. Here is another that grew hardly two feet away, in the grass near the fence where the rails and the blackberry bushes have shaded it. How small and undeveloped it is."

"They crowd up to the plowed land," I observed.

"Yes, they reach out for a better chance in life-like men. With more room, better food, freer air, you see how much finer they grow."

It was curious to me, having hitherto barely ubserved the cone-flowers along my fences, save as a color of beauty, how simply we fell to talking of them as though in truth they were people like ourselves, having our desires and possessed of our capabilities. It gave me then, for the first time, the feeling which has since meant such varied enjoyment of the peopling of the woods.

"See here," he said, "how different the character of these individuals. They are all of the same species. They all grow along this fence within two or three rods; but observe the difference, not only in size, but in coloring, in the shape of the petals, in the proportions of the cone. What does it all mean? Why, nature trying one of her endless experiments. She sows here broadly, trying to produce better cone-flowers. A few she plants on the edge of the field in the hope that they may escape the plow. If they grow, better food and more sunshine produce more and larger flowers."

So we talked, or rather he talked, finding in me an eager listener. And what he called botany seemed to me to be life. Of birth, of growth, of reproduction, of death, he spoke, and his flowers became sentient creatures under my eyes.

And thus the sun went down and the purple mists crept silently along the distant low spots, and all the great, great mysteries came and stood before me beckoning and questioning. They came and they stood, and out of the cone-flower, as the old professor spoke, I seemed to catch a glimmer of the true light. I reflected how truly everything is in anything. If one could really

my eyes. As I grew older I concluded that there was no God. I dismissed Him from the Universe. I believed only in what I could see, or hear, or feel. I talked about Nature and Reality."

He paused, the smile still lighting his face, evidently recalling to himself the old days. I did not interrupt him. Finally he turned to me and said abruptly :

"And now-it seems to me-there is nothing but God."

As he said this he lifted his arm with a peculiar gesture that seemed to take in the whole world.

For a time we were both silent. When I left him I offered my hand and told him I hoped I might become his friend. So I turned my face toward home. Evening was falling, and as I walked I heard the crows calling, and the air was keen and cool, and I thought deep thoughts.

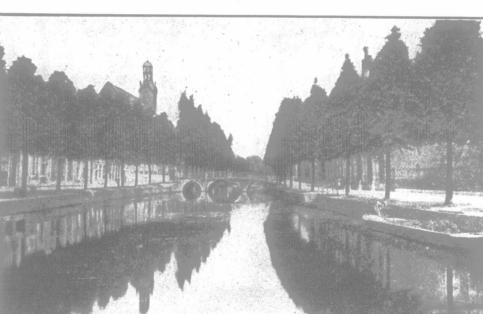
And so I stepped into the darkened stable. I could not see the outlines of the horse or the cow, but knowing the place so well I could easily get about. I heard the horse step aside with a soft, expectant whinny. I smelled the smell of milk, the musty, sharp odor of dry hay, the pungent smell of manure, not unpleasant. And the stable was warm after the cool of the fields with a sort of animal warmth that struck into me soothingly. I spoke in a low voice and laid my hand on the horse's flank. The flesh quivered and shrunk away from my touch - coming back confidently, warmly. I ran my hand along his back and up his hairy neck. I felt his sensi-tive nose in my hand. "You shall have your oats," I said, and I gave him to eat. Then I spoke as gently to the cow, and she stood aside to be milked.

Leiden, and for the five after-years the rooms have been lent to a cousin, studying for his degree as a learned doctor of law. Now, I knew it was close upon the time for him to take his degree, and I hoped that I might be able to show my friends (and one Enemy) a few things in my old University town which ordinary tourists might not see.

The tea-things had been washed up and a discussion of plans (from which Miss Van Buren managed to exclude me) had ended in no definite conclusion, when I brought "Lorelei" into one of the innumerable green canals in Leiden.

"None of you seem to know what you want to do first, last, or in the middle," I ventured to remark; "so, to save time, perhaps you'll let me offer a few suggestions. I've told Hendrik to fetch a cab, and he's gone. When your carriage comes, engage rooms at the Levedag Hotel, drive through the town, have a glance at the churches, and go to the Stadhuis. You'll like the spire and the facade. They're both of the sixteenth century, when we were prosperous and artistic; and over the north-side entrance there's a chronogram inscription concerning the siege. I can't go, because I want to arrange your evening, which I hope will be a success. But I'll meet you in the Archive Room at the Stadhuis, where you can admire the paneling till I come. I won't keep you waiting long; and then I'll take you over the University Buildings. I was there, you know, as a student."

By the time this plan was arranged to the satisfaction of everybody except that of the person I wished to plase, Hendrik had arrived with a cab, and five



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plans. His Promotie dinner, the grandest affair of student life, and the rounding off of it, would be in three parts, with various ceremonics in between, and would last from now until two or three in the morning. However, I told him what I had wanted, to give a surprise dinner at his diggings for the party from "Lorelei," with him to arrange details while I played guide, and to take the part of host for us at eight o'clock. Could he suggest any one who would look after the thing in his place? Van Rhonda or Douw, for instance? But van Rhonda and Douw, it seemed, were the Paranymphs, or supporters of the newly-made Doctor, and their time would be fully taken up in seeing him through: All my old friends who were left would be at the Promotie dinner, but Jan was sure that my business might be safely entrusted to the landlady. She would get flowers, go to the hotel to order whatever I wished, and even superintend the waiters.

With this 1 had to be satisfied, for in the midst of the discussion appeared the two Paranymphs, wanting to know what kept Jan, and the hero of the day was ruthlessly carried off between them. had to do the best I could; my old landlady had not forgotten me, and I was assured that I might depend upon her. When I had scribbled a menu, consisting of some rather odd dishes, sketched ap idea for the table decoration, and given a few other hasty instructions, I dashed off to keep my appointment at the stadhuis. On the way I consoled myself with the reflection that it's an ill wind which blows nobody good. I had been bereaved of Jan as a prop, but] might make use of him and his friends

by-and-by as one of the sights of Leiden, and I would 'take advantage of my knowledge of the usual program on such festive nights as this for the benefit of my friends.

I arrived at the Stadhuis as the others took their first look at the oak Archive Room. There was just one other room in this most excellent and historic building that I wanted Miss Van Buren to see. It was a Tapestry Room, among other Tapestry Rooms, of no importance; but I remembered her fantastic desire to "live in the stained-glass country," and I recalled a certain tapes try garden in which I felt sure she would long to wander. There was a meal of some wonderf.l sort going on in it, and I had been conscious in other days of a desire to be a tapestry man and sit with the tapestry lady there. All tapestry people look incredibly happy for in tapestry etiquette it's bad form to be tragic. Even their battles are comedy battles, as you can see by the faces of the war-horses that they have a strong sense of humor, but these particular tapestry friends of mine were the gayest I ever met, and I wanted Miss Van Buren to make their acquaintance

understand a cone-flower he could under stand this Earth. Botany was only one road toward the Explanation.

Always I hope that some traveller may have more news of the way than I, and sooner or later, I find I must make inquiry of the direction of every thoughtful man I meet. And I have always had especial hope of those who study the sciences: they ask such intimate questions of nature. Theology possesses a vain-gloriousness which places its faith in human theories: but science, at its best, is humble before nature herself. It has no thesis to defend : it is content to kneel upon the earth, in the way of my friend, the old professor, and ask the simplest questions, hoping for some true reply.

I wondered, then, what the professor thought, after his years of work, of the Mystery; and finally, not without confusion, I asked him. He listened, for the first time ceasing to dig, shake out and arrange his specimens. When I had stopped speaking he remained for a moment silent, then he looked at me with a new regard. Finally he quoted quietly, but with a deep note in his voice :

"Canst thou by searching find God? Canst thou find out the Almighty unto perfection? It is as high as heaven: what canst thou do? deeper than hell: what canst thou know ?'

When the professor had spoken we stood for a moment silent, then he stalled and said briskly :

"I have been a botanist for fifty-four



University of Leiden, Holland.

clear, bright night, and the air was my scheme for the evening. sweet and cool, and my dog came bounding to meet me.-So I carried the milk into the house, and Harriet said in her heartiest tone :

"You are late, David. But sit up, I have kept the biscuits warm."

And that night my sleep was sound.

Our Serial Story "THE CHAPERON"

By C. N. and A. M. Williamson. Copyrighted.

Chapter XII.

RUDOLPH BREDERODE'S POINT OF VIEW.

(Continued.)

My mother sent me to Oxford, because she thought that she could take no intelligent interest in any young man if he had not had his four years at Oxford or Cambridge. But afterwards, through loyalty to my fatherland, I gave myself two at the University of Leiden; and as the rooms 1 lived in When I was a bey I believed there hold memories of Oliver Goldapplicitly in Gad. I prayed to Him, smith, I've kept them on ever since. I aving a vision of thim of ferson-before was twenty-four when I said good-by to

And afterward I came out into the minutes later I was free to carry out

From Gouda I'd sent a wire to my cousin Jan van Hoi, asking him to be at home and expecting me between four and five, so I felt sure of him. I took all the short cuts (which I know as well as I know my hat), and was soon climbing the ladder-like stairs of the ...ld house, the top floor of which was home to me for two years.

From those windows Goldsmith looked down on the sleepy canal, when he visited a crony who was tenant of the rooms; and the door which Goldsmith's hand often touched was thrown open by the present tenant, who must have been listening for my step.

To my surprise, he was in wild deshabille, and far out of his usual phlegmatic self with excitement.

"It's my Promotie Day," he explained. "I'm just back and have got out of my swallow-tail after the final exam. I'm due at the Club for the first part of my dinner in a few minutes. Had you forgotten, or didn't you get your card ?'

I told him that no doubt it was at Liliendaal, or wandering in search of me; and when I had slapped him on the back, and congratulated him as "Learned Doctor," I began to wonder what I should do, as it was clear he would have no time to help me carry out my

To reach the room, through another also representing a tapestry world, we had to perform a dreadful surgical operation on the abdomen of a Roman emperor by opening a door in the middle of it, and, as the mariner said, the size of the next room gave the same sort of shock that Jonah must have had when he arrived in the whale.

If I had shown her that tapestry garden, Miss Van Buren would have feigned indifference; but I left her to Starr, and from a distance had the chastened pleasure of hearing her say to him the things I should have liked her to say to me.

Afterwards I swept the party away to the University, preparing their minds to expect no architectural splendors.

"Leiden is our most famous uni-versity," I said. "But we have no streets of beautiful old colleges, no lovely gardens. You see, Oxford and Cambridge are universities around which towns have gathered, whereas Leiden was a city long before William the Silent gave its people choice, as a reward for their heroic defense, of free-

His Promotie dinner, the grandir of student life, and the round. of it, would be in three parts, arious ceremonics in between, and ast from now until two or three morning. However, I told him had wanted, to give a surprise at his diggings for the party 'Lorelei,'' with him to arrange while I played guide, and to ne part of host for us at eight Could he suggest any one who ook after the thing in his place? onda or Douw, for instance? But onda and Douw, it seemed, were anymphs, or supporters of the ade Doctor, and their time would taken up in seeing him through. old friends who were left would he Promotie dinner, but Jan was at my business might be safely d to the landlady. She would wers, go to the hotel to order r I wished, and even superintend ters.

this I had to be satisfied, for in st of the discussion appeared the anymphs, wanting to know what n, and the hero of the day was ly carried off between them. do the best I could; my old landd not forgotten me, and I was that I might depend upon her. had scribbled a menu, consisting rather odd dishes, sketched ap the table decoration, and given ther hasty instructions, I dashed keep my appointment at the On the way I consoled my-. On the way I consoled my-h the reflection that it's an ill ich blows nobody good. I had eaved of Jan as a prop, but 1 nake use of him and his friends by-and-by as one of the sights

of Leiden, and I would take advantage of my knowledge of the usual program on such festive nights as this for the benefit of my friends.

I arrived at the Stadhuis as the others took their first look at the oak Archive Room. There was just one other room in this most excellent and historic building that I wanted Miss Van Buren to see. It was a Tapestry Room, among other Tapestry Rooms, of no importance; but I remembered her fantastic desire to "live in the stained-glass country," and I recalled a certain tapes try garden in which I felt sure she would long to wander. There was a meal of some wonderf.l sort going on in it, and I had been conscious in other days of a desire to be a tapestry man and sit with the there. All tapestry people look incredibly happy for in tapestry etiquette it's bad form to be tragic. Even their battles are comedy battles, as you by the faces of the war-horses y have a strong sense of humor? e particular tapestry friends of e the gayest I ever met, and I liss Van Buren to make their nce.

SEPTEMBER 2, 1915

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dom from taxes or a university. When they said they'd have the university, the thing was to get it. Money wasn't plentiful, and here was an old monastery, empty and ready for use-a building whose simplicity would have appealed to William in his later days." It was not until they had this apology

well in their heads that I ushered them into the bare, red-brick courtyard so full of memories for me, and here I buckled on my armor of defense.

"Our universities have produced great men, though they've given them no Gothic buildings or fairy gardens. Where will you find more illustrious names than Scaliger, Grotius, and Oliver Goldsmith ?-lots of others, too. Why, Niebuhr said of our hall that no place is so memorable in history of science.

Trying to appear impressed, the three ladies, followed by Starr, trailed into the building, deserted at this hour; and it was the artist's quick eye that first caught the eccentric merit of the famous caricatures lining the staircase.

Then came the chamber of torture, the 'Sweating Room,'' that bare, whitewashed cell remembered by all Leideners with anguish. There I (and thousands before and thousands after) had sat to wait my dreaded turn with the professors behind the green-baize table in the room next door. There I-among those other nerve-shattered ones-had sc inblad my name and scrawled a sketch or two. "Here sweated Rudolph Brederode." read out Miss Rivers, with a sweet look, as if she pitied me now for what I suffered then. But Miss Van Buren showed sublime indifference. She wished, she said, to pick out names that were really interesting.

Even she, however, was roused to compassion for the tortured ones, when in the adjoining room she heard that the examinations were conducted publicly, and that there was no reason why any stranger should not walk in from the street to hear the victims put to the question.

(Continued on page 1414.)

The Dollar Chain

A fund maintained by readers of "The Farmer's Advocate and Home Magazine" for (1) Belgian Relief; (2) Soldiers' Comforts; (3) Red Cross Supplies. Donations for the week from Aug. 20th

to Aug. 27th are as follows :

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J. M. L., Centreville, Ont., \$2.00; Oak Bay Mills Sabbath School, Que., \$2.00; "Toronto," \$3.00; W. A. Ricker, Canfield, Ont., \$5.00.

\$1.00 each :-- Mrs. A. J. Clark, Ravenswood, Ont.; Mrs. W. J. Weed, Alvinston, Ont.: Mrs. Jas. Oke, Centralia, Ont.: James R. Gates, Mary Gates, and Mary



1407

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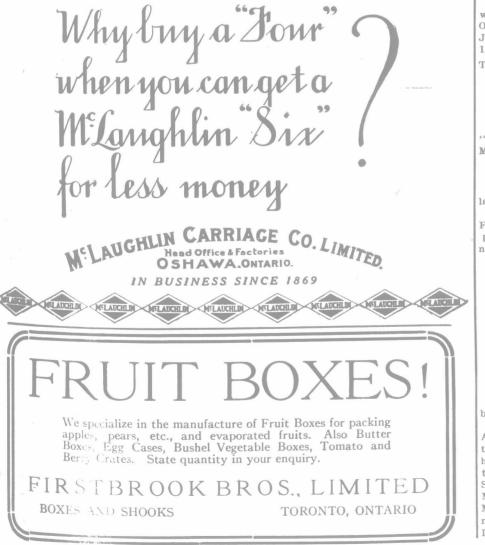


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I. Gates, all of Kingston, Ont.

Total amount previously acknowledged from Jan. 30th\$1,784.75 to Aug. 20th

Total to Aug. 27th \$1,752.75 Kindly address contributions simply to 'The Farmer's Advocate and Home Magazine,'' London, Ont.

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If sending parcel post, all charges must be prepaid.

Contributions during the week between Aug. 20th and Aug. 27th were sent by the following : Mrs. M. Heywood, Woodham, Ont., and the following, all of Winterbourne, Ont .: - Mrs. John Pine, C. M. Smart, Wm. Mitchell, Wm. R. Hamilton, Mrs. Robt. Forrest, Mrs. Jno. Hamilton, Mrs. H. K. Hamilton, Mrs. John Burnett, Mrs. Jos. Woods, Mrs. John Durant.

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Hymn for Airmen.

guard and guide the men who fly h the great spaces of the sky, h them traversing the air sening storm or sunshine fair, Who dost keep with tender might lanced birds in all their flight, f the tempered winds be near, having Thee, they know no fear. I their minds, with instinct at, ime, adventuring, they quit m security of land : steadfast eye and skilful hand.

n solitudes of space (them with Thy saving Grace, protect the men who fly h lonely ways beneath the sky. M. C. D. H.

Thine Is the Kingdom.

is the kingdom, and the power, he glory, for ever. Amen.-S. 71.: 13.

is the kingdom, Lord ! I subjection at Thy feet we bow, ghtful Sovereign Thou, and only Thou ! s the kingdom, Lord !''

s steady our trembling hearts, in ays of world-wide distress, by reing that the familiar words we tid so many times—often carelessnaps—are true. It is TRUE that the Almighty Ruler over all the as of the earth. An emperor el himself very invincible, as he it his armies and guns, his suband airships, but he is only a ce other men. At any moment gel of death may touch him and authoritatively: "The soul is I of thee." Then he must stand weak as any other man—to give of his stewardship.

Lord is our King; He will save id a Jewish prophet; and if He e King of the Jews, much more e claim His Royal protection, for ch His wondrous Incarnation-the as become near of kin to us. declared that all power in heaven th was His; and those who call ves Christians bring dishonor on use when they talk hopelessly the present condition of affairs. gdom and the power belong to ther. We may be bewildered by ence when the helpless and inhoe tortured and killed. So the One on the Cross looked up the darkness and asked why He That "Why? en forsaken. l children of God still goes up. not know the answer-yet-but y is to follow our Master and d ourselves trustfully into our s hands. He did not wait until n was over, until God had shown In the darkness he groped Heart of God and rested there, yet peaceful. absolutely true that the Most lles in this world, in great matl in small. Perhaps trouble has ne into your life through the and injustice of men, and you el that Satan, not God, has the trouble. Yet God is King, has permitted the trouble to oon you. In the story of Job taken behind the scenes of a of earthly life. There we see permitted to do his very worst a faithful servant of God. Job through the furnace of affliction e out shining with new spiritual Before his troubles he had God, now his eyes were opened Vision of His Face, so that his hteousness of life seemed paltry temptible as compared with the oliness of God. "I have heard by the hearing of the ear: but e eyes seeth Thee. Wherefore I nyself, and repent in dust and he said when his comfortable y had been suddenly swept away had spoken to his suffering So it was with David. Read the shepherd psalm"-the 23rd-and notice that while the sheep is acefully in green pastures of in safe and easy paths, he

SEPTEMBER 2, 1915

speaks about the Shepherd. When he finds himself struggling fearfully through the dark valley of the shadow of death, he presses close to his mighty Shepherd's side and speaks to Him : "I will fear no evil : for Thou art with me."

We are only ignorant little children in God's Family. We cannot-yet-understand His reasons for permitting horrible wickedness to go long unchecked. We can only cling to His hand in the hour of darkness and say undauntedly : "I will fear no evil : for Thou art with me; thy rod and thy staff they comfort You know that the word "comme." fort" means to strengthen. Many sorely tired hearts have gained wonderful strength by endurance of pain and sor-The dark hour is the testing-time. row. Shall we be cowards or heroes ? I was this morning looking at a photograph of a crowd of Belgian refugees, flying for their lives from a doomed city. Most of the faces were sad and hopeless, but one young woman was smiling. Just think of the courage shown by that bright smile !

Many of our readers are enduring a heavy strain of anxiety or a crushing burden of sorrow. It is your testing-When it is over will you think sadly: "I was a coward. I went down helplessly and helped to make life harder for others. I indulged the miserable weakness of self-pity and grew more selfish and hard-hearted," Or will you come out of the dark time with radiant face, with your hand held close in your Father's hand and your eyes on His face? Can you be brave enough to smile, like that splendid Belgian girl,-and keep on smiling-when everything seems to be going wrong? You may not be very brave naturally, but if you can feel God's hand-clasp in the darkness and know that He rules supreme in this loved world of His, happiness and peace will spring up like living waters in your heart. Give up asking "Why"? and find gladness in the certainty that our Father is King. If He allows terrible things to happen it is not because He is either weak or unloving.

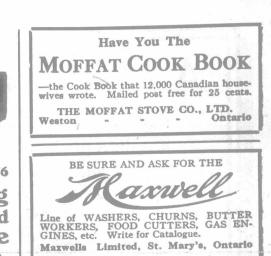
"I do not ask my cross to understand, My way to see; Better in darkness just to feel Thy hand And follow Thee."

When our Captain chooses out a soldier here and there for a dangerous and difficult duty, He is showing confidence in that soldier and honoring him. No general will choose a coward or a weakling to keep a dangerous pass or defend a threatened city. And when God—our King—calls us to endure hard trials and bitter pain of heart or, body, let us try to be as brave as our soldiers who scorn to make a fuss about hardships and wounds, and are full of eager enthusiasm when permitted to leave their safe quarters, behind the lines, for a coveted position "at the front."

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1409

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There is a story of a village "rake" who seemed to have no trace of manliness in him. He loafed and drank his hile away, until the war broke out. Then he enlisted, passed through his training and went to the war. In a few weeks his body was brought home and the village people rose up as one man to do him honor. He had died a hero's death, trying to save a wounded comrade. This war has fanned into flame the glorious manhood in many a heart,-manhood which was slowly being crushed by selfish dissipation and vice. War is Satan's weapon, but God is forcing it to work miracles .- See Acts iv .: 24 - 28.

Of how many heroes has it been said wonderingly : "I did not think it was God knew it was in him, all in him !" the time, but the latent heroism might have slowly died out in a life of easy prosperity. War is horrible, and a disgrace to Christendom as well as to civilization-it is time we gave up torturing and destroying-yet God can bring perfumed violets out of evil-smelling dirt. The kingdom and the power are His, and He is still "within the shadows, keeping watch above His own." When we yield to despondency we are showing the world that we have no real laith in our King. Evil cannot triumph in the end. Those who build on the quicksand foundation of oppression and crime are counting destruction. Let us trust our Lord and take each day as a

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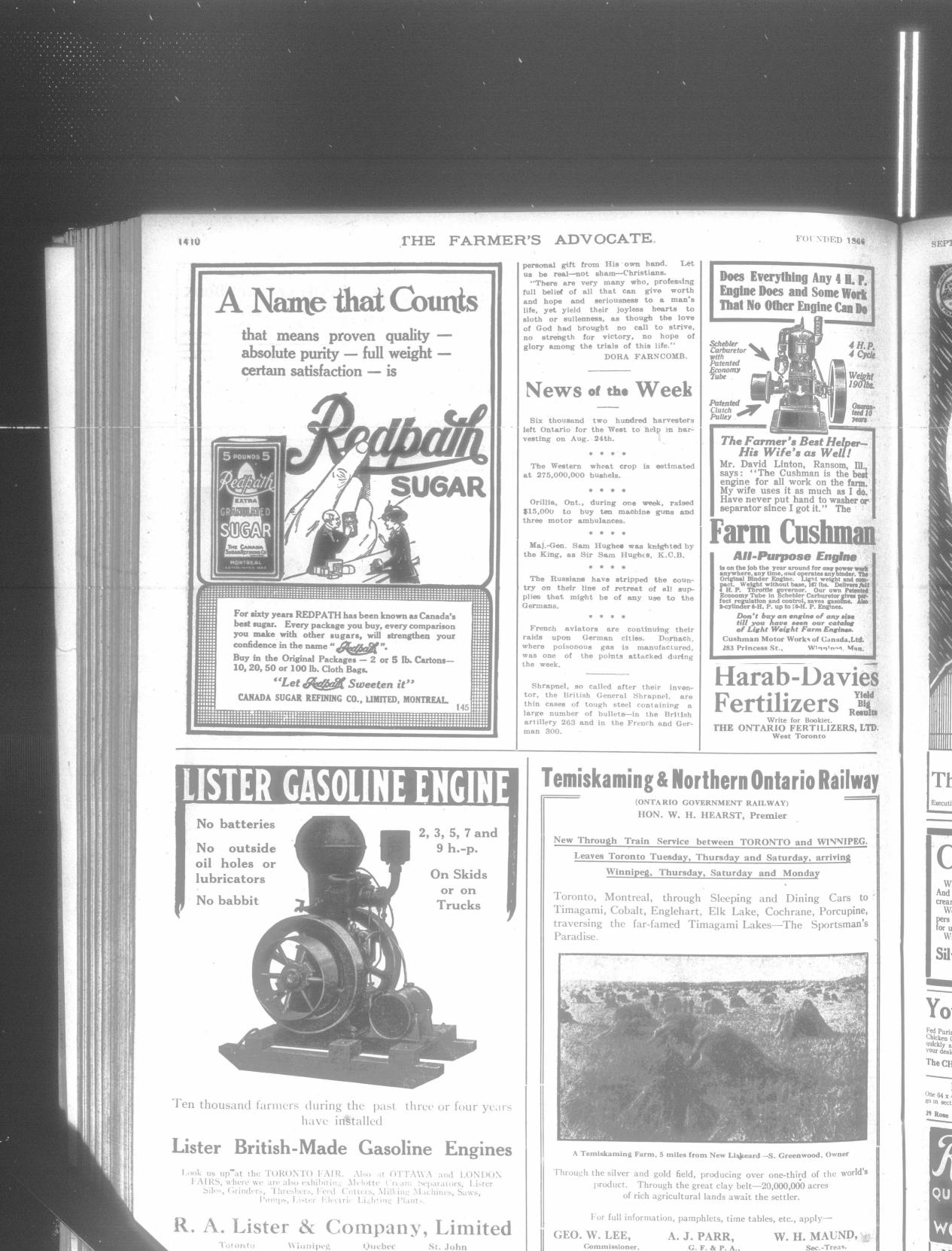
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No. 2

"You'll be the death of me yet, Billy"

1411

"Jumping in on a body like that—of course I'm glad to see you, you were always Granny's boy but, Billy, you look sick. What's the matter?"

"Oh, indigestion; that comes from those city boarding houses, Granny—"

"So I came up to the country and Granny to get fixed up.

"The simple life for me now—early to bed and early to rise—fresh air and fresh milk with lots of your good food—your home-made bread, crisp and brown—big, soft, light muffins—fluffy tea biscuits for supper, piping hot from the oven, and good old-fashioned pies, like those you used to make when I was a boy."

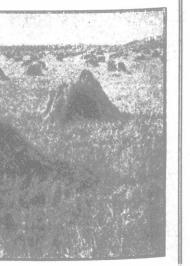
"Well, Billy boy, they're just the same to-day as then—I still use the old dependable HUNT'S FLOUR—always the same and still the best never had even a cookie spoil yet.

"Now run along and get ready for supper."



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happened to be taken out of the library by one of the Louvain professors. He has hidden it under ground for safe keeping, and intends to use it as a nucleus for a new library when the war is over.

The Windrow.

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lion volumes of the library of Louvain

is an old parchment manuscript which

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* * * *

United States doctors and nurses have done wonderful work in Servia since the beginning of the war. During the spring and early summer typhus fever was rampant, and so prevalent was the plague of vermin that all sorts of diseases liable to circulation by insect life were spreading rapidly. Now, cwing to the strict sanitary measures introduced by the Americans, many of whom sacrificed their lives in the struggle, both of these are rapidly disappearing.

Sir James Murray, the great lexicographer who for thirty-seven years worked on the "New English Dictionary," died in London on July 27th at the age of seventy-eight. He was working on the tenth volume when obliged to give up his work.

* * * *

. . . .

Miss Winifred Holt, an American, has gone to Europe to organize a movement for establishing trades-buildings, "lighthouses" in which useful trades may be taught to men blinded in the war. Already by her efforts, a "lighthouse" has been established at Bordeaux, and several others will be opened in other parts of Europe. Mr. J. P. Morgan & Co., New York, are receiving checks for the Committee for Men Blinded in Battle, which stands behind Miss Holt and her work.

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because meat contains the protein that the hens need to produce eggs.

Over-one third of the lids in an egg consists of otein. Certainly the all amount of protein in ains is not enough.

ou must give your hens grit, en foods, clean water, you must your grain foods, you must ance your rations with Beef ap. That is, you must, if you ap. That is, y nt winter eggs. eeding for winter eggs. nge for this coupon. GUNNS

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SEPTEMBER 2, 1915

You Think of BREAD Think of FIVE ROSES

THE FARMER'S ADVOCATE

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Bread is so essential to growth and vitality, you should encourage your folks to eat more. Win them to bread-eating by making your bread irresistible.

Baked from FIVE ROSES flour, your loaf enjoys a unique personality that belongs to none other.

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In the same splendid loaf, let it bring you this extra quality: -a fulness of nutlike flavour, a sweetness that is envied by the best cooks everywhere.

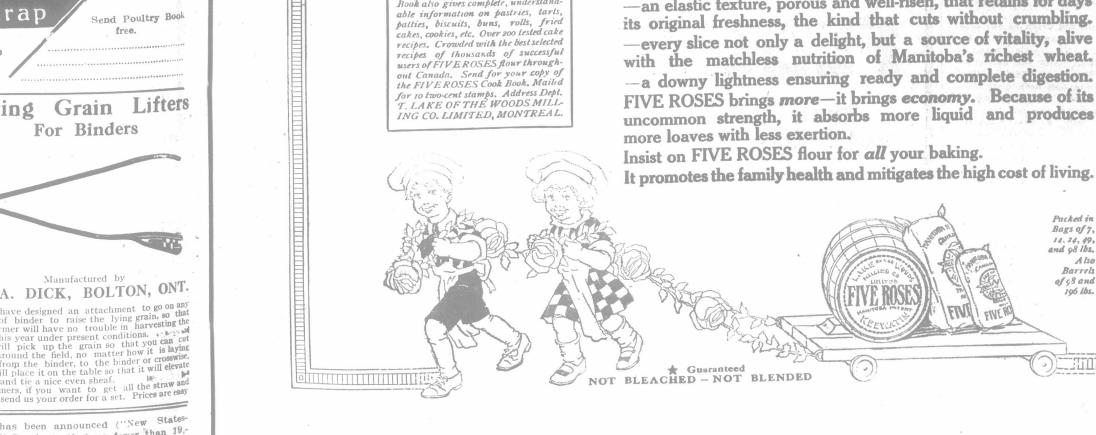
-a crisp, thin crust that is crinkly and toothsome.

-an elastic texture, porous and well-risen, that retains for days

1413

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of 98 and 196 lbs.



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ALL ABOUT BREAD AND CAKE MAKING

The famous FIVE ROSES Cook

Book also gives complete, understand-

" London), that no fewer than 19,boys trained in reformatories have d in the war since August, 1914. e of them have won the Victoria , twenty-five have earned the Disished Conduct Medal, twenty have mentioned in despatches, and three obtained commissions.

1414

THE FARMER'S ADVOCATE.

(Centinued from page 1406.)

'It's good for us," I said. "Helps us to pluck and self-control." But nobody agreed with me, and it was Miss Van Buren's opinion that none save Dutchmen would stand it.

The Senate Room, which Niebuhr wrote of, found favor in her eyes; but after that there was nothing more to do in the University, and it was only six o'clock. There were two hours before the surprise dinner; so, without giving my secret away, I said that, if we put off dining until eight, we could see the Laseckenhalle, and go up to the Burg at sunset.

The Lasckenhails and the Burg were mere names to them, as few scraps are thrown to either place by the guidebooks; but so delighted were they with the carvings on the house of the Cloth Spinner's Guild and the marbles in the courtyard that I could hardly get them inside. Once within, Starr made Miss Van Buren laugh at the things she ought to have respected and linger before the things I hadn't intended to point out.

But I was not shocked at her flippant delight in a quaint representation of tortures in hell, nor was I stirred by her scorn of the stiff siege-pictures, with van der Werf offering his arm as food for the starving people, rather than surrender to the Spaniards. In epite of her distaste for the painting, however, she would not hear me decry van der Werf in favor of an obscure engineer, lately discovered as the true hero of the Van der Werf should not be siege. snatched from her by a man she chose to detest, so she argued and abused my treachery during the whole time spent She among the relics of the siege. glared at the saucepan retrieved from the Spanish camp as if she would have thrown it at my head. She thought me capable of denying authenticity to the blocks of taret-gnawed wood torn from the dykes when a worm made Holland tremble as Philip of Spain could never do: nor whould she forgive me van der Werf, though I did my best with the tale of that time of fear when men, women, and children worked their fingers to the bone in restoring what the worm had destroyed, and keeping the sea from their doors.

I never yielded her a point, all the way up to the Bug, for at least I was cheating Starr of her. But in the fortress, on the ancient mound heaped up by Hengist, I and my opinions were forgotten. She wanted to be let alone, and pretended she was a woman of Leiden, looking out across the red roofs of the city, through the pitiles red of the sunset, for the fleet of rescu-



The real joy of having good bread is realized by those who use

PURITY

FOUNDED 1866

From the walls of the fortress we saw the sun go down; and then, with Starr in the ascendant again, we strolled through quiet streets, crossing bridges over canals spread with soft green carpets of moss. But we were not going to the hotel; and without a word about dinner, I asked if they would care to see a student's "diggins." I had only to add as a bribe that Oliver Goldsmith had visited there and carved his initials in a heart on the wainscotting, to make them eager to climb the steep stairs which led to my Surprise.

It began by my opening the door at the top with a key—instead of knocking. This set them to wondering; but 1 laughed, evading questions, and lured them into an oak-waited room, dim with twilight.

According to instructions, no lamp of candle had been lighted, but a glance showed me a large screen wrapped round something in a corner, and 1 knew that I hadn't trusted good old Mervrow Hoogeboom in vain.

Now I struck a match from my own match-box, and as the flame flared up, success number one was scored. It was the old-fashioned Dutch lamp-lighter of brass, to which I touched the match, that called out the first note of admiration from the strangers; and as I woke up candle after candle, in its quaint brass stick, the first notes rose to a chorus. What a lovely room ! What walls, what dear old blue-and-white china beasts, what a wonderf 1 fireplace, with handles to h. ld on by as you sood and warmed yourself ! What chairs, what chests of drawers, what pewter tankards If this were a typical room of a Leiden undergraduate, the Leiden undergraduates were lucky men.

I had to explain that it was hardly fair to call it typical; that only a man with money and a love for picking up old things would have quarters like these; still, the lodgings were typical of Leiden.

When the ladies had exhausted their adjectives, they grew curious concerning their host. I told them that the man was absent, because this happened to be the night of his Promotie dinner, but that I was free to do the honors.

"Well, I'm sick with envy of the fellow," said Starr, "and I for one daren't trust myself any longer, especially on an empty stomach, among his pewters and blue beasts and brasses. We'd better go away and have dinner."

SEPTEN "It's fo "How when he's seen him Starr. "You "These al my cousin use them. dinner, al me if you These w I looked there cou to her cl what she if left to Miss Riv within th said, with that all i "Why, None of ing our] So Nell sweet an when she by blunde down to could pro that was ten, but not the] have sta nothing . with whi cupies its niversary day it w odd years joyously deserted carrots a hotch-pote does Leid Great Rel And my enjoying they had we had gr toasted b had to e 8rd of O still distr was with Dutch b Leiden, w I mana the table, posed go counseling "If you you som way home by every Then I was his g ing invite told how Paranym according smart ca

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Nevertheless, she did deign to ask how, if the way had been opened for the sea to flood the land, the people coaxed it to go back again. And she looked at me as she had looked at Starr, while I told how the thing had been done: how the water that floated William's fleet for the relief of the town was but two feet in depth; how only a gale from the south at the right time sent the waters flowing from the broken dykes above Schiedam north as far as Leiden; and how no sconer was the city saved than the wind changed, calling back the waters.



When writing advertisers, will you kindly mention "The Farmer's Advocate

claimed at the sight, an inner door opened and two waiters from the Levedag, who had been biding their time for my signal, appeared in answer to the bell.

"It's black magic," said Aunt Fay. "I believe these men are genti, and vou've got the lamp in your pocket. How I wish I hadn't left Tibe at the hotel. He would have loved, this, poor darling."

"Dinner is served sir," announced one of the genii; and laughing, I offered the Chaperon my arm.

"Rut it can't be for us," objected Miss



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needn't go away,'' said I, jerkold-fashioned bell-rope, and drawscreen aside. Behind it, was had hoped would be there-a id for five, with plenty of nice nd silver, and banked with pink nite roses. As everybody ex-

SEPTEMBER 2, 1915

"It's for no one else," said I. "How can we eat the man's things, when he's never se. n us, and we've n. ver

seen him ?" Miss Van Buren appeal d to Starr. But it was I who answered. "You see him now," I confessed. "These are my rooms. I lend them to my cousin, but I've kept the right to

use them. As for the dinner, it s my dinner, and it will be a humiliation to me if you refuse to eat it." These words were meant for her, and I looked straight at her as I spoke, so there could be no mistake. Red sprang

to her checks. She bit her lip, and what she would have answered or done if left to herself I shall never know, for Miss Rivers slipped one arm coaxingly within the arm of her stepsister, and said, with a laugh, to make it seem that all three were jesting-

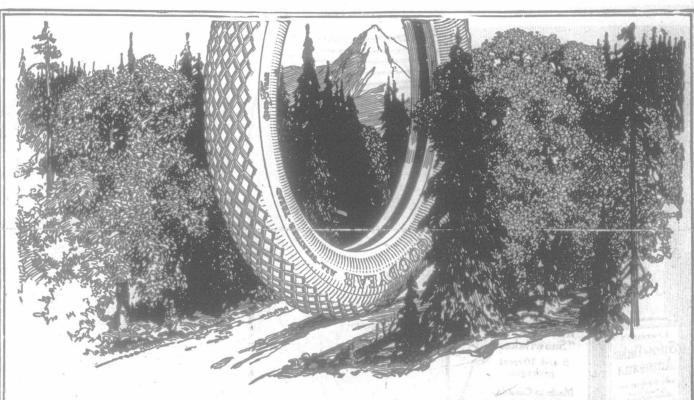
"Why, of course she won't refuse None of us would forgive her for spoiling our pleasure. Come along, Nell." So Nell did "come along," like the sweet and sensible girl she really is, when she has not been driven to d fiance by blundering young men; and we sat down to eat the best dinner that Leiden could provide at short notice. Nothing that was truly Dutch had been forgotten, but the most brilliant success was not the plat on which the chef would have staked his reputation. It was nothing more nor less than the dish with which all Leiden invariably occupies itself on the 3rd of October, anniversary of blessed memory. On that day it was, three hundred and thirty odd years ago, that a little boy ran joyously home from a flying visit to the deserted Spanish camp, with a pot of carrots and potatoes mixed together in hotch-potch therefore with hotch-potch does Leiden to this hour celebrate the Great Relief, eating with thanksgiving. And my guests ate with compliments, enjoying the idea if not the food, as if they had been Leideners. Last of all. we had grilled herrings with mustard, on toasted bread, a quaint conceit which I had to explain by telling how, on the 8rd of October, bread and herrings are still distributed to the poor, because it was with herrings and bread that the Dutch boats. coming to the relief of Leiden, were loaded.

I managed to keep the party long at the table, and when the Chaperon proposed going, I looked at my watch, counseling patience for half an hour.

"If you'll wait," I said, "Ill show you something rather special, on the way home-something that can't be seen by every one."

Then I told about my cousin; how this was his great day, and how, without being invited, we could share the fun.

THE FARMER'S ADVOCATE



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Not smooth city boulevards, but rough country roads settle all doubts of which tire is best.

That's why Goodyear Tires have won with the farmers.

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Four years ago we began in a modest way to build these tires at Bowmanville, Ont. Car owners-many of them farmers-gave Good-

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> we did not make so many. As our output multiplied, reducing factory cost per tire, we pas-ed on the sav-ing to Goodyear users. We gave a third reduction in spite of the war tax on all our raw material.

1415

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at the sight, an inner door and two waiters from the Leveo had been biding their time for al, appeared in answer to the

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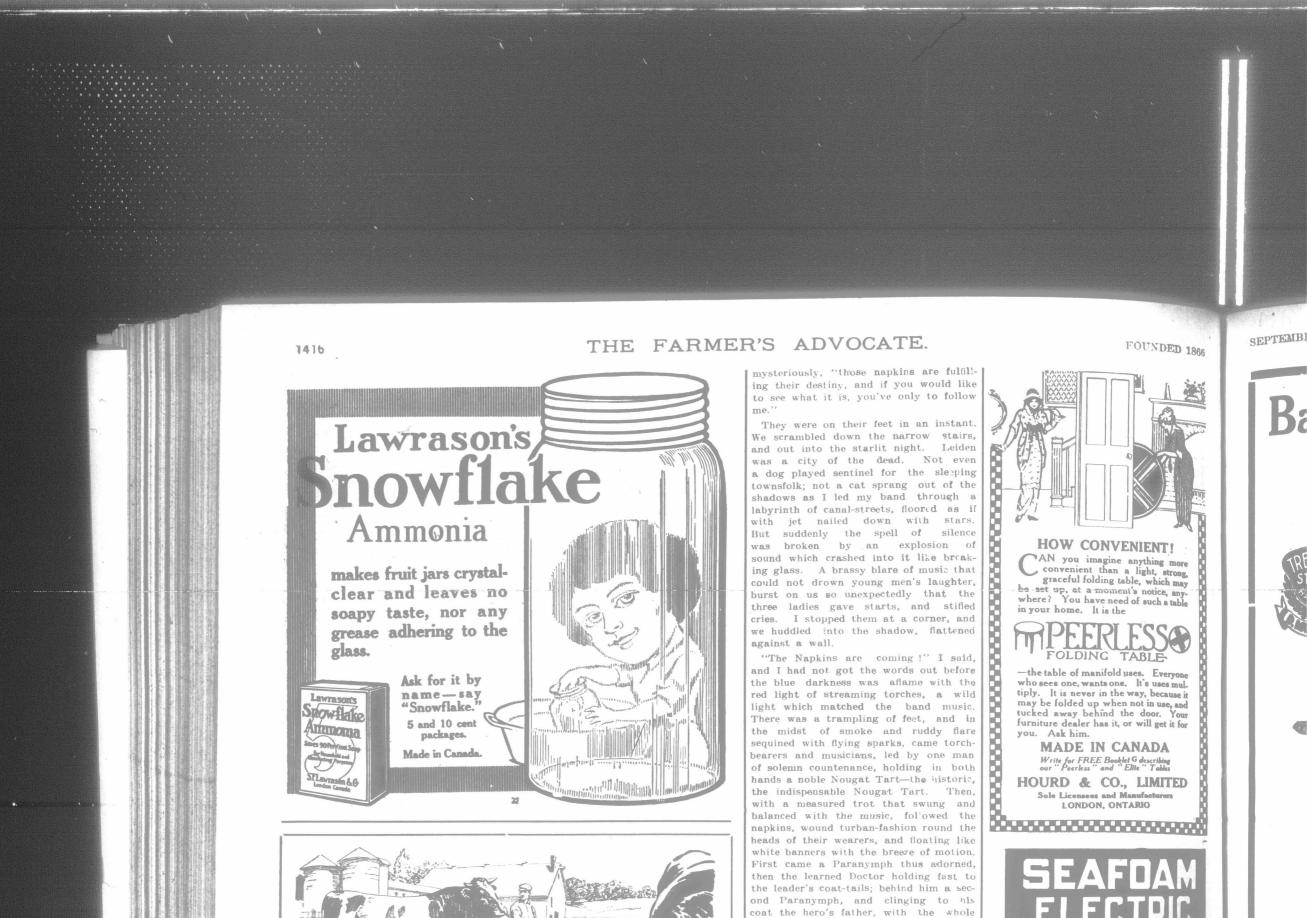


nd bags eight.

u get more than the brilliant sparkleor 100 pounds of this rse granulation in the 103

told how, early this morning, Jan's Paranymphs had donned evening dress, according to old custom, and driven in smart carriages (the horses' heads nodding with plumes) to the railway station to meet their principal's father, mother, sisters, and pretty cousins; how the party had then come to these rooms, where Jan had received them, half shamefaced in his "swallow-tail"; how, not long before we arrived at the University, Jan had gone through his torture in the "sweating-room," and before the examiners with his relatives present; how the ladies, after soing the town, had been ungallantly packed off home, before the best fun began. How Jan had returned to cast away his evening things at the time when mosu people think of putting them on, and rush to the Students' Club in morning dress. How his Paranymphs and fri nds had met him, and at a big round table -soon to be covered with glasses- he Professors' servant (called "Ped 1" of the University) had handed the new Doctor his official appointment, in return for a fee of ten gulden. How the dinner had begun in speech-making and music, with an adjournment after the first part, to the garden for coffee. liqueurs, and cigars how, when the ta la had been cleared and rearranged, everybody had marched back to risk their lives by eating lobster and quantities of indigestible things. Now Jan would then have had to make his "palaver," thanking his friends for their speeches in his honor; and how, while he was speaking, the waiters would be placing a large napkin at the place of each man-a more mapkin, but destaned for an outlandisb purpose. "By the time," I went on







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laughed, "except because they always have, and I suppose always wil, while there's a university at Leiden. That's all we'll see. but it isn't all there is to see. By-and-by the procession will go prancing back to the Club, where the next thing will be to get over the big

procession of turbaned friends trailing

They swept by us as a comet sweeps down the sky, and concerned themselves with our group against the wall no more than a comet does with such numble stars, dusting the outskirts of the Milky Way, as shrink from his fiery

"A vision of goblins," said the Mariner, when he had got his breath.

"What fun! But why do they do it?"

Why? I'm sure I don't know," I

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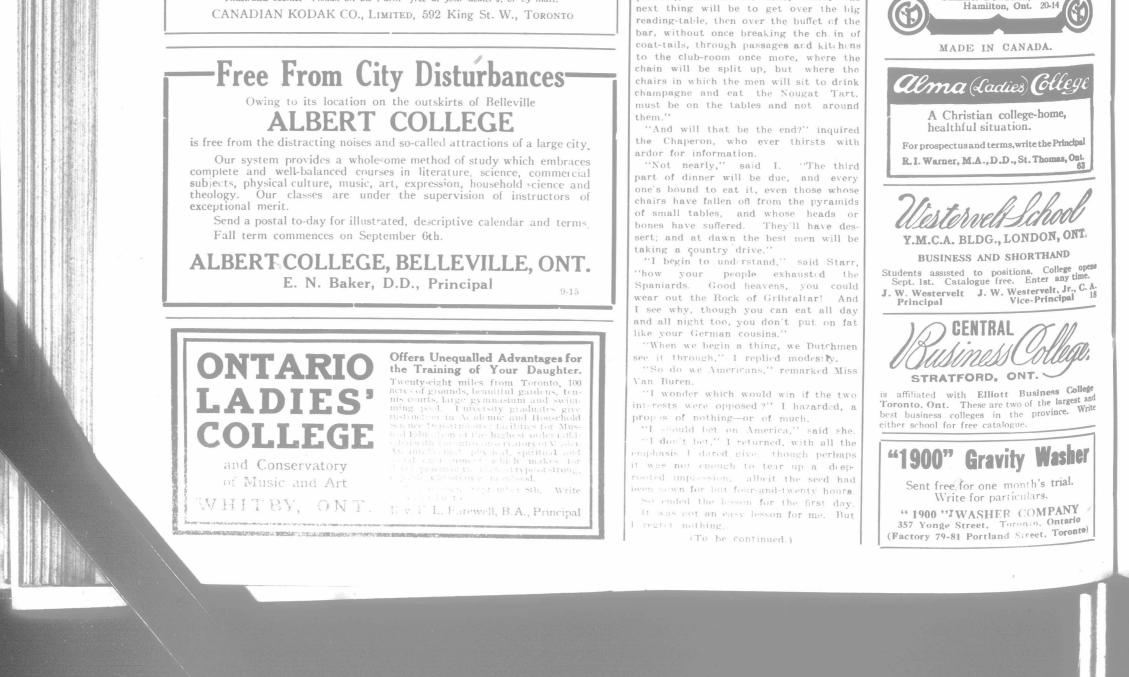
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path

asked Miss Rivers.



SEPTEMBER 2, 1915



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A most important point to be considered in a range is its baking capabilities. We have satisfied ourselves beyond all doubt, and hundreds of users all over Canada testify with us that the "OTHELLO" is a marvel for baking. Just think-2,020 biscuits baked with one firepot of coal. This

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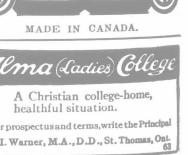
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Gossip.

FORSTER FARM DORSETS.

There is a bright future ahead for heep breeders, and this fall is the op-Portune time to found a flock. The noted Forster Farm flock, at Oakville, Ont., is this year particularly strong and uniform in breed-type and quality. This year's crop of lambs is exceptionally choice, fully sustaining the reputation of their great sire, Elgin King 14158, the sire of last year's Toronto champion ram and even. This fact makes are a number of very extra flock-headers. Also got by the same sire are a limited number of shearlin, rams. Other shear-19th, a son of the Toronto champion, Romulous (imp.). For foundation pur-Poses More are sist for sale a large

number of shearling and two-shear ewes, as well as this year's ewe lambs. Place your orders early, for the early orders get the early selection.

The Strong Points of Live have too many breeds but, if so, we Stock Breeds

If farmers in Canada were all Canadian-born, and if such a thing were farm husbandry the number of breeds possible that they should all have simis depends, and with only one or two exlar ideas and ideals, then horses, cattle, ceptions, a strain or a breed niches in it unnonessary to say that among them sheep and swine might be represented by down. It may be said, however, in all down. It may be said, however, in all one breed in each class. So long as we truth, that we have a few breeds that have different nationalities, languages, ling rams are the get of Homestead creeds, religions and politics is it any 19th wonder that stockmen cannot agree as to any one all-superior breed of live particular conditions, or the breed itself stock? We doubt if one breed of cat-

tle, for instance, even of beef type, could supply the requirements of all farmers, and, furthermore, it is altogether probable that the adoption of a national or all-Canadian breed of any class of stock would militate against the best interests of the live-stock industry. We may have too many ideas, too many requirements and too many different conditions. Upon these latter phases of Canadian to fill a gap where another breed falls have either been fostered by unprogressive men who are not interested in making their type of animal useful under is unsuited for the Canadian farmer. In

some cases the breeds were probably introduced as a fad or to have "something different." In any case they are making little headway, and in no way do they influence the industry at large. There is a place for the different breeds with which we are familiar; to know them and their characteristics is to appreciate their existence. While their history and development brings home to all the importance of each strain, and its relations to the industry space will not permit of a detailed review here, but a few points relative to each will distinguish the different breeds and explain their presence in Canada.

HORSES.

There can be no misunderstanding as to the importance of the different breeds of light horses. Each one satisfies some demand, but there might be some doubt

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1418

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YOU WILL ADMIRE THE **"PREMIER" LEADER**

This is one of our most popular styles-in fact users say it is the best value ever seen in a Steel Range. It is made with high warming closet as illustrated, or with Persian Closet or Tea Shelf. Here it is shown with a capacious Reservoir at the back for use where there is no running water.

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Taking it all round, the "Premier" Leader is a source of pride and pleasure to every woman who has one.

The "STERLING" Washing Machine Will Last a Life-time

because there is nothing about it to play out. Except for the worden handles and wringer board, the body is made throughout of heavy, rust-proof Galvanized Iron,



while the legs are black japanned steel, well brac-



"Premier" Ranges have earned a great reputation on these four most important points : saving fuel ; baking perfectly; being easy to work with and regu-

as to the necessity of four well-established breeds of heavy horses. Why is not a draft horse a draft horse? Why do some prefer one breed to another for draft purposes when each breed is supposed to measure up to all requirements: To John Paterson, of Lanark County, Scotland, is given much credit for using a Flemish stallion on Scottish marea and producing the foundation stock for the Clydesdale breed. Undoubtedly Shire blood was also used in the beginning, but later the breed has been maintained comparatively pure, for the Scottish farmer preferred perfection in the feet and legs to a heavy, compact body, and to us has come the modern Clyder dale with trappy action, cl an bone and more quality than was found in the original stock. In Canada (lydesdales outnumber other breeds of heavy horses, but largely on account of a sentiment that will live long where the blood of Old Scotia flows in the veins of the people. An unbiased writer says regarding Percherons, "The legs and feet are quite distinctive of the breed. No more shapely and well-developed feet are found on any draft horse than on the Percheron." The observations upon which the statement is based were probably made in France and the United States, but western Canada too is producing a better representative of the great French breed than are we in the East. Altogether the Percheron is a big, drafty animal, strongly coupled, with no feather on the legs, a feature that recommends the breed to many. The Clydesdale leads in Canada, the Percheron in the Unit d States; why, only advocates of either breed can satisfactorily explain. Many prefer the Shire because of the heavy frame and body and ability to move extremely heavy loads. The Belgian is reputed to possess a maximum of weight within a given space, and though somewhat slow in action its great weight and strength make for it many friends. Canadians have staked a good deal on quality; the breed that can show that attribute to the best advantage has a promising future indeed. BEEF CATTLE.

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thorough, so farcan possibly have. seeing and so correct in judgement were the Colling Bros., Bates, the Booths, and Amos. Cruickshank in their breeding methods and aims that we have in the breed that tendency to flesh that feeders admire, and the name of Bates is still coupled with the milking propensities of the Shorthorn which elevate them to an unchallenged position among other beef breeds in this regard. The cows make excellent mothers, and if a cross is desired for early maturing qualities or grazing purposes the Shorthorn dam is still in high repute. Through size, quality of flesh, and

superiority as a grazer the Hereford is fighting for "a place in the sun." John Hewar, one of the early English breeders layed particular emphasis on scale, quality and uniformity of color. In these traits the breed ranks high, but Here fords are especially desired on the ranch or where grazing is an important consideration. Feeders also admire the white-faced steer for the stall or feeding runs, even though it show Shorthorn development. The Hereford and Shorthorn blend well for this purpose.

Aberdeen-Angus cattle are fast growing in public favor. Since the baby-beef industry has passed through the period which might be termed the in cubation and has become an established practice, one is able to see an Aberdeen-Angus bull as head of a herd of good grade or pure-bred Shorthorn cows on many farms. The Angus in the pure is also used for this purpose because of early maturing qualities, superiority of flesh and reputation as good leeders which are annually bringing more breeders to the Angus standard. Their

popular standar business age. In Qu has gro ditions strains tinue to not sh çenform exhibite popular future. Many tions t also in has a divides categor with so both re the So

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the necessity of four well-estabbreeds of heavy horses. Why is draft horse a draft horse? Why me prefer one breed to another for purposes when each breed is supto measure up to all requirements: ohn Paterson, of Lanark County. and, is given much credit for using emish stallion on Scottish mares producing the foundation stock for lydesdale breed. Undoubtedly Shire was also used in the beginning. ater the breed has been maintained ratively pure, for the Scottish r preferred perfection in the feet legs to a heavy, compact body, o us has come the modern Clydes with trappy action, cl an bone and quality than was found in the al stock. In Canada ('lydesdales mber other breeds of heavy horses argely on account of a sentiment will live long where the blood of cotia flows in the veins of the An unbiased writer says reθ. ng Percherons, "The legs and feet uite distinctive of the breed. No shapely and well-developed feet are on any draft horse than on the eron." The observations upon the statement is based were probmade in France and the United s, but western Canada too is prog a better representative of the French breed than are we in the Altogether the Percheron is a drafty animal, strongly coupled, no feather on the legs, a feature recommends the breed to many. Clydesdale leads in Canada, the eron in the Unit d States; why, advocates of either breed can actorily explain. Many prefer the because of the heavy frame and and ability to move extremely loads. The Belgian is reputed to ss a maximum of weight within a space, and though somewhat slow tion its great weight and strength for it many friends. Canadians staked a good deal on quality; the that can show that attribute to best advantage has a promising indeed.

BEEF CATTLE.

tle are kept for milk or beef while breeds are reputed to be service for both. Beef and dairy breeds umerous, and here again it might strange that so many different are required to supply practically ame demand. However, there are peculiarities of type, some characic, some predominating feature in that recommends it to the stock-The great number of Shorthorn. northorn grades throughout Cans the best recommendation a breed ossibly have. So thorough, so far-, and so correct in judgement were Colling Bros., Bates, the Booths, amos. Cruickshank in their breeding ods and aims that we have in the that tendency to flesh that feeddmire, and the name of Bates is coupled with the milking propensiof the Shorthorn which elevate to an unchallenged position among beef breeds in this regard. The make excellent mothers, and if a is desired for early maturing qualior grazing purposes the Shorthorn is still in high repute. ough size, quality of flesh, and iority as a grazer the Hereford is ng for "a place in the sun." John r, one of the early English breeders particular emphasis on scale, qualnd uniformity of color. In these the breed ranks high, but Hereare especially desired on the ranch here grazing is an important conation. Feeders also admire the faced steer for the stall or feeding even though it show Shorthorn opment. The Hereford and Shortblend well for this purpose. rdeen-Angus cattle are fast growing blic favor. Since the baby-beef iny has passed through the period might be termed the in-ion and has become an established ice, one is able to see an Aberdeens bull as head of a herd of good or pure-bred Shorthorn cows on farms. The Angus in the pure is used for this purpose because of maturing qualities, superiority of and reputation as good feeders are annually bringing more breedthe Angus standard. Their

SEPTEMBER 2, 1915

enviable records in killing tests, the numerous championships won at the Chicago Fat Stock Exposition, and their performances in the show-ring elsewhere have placed them in a position that is hard for other breeds to attain.

In their native country the Galloway is looked upon with considerable favor. They are hardy and good beef makers. to 1858 these cattle were introduced into Canada, and other representatives of the breed came over in 1861. Although they have been maintained and bred in this country for over half a century Galloways often appear at our largest exhibitions, unfitted and represented by only one herd. We are not prepared to ay that they are not suited to Canidian agriculture, hut it does not sprak well for the breed to see them making uch little progress. They have been here longer than some of the other preeds, but in all that time they have not developed enough or become well enough known to be considered rivals of the Angus, Shorthorn or Hereford.

DAIRY CATTLE.

of the dairy breeds there are four recognized in the Dominion to be worthy of a place, the Guernsey is bred more stensively in Eastern Canada than in Intario or in the West, but they have not gained the importance attributed to either the Holstein, Ayrshire or Jersey. The first mentioned, namely, the Holstein-Friesian, originated on the planes Holland. The country is generally fertile, the climate mild, and they were pred for size and great production. With us they are still the great producers, and although their records of performance are almost beyond belief the maximum is not yet reached, for their ability to produce appears unlimited. For the dairyman with a fertile farm who is prepared to feed liberally and wisely they are especially suited. The calves are large and if not desired for breeding purposes make estimable veal. Ayrshires, too, rank high in ability to produce, yet they were developed under more severe conditions. Grazing on the aills of Scotland, they became accustomd to a more rigorous climate and less liberal rations. They will thrive where the Holstein does not do so well and give good returns and satisfactory profits. In the early days considerable tress was laid upon the conformation of the udder, and the efforts of former breeders in this regard is still evidenced in the Ayrshire breed, for no other dairy cattle carry an udder so correctly placed with quarters so near perfectly balanced. This feature of the breed is still important, while the breeders are striving for more scale, larger teats, and greater production.

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eres the load For DUCKS It's a fast, hard-hitting load that gets what it goes after. And it's a dependable load always. Dominion Shot Shells are primed with the new "3 B" primer, the largest and most sensitive ; the powder used is the best that can be obtained; the shot is double chilled; loading is accurate and uniform; inspection and testing are thorough. Every element that enters into the making of a perfect shell is to be found in - 99 he "Canuck the best load for every kind of shooting that; requires a speedy shell. Made by the makers of the old reliables-Regal, Sovereign and Crown; nearly twice as many of which are shot in Canada as all other makes combined. Your dealer can supply you. Send 10 cents for 16 game pictures. **DOMINION CARTRIDGE CO., Limited** 858 Transportation Bldg., Montreal Made in Canada

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of Jersoy in the Channel isles, a breed has been developed and kept pure for probably a century and a half. These cattle bear the name of the Island itself, and over 40,000 head are kept annually on an area of a little over 28,000 acres. Although not so rugged as the Ayrshire or such great producers of milk as the Holstein, they are reputed to give good financial returns with less labor. In quality of milk they are perhaps supreme. In ability to reproduce they rank among the best, and a breeder has little trouble with them at the time of parturition. For the man with a small farm or for the man who only wishes to keep one cow they are a very popular breed, yet as a recognized and standard breed of cattle for the dairy business they have a widespread patronage.

In Quebec the French - Canadian cow has grown into popularity. Under conditions unsuited for many of the other strains of dairy cattle they still continue to do well, and although they do not show the uniformity of type and conformation possessed by other breeds exhibited at our larger fairs they are popular with the habitant, and have a future.

SHEEP.

Many of the differences and qualifications to be found in beef cattle appear also in the sheepfold. However, a sheep has a dual function to perform which divides that class of live stock into two categories, viz., mutton and wool breeds with some that conform fairly well to both requirements. As a mutton type the Southdown now ranks pre-eminently high. Although individuals of the threads are not large in size the mutton



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holds premier place in the discriminating markets, and at the present time when small cuts are in favor Southdown mutton meets with ready sale. As a feeder the Southdown is considered superior. They adapt themselves tolerably well to conditions, in breeding qualities they are about average, but as producers of wool the breed occupies a subordinate position. Another generalpurpose sheep is the Shropshire, which is heavier than the Southdown, and almost equals it in quality of mutton. Cross-bred or grade Shropshires are most common on the market, which proves the adaptability of the breed to different localities, and substantiates the claim that they do well when crossed upon ordinary farm flocks. Like the Southdown the "Shrop" matures at an early age, and this combined with easyfattening qualities and a good wool clip explains the popularity of the breed. The Oxford Down satisfies the farmer as to the weight of the annual wool clip, which tends to coarseness and length of staple, and in the amount of mutton. The size of the individual Oxford recommends it to many for they are among the largest; they also rank deservedly high as feeders. They are prolific and have met with favor for crossing on common sheep. Another medium-wool breed almost as large as the Oxford is the Hampshire Down. It occupies a superior position on account of its ability to produce early lambs, and although not reputed to be exceptionally prolific the breed ranks high in this respect. In England they adapt themselves to grazing in small areas; they pasture closely with the whole flock often formed in a semi-circle. The Hampshire has been mentioned relative to the production of early lambs, but in this regard the Dorset Horn occupies an unchallenged position. Not only will they breed twice a year, but they often give birth to twins and sometimes triplets. The lambs grow rapidly and appear especially suited for the hot-house lamb trade. As a grazer the Cheviot demands the most attention of the English breeds, and the Suffolk Down is noted for fecundity. These two breeds are not largely patronized in Canada, but they have established themselves in the favor of many farmers. Of the longwooled breeds the Leicester, the Cotswold and the Lincoln are supreme. They meet the desire of the farmer for size, and in this respect perhaps the Lincoln leads. These three breeds require abundant pasturage, but in return they yield heavy fleeces of long wool and good

carcasses. As yet the Merino has not been mentioned, but for the finest guality of wool and for grazing propensities superior to those of any other breed we must go to the Merino. Their great

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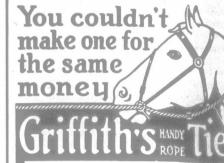
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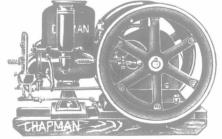
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stronghold is on the ranch where they herd in large numbers and endure many hardships.

SWINE.

The hogs seen in Canada and the United States differ in one essential. To the South they breed and feed the lard or fat hog, while our market demands bacon and toward that end breeds are chosen. We do have the Chester White, however, as a representative of the lard breeds, but the Yorkshire, Berkshire and Tamworth hold sway in Canada with a herd of Hampshires, Duroc-Jerseys or Poland-Chinas, to be seen on occasional farms. In England, Ireland, Denmark and Canada, where bacon is produced, the Yorkshire or Yorkshire grade is perhaps the most common. It is considered a prolific breed, and will furnish a 200-pound hog at six months on fair feeding. The Tamworth was introduced into the Canadian industry on account of the quality of the bacon which it produces. In it there is no excessive fat; the sides are long and the admixture of the fat and lean meat is very acceptable. The fecundity of the Tamworth is also a striking feature and so is their ability to rustle. The Berkshire, in the eyes of Canadian breeders, is a compromise between the extreme lard and bacon types. They mature early, are good feeders, and when young the pork is found very acceptable on the market. Some stockmen have been successful in topping Yorkshire sows with Berkshire boars. The prolificacy of the dam is thus made use of while the pigs combine some of the good features of each breed.

\$35 per acre \$5,000 cash, balance arranged on easy terms.

We have also a good list of small improved farms, from 160 to 320 acres, ranging in price from \$20 to \$40 an acre, according to location and improvements. Also, we have some selected unimproved land at from \$14 per acre up, in good district. List and prices will be sent on application.

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The ray cattle in present for some ent a mo dation of an existi class her bus, Ont able opp well - bree With abo breeding unsurpass in visitir some you and two herd - her younger thick, 1 70558, 8 and out the best herd of The pres balanced Lord 871 Ben Lom (imp.). posed of Cruicksh Duchess Pareils, Miss Ra Emmas, great mi Howden shire hog of both

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ACRES, half-mile from town in DACRES, half-mile from town in Southern Manitoba — 600 acres r cultivation, 40 acres pasture. Large roomed house, 26 x 28, and second e for help, 18 x 26, four rooms. Fine , 52 x 70, built in 1913, 'two granaries, ing shed and other buildings. Nevery g supply of excellent water. Build-well surrounded by trees, good gar-Farm all fenced. This splendid and home can be bought for SEPTEMBER 2, 1915

U.S. Dressed Hogs May Come in.

The order under "The Animal Contagious Diseases Act," of date the 9th day of May, 1915, as amended by orders of date the 15th, of May, 12th of June, 22nd of July, and 5th of August, 1915, is hereby further amended as follows : The importation of dressed hogs from the United States of America 'is permitted under the following conditions : Hogs must have been killed and dressed in an establishment under Federal inspection.

Carcasses must have been singed, and feet, head and viscera removed, including kidneys, tenderloins and leaf lard.

Car lots only will be admitted. Cars are to be sealed by a Bureau of animal Industry Inspector, consigned to a Canadian establishment under inspection, and received there with unbroken Seals are to be broken by the seal. inspector of the Health of Animals Branch stationed at the establishment. Importers of dressed hogs under this amendment will be required to export every portion of the hogs so imported, with the exception of such small trimmings as are rendered, or lean trimmings, which must be cooked before being offered for sale. After unloading, the cars are to he

cleansed and disinfected to the satisfaction of the Inspector at the expense of the importer.

GEO. F. O'HALLORAN, Deputy Minister of Agriculture.

Gossip.

100-LB.-BRED HOLSTEINS BY AUC-TION.

G. A. Kingston, of Campbellford, Ont. is opening the fall sale season of 1915 on Tuesday, Sept. 21, by selling on that date his entire herd of exceedingly richly-bred Holsteins. Mr. Kingston has sold his farm and the cattle must go to the highest bidder. In the issue of Sept. 16 a short resume will be given of the royal breeding of these cattle, but for full particulars parties interested should write Mr. Kingston at once for a catalogue. Suffice it here to say that they are full of the blood of such great cows as May, Echo Keyes, May Echo Sylvia, and Lulu Keyes, which has lately made the phenomenal test of 36 lbs. in seven days. The sale will be held at his farm, five miles from Stirling Station, on the Belleville - Peterboro branch of the G. T. R. Conveyances will meet all morning trains at West Huntingdon and Stirling, also at Ivanhoe, C. P. R., on day of sale.

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Hyacinths, all colors, per doz. 40c., 55c., 65c., and \$1.00. If required by mail add 20c. per doz.

Single and Double Tulips, all colors, per doz. 15c., 20c., 25c., and 40c. If required by mail add 15c. per doz.

Gossip. CHRISTIE'S SHORTHORNS AND SHROPSHIRES.

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The splendid milking herd of Shorthorn cattle owned by Peter Christie & Son, of Manchester, Ont., are still going ahead in the matter of milk production. Miss Dundrennan gave 1,500 Hbs. a

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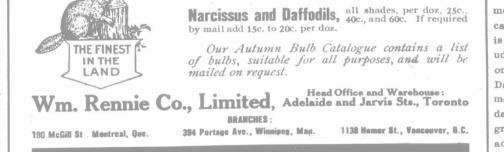
\$35 per acre \$5,000 cash, balance arranged on easy terms.

have also a good list of small improved s, from 160 to 320 acres, ranging in from \$20 to \$40 an acre, according to ion and improvements. Also, we some selected unimproved land at \$14 per acre up, in good district. st and prices will be sent on application.

WART & WALKER, LIMITED 202 Sterling Bank Building WINNIPEG, MAN.



A. J. HOWDEN'S SHORTHORNS. The rapid rise in value of Shorthorn cattle in the last few months, and the present outlook for still higher values for some years at least, make the present a most opportune time for the foundation of a herd or the strengthening of an existing one. The large and highclass herd of A. J. Howden, of Columbus, Ont., offers an exceptionally favorable opportunity to buyers looking for well-bred and high-class Shorthorns. With about 50 head to select from, with breeding unexcelled and fleshing qualities unsurpassed, buyers can make no mistake in visiting this herd whether wanting some young cows safe in calf, some oneand two-year - old heifers, or a young herd - header. The majority of the younger ones are the get of the big, thick, Lavender bull, Lord Lavender 70558, a son of Lancaster Champion, and out of Lavender Beauty 4th, one of the best milking cows in the famous herd of the Alberta Government Farms. The present stock bull is the beautifullybalanced and good breeding roan Nonpareil Lord 87184, a son of Ben Cecil, by Imp. Ben Lomond, dam Dalmeny Nonpareil 6th (imp.). On blood lines the herd is composed of Cruickshank Crimson Flowers, Cruickshank Butterflys, Cruickshank Duchess of Glosters, Cruickshank Non-Pareils, Cruickshank Lady Fannys, and Miss Ramsdens, Kinellar Clarets, Marr Emmas, Bridesmaids, Minas, and the great milking tr be, Maid of Athas. Mr. Howden is also pretty strong in Yorkshire hogs, and has for sale young stock of both sexes of choicest quality.



FOR SALE--HACKNEY PONY STALLION

Glendermott Wildfire Imp. [709] (12059), color brown, 14 hands, full brother to Mel Valley Masterpiece. He will be shown at Ottawa and Sherbrooke Exhibitions with some of his get; also a few Hackney pony mares, imp. and Can. bred, from 12-2 to 13-1 hands; show stock. Two Shetland pony colt foals, from Champion Silver Star, and a few extra good, big Clyde foals, from well-bred imp. mares and sired by Lord Aberdeen Imp. and Netherlea Imp.



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month for the first two months after calving, then got her udder injured. She is a big cow, with a big, well-balanced udder, and, although she has now lost one quarter, she gives a big flow. Daughters of hers in the herd look like making as good individuals as their dam, which we believe is one of the greatest milking Shorthorn cows in Canada. Another, a half-sister to the old cow, is milking 50 lbs. a day. These cows trace to Beauty (imp.). Another, tracing to Wild Daisy (imp.), is giving 40 lbs. a day, and Wedding Gift 41st, in six months in R. O. P. test, has given 6.000 lbs. testing 4 per cent. These represent the producing ability of the herd. For sale are one- and two-yearold heifers, daughters of these cows, and several young bulls, some of breeding age. The stock bull is the red sevenyear - old 2,500 - Ib. Ben Scott, out of Scottish Queen (imp.), and sired by Ben Lomond (imp.). He is a right good bull, heavy in fleshing, and exceptionally well balanced, a proven sire of worth, safe, and very sure. He is for sale or exchange, and is well worth looking after. The Shropshire flock is a large one, and up to date. This year's crop of lambs of both sexes are, for sale. In Clydesdales, Mr. Christie is offering for sale one two-year-old stallion sired by the noted Royal first - prize stallion, Acme (imp.), and dam by Sir Erskine (imp.). He is a well-grown colt of true draft character, and will make a stallion with size, and plenty of quality of underpinning.

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TORSES never have been so much in demand as they are to-day, but buyers are only interested in sound horses-sound

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My booklet, "How to Remove Blemishes," is free for the asking. It recommends ABSORBINE, of course, because this is the famous preparation that I have been making for about a quarter of a century, and

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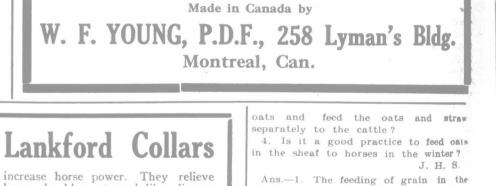
ABSORBINE is safe and pleasant to use-it is made of herbs, and does not blister or remove the hair-horse can be used while being treated. In addition to being a liniment it is a powerful antiseptic and germicide, which doubles its efficiency and uses. Applied to sores, cuts and boot chafes it prevents infection, kills the germs and promotes rapid healing.

ABSORBINE is economical, as only a few drops are required at each application. One ounce of ABSORBINE added to a quart of water or witch hazel makes a good antiseptic, general purpose liniment.

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BALTIN

A purchased a cow from B. B purchased the cow from C. B only owned the cow two or three days. About three months after A bought the cow he was compelled to kill it, because of tuberculosis, about a year or eighteen months ago. About fifteen months ago C was compelled to kill a cow out of his herd because of the same trouble, but never had the rest tested.

Questions and Answers.

Miscellaneous.

Diseased Cow.

1. Can A collect value, or part value, for cow?

2. Who would be responsible for cow ? 3. Who would A come on, B or C ? C B M. Ontario.

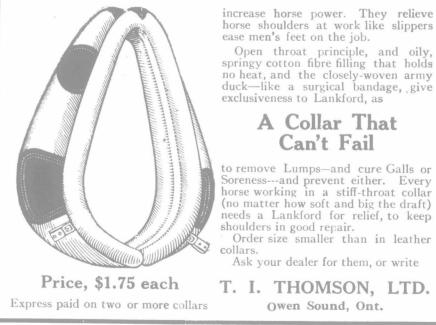
Ans.-1, 2 and 3. A certainly cannot collect from C. Nor, so far as we can judge from the statement of facts furnished us, is A in a position to collect from B. He may be able to obtain compensation from the Dominion Government, under The Animals Contagious Diseases Act (Revised Statutes of Canada, 1906, Chap. 75), provided he has complied with the provisions of that Act and amendments thereto. We would refer him more particularly to sections 3 4% 35-38 of the Act, and Sec. 1 of Chap. 6 of the Amending Act, 3-4,

Feeding Grain in the Sheaf.

1 Where a person has no silo is it wise to fred outs in the sheaf to cattle, and how many should a cow or steer ret at a meal?

2. Are outs in the short as good a corm in the staff whether rays the method

Back it :



Clydesdales That Are Clydesdales

Three, four and five years of age, prizewinners and champions at Ottawa and Gaelph, up to 2.100 lbs. in weight, with the highest quality and choicest breeding. When buying a stallion get the best, we have them; also several big, well bred, tried and proven sires from 7 to 12 years of age, cheap.

SMITH & RICHARDSON, COLUMBUS, ONTARIO



sheaf is not considered a good practice. It is almost impossible to keep mice and rats from destroying a large quantity of the grain while in the mow, and furthermore it is also argued that the stock will not digest the grain so well. In any case the very fact that it is very rarely fed in this way is conclusive proof that the practice is unwise. However, a few men have fed oats in the sheaf with what they considered tolerable success. The oats were cut on the green side, so the straw was more palatable than is generally the case. As to the number of sheaves fed to a cow or steer each day, that would depend altogether on the size of the sheaves and upon the quantity of grain in each sheaf. One correspondent who had followed this practice fed one sheaf in the morning and one the last thing at night. in each case after they had a fair allowance of good clover hay and sometimes corn.

2. There is no way in which we can judge the comparative values of oats and corn fed in this way. Weight for weight, the oats in the sheaf would probably be more concentrated feed than would corn in the sheaf. However, without knowing how the oats were headed or whether the ears on the corp amounted to anything or not it would be impossible to make a statement in connection with this phase of the question.

3 and 4. It is the general practice to thresh and feed the oats and straw separately. Taking everything into consideration we would advise that the ordinary method be followed.

in Condition e Top Prices

al liniment you can use.

se-it is made of herbs, and does e used while being treated. In l antiseptic and germicide, which to sores, cuts and boot chafes it otes rapid healing.

ew drops are required at each apded to a quart of water or witch se liniment.

RBINE

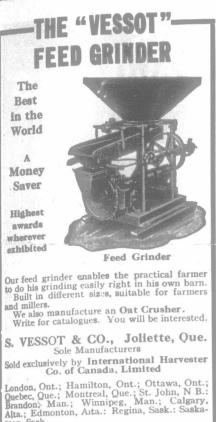
pavins, Thoroughpins, Puffs, ds, Infiltrated Parts, Thickenged Veins, Painful Swellings eness; to repair strained, or rupgthen any part that needs it.

orbine or I will send you a bottle a case requiring special directions

a by 58 Lyman's Bldg. lan.

and feed the oats and straw tely to the cattle? s it a good practice to feed oats sheaf to horses in the winter? J. H. S.

SEPTEMBER 2, 1915



toon, Sask

MADE IN CANADA



Is Doing This Everywhere FRANCIS MCKENNA Vienna, Wis., April 16, 1915, writes:

Vienna, Wis., April 16, 1915, writes: I have a horse, eight years old, that had two bone spavins, one on each hock. I sent him to a veterinarian and had the worst one operated on, cutting open the bunch perpendicularly with the limb. I let him rest three months. I wound not consent to cutting again, but began to try liniment and blisters. I had about concluded to give him away when a friend in Burlington, Wis, told me about your Save-the-Horse, as he had used it with most favorable results. I did so and found it to be all that he claimed. It was the best investment I ever made, as I

It was the best investment I ever made, as I would not part with that horse now for a hundred dollars in gold.

Over 19 Years a Success No blistering or loss of hair, Horse works.

Every bottle sold with Signed Contract to return money if remedy fails on Ringbone— Thoropin—SPAVIN—or ANY Shoulder, Knee, Ankle, Hoof or Tendon Disease. Book, Sample Contract and Advice all FREE. Troy Chemical Co., 147 Van Horn St.,

Druggists and dealers everywhere sell Save-The-Horse WITH CONTRACT or w send by Parcel Post or Express Paid.

TORONTO, ONT.

THE FARMER'S ADVOCATE.

Experiments with Autumn Sown Crops.

About two hundred and eighty-five varieties of winter wheat and a large number of selections and crosses have been grown under experiment at the Agricultural College within the past twenty-six years. Nearly all the varieties have been carefully tested in each of five years, after which the inferior kinds have been discarded and those which have given the best results have been continued in the experiments. Within the past year forty varieties, fourteen hybrids, and a number of straight selections were grown under test. Of the named varieties fourteen have been grown in each of twenty years, and the results of these are of particular value. The average results for the twenty-year period show that the following varieties gave the highest average yields of grain per acre: Dawson's Golden Chaff, 51.4 bushels; Imperial Amber, 48.5 bushels; Early Genesee Giant, 47.1 bushels; Egyptian Amber, 46.9 bushels; Early Red Clawson, 46.6 bushels; and Rudy, 45.8 bushels. In comparison with these yields the Turkey Red gave an average of 43.7 bushels, and the old Treadwell variety 42.4 bushels per acre.

From enquiries made throughout Gntario during the past year it was evident that the Dawson's Golden Chaff is still the most extensively grown variety of winter wheat in Ontario. Seventy per cent. of the answers mentioned Dawson's Golden Chaff as the most extensively grown variety in the different counties. This variety, in the results at Guelph for twenty years, has given an average of practically three bushels per acre more than any other variety grown under similar conditions. The Dawson's Golden Chaff was originated in Ontario thirty-four years ago. It produces a very stiff straw of medium length, beardless heads with red chaff, and white grain which weighs slightly over the standard per measured bushel. There seems to be evidence that the Dawson's Golden Chaff is improving somewhat in quality for bread production. Farmers' Bulletin No. 616 of the United States Department of Agriculture states that the Dawson's Golden Chaff is probably the leading variety of soft white winter wheat in the North, Central and the North Atlantic States. It also refers to this wheat as follows : "This variety stands up well in the field and is above The the average in winter resistance. grains are somewhat harder than those of most other white wheats. In several milling and baking tests that have been made it has given a good yield of flour, rather low in total protein content, but containing gluten of excellent quality." The Imperial Amber variety produces a



1423

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d 4. It is the general practice to and feed the oats and straw tely. Taking everything inte conion we would advise that the y method be followed.



most power-ful absorb-ent known, guaranteed, or money refunded. Mailed to any address, price \$1.00. Canadian Agents: J.A. JOHNSTON & CO., Druggists, 171 King St., East Toronto, Ont. 171 King St., East



Dr. Bell's inary Medical Wonder, 10,000 Step bottles to horsemen who will be a fair trial. Guaranteed for the Lungs, Bowels, Kidneys, states Send 10 cents for mailing. give the Wond Inflammation of Fevers, Disterney packing Dr. Belt 5., Kingston, Ontario

large amount of straw which is medium in strength, a bearded head with red chaff, and a red grain of very good quality.

In the experiments conducted at the College in 1915 the winter wheat gave an average yield of grain of 13.5 bushels per acre over the average of the past twenty years. The straw was somewhat heavier, but the grain weighed one-half pound per measured bushel less than the average.

For nine years in succession experiments were conducted in treating winter wheat in different ways to prevent the development of stinking smut, and the results have been very satisfactory. In the average for five years, untreated seed produced 4.2 per cent. of smutted heads, while seed which was immersed for twenty minutes in a solution made by adding one pint of formalin to fortytwo gallons of water, produced a crop which was practically free from smut. A material called Corvusine, claimed to have been made in England, and sold in Montreal, has been rather extensively advertised for the prevention of smut. We treated winter wheat last autumn and oats and barley this spring, but in every case the germination of the greater part of the seed treated with Corvusine was destroyed, and the crop produced was very small. The following quotation is taken from the booklet advertising Corvusine: "All chemicals used in this preparation are so treated as to prevent injury to the germinative power of the grain." This statement seems inconsistent with our results.

Owing to excessive rains this season a



EFFICIENCY

A watch word of many of Canada's most prosperous business houses-the dictionary says efficiency means productive of effects; why not use VENTIPLEX HORSE PADS thereby making your horses efficient in their drawing power.

VENTIPLEX PADS

CANADA

BALMEDIE ABERDEEN ANGUS

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Get a high class Angus bull and breed the champion steers, I have show ring quality bulls from 10 to 24 months of age, also choice one and two yr. old heifers.

84, 1908.

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Fergus, On

cure gall sores by removing their cause. Ventiplex pads are made of our patent Ventiplex fabric, it's soft, cool and comfortable on the horse and easily washed when soiled.

Your dealer will gladly supply you, and your booklet giving further information is at our office, send us your name and address and we will forward it to you.

The Burlington-Windsor Blanket Co.

DADS

T. B. BROADFOOT,

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TORONTO





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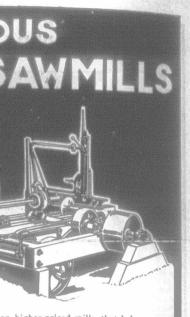
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on higher priced mills, that help you cut logs as they should be. What is more, Vaterous Portable is dead easy to set up, e to operate, and is built so strong that it keep on cutting first-class lumber year year without trouble.

profit in your trees, and in your neighbors' rth your investment in this reasonably d, high-grade mill. Quality counts every -and especially in lumber making, with s as high as they are now. , Ltd., Brantford, Canada



ice dark roan, 15 months old. Roan Lady l or direct from imported stock consisting of entines, Missies, Mysies, Butterflys, etc., is d =95959=. Both Victor Stamford and

R. R. No. 1, ERIN, ONT. STATION, C.P.R.

e are making an exhibit at Toronto d London on their return from the ould see our cattle as we are offer-UR OWN BREEDING for sale.

R. No. 2, GUELPH, ONT.

Drms Pure Scotch and Scotch-topped Breeding unsur-umber of thick, mossy heifers. en Sound, Ontario 📃

SEPTEMBER 2, 1915

Potato Diseases.

Editor "The Farmer's Advocate": From time to time the Potato Blight, called generally "Late Blight of Potato" (Phytophthera infestans) recurs doing untold destruction to potato crops. It appears in this district in 1910, 1912, and appears again this year. It is a fungous disease which affects leaves, stalks and tubers. On dry seasons it rarely appears at all, and when it does, the attack is so slight that it passes unnoticed. Damp weather is very favorable to the development of this fungus and also to infection. It is called "Late Blight" because it usually occurs late in the season-about the middle of August. If potatoes have been regularly sprayed with Bordeaux there will be little, or no, infection in any season. Spraying is the only sure method of prevention of the trouble. But one difficulty of spraying is that, on wet seasons, when the potato tops are straggling all over the ground, frequent and thorough applications of the spray mixture are necessary, and this is a difficult matter.

However, when the blight does sttack the crop seriously enough to be noticed, there is no remedy but to dig the potatoes. This should be done, no matter how green the tops may be, because in about ten days after infection is first noticed on the leaves, the tubers commence to turn black. When the tubers become infected it is too late. To save the crop, dig the potatoes and let them dry thoroughly-in the sun if possibleand then spread them out on the barn floor for three or four weeks. A little air-slaked lime should be sprinkled over the potatoes while on the floor. After this they may be placed in the cellar, but care should be taken to see that any showing signs of infection are culled out. The chief point to remember is that the disease can not infect a dry potato, and therefore, if the tuber is dug before infection, it is reasonably sale from infection.

Potatoes are not of the best quality when dug green, but it is surprising how they improve and how well they keep. If left in the ground until the usual time for digging, ninety per cent. will be rotten. By attending to the crop in time, then, would save the country thousands of dollars.

Another potato trouble which occurred here and there this year is a disease of the roots and stems caused by a fungus, This has been possibly Fusarium. noticed in New Brunswick quite commonly, and also in Ontario. Wet ground is very favorable to the disease; and plants once affected wither away and are soon dead. Infection is not nearly so general as with the late blight, and the damage, consequently, is slight in comparison. For this there is no direct remedy. Potatoes should not be planted after potatoes; and heavy land is more likely to harbor the disease than light land. Tubers from an infected field may infect the crop the following year unless the 'seed" be treated with a fungicide. In fact it is a wise precaution to treat the "seed" regularly every year. A disease quite similar to this, from the descriptions published, has been reported from two or three places in Ontario, but the accounts are so vague as to be of very little use. One author gave the very wise statement concerning it, saying it was caused by wet weather. Durham Co., Ont. J. B. DANDENO.

THE FARMER'S ADVOCATE



1425

Robt. Miller Still Pays The Freight ONTARIO VETERINARY And in addition he can furnish great, strong thick fleshed Shorthorn bulls at a price that will surprise you. Many of them bred to head good herds and improve them. Many of them of a kind to get good feeders and great milkers, and all of them low down, thick and smooth with good heads and horns, that will grow into big weights and bring more money in the market than you are asked for them now. Some high-class heifers for sale too. Write for what you want. COLLEGE Under the Control of the De-STOUFFVILLE, ONTARIO partment of Agriculture ROBERT MILLER, of Ontario Escana Farm Shorthorns For Sale—Herd header, one Red 15 months bull, Grandam Imp. he is a son of the noted sire Right Sort, imp. eleven of his get won 14 prizes Established 1862. AFFILIATED WITH THE UNI-VERSITY OF TORONTO.

thorns and Jerseys 8 = a Clara-bred son of Waverley. Several ey females. Official records is our specialty. WESTON STATION.

ch and Scotch topped—Booth. Also five (5) Ils from ten to twenty months old, of the thick kind, good colors—reds and roans, sonable.

forden & Son, Oakville, Ontario

Five Scotch bulls, 16 months old, from good milking dams. Low-set, thick, deep, well and scale. You are invited to inspect this G, ELORA, R. R. No. 1

TIM Shorthorns and Leicester Sheep. Herd established 1855: flock 1848. Chief = 60865 = heads the herd. Young stock ot of Leicester sheep of either sex; some from es Douglas, Caledonia, Ont.

Lincoln Sheep y, of strictly high class quality and breeding ung bulls, show animals a speciality. Lin-

- Weston, Ontario

SALE:-Three young bulls fit for service-rell-bred Duchess of Gloster. Two sired by on Victor (imported) =50093, =your choicefor 10 shearling ewes, 2 shearling rams, 20 ram and a few ewe lambs. Come and see these choosing.

Bulls of serviceable age all sold; have some good ones a year old in September, and am offering females of all ages. Have to four choice fillies, all from imported stock. & T. W. DOUGLAS, Strathroy, Ontario

SHORTHORNS

quality. Sired by Gainford Select celebrated Gainford Marquis). SON, R. R. No. 3, Elora, Ont.

Senator Hear used to tell with glee of a Southerner mat home from New England who said to his friend, "You know those little white round beans ?" "Yes," replied the friend, "the kind we feed to our horses?" "The very same. Well, do yes know, sir, that in Boston the enlightened citizens take those little white round heans, boil them for three or four hours mix them with molasses and I know not what other ingredients, bake them, and then-what do you suppose they do with the beans?" "They" "They eat 'em, sir," interrupted the first Southerper impressively; "bless me, sir, they eat 'em !"





Ask y 60 and i

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Satisfacti THE SE WHITE

N SALE ber 15tb, 1915 T FARM

milk records. Heifers and acking. A rare opportunity r herd to secure an animal e.)

e farm. or shine.

TALOGUE:

LONDON, ONT.

y Auction better bred alive.

RD, ONT., to whom applicas sold his farm, and at the ation, on the Belleville-G. T. R., will, on

er 21st, 1915

ins, 17 females, none over 3 years t, this is one of the best bred lots ddaughters, sisters, etc., to May , etc. They are full of the blood milk a day. For full particulars the morning trains at Stirling Sta., and West Huntingdon Sta. on the

with 6%. Send for catalogue to:

on, Prop., Campbellford, Ont.

CATTLE

bred cows, heifers and heifer calves. 66 Head Must Be Sold

SEPTEMBER 2, 1915

– THE – Western Fair London, Sept. 10 to 18

The Live Stock Prize List this year is the best ever offered. Parade of prizewinners before the Grand Stand daily.

Increased prize list in Dairy, Agriculture and Horticulture De-

partments. Buttermaking competition daily.

Excellent programme twice daily. A change of fireworks programme each night.

Machine guns, shells, etc., on exhibition.

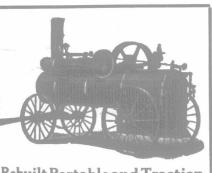
All Soldiers Admitted to the Grounds Free.

Entries close Sept. 9th Dog entries close Sept. 7th

Prize Lists and all information
from the Secretary.
Single fare over all railroads west

of Toronto. A. M. HUNT W. J. REID

Secretary President



Rebuilt Portable and Traction Engines and Threshers All sizes, for sale cheap. Complete threshing outfit, traction engine with cab, separator, wind stacker, **\$875** in good operative conditions The Robt. Bell Engine & Thresher Company, Limited SEAFORTH, ONTARIO

THE FARMER'S ADVOCATE.

British Live Stock Breeding Schemes.

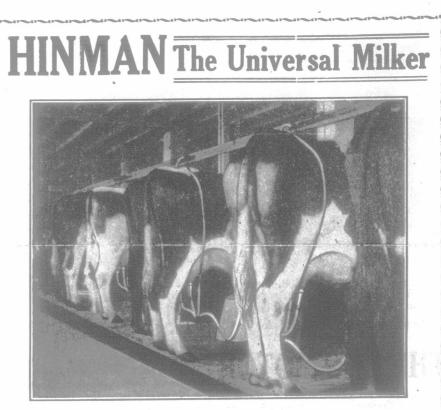
Editor "The Farmer's Advocate": The British Government is thoroughly determined that now is the time when live-stock breeding, by farmers, large and small, shall be carried on to the fullest extent. They are out with a number of schemes that are helpful in attaining this object, and, believing that their ideas may be helpful to you in Canada, I send you a summary of what they are doing. In order to impress upon farmers the advantages of co-operation in securing the services of good sires, grants in respect to stallions and boars will be made only to clubs and societies. The same procedure will also be followed wherever possible in the case of bulls, but in the districts where bull societies cannot be formed, grants will be made to individual breeders who are willing to place approved bulls at the disposal of their neighbors. Preference will be given in the assistance offered, to occupiers of holdings which either do not exceed 100 acres in extent, or, if exceeding 100 acres, are of an annual value for purposes of income tax not exceeding £100.

BULLS.

Grants for the provision of bulls will be made on the following conditions : (1) No grant exceeding £12 per annum is to be made to any individual bull owner, or exceeding £15 per annum to any society in respect of any one bull. (2) Not more than four annual grants of £12 are to be made to any individual; and not more than five annual grants of £15 to any society for each approved bull provided by it. (3) Grants are only to be made to individuals when the live-stock officer for that area is satisfied, after full inquiry, that it is not possible to form a bull club for a district in which the provision of a good bull is necessary. (4) No grant is to be made to any individual in respect of a bull previously owned by him unless the live-stock officer for the district is satisfied that in return for the grant the bull can and will be made available for an appreciably greater number of cows belonging to small farmers than it now serves.

A society may provide a bull for the use of its members-(a) By purchasing a bull and placing it in the custody of one of its members; or (b) By arranging with an owner of a bull-whether he be a member of the society or not to place a bull at the disposal of the society on terms agreed between them.

If a society arrange to purchase a bull, it will be necessary to provide by means of contributions from members or



1421

On the L. McLeod Dairy Farm, Thamesford, Ontario MADE IN CANADA

Intending Purchasers of Mechanical Milkers and Others: It will be of INTEREST for you to know that the HINMAN UNIVERSAL MILKER WAS AWARDED THE GOLD MEDAL AT THE PANAMA PACIFIC EXPOSITION over ALL OTHER makes of Milking Machines, foreign and domestic. FOR :

EFFICIENCY, DURABILITY, SIMPLICITY and ECONOMY See the HINMAN in the Model Barn at Toronto Exhibition.

Price \$50 per unit H. F. BAILEY & SON, SOLE MANUFACTURERS FOR CANADA GALT, ONTARIO, CANADA DEPT. H



ng disposed of my two stock farms. e and make your selection. Price erms to suit. Cattle will be in good ing shape, not forced or fitted for ourposes.

ILTON FARMS, Southend P.O.

legraph and 'phone Niagara Falls. 10 minutes trolley from Niagara Falls.

anddam and great granddam have) lbs., the greatest producing and r Sale some of his Sons combining King Walker, the greatest trio of aughter with her first calf has just

nd Photo. OSHAWA, ONTARIO

Cattle

17 herd. His dam gave 116 lbs. milk 34.60 lbs. butter in 7 days. There indred lbs. of milk a day than any ers for sale.

2, HAMILTON, ONTARIO ephone

Bronte, Ont., Breeders of high class Holstein d sire No. 2, who is a full brother to the SLER, Prop. T. A. DAWSON. Manager

o you want a young herd header backed up y generations of record-makers, g. some of an -world champion? If so, write me. An ter White Swine. aville P.O., Ontario ne from Waterford

Ask your dealer for "LACTOLIN" and increase your milk production by 30 per cent. 50 cents per five pounds box, or write for it to The National Stock Food Co. Ltd. OTTAWA. ONT.

BLACK FOX RANCHING And General Fur Farming

And General Fur Farming The most profitable and inter-esting of all industries. Equally attractive to the small investor and the capitalist. Offering the safest and sanest of investments, either as a small privately-owned ranch or as a stock com-pany. Write forfree information and book on Fox Ranching. Correspondence solicited. Blake Vannatter, Fur Farm, Georgetown, Ont.

"Sepoy Special " Wheelbarrows FARM and GARDEN Varieties The best that can be produced. If your local dealer does not handle them write us and we'll quote you an interesting price. Ask us about our FARM and SLOOP Sleighs

THE SEPOY MFG. CO., LUCKNOW, ONT INGLEWOOD AYRSHIRES AND CHESTER WHITE SWINE.-We are now offering boars four months old and pigs six weeks. Pairs or trids, Young sows of breeding age. Also a few bull calves. WILSON McPHERSON & SONS, St. Ann's, Ont.

For Southdowns and Oxfords Both sexes; all ages.

donations to the society, sufficient capit tal to defray the cost of the purchase of the bull, and also an annual income sufficient to cover the insurance and keep of the bull, the salary of the secretary of the society, the general expenses of the management, and sinking - fund charges in respect of the depreciation of the bull sufficient to provide for the replacement of the bull when necessary. If a society arrange with an owner of a bull to place a bull at their disposal, they must guarantee the service of not less than twenty-five cows belonging to their members. The owner of a bull will be entitled under these circumstances (1) to payment from the society of a sum not exceeding £12 as may be agreed upon; (2) to a fee of not less than 2s. 6d. for each cow served, and (3) to have not more than fifteen of his own cows served by the bull: If a society arrange for the provision of a bull in this manner, the grant of £15 made to them by the Government, together with a nominal subscription of, say, 1s. per member, would probably suffice to defray all expenses, as the owner of the bull and not the society will be responsible for the keep, insurance, and care, etc., of the animal.

HEAVY HORSE SOCIETIES.

Grants will be made on the following conditions to heavy horse stallion socie ties which hire stallions : (1) No grants will be given to societies which hire stallions to travel at a fee exceeding £3 3s. (2) In no case will the grant to a society exceed £80 for each approved stallion provided by it, of which not S. LEMON, POPLAR LODGE, KETTLEBY, ONTARIO more than £40 may be a uncover and ings. Fergus, Ont.

Oxford Downs—We are in a particularly favorable position this choice Ram Lamb, also Ewe Lambs and Shearl-ings. WM. BARNET & SONS, R. R. No. 3, Fergus, Ont.

THE FARMER'S ADVOCATE

1428

If you could purchase a machine to grind the grain and feed your hogs, with no trouble to yourself, you would be willing

\$42.50 for it. THE HOG MOTU

has, the past six years, done this for hundreds of farmers, and not one has been troubled with crippled pigs. The Motor will do the same for your hogs. For full information address:

The Canadian Hog Motor Co., Ltd. LISTOWEL, ONT.

IMPROVED Yorkshires

FOR SALE - Young sows just being bred, also a few choice pigs, both sexes, 12 weeks old (only a few left). All will be registered.

WELDWOOD FARM FARMER'S ADVOCATE London, Ontario

HIGHEST PRICES PAID FOR &C

JOHN HALLAM, LIMITED

SUNNYSIDE STOCK FARM Chester White Swine Champion herd at Toronto and Lon-don Fairs; also Dorset Horn Sheep, young stock of both sexes for sale. W. E. Wright & Son, Glanworth, Ontario **CLEARVIEW CHESTER WHITES** CLEARVIEW CHESTER WHITES For many years my herd has won the highest honors at Toronto, London, Ottawa and Guelph. For sale are both sexes of any desired age, bred from winners and champions. D. DeCoursey, R. R. No. 5, Mitchell, Ont.

cept in the case of "assisted nominations," no reduction in the amount of the service fee usually charged is to be made by the societies receiving grants. (4) The stallions hired by societies receiving grants must be registered with the Government through its Board of Agriculture; and the mares for which assisted nominations are given must be approved by the society as suitable for the purpose. The value of an assisted nomination is not to exceed half the amount of the service fee.

for "assisted nominations." (3) Ex-

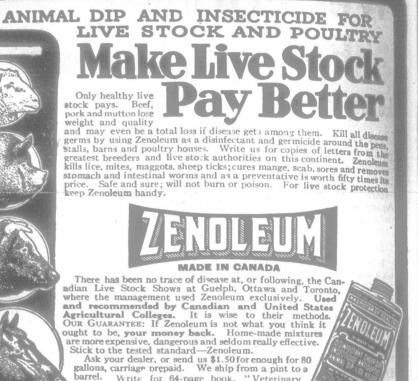
BOARS.

Grants will be made to societies only. The amount of the grant for a boar will be £3 per annum. A society may provide a boar for the use of its members : (a) By purchasing a boar and placing it in the custody of one of its members: or (b) by arranging with an owner of a boar-whether he be a member of the society or not-to place the boar at the disposal of the society on terms agreed between them

If a society arrange to purchase a boar, it will be necessary to provide, by means of contributions from members, or a donation to the society, sufficient capital to defray the cost of the Iurchase of the boar, and also an annual income sufficient to cover the insurance and keep of the boar, the salary of the secretary of the society, the general expenses of management, and sinking-fund charges in respect of the depreciation of the boar sufficient to provide for the replacement of the boar when necessary. If a society arrange with an owner of a boar to place a boar at their disposal, they must guarantee the service of not less than twenty sows belonging to their members. The owner of a boar will be entitled, under these circumstances, (1) to a payment from the society of a sum not exceeding £3 per annum, as may be agreed upon; (2) to a fee of not less than one shilling for each sow served; and (8) to have not more than six of his own sows served by the boar. If a society arrange for the provision of a boar in this manner, the grant made to them by the Government, together with a nominal subscription of, say, 6d. per member, would probably suffice to defray all expenses, as the owner of the boar and not the society will be responsible for the keep, insurance, and care, etc., of the animal.

MILK-RECORDING SOCIETIES.

Grants will be made annually to societies whose members record the milk yield of their dairy cows not less frequently than once a week, and who employ a recorder to pay surprise visits to check, at least once every six weeks, the red ords taken. The amount of the grant will be half the expenses of the society up to £30 in respect of each whole-time recorder employed for every twenty herds in the possession of members of a society. G. T. B.



barrel. Write for 64-page book, "Veterinary Advertiser." Free if you mention this paper. ZENNER DISINFECTANT CO. 332 Sandwich St. E., Windsor, Ont.

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We are offering a choice lot of ram and ewe lambs, a few shearlings and two shear rams, and a choice lot of shearling ewes, some fit for show purposes, sired. by a ram bred by James T. Hobbs, Maisey Hamp ton, Fairford, England, a winner at the Royal. See our Exhibit at Toronto National and other leading exhibitions. L.D.-Phone

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Tamworths Buy your hogs now, as they will be very scarce this fall I have a nice lot of boars and sows four to five months old; prices reasonable. Herbert German, St. George, Ontario

Poland - China Swine Duroc Jerseys Berkshires and Chester Whites, also Dorset Horn sheep. Young stock of both sexes. Come and see, write or 'phone. CECIL STOBBS, Leamington, Ontario 'Phone 284.

Tamworths Before buying write for prices JOHN W. TODD, R. R. No. 1, Corinth, Ont.

Morriston TAMWORTHS & SHORTHORNS Bred from the prize winning herds of England. Boars and sows all ages 150 head to choose from. Choice Shorthorns both sexes, good milking strain, one Clydesdale colt two-year-old bred from imp one Clydesdale colt two-year-old bred from imp. stock. CHAS CURRIE. Morriston, Ontario

Elmfield Yorkshires Four young sows about ready to breed, one boar farrowed in March, some young sows farrowed in April and May, and expect lots of young pigs for Sept. from good breeding stock on side of both dam and sire. G. B. Muma, R.R No. 3, Ayr, Ont. 'Phone Ayr R.R. 55 ring 2. G.T.R., Paris or Drumbo; C.P.R. Ayr.

to be sold we ned three weeks hence and later. POMONA FARM, COBOURG, ONT.

ELMDALE CHESTER WHITES

Maying purchased state A1 breeding stock, write for ity advertisement in a short time.

John Pollard, R. 4, Norwich, Ontario Blairgowrie flock.

Gossip.

BLAIRGOWRIE SHORTHORNS.

1915 is surely expansion year in the noted Blairgowrie herd of John Miller, Jr., of Ashburn, Ont., for just now roaming in luxurious pasturage is an exceptionally choice lot of two-year-old heifers whose remarkable thickness and balance of flesh is up to a standard seldom seen. Coupled with this is giltedged breeding, the vast majority of them have imported dams or grandams, and nearly all are sired by that noted Cruickshank Butterfly bull, Imp. Bandsman, and are safe in calf to the great sires, Imp. Right Sort and Imp. Raphael, two Toronto prizewinners, and two of the best individuals and breeding bulls in Canada. On blood lines, these heil ers represent the Village Girls, Orange Blossoms, Roan Ladys, Lady Anns, Jilts, Cranberrys, Minas, Lovelys, Cecilias, Meadowflowers, Rosemarys, and Joyces. One of them whose breeding is particularly choice, is out of Imp. Joyce, and is sired by the great Uppermill Omega (imp). Parties looking for high-class Shorthorn females should visit this herd. Mr. Miller has also on hand a large and choice flock of Shropshires that in general excellence are up to the usual high standard maintained in the

Maple Shade Shropshires

E. BARBOUR, Hillsburg, Ont., R.R. No. 2. Erin and Hillsburg Stations

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Flock Established in 1881 from the best flocks in England

We are offering a splendid lot of yearling rams and ram lamba for flock headers or show purposes. We ourselves have retired from the show ring to hold nothing back. We are also offering a few superior Hampshire yearlings and ram lambs. All registered, prices reasonable.

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Guelph, G.T.R.; Arkell, C.P.R. Telegraph Guelph, Long-distance phone in house.

A few shearling rams and ram lambs are for sale. They are the right kind and out of imported ewes and sired by an imported "Buttar" ram. You may order any time now for delivery later.

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Shropshires and Cotswolds for Sale—Yearling rams and yearling even a ram lambs from imported eves. I expect an importation of rams of both breeds from Engand 1st of August. Prices very reasonable. Claremont, C.P.R., 3 miles. Pickering, G.T.R., 7 miles. Greenburn, C.N.R., 4 miles.

SHROPSHIRES AND SHORTHORNS Our Shropshire lambs this year by a Butter ram are an extra lot, well grown, well covered and well balanced. They are for sale, both sexes, also milking bred Shorthorns, young bulls, cows and h eifers. P. CHRISTIE & SON, Manchester, Station and P.0.

Spruce Lodge Stock Farm—Shorthorns and Leicesters Short Have always on hand a few choice heifers and bulls from good milking families. In Leicesters we have the best lot we ever offered in shearlings and ram lambs and ewe and ewe lambs, all got by choice imported rams. W. A. DOUGLAS, - R. R. No. 2, - Caledonia.

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In Duroc Jerseys we have either sex of any desired age, bred from winners and champions for generations back. In Jerseys we have young cows in calf and young bulls, high in quality and high in producing blood. NORTHWOOD, ONT.

Poland-Chinas Buy the right kind of Poland-China Swine from Canada's champion herd. High-class stock, any age, imported and Canadian bred, includ-Shorthorns, heifers and calves of right quality. wine exhibit at Toronto and London shows. GEO. G. GOULD, Essex, Ont. Route 4.



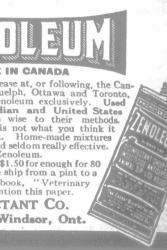
Sunnybrook Yorkshires and Shropshires Your opportunity to secure stock bred from our CHAMPION hog which is winner of twelve firsts and five CHAMPIONSHIPS in the last four years and has never been beaten. Are offering choice rams of the best breeding. Stock guaranteed as represented. Wm. Manning & Sons, Woodville, Ont.

Newcastle Tamworths and Shorthorns Boars ready for service. Sowe due to farrow in August and September. Sowe due to farrow in August and September. Several extra choice young bulls and heifer calves, recently dropped; grand milking strain, 2 bulls 5 and 8 months old. All at reasonable prices. A. A. COLWILL, NEWCASTLE, ONTARIO Long-Distance Telephone

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ford and Hampshire Downs 881 from the best flocks in England to of yearling rams and ram lamba for flock /e ourselves have retired from the showing so so offering a few superior Hampshire yearling red, prices reasonable. ON, Route 2, GUELPH, ONT. rkell, C.P.R. Telegraph Guelph, istance phone in house.



SEPTEMBER 2, 1915



Empire Mechanical Milker in circular barn

THE FARMER'S ADVOCATE.



Empire Mechanical Milker in operation in the model dairy barn

The Solution of the Milking Problem

How Large and Small Dairies in All Parts of the Country Are Doing Away With the Drudgery of Milking – Cutting Down the Cost – Increasing the Milk Yield – and Insuring Their Patrons Healthy, Sanitary Milk

CINCE the beginning of time milk has played **)** a most important part in the world's diet. It stands with wheat as one of the world's most important foods.

Yet, while in every form of agriculture there has been a distinct advance in the method of harvesting the crop, until a few years ago milking was done in much the same way that it was in the earliest ages of which we have any record.

A Big Step Forward

This announcement of the advent of the Empire Mechanical Milker, therefore, seems to us to be one that should be of the utmost importance, not only to the practical dairymen, for whom it will save many hundreds of dollars in a year, but to all.

In recent years it has been proved that much of the suffering and disease that humanity is heir to is traceable directly to impure and insanitary milk.

The Empire Milker corrects this evil wherever installed. It keeps the milk absolutely free from dirt, disease germs and contaminating stable odors.

More Important Than the Harvesting Machine

What the harvesting machine was to the wheat farmer the Empire Milker is to the dairyman. Just as the harvester enabled the wheat farmer to extend his acreage-garner his crop in less time, with less help and at less expense-so the Empire Mechanical Milker permits the dairyman to milk more cows in quicker time, with less expense.

Thus the advent of the Empire Mechanical Milker should mean a great extension of the dairy business, for when the danger from impure milk is removed the public will learn to depend more upon this most naturally healthful of all foods-and because the drudgery and expense of dairying are eliminated there will be more incentive to the farmer to keep a fine herd of dairy cows.

1429

Even a comparison of the milker with the harvesting machine, however, does not indicate the importance of the advent of the Empire Mechanical Milker-for even the harvester, with all its advantages, did not increase the yield per acre nor the quality of the crop, whereas the Empire Mechanical Milker does, in many cases, increase the yield per cow, and in every case produces more sanitary milk.



The Empire Achievement

For years past the attention of experts who had to do with the dairy

big dairyman, but for the farmer with ten or more cows.

Its construction and operation are

milking problem-not alone for the atmospheric pressure are alternately applied to the rubber lining of the teat cup, causing a collapsing and expanding of this lining so as to massage the teat at the time the milking is being done, by means of the vacuum.

We made sure of this machine by long-time tests before we put it in the hands of the practical dairymen; and now that it has been in use by them for over a year our judgment

sale. They are the right kind and out "Buttar" ram. You may order any

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Sale—Yearling rams and yearling ewes, a v imported 3-shear ewes, an extra good lot of ion of rams of both breeds from Engand

JOHN MILLER, Claremont, Ont. miles. Greenburn, C.N.R., 4 miles. 7 miles. SHORTHORNS

an extra lot, well grown, well covered and king bred Shorthorns, young bulls, cows and lking bred Shorthorns, young bulls, cows and IE & SON, Manchester, Station and P.O. horthorns and Leicesters Sheep

ers and bulls from good milking families. In ered in shearlings and ram lambs and ewe and R. R. No. 2, - - Caledonia.

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age, bred from winners and champions for calf and young bulls, high in quality and g blood. NORTHWOOD, ONT.

Poland-China Swine from Canada's champion any age, imported and Canadian bred, includ-Also choice young stock in Chester whites and thrifty condition. Moderate Prices. See my EO. G. GOULD, Essex, Ont. Route 4.

ENGLISH BERKSHIRES ther with the stock boar, Suddon Torredor, we Satisfaction and safe delivery guaranteed. Importer, CAINSVILLE ONTARIO antford & Hamilton Radial.

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PION hog which is winner of twelve firsts and ever been beaten. Are offering choice fait. Wm. Manning & Sons, Woodville, Ont.

Corns Boars ready for service. Sows due to farrow in August and September. tes ready to wean. Descendants of imp. and s and heifer calves, recently dropped; grand reasonable prices. Long-Distance Telephone

ndustry has been directed toward the perfection of a machine of this character, but it remained for the engineers and experts of the Empire Company -studying all that had been done in the past and adding to it with their own experience-to perfect this machine which has, at the present time, on thousands of dairy farms, under varying conditions, solved the problem in a thoroughly practical and economical manner.

The Empire machine not only insures milk free from bacteria and germs, removes the drudgery, cuts down the time and expense of milking, but it is easier on the cow than hand milking, as has been proved by the fact, over and over again, that the cows take to it readily-stand more quietly-let down the milk more easily-and give more milk where the machine is used.

For the Small Dairy Too

The Empire Milker is a practical, economical, sensible solution of the

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THE EMPIRE CREAM SEPARATOR CO.

OF CANADA, LIMITED

and

Manufacturers of Empire Mechanical Milkers, Empire Cream Separators and Empire Sta-Rite Gasoline Engines

See our exhibit under the grand-stand, in what is known as the Manufacturers' Annex, at the Canadaan National Exhibition at Toronto, and also at the London and Ottawa Fairs.

The Empire Mechanical Milker is in use at the Central Experimental Farm at Ottawa.

simple, and its cost triflng in comparison with the amount that it saves.

One man with an Empire Mechanical Milker can milk 20 to 30 cows per hour, at the same time doing the stripping and carrying the milk. Thus a dairyman can keep more cows with his present help or milk the cows he now has with less help—and be relieved forever from the drudgery of hand milking.

Briefly-How It Works

An Empire Mechanical Milker installation consists of a pump, actuated by any suitable power, a vacuum tank, necessary piping and the milker units.

In operation the pump draws the air from the tank. The vacuum thus created is transmitted by means of the piping to the milker unit, which consists of a pail, a pail lid, teat cups complete with rubber connections for air and milk and a pulsator. By means of this pulsator, vacuum and

WINNIPEG

This, very briefly, explains the principle on which the milker works.

A full description, together with complete information about the machine, can be had by reference to the Empire Mechanical Milker Book, which will be sent to interested parties upon request.

Users All Satisfied

As to proof of the satisfaction and success of the users of the Empire Milker, space does not permit us to print the numerous letters we are receiving from users, but we have yet to hear of one installation of the thousands we have already made that has not proved satisfactory in operation.

has been so vindicated that we are convinced that a thorough knowledge of what the machine will do is all that is necessary to convince any cow owner that it is to his best interest to install one. 🐔

Send for This Book

We have prepared a book telling all about the Empire Mechanical Milker, and we want to send a copy to every practical man who has his own and the best interests of the dairy business of the country at heart. It is not a long book but you will find it well worth reading. It tells simply and fully all about the Empire Milker -what it is, what it does, and how it does it-and then gives proof of the saving it effects for its users. Send for your copy today. Use the coupon NOW while you are thinking of it.

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The EMPIRE CREAM SEPARATOR CO. of Canada, Limited

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splay of such an outstanding order. roughout, the Shorthorns, Aberdeenigus and Herefords, classes of almost most quality, breed character, and marllous deep conformation, demanded the miration of the public, and presented roughout almost every class, competion that was keen indeed.

In the sheep and swine pens, flocks d herds better than usual forced ininse competition. This was especially be in the Swine Department, where ery breed presented competition, somehes very strenuous, and in other cases a light order. Although considerable space of the ilding was utilized by the military thorities, the association erected seven w buildings to allow adequate accomdation for the live-stock display, and so doing they created an air of satistion among the stockmen which was st pleasing. SEPTEMBER 2, 1915



Renfrew Standard Dual Ignition

B^E sure and see the Dual Ignition System—the latest feature of the Renfrew Standard engine—at the fall fairs. With the Renfrew Standard High Tension (built-in) Magneto and Battery equipment the delays and tie-ups from the ignition system of a gasoline engine are practically eliminated. This feature removes the last objection a farmer might have against purchasing a gaşoline engine. He now is able to get an engine—the Renfrew Standard—which is entirely reliable, that starts without cranking, that is economical to run, and that is very durable. The latest models are exceedingly strong and powerful, being increased in size. The 6 h.-p. Renfrew Standard, for example, is about as large as the average 8 h.-p. engine. More value for your money this year than ever before.



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under the Grand Stand and on Machinery Row at Toronto Exhibition, also at the other fairs. Renfrew Truck Scale

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—the scale that earns big dividends for farmers—is also on exhibit at the fairs. The handiest scale for farm use. Strong, compact, government inspected, guaranteed.

Standard Separator

With Glass Sections

The glass sections are put on specially so that you can see the working parts and our famous automatic oiling system in full action at our fall fair exhibits. Another big feature we want you to see is the interchangeable capacity of the Standard Cream Separators. Also the bowl and the discs that have made those great close skimming records at Government Dairy Schools.

> Grain Grinders, Saw Frames and Ensilage Cutters also on exhibition.

THE RENFREW MACHINERY CO., LIMITED, HEAD OFFICE Renfrew, Ont.

mover, topped the dry mare class, winning in close competition with the second and third prize winners Bonnie Doon and Lady Sylvander. The championship and reserve championship in females went to Poppy and Pride of the Craig respectively, both the property of P. M. Bredt, Calgary.

PERCHERONS.

In the Percheron department this year at Edmonton the \$1,000 awarded in prizes for futurity classes strengthened the display. There were ten prizes for stallions and ten for fillies, in this part of the Percheron exhibition. This futurity stake of \$1,000 is intended to induce the better growing, care and fitting of colts. The foals of 1914 were required to be entered for competition by February 1, 1915, and they were care-



more than fulfils its guarantee. It delivers the power smoothly and without fuss, on much less gasoline than other engines rated as economical. Built by men who know how. Has few parts ; is equipped with gravity sight-feed oil cups, jump-spark ignition and make-and-break governor. Unfailing starter in coldest weather. Write for booklet to-day.

But in on

and reserve championship went to the first and second winners of this class.

SHIRES AND BELGIANS. T. Rawlinson exhibited the champion Shire stallion, Hampton Royal Friar, and G. Lee Warner had the champion mare in Queen Carlton. The champion Belgian stallion was Perfection, shown by W. R. Gordon, while N. Bilsborrow brought out Princess Alberta on which he won championship honors in filly classes.

SHORTHORNS.

Approximately the same showing in the Shorthorn breed was made at Edmonton Exhibition as at those held previously throughout the western circuit. Gainford Perfection and Silver Queen respectively secured the male and female championships, thus completing their western circuit without a single defeat

The judges, on the whole, did very isfactory work in their various tasks, e judges were as follows:

tobt. Graham, Toronto, Ont.; J. M. rdhouse, Weston, Ont.; J. M. Flatcher, rin, Ill.; W. F. Stephen, Huntingdon, e.; Jas. McCaig, Edmonton, Alta; ot. T. E. Robson, London, Ont.; Peter ite, Pembroke, Ont., and Wm. Grant, gina, Sask.

CLYDESDALES.

n the aged stallion class Gay uglas, by Scotland Yet, won the red bon from Royal Trustee which was ond and Solicitor General which s third. All three were good, useful, fty types but not considered good ough for championship. The premier se in this breed was chosen from the o-year-old class where Dunrobin Pathder, exhibited by W. C. Sutherland, eated General John and Western o. This quality two-year-old stalwas hardest pressed for honors by nrobin Hiawatha by Perpetual Motion exhibited by W. C. Sutherland in three-year-old class. The female petition was even more keen than t in the stallion classes. The many es winner, Poppy, came out in her time style and was placed first in brood mares with Rosie Beauty secand Rosie MacLaren third. Pride of Craig, a drafty mare and straight

fully raised and fitted to be shown as yearlings in competition at any Canadian exhibition that offered the greatest inducements. Next year it is the intention of the Percheron Breeders Association to hold a futurity in each province, it being held at the exhibition offering the highest financial bid. The stallion awards were as follows: 1, 3 and 5, Geo. Lane and Gordon, Pekisko, Alta., on Marmion by Halifax, Marvel by Halifax, and Monarch by Halifax; 2, 4, 6 and 10, J. C. Drewry Estate, on Habitall, Habidit, Habigiges, and Jurefrisse; 7 and 9, Geo. Lane, on Emperor and Empire; 8, Upper Bros., on Prince Charlie. Filly futurity awards: 1, 3 and 6, Geo. Lane and Gordon, on Mountain Maid, Medissa and Maple Leaf Queen; 2 and 5, J. C. Drewry Estate, on Habinare and Polyanthus; 4 and 8, Geo. Lane, on Encore and Energetic; 7 and 9, Upper Bros., on Black Beauty and White Socks.

In the open Percheron stallion classes Icarie by Jasmin, an immense individual weighing between 2,200 and 2,400 lbs., won first place for Geo. Lane, and was later awarded the championship over Lord Nelson the three-year-old which won from Futurity in the three-yearolds. Lord Nelson was exhibited by Geo Lane and Gordon. In the females the heaviest competition appeared when the yeld mare class went into the ring; the struggle for first place being between Resine, exhibited by Upper Bros., Irlandaise shown by Geo. Lane, and Superb the property of Geo. Lane and Gordon. The decision finally landed Irlandaise in first place, Rosine second, and Superb third. The championship



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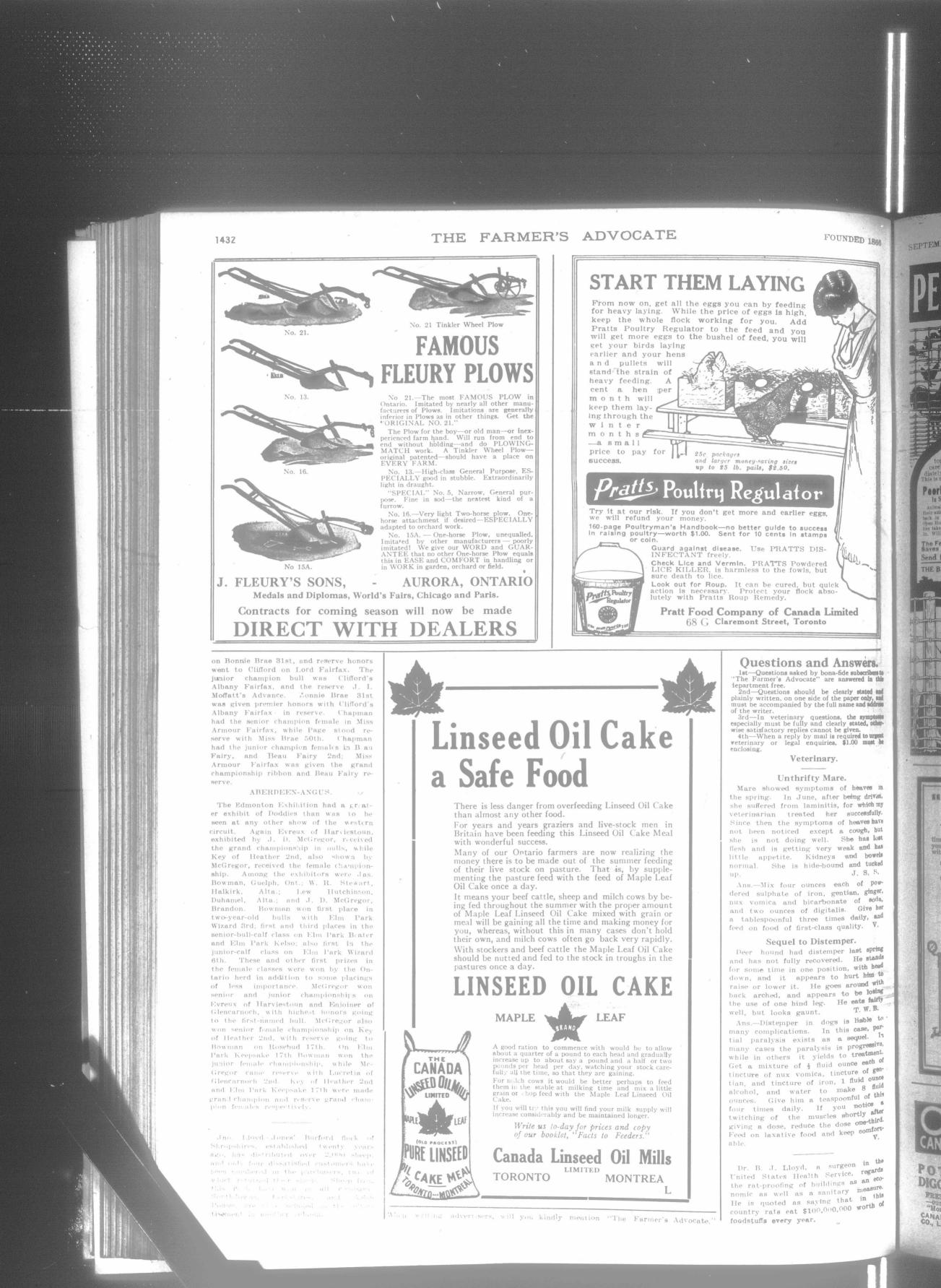


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in the ring. J. A. Watt, won the aged bull class with Browndale by Avondale. Although Burnbrae Sultan and Oakland Star, two bulls with greater scale, made the decision rather problematical for a while. Thelma 2nd rightfully won first place in the aged-cow class, having excellent Shorthorn character and a wealth of beef conformation. The senior champion bull was Gainford Perfection and the reserve, Browndale, both shown by J. A. Watt, Elora, Ont. The junior champion bull was found in J. G. Barron's Emma's Prince, and reserve in Yule & Bowes' Oak Bluff Marshall. The grand champion bull was Gainford Perfection and reserve, Emma's Prince. Senior champion and reserve females were Silver Queen and Thelma, both shown by J. A. Watt. The junior female champion was Countess 16th, exhibited by A. F. & G. Auld, Guelph, Ont. Silver Queen was made grand champion and Countess 16th reserve.

HEREFORDS.

There was some keen competition in the Hereford classes where two notable eastern herds, one from Manitoba and two from Alberta clashed for honors. The majority of the money, however, went to the Manitoba and Ontario herds. Breed character was outstanding throughout the entire exhibits and most of those competing were Canadianbred. Among the exhibitors were V. W. Smith, of Camrose, Alta.; J. A. Chapman, Hayfield, Man.; Frank Collicuit, Calgary, Alta.; Jas. Page, Wallacetown, Ont., and L. O. Clifford, Oshawa, Ont. Page won the senior-bull championship



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SEPTEMBER 2, 1915



t can be cured, but quick Protect your flock abso-up Remedy.

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Ouestions and Answers. 1st—Questions asked by bona-fide subscribers to 'he Farmer's Advocate'' are answered in this

partment free. 2nd—Questions should be clearly stated and inly written, on one side of the paper only, and ist be accompanied by the full name and address the writer. 3rd—In veterinary questions, the symptoms becially must be fully and clearly stated, other-se satisfactory replies cannot be given. 4th—When a reply by mail is required to urgent terinary or legal enquiries, \$1.00 must be closing.

Veterinary.

Unthrifty Mare.

dare showed symptoms of heaves in e spring. In June, after being driven, e suffered from laminitis, for which my erinarian treated her successfully. nce then the symptoms of heaves have t been noticed except a cough, but is not doing well. She has lost sh and is getting very weak and has

THE FARMER'S ADVOCATE.

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FENCE

Does all you could wish for a poultry fence and more. Built close enough to keep chickens in and strong enough to keep cattle out. Even small, chicks cannot get between the close mesh of lateral and vertical wires. The heavy, hard steel or and bottom wires together with intermediate laterals, will take care of a releast backed wagon, or an unruly animal and spring back into shape imme-try. The wires are securely held together at every intersection by the Peerless Lock into a netting but a real fence-built in the with our usual good standard of excellent

Paerless Perfection Field Fence attra heavy, Will not may. Requires less posts than ordinary fonce. Absolutely guaranteed.

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The Fence that Is never needs repairs. It is the cheapest fence to erect, because, owing to its exception saves Expense heavy top and bottom wires, but half the usual amount of lumber and posts are required.

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THE BANWELL-HOXIE WIRE FENCE CO., Ltd., Winnipeg, Man., Hamilton, Ont.

Gossip.

In a recent communication to "The Farmer's Advocate," A. A. Colwill, of Newcastle, Ont., writes thus : "Owing to a recent and lengthy illness, I do not propose to attend the large fairs this fall with my Tamworths, hence I shall have quite a number of choice show sows and boars on hand, which will be sold at moderate prices, several of which are fit to go into any show ring. I also have a few real choice heifer calves of the dual-purpose kind that will be well worth looking after; also some nice young bulls about ready for service."

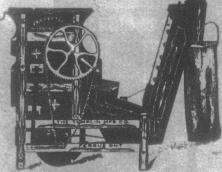
There were strong indications before the war started that a large trade would develop between England and Canada in pure-bred Holstein cattle, and there is reason to believe that when the war is over all our surplus stock of Holsteins will find a ready sale in that market at a good profit. The large milk and but-ter yield is what they are after, and pure - bred Holsteins have demonstrated by official test their ability to meet all requirements in this respect. The low prices that prevail at present should warrant farmers in preparing for this demand, as those who are first in the field usually reap the harvest. The dispersion sale of pure-bred Holsteins at Glenescott Farm (near London), on Sep tember 15, should be a good opportunity to make a start, as pedigreed cattle of high official record will be sold at auction to the highest bidder. The present owner is compelled, for health reasons to live a great part of the year in the South. See the advertisement in this issue.

C. J. LANG'S BERKSHIRES.

With considerably over a hundred head of English Berkshires to select from, breeders can be assured of getting their wants supplied in breeding stock, whether it be a stock boar, a breeding sow, or any quantity desired and of either sex, in the noted herd of C. J. Lang, of Burketon, Ont., R. R. No. 3. The stock boars now in service are British Duke (imp.), and the Augusta - bred Elmhurst Augusta 2nd (imp.). All the thirty-odd brood sows are either imported direct or bred from imported sires and dams. Mr. Lang breeds and ships to breeders, probably, more Berkshires every year than any other Canadian breeder. Satisfaction is guaranteed in every shipment. and he ships what he guarantees, hence the secret of his phenomenal success. He has also a well-selected flock of Shropshire sheep, bred from the renowned flock J. & D. J. Campbell, of Woodville He is offering for sale ram and ewe lambs of exceptional merit. Write him your wants in Berkshires or Shropshires.

THE PERFECTION SEED AND GRAIN SEPARATOR

1433



This mill is the cnoice of the Colleges and Gov-emment Farms at the O.A.C. and Prison Farm at Gueiph. Ont.; Harrow, Ont.; Farmham, and St. Casimir, Portneuf. Que.; Fredericton, New Bruns-wick; Truro, Nova Scotia; Charlottetown, Prince dward Island, and hundreds of farmers every-where throughout Canada. There must be a reason. It is the best mill on the market to-day for cleaning grain of all kinds, including the clovers. Write for free circular "A," get better prices for your grain and double your crop. THE TEMPLIN MEG. CO. FERCUS ONT

THE TEMPLIN MFG. CO. FERGUS, ONT.



tle appetite. Kidneys and bowels rmal. She is hide-bound and tucked J. S. S.

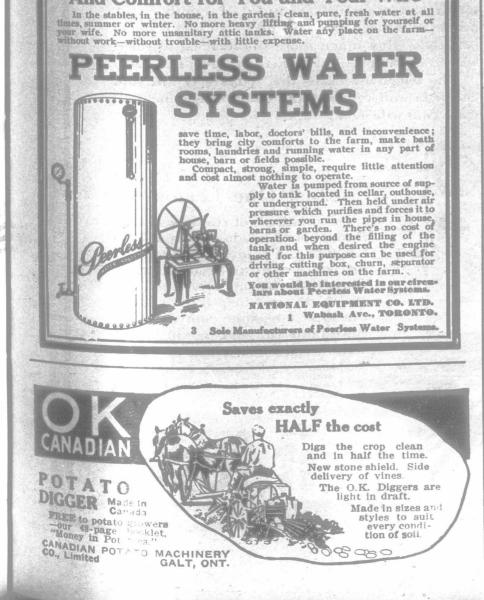
Ans.-Mix four ounces each of powed sulphate of iron, gentian, ginger, x vomica and bicarbonate of soda, d two ounces of digitalis. Give her tablespoonful three times daily, and d on food of first-class quality. V.

Sequel to Distemper.

Deer hound had distemper last spring d has not fully recovered. He stands some time in one position, with head wn, and it appears to hurt him to se or lower it. He goes around with ck arched, and appears to be losing use of one hind leg. He eats fairly Il, but looks gaunt. T. W. B.

ns.-Distemper in dogs is liable to ny complications. In this case, parl paralysis exists as a sequel. In ny cases the paralysis is progressive, ile in others it yields to treatment. t a mixture of 1 fluid ounce each of cture of nux vomica, tincture of genn, and tincture of iron, 1 fluid ounce ohol, and water to make 8 fluid nces. Give him a teaspoonful of this r times daily. If you notice itching of the muscles shortly after ing a dose, reduce the dose one third. ed on laxative food and keep comfort

Dr. B. J. Lloyd, a surgeon in the ited States Health Service, regards e rat-proofing of buildings as an ecoe rat-proofing of buildings as an mic as well as a sanitary measure. It is quoted as saying that in this untry rats eat \$100,000,000 worth of dstuffs every year.



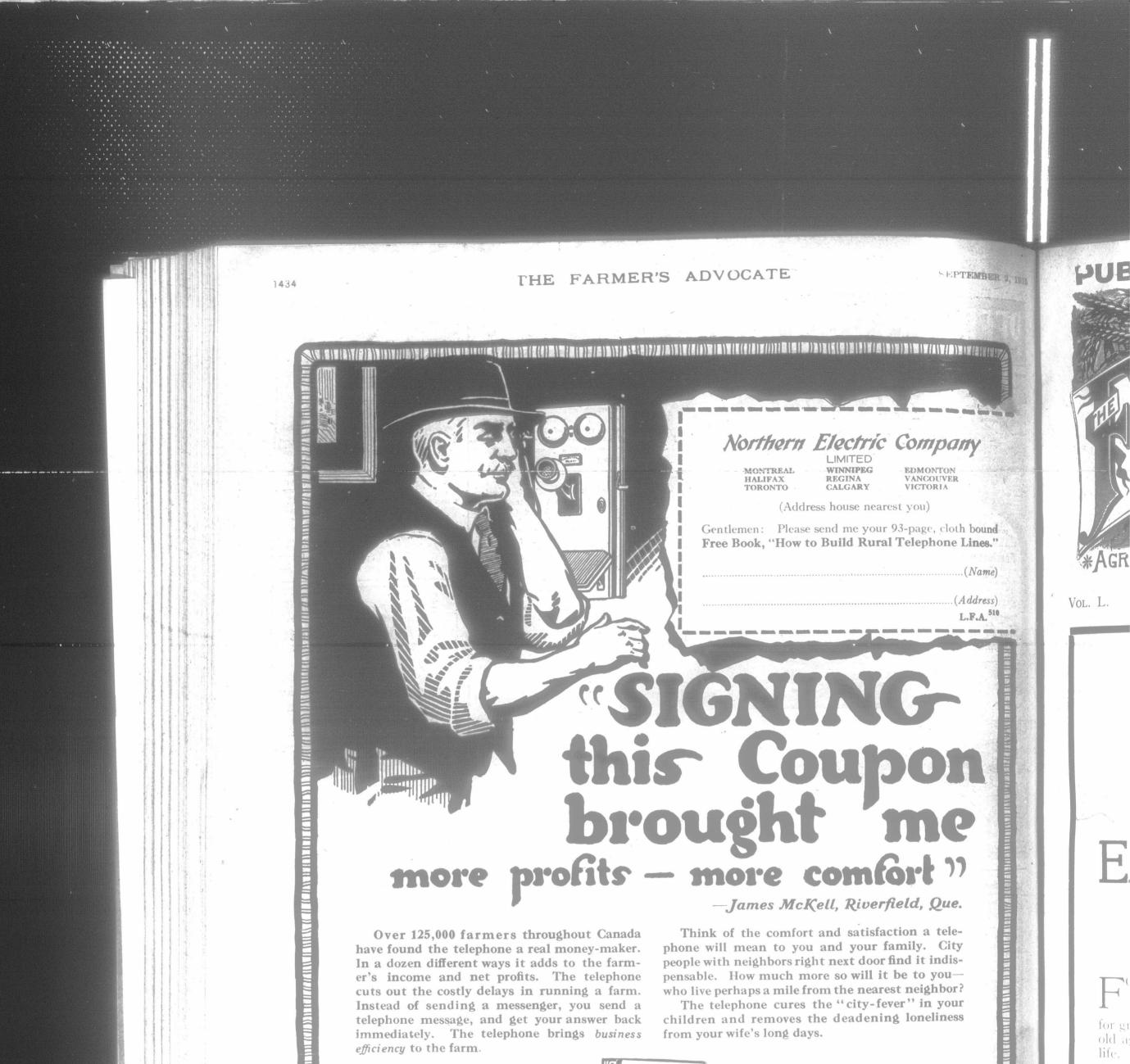
A SIX-HUNDRED-DOLLAR GARDEN. Oh ! Daphne's Garden, it is fair, And fills the circumjacent air, And ladens every passing breeze, With scent of Turnip, Beet, and Pease The caroling Cabbage rears her head Beside the blooming Spinach bed, The while the merry Leek hard by Flirts with the modest Plant-de-Pie.

The Bean, ambitious he of soul, Climbs higher daily on his pole, While tender little Carrots flout The glances of the Brussels Sprout. The soft Tomato, ripe and lush, The Red Rose rivals with her blush, While in the depths of every hill The amorous Potatoes trill.

The Winging Birds with hearts of song Come wooing here the whole day long, The Crickets chirp their roundelay Unto the Garden night and day, The Hopper hops from out the grass Amid sweets his hours to pass, And chiefest lover of its fruits, The Cutworm serenades its roots.

O Garden blest ! O Garden rare ! O Garden ever sweet and fair-I love thee for that Daphne's hands Have lured thee from the arid sands ; I love thee for that Daphne's toil Hath wrested from the earth thy spoil, E'en though six hundred cold I drop For fourteen dollars' worth of crop ! -John Kendrick Bangs, in N. Y. Times.





cuts out the costly delays in running a farm. Instead of sending a messenger, you send a telephone message, and get your answer back immediately. The telephone brings business efficiency to the farm.

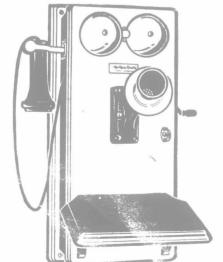
who live perhaps a mile from the nearest neighbor?

The telephone cures the "city-fever" in your children and removes the deadening loneliness from your wife's long days.

Join the Army of 125,000

progressive Canadian farmers who have found the telephone "the biggest little thing on the farm." Our free book tells you how to organize your local company and build your lines. Write for it.

Northern Electric Company



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Just One Leader-

The hundreds of rural exchanges throughout Canada owe their existence to the *leadership* of usually just one man in the community who signed the coupon and got our free advice and help in organizing the local telephone company. Be that man in your community. Write our nearest office:

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Edmonton Vancouver Victoria

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