

AGRICULTURE, STOCK, DAIRY, POULTRY, HORTICULTURE, VETERINARY, HOME CIRCLE. ENTERED IN ACCORDANCE WITH THE COPYRIGHT ACT OF 1875

VOL. XLV.

LONDON, ONTARIO, NOVEMBER 17, 1910.

No. 947



Free to Stock and Poultry Raisers

We will send, absolutely free, for the asking, postpaid, one of our large thirty-two-page booklets on the common diseases of stock and poultry. Tells you how to feed all kinds of heavy and light horses, colts and mares, milch cows, calves and fattening steers, also how to keep and feed poultry so that they will lay just as well in winter as in summer. No farmer should be without it.

a day per Animal, Royal Purple Stock Specific makes each Animal worth 25 per cent. more.

You never heard of any other Specific, or "Stock Food," doing likewise.

Royal Purple will permanently cure the ting indigestion or losing flesh. Bots. Colic, Worms, Skin Diseases and Debility, and restore run-down Animals to plumpness and vigor.

It will increase the milk-yield three to five pounds per cow a day inside of from two to three weeks. It makes the milk richer than ever before.

MR. ANDREW WEGRICH, of Wainfiett, Ont., says: "This is to certify that I have tried your Royal Purple Stock Specific for two weeks, on one cow. On the 16th I weighed her milk as 17 pounds. I noticed a change after 5 or 6 days, as there was an extra weight of milk. On the 29th, I carefuliy weighed the milk, and she gave 22 pounds. am giving an order for 5 boxes, as I consider it the best I have ever used."

At a cost of only two-thirds of a cent and heavy. And it builds up the health of run-down stock, in little or no time.

The very best time to use this Conditioner is NOW. It digests the hard food properly and prevents the animals get-

50 per cent. Cheaper

Gne 50-cent Package of Royal Purple will last one Animal 70 days. This figures a little over two-thirds of a cent per day.

Most "Stock Foods" in 50-cent Packages last but 50 days, and are given three times a day.

But Royal Purple Specific is given only once a day, and lasts 50 per cent. longer (A \$1.50 Pail, containing four times the amount of the 50-cent Package, lasts 280 days.)

So, you see, it is only necessary to give Royal Purple Specific once each day.

It makes the Hens lay Eggs in Winter as well as in the Summer.

MRS. WM. BURNHAM, Sanford, Ont., says: "Dear Sirs,-This is to certify that I have used two boxes of your Poultry Specific for my hens. They laid so well while feeding it to them, I wondered if you would mind sending me word how or where I could get some this winter. I bought it from your agent last winter. I had 32 hens, and some days I got two dozen eggs a day in February and March, while feeding them the Specific.'

Royal Purple Poultry Specific prevents Fowls losing flesh at moulting time, and permanently cures every poultry disease. It makes their plumage bright and keeps them always in prime condition.

It makes your Poultry worth more than they could ever be without it.

Hens 70 days. Or a \$1.50 Pail will do quainted with Royal Purple, it will have Just think of making each Animal 25 Hens 280 days. This is four times a greater demand than all other tonics more material at only three times the

Centralia, Ont., Feb. 7, '10. The W. A. Jenkins Mfg. Co., London, Ont. Gentlemen,-We have been using Royal Purple Poultry and Stock Specific for the last three weeks, and must say that results are remarkable. Am feeding the

Stock Specific to two milking cows, and they have increased 30 per cent. in their milk. The Poultry results are even more marked than this. We have about 60 hens, laying age. When we commenced feeding, we were getting five and six eggs a day, and in the last five days the same flock of hens laid 150 eggs, almost an average of 31 each day, and those five days have been the coldest this winter. You can see results plainly in two or three days after the use of "Royal Purple," and the poultry have the same hustle and appearance now as in the sum-

mer time. With cows and poultry, am using exactly the same feed and care as before starting to feed "Royal Purple." When farmers and stockmen get ac-

ANDREW HICKS. Yours truly,

"Stock Food" will not do this. Because worth 25 per cent. over its cost ! What more Stock Food" is nothing more or less will that mean to you, Mr. Stock Owner! cost than a mixture of the very things which you, yourself, grow on your own farm.

It is not more food your Animals need They must have something to help their hodies get all the nourishment from the food they are getting. So that they will fatten, and stay fat, all the year 'round.

They need something to prevent disease, to cure disease, and to keep them in the best of health, all the time.

Not a Stock Food

Royal Purple is not a "Stock Food," nor a "medicine." It is a Conditioner.

lt does not contain Grain, nor farm products. Nor does it contain "Dope," or any other injurious ingredient. Royal Purple does not merely temporarily bloat 2.021, largest winner of any pacer on or inspire the Animal. It fattens and Grand Circuit in 1908 and 1909, and rengibens it, permanently.

No other Specific known adds flesh soquickly as Royal Purple. It makes 6-weeks-old Calves as large as ordinary-fed Calves are at 10 weeks.



Royal Purple creates an appetite for food, and helps nature to digest and turn

it into flesh and muscle. As a Hog fattener, Royal Purple has no equal.

Never Off Feed

Dan McEwen, the horseman, says "I have used Royal Purple Stock Specific persistently in feeding 'The Eel, Grand Circuit in 1908 and 1909, and 'Henry Winters,' 2.101, brother of 'Allen Winters,' winner of \$36,000 in trotting

"These horses have never been off their feed since I started using Royal Purple Specific. I will always have it in my stables. Your Cough Powder works

For Poultry

Royal Purple Poultry Specific is our other Specific. It is for Poultry - not Make This Test

Every ounce of Royal Purple Stock and Poultry Specific is guaranteed.

To prove that Royal Purple has no equal, we want you to make this test :

Feed Royal Purple to any one of your Animals for four weeks. And at the same time feed any other preparation to any other Animal in the same condition.

If Royal Purple does not prove to you, by actual results, that it is the best you ever used, we'll return your money.

And we'll ask no questions-make no excuses. You will be the judge - not us. This is an honest test, isn't it? We ask you to make it because we know that Royal Purple is the best Conditioner on the market.

If you are not satisfied, after testing it, you don't lose anything, do you ? postpaid upon receipt of price.

'Aug. 28, 1910.

W. A. Jenkins Mfg. Co., London, Ont.: Gentlemen,-Last Fall we had in our stables a young mare belonging to Miss Clouston, of Montreal. We could not feed her any bran on account of causing violent scouring, consequently causing her to become weak and thin. We commenced using your Royal Purple Stock Specific, and the results were wonderful. After using it three weeks, we found we could feed the animal bran or any other soft feed without scouring her, and she actually took on in this time twenty-five pounds of flesh, we working her at the same

TOM SMITH.

Transfor the Hot. Adam Beck.

We also namufacture Royat Purple Free Killer Royal Purple Gall Cure Royal Purple Sweat Lumers, Royal Posple Complete One Couph Come will core any ordinary and couple cure will ever any boundary solution for days and well break up and cure distemptor is ten factive days of cour disable cannot apply vier with any Royal Porple Brands, we will supply tough Powder, we will send it by

A. JENKINS MFG. COMPANY, LONDON, ONTARIO

Put Your Feet in a Pair at Our Risk Will Surprise and Delight You 🕅 Their Lightness, Neatness and Com -Their Almost Unbelievable Durabasey We want you to slip your feet into a pair of Steel Shces-to feel and see and know how much lighter, neater, str

more comfortable they are than any other work shoes in existence. Hence we are making this special Free Example, merely asking a deposit of the price, while you are "sizing up" the shoes. If they fail to convince you imme-Overwhelmed by the World-Wide Demond you can notify us to send for them at our The enccess of Steel Shoes is almost startling. Within three years established Steel Shoe factories in Racine, Wis.; Torono, C. Northunpton, England. These great factories, running at function scarcely keep up with the demand from all over the way public is rapidly learning that Steel Shoes are

expense and we will refund your money. Must Sell Themselves

We ask no favors for Steel Shoes. Compare them with the best all-leather work shoes you can find. Give them themest rigid inspection inside and out. Let them tell their own story. It's no saile unless, of your own accord, you decide that you must have them.

Better Than the Best All-Leather Work Shoes

Steel Shoes are the strongest and easiest working hoes made. nore good wear in one pair of Steel Shoes There's more good wear in one pair of Steel Shoes than in three to six pairs of the best all-leather work shoes. The leather is waterproof. The Steel Soles are wear-proof and rust-resisting. They are lighter than all-leather work shoes. Need no breaking in ______ Comfortable from the first moment you put them on. Impossible to get out of shape. They keep the feet dry. They retain their flexibility in spite of mud, slush or water. They cure corns and bunions, prevent colds and rheumatism—save doctors' bills and medicines

Thousands of Farmers

Shout Their Praises

Shout Cheir Praises
Steel Shoes are made for supers still? The soles and heels are made for a superior guality of leather, as water the batters from we ring out. Kivets easily replaced the proof of their revents which prive revents which prive revents which prive revents which steel Shoes, so inches high, setter grade of leather. The soles and heels are made out of one piece of social light this. The soles and heels are made out of one piece of social light the soles and heels are made out of one piece of social light the soles. The soles and heels are made out of one piece of social light the soles and heels are made out of one piece of social light the soles. Soles soles high, error grade of leather, as water the batters from we ring out. Kivets easily replaced made out of one piece of social light the soles and heels are mode of the soles and rever the shoes in good repair for at leash the soles. It inches high, error grade of leather. The soles and heels do the steel bit small rivets of sole and remain (bit of the soles of mater the soles are made of the soles of maker the soles are of made with adjusted by the soles of made of the soles of mater the soles are of made of the soles of maker the soles are of made. The sole of the soles of the soles of made of the soles of mater the soles are of made of the soles of mater the soles of the soles of mater the soles of the soles. Sole per pair. The soles are of made with adjusted by the soles of mater the soles of the sol

Send for Book, "The Sole of Steel," or order Steel Shoes direct from this ad.

For Men—Sizes 5 to 12

000 And Your Money Back Promptly if It Looks Better Than the Shoes! You owe it to yourself to investigate. (at a pair of Steel Shoes for Free Examination be sending the price, which will be returned if you and your own feet are not convinced of their merits. For Boys-Sizes 1 to 5

You Actually Save

\$5 to \$10 a Year

by wearing Steel Shors. Figure it out for yourself. One pair will cuthat 3 to 6 pairs of ordinary work show. They save all repair bills and keep your feet in perfect condition.

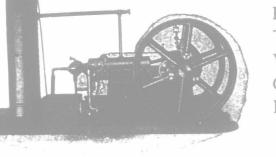
Free Examination

Good for the Feet! Good for the Health Good for the Bank Account!

ess shoes are better for the fest, better for the head? The better for the pocketbook than heavy work shoes or rubber boots,

FOUNDED





00000000000 FREE!



GASOLINE

15% TO 40 HORSE-POWER.

Pumps, Tanks, Water Boxes.

Etc., Etc.

Goold, Shapley & Muir Co., Limited



1802

Cream Separator

Buyers

TAKE NOTICE

You know that the Babcock tester -used the world over for testing skimmed mitk-con-tains neither disks nor other contraptions. Since the Babcock tester does not need inside contrap-tions, it is plain that a properly built cream sepa-rator does not need them.

Sharples Dairy Tubular

Cream Separators

are the only separators free from disks and other contraptions. The only simple - the only properly built separators. The World's Best, Produce twice the skimming force of

THE SHARPLES SEPARATOR CO.,

With An

All

Sizes

This simple, light running mill makes more and better lumber with less power and less help than any other. You can set up and operate any American mill with the directions before you. If you have no timber, your neighbors have. Don't let your engine lie idle.

124-Page Book, Free

Containing valuable suggestions about the care of saws, fully describing the fea-tures that make our mills best, giving prices and guaranty and full information about our Wood Saws, Shingle Ma-chines and other wood working ma-chinery. Write for book today.

American Saw Mill Machinery Co.

113 Hope St., Hackettstown, N. 1564 Terminal Buildings, New York

TORONTO, ONT.

Make

Big Money

Ťhis

Winter

common separators and proved by the Babcock tester to skim twice as clean. The saving Tubu-lars thus make you isclear

profit youcannot get any other way.

Tubulars are guaranteed

Tubulars are guaranteed forever. Waste notime with common, complicated separators. You will want a Tubular until you have one-so why not get it in the first place. The manufacture of Tubulars is one of Ganada's leading indus-tries. We made the first separators man uf fac-tured on this continent andhavebeen at the busi-ness thirty years. Write for illustrated catalog No. 193 telling all about Tubu-lars.

WINNIPEG, MAN.

lars.

American

Saw

Mill

58 Welli

NOVEMBER 17, 1910

PLOW TWO FURROWS-NOT ONE WORK THREE HORSES-NOT FOUR PAY ONE MAN-NOT TWO

That's the Way to Make Your Farm Pay Big Profits

Kid Kangaroo

WE have sold many thousands of these plows and we have yet to hear of a single complaint from any buyer.

The Kid Kangaroo is fitted with our new patent straightener device which is very convenient for controlling the plow. It is fitted with special soft-centre crucible steel moldboards that will clean in any soil. Frames can be adjusted for wide or narrow furrows. We can furnish either wide or narrow bottoms, rolling colters, jointer or knife colters as desired. Three horses can easily draw this plow in the heaviest land.

Where Cockshutt Plows are Made



NO farmer should be without a Cockshutt Catalogue. It describes and illustrates a large range of implements which have revolutionized farming - made it profitable—put the farmer's work on a scientific business-like basis, ensuring him of a good income in return for his labor, time and money.

HIS plow combines great strength, durability and remarkable light draft. It has been carefully and thoroughly tested, and will do perfect work. The frame is built to combine strength with the least weight. A special feature of this plow is the adjustable frame. By unloosening two bolts and two set-screws, it can be adjusted to any width from 7 to 10 inches, within a few minutes. It has our new fine adjustment ratchets for gauging the depth of the furrows. Levers are conveniently placed and are easy to operate. The wheels are absolutely dustproof -straightener device can be fitted to plow

Maple Leaf

1803

when called for. This plow can be handled by two horses, yet is quite strong enough to stand the strain of three. Can be fitted with wide or narrow bottoms, rolling colter, knife colter or jointer. This is, without doubt, the most popular two furrow plow manufactured.

depth and width of furrow, thereby insuring good work. Can be fitted with wide or narrow bottoms suitable to the soil-also rolling colters, knife colters or jointers. It is also shipped with three horse trees, tongue and neck yoke. We cannot recommend this plow too strongly to farmers who want good work done quickly and cheaply. The great demand we have for the Beaver Gang is proof of its efficiency.

NOTE the position of the wheels of this plow. The front wheel is fitted with spring attachment and not being directly opposite, permits the plow following the unevenness of the ground and yet keeping an even depth of furrow. The levers, being to the right of the operator, enable him to easily adjust the plow to the necessary



You can get a Cockshutt Catalogue free by simply writing for it on a postcard COMPANY LIMITED BRANTFOR



FOUNDED 1860



1804

Largest makers of Pianos, Organs and 2 Playerpianos in Canada.

TRAIN FOR BUSIVESS !

We give you at your own home a thor-oughly practical course in Bookkeeping and Business Practice. This teaches you not only how to keep an ordinary set of books (single and double entry, joint-stock com-panies' special journal and cash book, etc.), but also instructs you in the proper forms of business papers and in business methods.

In addition to this, our Commercial course trains you to calculate rapidly and correctly, to write a concise, bright business letter; teaches you a good legible style of perman-ship, and gives a full grasp of the principles of commercial law as applied to everyday business. In short, it fits you for a business position. Complete outfit and supplies free of charge. Write now for full particulars, ORRESPONDENCE OLLEGE

Ready enasco Roofing

is honestly made of Trinidad Lake asphalt-the perfect natural waterproofer that everybody knows about. It doesn't crack, rust, rot, or go to pieces. It gives lasting protection to all your buildings

The Kant-leak Kleet makes application doubly easy. Saves time. Makes seams absolutely water-tight without cement and large-headed nails. Gives fine finish. Supplied in rolls of Genasco when you ask for it.

Gives fine finish. Supplied in rons of Genasco when you ask for it.
 Mineral or smooth surface. Don't be misled by the similar surface of other roofings.
 Time t lls the tale. Ask your dealer for Genasco. Look for the trade mark-your real guarantee. Highest award, Seattle, 1909. Write for the Good Roof Guide Book and samples.

THE BARBER ASPHALT PAVING COMPANY Largest producers of aspir dt and Eargest inaduracturer son re (ay cooling in the

Philadelphia. New York. San Francisco. Chicago. Roofer's Supply Co., Ltd., Bay and Lake Sts., Toronto. D. H. Howden & Co., Ltd., 200 York St., London, Ont. J. L. Lachance, Ltd., Quebec.

Cross-section, Genasco Stone-surface Ready-Roofing

Trinidad Lake Asphalt Asphalt-saturated Wool Felt Asphalt-saturated Wool Felt

POLES OF STERLING QUALITY Michigan White Cedar W. C. STERLING & SON COMPANY Oldest Cedar Pole Firm in Business Producers for 30 Years MONROE, MICHIGAN

write to

1910

DONALD SUTHFRLAND, Director of Colonization, Parliament Buildings, Toronto, Ont.

> The HON. J. S. DUFF, Minister of Agriculture.

YE HAVE farms of all sizes, suitable for all kinds of farming, in every county in Western Ontario. We have a number of farms to exchange for larger or smaller farms, or for City or Town prop-erty. Write, call or telephone us for our catalogue, and you will receive same. The Western Real-estate Exchange, Ltd., 78 Dundas Street, London, Ont. Telephone 696.

Catalogues of this long-established school will be sent to any address upon request. Forest City Business and Shorthand College London, Ontarlo. J. W. WESTFRVELT, JR., C.A., J. W. WESTERVELT, VICE-PRINCIPAL PRINCIPAL.

When Writing Mention The Advocate



MakeYOUR OWN Will No lawyer necessary. With Bax's Correct Will Form you can make your own will as perfectly legal and binding

DEPT, E., TORONTO, CANADA

Save Costly Law Fees

as any lawyer. Insures privacy and maves the usual \$5 or \$10 fec. Send 3c, stamps or coin, for complete Will Form, also specimen Will, with full instructions, postpaid. BAX'S WILL FORM COMPANY 125C Howland Ave., Toronto

"Persevere and Succeed."

Vol. XLV

186

thin

on

ST '

ree.

Γ.

S.

en

igra-

ncies

olow

farm

hun-

land

ne to

e for

id by

ıt,

ay

Ont.

ER

o rail

great

e, and

ms of

and

ttlers,

EDITORIAL.

A thousand dollars a year will not purchase in the average Canadian city as good a living as many a family is enjoying on the farm.

bear upon these natural resources.-N. Dwight Hillis.

Beware of the disease called "little peach." Mr. Casar reports that Michigan growers consider it several times more destructive than partment of Agriculture had to deal with it from peach yellows.

All wealth is for the people. If a man takes out of the granary of society with one hand more than he puts back in with the other, through creative labor, he is a pauper.-N. Dwight

Cow-testing is the bed-rock foundation of real progress in milk production. Nothing in connection with the dairy industry is more satisfactory than the growing practice of keeping milk records, with periodical testing for butter-fat.

There is one good thing about the fencecorner plan of implement storage-a fire is not likely to burn the machinery all up at once. On slight chance in a well-located implement shed.

Land values on this continent are rising. In at least one section of the Illinois corn belt, we learn, there are no farms selling for less than power of an acre of good land.

'The Farmer's Advocate'' saved a good many of its readers several dollars apiece this summer forcement of the order. by refusing to publish the advertisement of an

REGISTERED IN ACCORDANCE WITH THE COPYRIGHT ACT OF 1873

and Home Magazine

Che Farmer's Mavocate

LONDON, ONTARIO, NOVEMBER 17, 1910

Rabies Not Yet Stamped Out.

Disturbing reports come to hand again of rabies outbreaks in Western Ontario. Inasmuch as the muzzling order, proclaimed early in February of this year by the joint authority of the Dominion and Provincial Governments, should, if faithfully observed and enforced, have been the The wealth of a nation is not in her natural means of stamping out ere this the dread conresources, but in the genius which she brings to tagion, attention may be properly directed to the lax manner in which the order has been executed and obeyed.

As intimated above, two separate Governments are concerned in the control of rabies. The Health of Animals Branch of the Dominion Dea veterinary point of view in so far as it affected or endangered the health of dogs and live stock, about one hundred head of which (other than dogs) had succumbed up to the date of the pas sage of the dog-muzzling order. The Provincial authorities were concerned in the disease from a still more important standpoint, namely, that of Public Health. Now, in order for the Dominion Department to properly enforce a muzzling order over the large area involved, it would have been necessary to employ a large force of special inspectors whose salary and expenses would have been an extra charge on the country; while, owing to the fact that the majority of them would be more or less new to their duty, it would likely, in some cases, have been rather inefficiently performed.

Under these circumstances, the co-operation of the whole, though, we would prefer to take this the Provincial authorities was solicited through Dr. Hodgetts, then Chief Health Officer for Ontario, who, with the full approval of the Provincial Secretary, undertook the passage and enforcement of an order identical in every way with that passed by the Dominion Department of Agri-\$200 an acre. We have scarcely begun to ap- culture. This arrangement was looked upon as preciate the producing capacity and earning eminently proper and satisfactory, especially as the Provincial authorities possessed their magistrates, city and town police, county constables and other machinery necessary for the proper en-

On February 9th, the Secretary of the Proegg-preservative until the article could be tested. vincial Board of Health sent out to local boards Nor is this by any means an isolated case. Tens within the 23 counties specified a copy of the Proof thousands of dollars' worth of advertising run- vincial order, reminding them that, under the provisions of Sec. 14 of the Public Health Act, annually declined by the publishers of this jour- it was the duty of the local Boards of Health to superintend and see to the execution of any regulations made by the Provincial Board. The at-Freer exchange of natural products has been tention of all municipal councils and Boards of mooted as a first basis of reciprocity negotia- Health, and police commissioners in cities of tions between Canada and United States. A 100,000 or more, was directed to the provisions be effected in this way-if the American farmers which empowered them to pass by-laws and to are willing. We must not, however, consent to make regulations as to dogs and the killing of the continued unrestricted export of those valu- the same. The hearty support and co-operation able natural resources of which Canada has a of all municipalities was confidently bespoken. measurable monopoly, such as pulpwood and cer- Thus, we had a joint Federal and Provincial tain forms of minerals. These should be manu- order, not any too popular among dog-owners, However, thanks to the alarm of many outbreaks and a horrible human death by rables, the machinery of the law, after being rather tardily and unregularly started into action, worked fairly og muzzling order completely effective. Every well for a time, and a marked diminution in the evasion provides a loophole for contagion to cases of rabies—and, incidentally, in the number spread. It is a poor friend of the dog who will, of dogs-was soon noticeable. As alarm subby laxity in compliance, prolong his necessary sided, the municipal authorities became lax, while eriod of restraint and extend the danger of his dog owners, many of whom were never any too not seeing the nodules, it had not become a vivid ving from such a horrible disease. Let us, as punctifious about observing the order, became inonorable citizens, comply with beneficent regula- creasingly neglectful. In many cases the rural teleons, and thus stamp out the contagion which phone was used to warn a whole neighborhood of had penetrated, and, after excavating quite a the approach of the dog-catcher in his automo- large hole, were content to cut the taproot of bile, so that muzzles which had been hanging at 21 inches below the surface. Both men were

around unused would be quickly brought into requisition, until the danger (of being fined) had passed, when Fido would again be allowed the liberty of his jaws. The Provincial Board of Health, when it would hear of municipalities that were not enforcing the regulations as required, would continually communicate with them urging compliance. Other than this, we have heard of no pressure brought to bear to insure the thorough enforcement of the order, which in many localities has practically become a dead letter. Indeed, in the City of London, a police magistrate refused to impose a fine, on the ground that the owners of the dogs had been misled by the public prints to think the order had expired. Subsequently, the City Council, in its omniscience, repealed the by-law.

Had the muzzling order been properly and effectively enforced throughout the whole of the affected area, Dr. Rutherford, the efficient Dominion Veterinary Director-General, declares that the disease would long ago have completely disappeared. As matters stand, an occasional case is from time to time reported, and it would almost appear as if the Dominion Department would be obliged to amend its policy somewhat, and pass local muzzling orders, trusting to the intelligence and common sense of the communities interested to assist in their proper enforcement.

It must, of course, be distinctly understood that it is the Dominion Department of Agriculture that is enforcing the order prohibiting the removal of dogs from the infected area, a number of persons having been heavily fined for infractions of this regulation.

How to Improve Rural Education.

Before the Royal Commission on Industrial Training and Technical Education we told an experience which we think illustrates well the manner in which rural education could be advantageously related to agriculture.

Visiting, not long since, at the homes of a couple of middle-aged farmers who have been trying alfalfa, one of the editors of "The Farmer's Advocate," walking across the new-seeded meadow in company with the two men and their three sons, age four, six and nine years, respectively, asked for a spade, and began digging down to examine the roots, which were found rather plentifully supplied with nodules. Not altogether to his surprise, it proved that neither of the two men had ever seen the nodules before, although they had been reading agricultural journals to some extent, and one of them had acted upon a friend's suggestion to inoculate some of his seed with nitro-culture. Neither had they ever seen the nodules on clover roots, though all that anyone need do to find them is to take up a clover root carefully, so as to avoid stripping them off. Of course, the journalist explained how, within these little nodules, varying in size from a pin-head to a pea, dwell the microscopic bacteria which take up from the air, circulating through the soil, the gas called nitrogen, and, after using it in their own life processes, pass it on to the plants, to be built up in their tissues; and how that in this way the clovers, alfalfa, peas and other legumes capture from the atmosphere many dollars' worth per acre of this nitrogen, which, if purchased in the form of commercial fertilizers, would cost 16 to 18 cents a pound. No doubt they had read this before, but,

No. 947

Established 1866.

ament

sizes. farm-Westper of mallprop-us for state treet,

1

ol will be d College STERVELT, ICIPAL.

lvocate

very substantial measure of tariff easement may of Sec. 540 of the Consolidated Municipal Act, factured at home, or, if exported in raw form, left to municipal execution. hound be subject to an export duty

The moral of the rabies situation is that therbreatens the health and safety not only of dogs. of other animals and of human beings.

Then we dug down to see how deep the roots

THE FARMER'S ADVOCATE AND HOME MAGAZINE.

1806

THE LEADING AGRICULTURAL JOURNAL IN THE DOMINION.

PUBLISHED WEEKLY BY THE WILLIAM WELD COMPANY (LIMITED)

IOHN WELD, MANAGER

SOURCE FOR THE FARMER'S ADVOCATE AND HOME JOURNAL, WINNIPEG, MAN.

- THE FARMER'S ADVOCATE AND HOME MAGAZINE is published every Thursday
- is published every individual. It is impartial and independent of all cliques or parties, handsomely illustrated with original engravings, and furnishes the most practical, reliable and profitable information for farmers, dairy-men, gardeners, stockmen and home-makers, of any publication in Canada.
- In Canada,
 TERMS OF SUBSCRIPTION.—In Canada, England, Ireland, Scotland, Newfoundland and New Zealand, \$1.50 per year, in advance; \$a.00 per year when not paid in advance. United States, \$a.50 per year; all other countries 125.; in advance.
- States, \$a.go per year; all other countries 125.; in advance.
 ADVERTISING RATES.—Single insertion, a5 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 maid and their paper ordered to be
- sible until all arrearages are paid and their paper ordered to be discontinued.
- REMITTANCES should be made direct to us, either by Money Order or Registered Letter, which will be at our risk. When made otherwise we will not be responsible.
- *. THE DATE ON YOUR LABEL shows to what time your subscription is paid.
- ANONYMOUS communications will receive no attention. In every case the FULL NAME and POST-OFFICE ADDRESS MUST BE GIVEN.
- WHEN A REPLY BY MAIL IS REQUIRED to Urgent Veterinary or Legal Enquiries, \$1 must be enclosed.
- LETTERS intended for publication should be written on one side of the paper only.
 CHANGE OF ADDRESS.—Subscribers when ordering a change of address should give the old as well as the new P.O. address.
- of address should give the old as well as the new 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 ten cents per inch printed matter. Criticisms of Articles, Suggestions How 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 in our columns. Rejected matter will be returned on receipt of postage.
- 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

astonished. Probably they had read about the length of alfalfa roots, but, again, it was not a reality. When, however, one digs up a root, every inch being harder to dig than the one above it, the impression of depth becomes very graphic and lasting. "I'm going to subsoil my whole farm with alfalfa roots," said one. It is safe to say both men will make larger and more intelligent use of legumes than they have ever done before.

Best of all, the boys shared their father's interest. The young " codgers " were all eyes and ears. Picking around in the earth, they discovered the nodules almost more quickly and eagerly than their elders. "Well," said one of the fathers to his elder son, "you know more about alfalfa roots now than I ever did." And there was no doubt he spoke truly. Those boys have received an impression they will never forget. Legumes, as nitrogen-gatherers, will no longer be an abstract idea to them. They have seen for themselves. It will not take them half a lifetime to appreciate the value of alfalfa and clover. Now, that is the kind of thing that should be taught and illustrated in our public schools, not as a separate subject, but woven into the warp and woof of the curriculum. The value of the soil mulch in conserving moisture, how seeds germinate, the composition of milk, and any number of other important practical points can be most interestingly explained and illustrated before the child's mind. Our school-teaching has been too abstract for maximum efficiency from a pedagogical standpoint. There is nothing like actualities, and especially living things, to interest a shild. Let the juvenile mind study, for instance, the germinating seed, and, as the embryo plant unfolds, the child's mind will unfold with it in the most natural way. Thus shall we educate our youth along lines that will be continued into old age, conducing not only to educational efficiency, but to the training of an alert, informed, masterful people, who will raise the plane of agriculture, the plane of industry, and the plane of character and citizenship.

A Study of Corn.

Mrs. Anna E. McGovern, of Cedar Falls, Iowa, in a late issue of the Journal of Education, has given an illustrative lesson on corn, intended for use in schools where there is more or less teaching of the elements of agriculture. Some of the questions may possibly set the older folks to At all events, they indicate how thinking, also. fruitful of suggestion the study of some common plants may be made

1. What kind of roots has the corn?

2. How far do the roots extend into the ground ?

3. Study the brace-roots found an inch or more above the ground. Of what use are these to the plant?

- What is the work of the roots? 4.
- What is the height of the corn plant? 5.
- How many joints on a stalk? 6.

Are the joints the same distance apart throughout the entire length of the stalk? 8. Does the stalk break more easily at or

between the joints?

9. What is the work of the stalk?

10. Have you any reason for thinking that

the corn belongs to the grass family ' 11. Where do the bases of the leaves clasp

the stalk ? 12. How does this arrangement benefit the

corn stalk?

13. Find the growth (rain guard) at the base of the leaf that prevents the rain from flowing down between the stalk and the clasping leaf. If water should get in between the leaf and the stem, how might it injure the plant?

What is the work of the leaf?

What kind of flowers has the corn plant? What would be the result if the tassels were cut off as soon as they were formed ?

Is there a thread of silk for each kernel? How are the ears arranged on the stalk ? 18

19. What is the difference between the outer and the inner husk?

20. What birds frequent cornfields?

How long does it take corn to mature?

What are the enemies of the corn plant?

23. Why are pumpkins not planted in corn fields as commonly as they were in former times?

School Corn Fairs in Kent.

THE CHATHAM TOWNSHIP CORN FAIR. Editor "The Farmer's Advocate

One of the ways the Ontario Corn-growers' Association are taking to arouse farmers in Ontario to the importance of the corn crop and the chance for the improvement of the same, is the School Township Corn Fair. The idea is by offering prizes to the school children for different varieties of corn, to get the parents interested. When the children come home from school and tell about the prizes they can win by exhibiting corn at the fair, the father and older brothers get interested, and in most cases it is their selection of corn that goes to the fair to be judged. Farmers who would hesitate a long while to show corn at the Ontario Corn-growers' Exhibition, would not hesitate to let their corn be shown by their children

I believe that the idea of giving prizes for a type of corn which the Corn-growers' Association approve of to be the very best way in which to improve the crop on the whole. It will not only improve the crop of those who have shown corn competition and won a prize or those who have shown corn and failed, but have, by so doing, gained better knowledge of what a good ear of corn should be like, but it will also improve the crop of these contestants' neighbors; for what farmer would be satisfied to grow year after year a strain of corn inferior to that of his neigh-The work that the Corn-growers' Association are doing in Ontario, especially in Kent and Essex, is filling a want that has been for years neglected. The corn crop in Ontario for years had been planted and cultivated in a more or less indifferent manner, farmers in most cases going to the crib in the spring of the year to se lect seed, in some cases doing it with a scoopshovel. To-day, in certain localities, certain individuals are producing a strain of corn which would compare favorably with anything produced in the corn belt in the United States. direct result of the work which the Corn-growers' Association are doing. Last year there were two School Corn Fairs held in Kent, one at S. S. No. 5, Raleigh, and the other at S. S. No. 2, Chatham. They were held as sort of experiments, and passed the expectations of the Association, with the result that this year they are being held in each township in Kent and Essex. The fair in Chatham Township was held in the township hall. It was organized some three weeks before it was held. \boldsymbol{A} president, a secretary treasurer and a board of directors were elected. Money was freely subscribed to meet expenses. The fair was held October 29th, and, considering the kind of weather, there was a remarkably large crowd of FOUNDED 1866

NO

people present. A programme of sports was run off while the corn was being judged. The judges for the corn were J. O. Duke, President Corngrowers' Association, and A. McKenny, B. S. A. Secretary Corn-growers' Association. The first prize for best five ears Yellow Dent was won by Gordon Cummings, S. S. No. 6, North. First prize for best five ears White Dent was won by Gertrude Lamb, S. S. No. 6. Best five ears 12-rowed Flint-1, Jean Stark, S. S. No. 6, South. Best five ears 8-rowed Flint-1, S. S. Shaw. S. No. 8. Best five ears, any variety-1, T. J Shaw, S. S. No. 8.

In the evening, an open corn discussion was held. Mr. McKenney and Mr. Duke gave some very valuable suggestions in connection with R. H. ABRAHAM. seed-corn selection.

Kent Co., Ont.

HORSES

Progeny is supposed to represent the prototype of ancestors. An ill-proportioned horse re flects the attributes of progenitors. * * *

Temperament has a commercial value in the horse breeding industry. Farmers should breed for reliable dispositions, as well as soundness and symmetrical conformation, if they expect to realize top market prices for their horses.

Sires should be perfect in qualities in which dams are deficient. If the mare is undersized, she should be stinted to a sire that possesses representative or average size of his class. Two undersized animals mated are almost certain to produce undersized progeny

* * *

There is just one way of being even tolerably sure of raising sound colts, and that is by using sound sires and sound dams. Saving five or ten dollars on the service fee by patronizing an inferior or unsound stallion, makes most other forms of horse-breeding follies look like the proverbs of Solomon.

Soundness should always be insisted on in purchasing a horse. One can usually buy an un-sound horse much more cheaply than a sound one, but such practice is often poor economy. The horse that is sound is ready for a full day's work every day; the unsound horse seldom, if ever, can do his full quota, and is a source of discomfort and annoyance to his driver.

* * *

The breeder should not anticipate miracles in the laws of breeding, but rather anticipate their ordinary operation along the lines that "like produces like." When fillies attain the age to be relegated to the stud, the farmer should carefully weed out such as possess any marked imperfections, and breed only such fillies as show supe rior attributes of soundness and conformation.

* * *

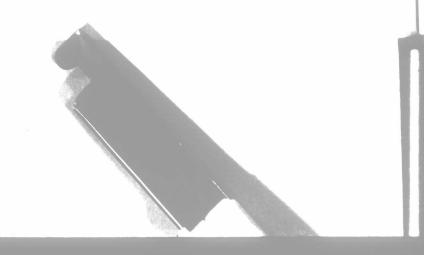
Horses sleep but little-usually three to four hours in the twenty-four. Consequently, whatever can be, should be done to make them comfortable. Narrow stalls, insufficient bedding, stiffened joints on arising, all discourage the horse from lying down as much as he should, and some from lying down at all. should be remedied. Stalls should be wide and well bedded.

The care of the legs is really of more importance than the care of the body. They are subjected to sever concussion and strain, often covered with mud, and in the winter, ice, or soaked with water all day. These conditions are bound to injure the legs in time. While, in regard to the body, the use of a blanket largely displaces grooming, with the legs nothing can dispense with that care.

Danger of injury to the limbs, as well as discomfort, result from allowing a horse to remain all night with damp legs, covered with mud, in drafty stables. Wherever straw is used for bedding, one of the very best possible materials is at hand for cleaning and invigorating the legs. A willing groom, with a wisp of clean straw in each hand, is all that is necessary for putting the legs in excellent condition after a day's work in the mud and wet. A wisp of coarse pea straw, twisted, is even more effective in cleaning the legs than the straw of wheat or rye.

* * *

The mare in foal should never be overworked or fatigued, particularly under saddle or on uneven ground, or put to unsuitable work. Exercise throughout the whole period of gestation is beneficial- in fact, necessary--to both mother and offspring, and unless moderate work of a suitable character can be provided, concerning which there is rarely any difficulty with the heavy breeds on



ED 1Soci

was run e judges t Corn-S. A. The first won by First won by ears 12-South. haw. S. 1, T. J

on was ve some n with HAM

protonorse re

e in the ld breed ness and pect to

n which dersized. OOSSesses s. Two rtain to

tolerably by using e or ten g an inst other he prov

on in y an un-1 sound my. The ill day's ldom, if ource of

racles in ate their like pro-e to be carefully imperfec-ow supe-ation.

to four y, what em com bedding age the ould, and onditions

NOVEMBER 17, 1910



Cadet [1600] (66914).

Percheron stallion. Winner of first prize, and championship as best stallion any age, at Western Fair, London, 1910. Owned and exhibited by R. Hamilton & Son, Simcoe, Ont. Sold to Ed. Blayney, Ed. Meredith and Clayton Hunter, Lynville, Ont.

the farm, the mare should run out to grass, so that she gets sufficient exercise in searching for food. The difficulty is in finding suitable occupation for lighter mares. It is not desirable that they should carry a saddle, be trotted on hard roads, or do any work causing fatigue on account of either pace or distance.

Horse Improvement.

Editor "The Farmer's Advocate'

Much improvement of late has been marked in the breeding and development of the Orloffs, by reason of the encouragement given them by the Government of that country, who have inaugurated a policy which has proved very efficacious in the improvement of the breed, and which the breeders of that country have availed themselves of to a very large extent.

Government aid goes hand in hand with such conditions that no unsound animal is permitted to be bred, and carries with it a severe penalty in the case of any violation of the same. All owners of stallions of this breed are required to take out a license, which can only be obtained by a proper examination by competent veterinarians, who issue the required certificate, before the owner can put the animal to stud service.

This I consider a very wise law, as it promotes among breeders a strong desire to have only sound animals. It marks a strong contrast with the breeders of this country, who are permitted much latitude in using animals for breeding purposes, irrespective of soundness, substantiate my con-which is the means of filling the country with a clusions, although

ot of useless cripples. should be advo

THE FARMER'S ADVOCATE.

grain or part of the ration, should at once be reduced by one-third, and the normal allowance should not again be given until the work is resumed. Carriage horses are usually overfed, because of the desire of the owner to keep them in the pink of condition. This overfeeding and irregular exercise is the cause of most of the ills of the driving horse. Oats leads easily among the When it is fed, the horse exhibits mettle as from no other food. If at any time the animal should seem constipated, a bran mash should be given. While a certain amount of roughness must be fed to give bulk or volume to the ration, in order that the digestive functions may be properly maintained, yet we must remember that a large abdomen cannot be tolerated in a carriage horse. Another factor that the feeder of this class of horses must ever

be on his guard against is the feeding of laxative foods, such as clover or alfalfa hay or bran, in too large quantities, for, when the horses are put on the road and warmed up, they will prove very draining on the system, as well as disagreeable to the driver. Style and action are prerequisites, while economy in feeding standards, and oftentimes the health of the animal, are held but sec-

Breed-study Contest.

Twelve opinions have been received concerning the breed of the gray horse illustrated on page 1699 of "The Farmer's Advocate" of October 27th. Five classed him as an Arab or an Arabian, two as a Standard-bred, two as a Coach horse, one as a Thoroughbred, and only two as a Hackney, which, in fact, he is. The prize has been awarded to S. D. Harding, Ontario Agricultural College, Guelph, whose reasons given are as

"In examining the illustration in the Breedfollows study Contest of your paper dated October 27th, 1910, I concluded that it must be a representative of the Hackney breed. A gray Hackney, as far as the breed is known in America, is not often, if ever, seen; but in some parts of England it is to be seen, and, at the "Gray Stud,"

Findon, Sussex, a fully registered stud of nothing but gray Hackneys and Arabs may be viewed. To resented with a long tage as we are in the habit of seeing the Hackney in our show-rings, yet he shows more of that general type than of any other breed that I know of, in generappearance, a al horse showing good quality, with a stronger, heavier conformation than you would look for in the Arab, Thoroughbred, Standard bred, or the American saddler, and yet not sufficiently heavy and high enough to class with the Cleve land Bays. French or German Coach · His good bone and exceptionally strong joints, name Iv. the hock and knee, with fairly short cannons, are all very typical of the breed

Very strong, well-muscled quarters; croup short and very level; a short, strong back, full heartgirth; good body, being close-ribbed; an oblique, well-muscled shoulder, with an exceptionally strong forearm—all follow very closely the Hackney lines. A head with strong, characteristic jaws; a full. active eye, surmounted by two typically-set ears, is carried sufficiently high on a strong, well-muscled neck to indicate that an overcheck would be out of the question."

The horse is named Findon Grey Shales (H. S. B., Vol. 28). Sire, Walpole Shales 7193, dam Mirabell, by Cadet 6483, by Cook's Cadet, sold for 3,000 gs.

The Horse's Feet.

While few capable judges become so imbued with the importance of good feet on a draft horse that they disregard the many other vitally important points, yet none can disregard the feet and expect to be called capable horsemen. Condition conceals a multitude of grievous defects in many horses, but the feet and legs, though subject to temporary corrections by shrewd practitioners, admit of much less "doctoring " than do the other parts of the animal. They stand out clearly defined, uncovered by fat or other fixing, representing the naked truth about themselves. It is, therefore, really easier for a man to observe accurately, and, consequently, to judge of the feet and legs of a horse than it is of the body, wind or constitution. Yet, one commonly sees breeders, in looking over a horse, studying the body, neck, chest and rump, perhaps observing the feet and legs, but not feeling as competent to form an opinion concerning them as of those other points.

Shape, size, quality and placement are the four chief factors whose standards are used in examining the feet. While these terms have a similar significance for both light and heavy horses, they are found to vary greatly in all these factors, but, since draft horses are of widest distribution, ideal feet for them will be considered here.

The horn of the wall, sole and frog should be thick, hard and tough, so as to resist in an efficient manner the effects of impact and wear. When the horn of the wall and sole is weak, it cannot support the weight, and the foot will have a tendency to become flat. The horn should be dense and elastic in its structure, being ebonylike. It is noticeable that the density, strength and shape of the foot is affected by moisture conditions; horses that are reared in dry latitudes invariably have the denser, tougher, stronger hoofs.

The feet should be of good size, and open at the hoof-heads. Viewed from the side, the wall of the front feet should form an angle of about 45 degrees with the ground, while the hind foot is somewhat steeper, and should form an angle of about 55 degrees. The surface should be free from wrinkles, ridges or cracks. Most horses' feet will show slight concentric rings, but these should never be marked or uneven. The depths of the wall at the heel, side and toe should be as 1, 2 and 3 in relation to each



vide and

e impor are sub ften cov or soaked re bound egard to displaces dispense

ll as diso remain mud, in for bed-terials is the legs. straw in putting y's work arse pea cleaning

14

erworked r on unk. Exer-tation is other and suitable nich there reeds on

cated in this country, and many advantages in tail, and not shown the breeding of animals of all classes of breeds to the same advanwould invariably be the result. Halifax Co., N. S.

Feeding the Driver.

There is more general knowledge about feeding the draft horse amongst farmers than there is concerning the proper method of feeding a driver. Bulletin 48 of the Cornell Reading Course discusses this subject in the subjoined paragraphs. One suggestion given, that of reducing the feed when a horse is to be idle, may be a little difficult to reconcile in some instances with the warning good horsemen offer against giving an idle horse extra feed the day he is taken out for a hard drive. How to feed the irregularly-driven road ster is, indeed, a problem requiring judgment and sometimes compromise.

The driving or carriage horse is more difficult to keep in condition than the work horse. The periods of enforced idleness occasioned by lack of business engagements of his master or by in-clement weather, are often followed by long trues and hours of over-exertion. This irregular ork weakens the constitution of the driving se, which generally has but a brief career. When daily driving cannot be practiced, undering is considered the safe course

In feeding this class of horses, the same gen plan that has been suggested for the work should be followed. When the horse is not on from the stable during the day, the con

Breed-study Contest.

What breed is thus horse τ . For the best answer to this question, giving reasons, to be in our office by November 26th, a one-dollar book prize will be awarded. Same conditions as before.

other. The heels should be wide, and of good depth. In draft horses, too frequently, shallowness at the heels is characteristic.

1808

The front foot should be almost circular in shape, but the hind foot is narrow, and longer from front to rear. The hind foot is also deeper at the heel, and less open at the hoof-head, being adapted for propulsion, while the front foot must withstand much concussion. The sole should be slightly concave, the frog large, healthy and elastic, free from a deep cleft, and the bars should be strong. Feet that are small, brittle, flat in

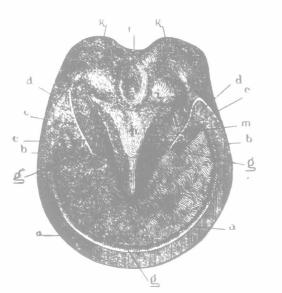


Fig. 1.—Ground surface of a right fore hoof of the regular form : a,a., wall: a-a, the toe; a-b, the side walls; b-d, the quarters; c.c. the bars; d,d, the buttresses; e, lateral cleft of the frog; f, body of the sole; g,g', g'', leafy layer (white line) of the toe and bars; h, body of the frog; i,i, branches of the frog; k,k, horny bulbs of the heels; l, middle cleft of the frog.

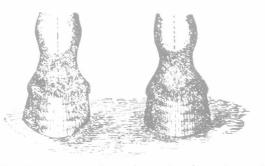
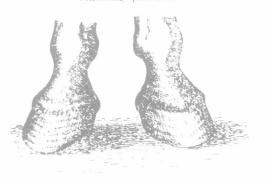


Fig. 2.-Pair of fore feet of regular form in regular standing position



ig. 3 Pair of fore feet of base-wide form in toe-wide

sole, shallow of heel, spongy and weak, are always to be avoided.

The placement of the feet in relation to the axis of the leg is never a negligible factor. That plane which divides the normally-set leg into interior and exterior halves, also similarly divides the foot. The deviations from this give "toewide " when more than one-half the foot falls outside of the dividing plane, and "toe-narrow when more than one-half the foot falls on the inside of this dividing plane. A horse that stands toe-narrow throws his feet outwards when travelling, while one that is toe-wide brings them inwards, thus having a tendency to interfere if he is otherwise normal. Irregularities in the placement of the legs may accentuate the evils of these irregularly-placed feet. Thus, a horse may be closer than usual at the fetlocks, and still be toe-wide; such a horse is predestined to interfere badly

The executive officers of the States that have laws governing the licensing of stallions have formed an organization named the National Association of Stallion Registration Boards, with the object of unifying the laws of the various States, urging more careful supervision of horse registry associations, and encouraging the more general use of pure-bred, sound stallions by the farmers of the country.

LIVE STOCK.

The quickly-matured sheep makes the choicest mutton.

* * *

Improve your flock systematically. Careful selection and proper handling will produce a higher standard for wool and mutton.

A nice round body, pink skin, with a clean face, clear, bright wool, and sportive disposition, are good indications that the lambs are doing well.

Breed only to first-class rams, and remember that, while a sheep may be of the purest blood, its form and fleece may be so deficient as to render it unfit for breeding purposes.

Judging Pavilion Needed.

The Canadian National Exhibition stands in a class by itself amongst all the fairs held on the American continent. It has not the reputation of the Chicago International, yet in its scope is more varied than that show, covering, as it does, all breeds and classes of stock. It is larger, of longer duration and more widely representative than are the State Fairs of the adjacent Repubhc. Thus, the Toronto Exhibition stands by it self.

There is another respect in which the Toronto Exhibition is practically in a class by itself amongst the large fairs, and that is in its failure to make adequate provision for the judging of live stock. The Illinois State Fair executive have built an amphitheatre $225 \ge 325$ feet, with a tanbark oval in the center, and a seating capacity of 7,000, all under one roof, for \$65,000. This makes the judging possible, and more comfortable, in all kinds of weather, and gives the

people a chance to see forth cattle and horses the the same time, and be comfortable while doing so. For sheep and swine there is a smaller pavilion. The attendance at this fair in 1909 was about 300,000. Admissions in the day time were 50 cents for adults, and at night 25 cents.

something about horses and cattle may hang themselves, if they come early enough to get next the fence. It is true that seats are provided for probably seven or eight hundred, but the seating provided is scarce a beginning of what is needed; and they are roofed with canvas that may exclude the sun, but is scarcely rain-proof. Moreover, the glaring sun is uncomfortable for both stock and onlookers, while, when it rains, the show must stop.

The structure of the Art Building, and the proposed extensions thereto for next year, we appreciate, but there are a vast number of live stock artists who bring their works to the Fair year after year, with no adequate opportunity to display the results of their skill; and there are thousands of persons interested in their work who come to the fair to watch the judging of them, but have small opportunity to do so.

Some time ago, \$110,000 was voted by the directors for the erection of a live-stock judging pavilion at the Toronto Fair, but, for various reasons, it has not been expedient to execute the plans. The management again committed themselves to this plan during the recent exhibition, while the stockmen again urgently expressed their wishes in the matter.

The interests of these live-stock producers artists, if you choose—and the farmer-students who come to see and learn, but fail for the lack of a decent opportunity, we commend to the executive of the Toronto Exhibition. On behalf of the exhibitors, the attending farmers, the Toronto Fair, and Ontario live-stock and agricultural interests, let us hope these plans may soon be acted upon.

Contagious Abortion in Cows.

A committee of seven prominent men, including four eminent veterinarians, appointed by the president of the Board of Agriculture of Great Britain to inquire, by means of experimental investigation and otherwise, into the pathology and etiology of epizootic or contagious abortion in cattle and other stock, and to consider whether any, and, if any, what preventive and remedial measures may, with advantage, be adopted with respect to that disease, has published its first report. For the purpose of intimately studying the disease, it was necessary to start it and pass it from animal to animal in the laboratory. Unfortunately-from the farmer's point of view, at least-there was no dearth of material, and the Committee were able, without going far afield, to purchase animals in which the act of abortion was imminent, from herds in which they considered epizootic abortion had prevailed for some

A detailed description of the animals purchased, and found by post-mortem examination to be diseased, is given in the report, which is too length to be reproduced here. Through the sympathetic co-operation of the Board's Honorary Agricultural Correspondents, the Committee were put in touch with a large number of farmers in whose herds the disease prevailed, many of whom undertook, at the Committee's request, to forward material in the form of aborted fortuses fortal membranes from aborting cows, and cotton wool swahs containing the discharges from aborting animal: Post-mortem descriptions of cows obtained from infected herds in the field, and those experimentally infected at the laboratory are given in detail, in which it is seen that the appearances in both classes of animals were he method of examination adopted was to open the abdomen of the animal immediately after slaughter, ligature the neck of the uterus, cut the organ out, and take it to the laboratory for minute examination. In no case were lesions that could be connected with abortion found in any other organ than the uterus. A description typical of a cow's uterus when affected, and of the microbe of cattle abortion, is cows may be introduced into a clean herd, and be the means of establishing fresh centers when they abort; this is one of the most insidious ways in which abortion may be spread, for it is impossible for the ordinary individual to say whether a pregnant arimal is affected or not. Cows which have aborted must be considered sources of affection as long as the discharge continues to come from the genital organs, and it may continue intermittently for a few weeks if the animal be not treated. Such animals, if not isolated. may continue to infect the stables or the pasture Coming to the natural metbods of infection. there are two ways in which the virulent matetial may gain access to the pregnant uterus, viz. by the vagina, and by the mouth. A table in the report shows that, by introducing virulent material per vaginam, five positive and three negative results were obtained. Another table they that by ingestion (by the mouth), three to results were obtained against one nega-





Fig. 4.-Pair of fore feet of base-narrow form in tonarrow standing position



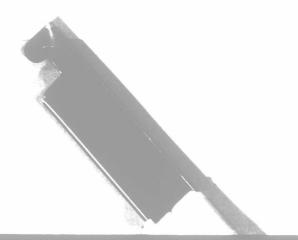
Fig. 5.—a, side view of an acute-angled fore foot (shod); b, side view of a regular fore foot, showing the most desirable degree of obliquity (45%) c, side view of a stumpy or "upright" fore foot, obliquity above 50°. In a.b.c, note particularly the relation between the length of the shoe and the overhanging of the heels. Note also the toe roll of the shoes Wisconsin has provided a similar pavilion for the judging of cattle and horses, and for the seatmg of the interested people.

Minnesota has an amphitheatre $350 \ge 250$ feet, costing \$110,000, built of brick, with cement finish, and a tile roof. This pavilion has a seating capacity of 7,500. The arena is $270 \ge 120$ feet, and allows for the judging of cattle and horses at the same time. With two large cities to draw from, the attendance at Minnesota Fair this year was about 330,000, and the admission is, as above, 50 cents and 25 cents.

The Iowa State Fair in 1902 built a pavilion $225 \ge 275$ feet, with an arena $120 \ge 175$ feet, and a seating capacity of 2,200, for \$45,000. Horses and cattle are judged in this pavilion, the morning being devoted to horses, and the afternoon to cattle. They have also steel-and-concrete hogpens, with accommodation for nearly 1,000 hogs, and a pavilion in which to judge them, furnished with ample scating. The attendance at this fair in 1910 was 235,000, with a 50 and 25 cent gate.

The Toronto Fair had in round numbers 800, 000 attendants in 1910, paying a 25 cent admission: thus, her receipts should exceed those of any of the above State fairs. Yet Toronto provides an open-air ring for the judging of both horses and cattle, surrounded by a picket fearwhereon farmers who have come to see and leave

We to not think it would be warrantable. The comparatively small number of experi-



ED 1865

ay hang get next ided for s seating s needed; may e_{λ} Morelor both ins, the

and the ', we apof live the Fair anity to there are vork who of them,

y the dijudging various ecute the ed themhibition, sed their

710

oducers— -students the lack On bemers, the lagriculnay soon

ows.

a, includby the of Great iental inology and rtion in whether remedial oted with s first restudying and pass ory. Unview, at and the afield, to abortion y considfor some

als purmination which is ough the Honorary ttee were armers in of whom to forfortuses, d cottonom aborts of cows field, and horatory, that the als were adopted eal immes of the t to the n no case ith aborne uterus, when afortion, is NOVEMBER 17, 1910

TOTEL 123 ENTLIKES. ATLA and internation Frank yor MI -----**A**

HE FARMERS ADVOCATE

- 199-1993 金融

1809

ed in-Calf d, and be when they s ways in is imposwhether a ows which es of afinues to may conhe animal isolated, he pasture

) (

infection. ent mateerus, viz.. table in virulent und three her table h), three one nega-

rrantable. of experi-



Provision for Stock Judging at Some Leading American State Fairs. Leper view : Live-stock judging pavilion at the Wisconsin Fair. Center view : The Coliseum, Illinois State Fair. Lower view : Live-stock Pavilion at the Iowa State Fair.

1810

THE FARMER'S ADVOCATE.

ments alone, to conclude that infection is more likely to follow when virulent material is swallowed than when it is introduced by the vagina With regard to infection by the mouth, however, it is a natural method of infection which until recently did not enter into anybody's calculations regarding the spread of abortion, and, knowing, as we do, that the food, including the pastures, and even the feeding trough, may more or less easily be contaminated on an infected establishment, it seems highly probable that infection by ingestion often takes place. In fact, we are inclined to believe that the disease is more frequently contracted in this way than in any Presumably, the bacilli are absorbed other. from the intestine, and gain the blood stream, whereby they reach the uterus. In the case of a ewe, the microbe of cattle abortion was found in the cotyledons six days after infection by the mouth.

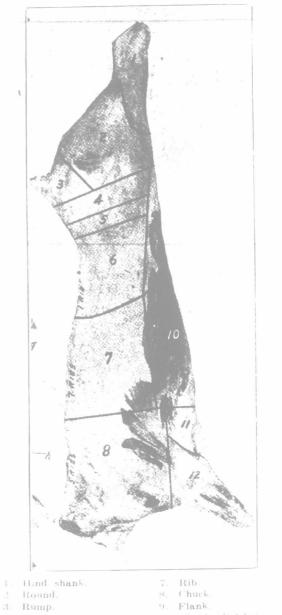
" Infection by the vagina has always been supposed to be the most frequent natural method partly because it is thought that the gutter, which in most cowsheds runs behind cows standing in line, often bring the discharges from an aborting cow in contact with the tails and external genital organs of her companions. In considering the relative importance of infection resulting from the more or less accidental admission of infected material from the floor or dirt of the cowshed, it must be borne in mind that even when discharges from an infected cow do reach the floor or become mixed with the excreta in the channel behind the cows, the chances must usually be against the bacilli gaining entrance to the genital passages, and that the number of bacilli which could be so admitted to the vulva or vagina under ordinary conditions must generally be small.

" In the experimental attempts to infect with natural virus by way of the vagina, three were followed by positive results, and three by negative, in spite of the fact that the material was deposited in enormous quantity right on and around the os uteri by means of a long tube.

INFECTION BY AGENCY OF THE BULL "This must be viewed as a special form of infection per vaginam, since it is supposed that the bull, by means of his penis, transfers the bacilli from the vagina of one cow to that of an-There are apriori reasons which compel other. one to admit that such an occurrence is possible, and there is a certain amount of circumstantial evidence to show that, in particular cases in actual practice, the disease has been spread in that We have scarcely been able to approach wav. this question from the experimental side, and for the following reasons: It is obvious that, in order to test the ability of a bull to transmit the disease, each experiment must be planned so that a diseased cow, with her genital passages still infected, and a healthy cow, shall be served in succession, and with only a short interval, by the same bull. But, owing to the moderate number of diseased and healthy animals at our disposal, we never had available for experiment a recentlyaborted cow and a healthy heifer which were both in ostrum on the same day. In one experiment of this kind, an interval of thirteen days elapsed between the service of the cow which had aborted and that of the healthy heifer; the result was negative, but little importance can be attached to the fact (1) because the interval between the services was too long, and (2) because a single experiment with a negative result carries very It has to be observed that, with little weight. the discovery that infection can readily be brought about by ingestion of virulent material, most of the circumstantial evidence which seemed to establish the bull as a factor of the first importance, admits of another and more probable interpretation. For example, it was held that, when heifers which had never been in the infected byres aborted at pasture, they must have been infected by the bull, but in such case we are now in a position to say that, if recently aborted cows have grazed on the pastures, the heifers may have been infected by swallowing grass or water contaminated by the discharge from the genitals of the former, or that virulent material may have been conveyed on artificial foodstuffs from the buildings. Without denying that the disease may sometimes be spread by coition, we think that nothing more than a quite subsidiary role in the spread of epizootic abor tion can now be assigned to the bull.

tenth week of treatment; abortion bacilli were found in the discharges. From the first, it seemed unlikely that carbolic acid, or any other disinfectant, administered even in a poisonous dose, would be absorbed and reach the uterus in a sufficiently concentrated form to have any action on its bacterial contents. There are many farmers who have had no success whatever in the field with the carbolic-acid treatment for abortion, and the evidence on which the alleged successes are based will hardly stand analysis. the first place, the animals put under the treatment are not known to be infected, and yet every one which does not abort is regarded as cured by the advocates of the method. In the second place, the treatment is usually adopted towards the end of an outbreak; that is to say, at a time when abortion is practically confined to a proportion of the animals recently brought into the herd, and the reduction in the number of cases is attributed to the alleged remedy, whereas it is more open to a totally different explanation, viz. that, after the third year, the disease practically confines itself to some of the new animals brought in, with the result that, since these form only a small proportion of the whole, the opportunities for infection are greatly diminished

The usual history of an outbreak of abortion is that for the first two or even three years it claims many victims in the original herd, and after this one gets only a few odd cases a year, unless many new animals have been introduced. This is owing to cows becoming immune, as a rule, after two, or, at most, three abortions."



As a preventive agent, by internal administra

tion, we believe carbolic acid to be useless. 4. Irrigation of the genital passages after abortion. Almost immediately after abortion and expulsion of the membranes, the uterus contracts, and its internal surfaces come into appu Its condition is such that it would not sition. be possible to force fluid into it with a pump from the vagina.

"5. The keeping of a special bull for cows which have aborted. We think there is some thing to be said in favor of this, and, when this is not possible, of disinfecting the external genital organ of the bull after he has served such cows.

The committee do not consider this, their first report, by any means exhaustive of the subject as their experiments so far have been but par tial, and the work will be continued on a more extensive scale, with the hope of making ad ditional discoveries.

Beef Cuts.

The regular cuts of meat as handled in most markets are : Loins, ribs, rounds, chucks, flanks, shanks and briskets or plates. Just where these cuts are taken from in the carcass of beef is readily seen from the accompanying illustration The loin is separated from the round at the hip joint; the flank is cut from about the middle of the thirteenth rib to the opposite lower corner of the loin. The shank is sawed off just below the second knuckle (or shoulder joint) ; the brisket is cut off on a line extending from the middle of the twelfth rib, through the point at which the shank is removed; the rib and chuck are separated between the fifth and sixth ribs.

These cuts are graded into No. 1, No. 2 and No. 3, according to the thickness, covering, quality and weight. Cuts that are too deficient in thickness and quality to be used in the retail trade, are made into boneless cuts, barreled beef. sausage, and such products. Thickness of lean Lean beef has a flesh is of prime importance. much higher market value than fat or bone. The depth of the flesh usually indicates the source of the beef, and affects the general appearance and shape of the cut. Covering or depth of fat is most essential in the more valuable cuts. The highest quality of lean can be secured only at the expense of a liberal amount of fat. Those who usually buy round or chuck steaks expect little fat, but those buying loin steaks expect a liberal amount. In second-class retail markets it is not uncommon to see ribs and loins, as well as the cheaper cuts, devoid of fat. Quality refers to the grain and firmness of the lean, the marbling (i.e., the distribution of the fat through the lean), and the proportion of bone and other waste in the cut. The grain of meat consists in its fineness of fibre and the smooth, velvety appearance of the cut surface, as opposed to stringiness or coarseness. Firmness indicates maturity in contradistinction to the washy appearance of The proper distribution of fat immaturity. through the lean greatly affects the tenderness, juiciness and flavor. In color, the fresh-cut sur face of lean meat should be a rich bright-red, and should turn brighter, rather than darker, after Ex exposure to the air at cool temperatures. posure in a warm atmosphere will produce a dark color on the surface of even the best beef. A very pale or pink tinge indicates immaturity The fat should be clear white; in the lower grades it varies from white to yellow.

These cuts grade in price in the following

FOUNDED 1866

CURATIVE MEASURES

" On account of a somewhat prevalent idea that carbolic acid given internally will cure and mals affected with abortion, or prevent the infection of healthy, pregnant animals, it was considered advisable to put this alleged remedy to an experimental test. A heifer was infected with virulent material 43 days after becoming pregnant, and 30 days after infection she received every other day two drachms of carbolic acid in a mash, by the mouth, alternated every fortnight by subcutaneous injections of one drachum in glycerine and water, given every other day. This treatment was continued for ten weeks aborted 102 days after infection, and in the

10 and 11. Brisket 4 and 5. Loin end.

In Canada, No 6 is known as the short loin

PREVENTION AND ERADICATION.

The methods which have been relied upon in the past for the presention of abortion and its eradication from a herd, are disposed of by the

the animals remain in an infected byre, and that it may be discarded. Immediately before remov ing an anumal from infected to clean premisehowever, we think it would be advisable to thor oughly wash the posterior portions of its body with a disinfectant solution, such as corrosivi sublimate. 1 in 2,000, or carbolic acid, 3 per

2. Isolation of annuals as soon as they show signs of abortion. Isolation of the in

Loins, ribs, rounds, chu flanks, shanks, and suet, the loin being the high-

Several different cuts of the loin are used extensively. The regular short loin is the portion between the thirteenth rib and the hip-bone, and contains from 45 to 55 per cent. of the full loin. It contains porterhouse or T-bone and club steaks. The remainder of the full loin is called the loin end, and is used for sirloin steaks. The tenderloin is a long muscle lying between the kidney fat and the backbone, extending from the tenderloins required to supply the trade are taken from No. 3 and stripper loins, and practically never from the better carcasses. Loins from which the tenderloin has been removed are called hotel trade, to be cut into small steaks.

The rib cut contains the best roasts. various grades of ribs differ in thickness, cover-No. 3 10

The cut surface of the full round being identical with the butt end of the corresponding loin. the conditions as to grain, marbling, covering and color at that point determine the grade in each Three wholesale cuts are made for fresh trace from rounds, viz., buttocks, rumps and shards. The buttock is wholly suited to cut as o del steaks, those nearest the rump being of The rump, when used fresh, is sold reap bett, or boneless rump, but is generally Lor corned beef. The hind shank consists of

reletence for loin and rib cuts renders it

NOVEMBER 17, 1910

1866

after

rtion

CON-

appo

l not

this enital

)WS

bject.

more

r ad

most anks, these ef_is

ation ne hip dle of

ner of w the ket is of the

shank

ed be-

and

qual-

nt in

retail

beef.

n**a**s a

The

ce of

e and

fat is

The at the

who little

iberal

is not s the

rs to

rbling

h the

ists in

y aptringiurity,

nce of of fat

erness,

it sur

d, and

after Exa dark

A

turity

lower

necessary to dispose of a large share of the lowergrade rounds otherwise than over the block as fresh cuts. For this purpose, they are stripped and made into beef hams, rump butts and sausage

meat. Nearly equal parts of the chuck are retailed as shoulder steaks and boiling pieces, and a roast may be cut from the last two or three ribs of a No. 1 chuck. In Canadian markets, the neck is cut from the chuck for stewing. Pot-roasts are cut from the lower or shank side, and stews or soup meat from the neck. The proportions of the chuck which are suitable for roasts, steaks and boiling meat vary greatly, according to the thickness and shape.

Plates or briskets are graded largely upon the quality of bone and the proportion of lean to fat. Point briskets are of higher value than the navel ends, though there is not a big demand for either in the retail markets. The lower grades are used for canning, sausage and soup meats.

used for tanking, boneless cut, and its quality The flank is a boneless cut, and its quality depends entirely upon the thickness and quality of the lean and fat. The flank steak is a cut in general good demand. It forms only about ten per cent. of the whole flank cut, but is worth about twice as much per pound as the straight flank. It is pulled from the medium and heavy flanks.

The term shanks refers in the market usually to fore flanks or shins. The important point in them is thickness of lean meat; a large percentage of shanks are stripped in the slaughter-house, and the meat used for sausage. When sold fresh, they serve for soup meats and stews.

Smoked beef or drief beef is almost entirely limited to beef hams, which, after curing in sweet pickle, are dried and smoked. Drief beef hams are sold as chipped beef by retail butchers and grocers. Much dried beef is also put up in sliced form and sealed in glass jars or tins..

Parts of carcasses which will not sell profitably over the block are used for canning. In this way an outlet is provided for much of the emaciated beef that comes to the market, and those parts of the fore quarters not wanted by the fresh-meat trade. With the exception of a few products, they are given a mild cure, and, excepting dried beef, are parboiled immediately before sealing. Canned beef is principally retailed by the domestic grocery trade, and is used also to supply army, navy and other contracts.

THE FARM.

Grimm Alfalfa in Minnesota. Editor "The Farmer's Advocate":

Alfalia the past summer has shown its great drouth resistance. Ordinarily, alfalia will cut from four and one-half to five tons per acre on the three crops, while this year the yield was less than four tons, yet it will partly make up in quality what is lacking in quantity.

The variety soluce is increasing in quanty, The variety so successfully grown here is what is known as the Grimm Alfalfa. It was so named by Professor W. M. Hayes, now Assistant Secretary of Agriculture, Washington, D. C., in his bulletin, No. 20, written in March, 1904, while Professor Hayes was connected with the Minnesota Experiment Station at St. Anthony Park. He named it in honor of Wendelin Grimm, the German emigrant, who developed it from seed he brought with him from his old home in Baden, Germany, to his new home in Carver County, Minnesota, in 1857. Grimm was an alfalfa en-

Through the Minnesota Experiment Station, the Department at Washington became interested in this alfalfa, and began several experiments with it. From page 25 of the Annual Report of 1909, of Dr. B. T. Galloway, Chief of the Bureau of Plant Industry, we copy the following:

"Grimm Alfalia.—The investigations of this valuable alfalfa, planned in 1904, and begun during the following spring, have now progressed to a point where positive recommendation as to its use can be made. Experiments thus far conducted indicate that this is the hardiest variety of Medicago sativa of which we have knowledge. In an experiment in co-operation with Prof. L. R. Waldron, at the North Dakota Sub-station, at Dickinson, 68 strains of alfalfa, including two Grimm strains of slightly different heritage, were subjected to identical conditions and treatment in hill and drill rows. This spring, after a winter



Grimm alfalfa (the two full rows near the center), in comparison with 66 other kinds, after the winter of 1908-1909, at Dickinson, N. Dakota, June, 1909.

of normal severity, preceded by a moist autumn, the winter-killing in the 68 kinds was found to range from three per cent. to one hundred per cent. Seven-eighths of the varieties lost over one-half of their stand. Of the nine that lost less than one-half, but two lost less than 10 per cent. Both of these were Grimm alfalfa. Efforts are now being made to establish a Grimm alfalfa seed industry in order to safeguard farmers in making purchase of seed."

In 1908, Prof. C. A. Zavitz, of the Ontario Experiment Station, at Guelph, planted a small amount of the Grimm alfalfa as an experiment. Last spring he wrote me that it had shown superior hardiness over the other varieties they

had under test. All that have the Grimm alfalfa should do something toward seed-growing. It is only in this way that this variety will ever become general. If the second crop is grown during a reasonably dry time, and does not make too rank a growth, it will pay to leave for seed. Seed sets more freely on the clay hills and light soils than on the heavy black ground. This is especially true during a summer of excessive moisture. During a dry summer there is but little differ-

ence, as it seemed to seed readily on the different soils. The seed of the Grimm alfalfa is somewhat smaller than the seed of ordinary alfalfa. This variety also shows a diversity in color of bloom not found in ordinary alfalfa. It belongs to what is known as variegated alfalfa. There is also a great diversity in habit of growth of the different indivdual plants. Some are very upright, while others are of a more spreading growth. During a wet time, the stems are of a finer growth than those of ordinary alfalfa. Because of this difference, there is a tendency for the Grimm to lodge somewhat, yet we have noticed no bad results because of this, but, rather, it is a benefit, as stock will eat it more readily than they will the coarse stems.

Minnesota. A. B. LYMAN.

[Note.—Prof. C. A. Zavitz, of the Ontario Agricultural College, with whom we have communicated concerning the Grimm alfalfa, says: "It appears to be a hardy strain. We have had it in our plots for three years—not sufficient to test it very thoroughly yet. I would not say it is the hardiest of all, but it seems to be amongst the most hardy strains. I am now looking carefully into some of our own, which has been grown in Haldimand, etc., for some time, and which, I think, are pretty hardy, also. I am not yet in a position to say whether the Grimm alfalfa will yield as well as some of the other kinds, but we are getting some good information on the question."—Editor.]

THE DAIRY.

Cost of Milk Production.

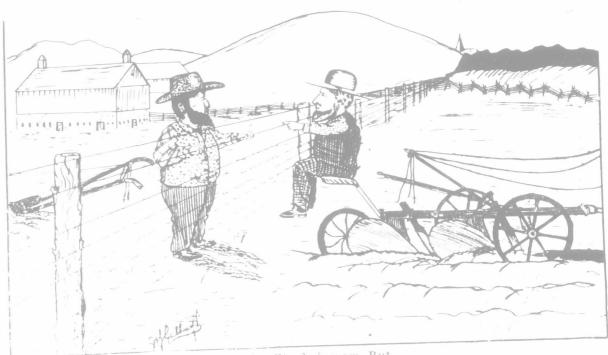
Editor "The Farmer's Advocate"

Does buttermaking pay? As a fair specimen of the average Canadian farmer, we cannot go so deeply into the theory nor so learnedly into the scientific aspects of buttermaking as to befog the reader and leave him "revelling in a sea of doubts," and then

throw out assertions and label them conclusions. No. We attempt no such thing, but candidly confess at this the commencement of the article, that it bears but one claim to recognition—that of practical experience.

Our herd consists of 12 milch cows, two of which are always undergoing a six weeks' rest before freshening, thus leaving us 10 cows from which profits accrue, although 12 cows add to the expense account. The odd weeks in which extra cows were used in this report are not credited with the extra milk, because it was diverted to other uses. The test was made in order to discover the profit or loss in buttermaking from 10 cows in one year. It took 12 cows to supply that number, and leave the herd in as good condition from a buttermaking point of view for another year, beginning April 1st, 1910.

The expense consisted (1) in food for the cows and expense in securing that food; (2) feeding it, etc., and incidental expenses through all the stages until the butter was turned into cash. Let us first consider the food account :



0

lowing iskets, e high-

sed exportion ne, and 11 loin. d club called s. The he kidpom the e taken ctically s from g called

The cover-No. 3 11

in entriing loin. "ing and in each or fresh ocut as being of is sold entrally maists of eat. inders it usuast, and did all he touch to get thought to day that this hardy alfalia is the oduction of this sturdy old German, because of

us persistence in seed growing. S. Department of Charles J. Brand, of the U. S. Department of Agriculture, in a magazine article entitled, "The Acclusitization of an Alfalia Variety in Minnesolath in Magazine Science, of December, 1908, Article as follows : "Wendelin Grimm died 18 cear area, hence exact details of his experience afelladar. Nevertheless, it is apparent that in the conflictence of his attempt to grow alfalia in Wine conflictence of many softwards. With the conflictence German persistence, realization the conflictence German persistence, realization the conflictence of german persistence, realization the conflictence of germanic matrix softwards. With the conflictence German persistence, realization before the practical nor scientific importance of a conflictence of generation after generation, he performs the plants that survived each survessive is also the plants that survived each survessive of a conflictence on his own farm, and selling his defined is a his neighbors. The was probably of the log and to the great value of the results and to the great value of the results of a conflictence of course the yearly de-

on of his stands. and his stands, it was decovered that altext from read purchased outside word writer kill, while the bonne variety, there identical conditions would remain read in 1900 we called Prof Haves' and to this fact and be because deeply after ad made a most careful examination. Up the this alfalfa wis known but locally, the this alfalfa wis known but locally. In the Single-furrow Rut.

First Farmer ~ Well, Hiram, I suppose

Second Farmer ("Water Fair? No, John, Lyness not Why will take me till then to housh blowing alone, even if the weather does keep over - I never seem to have time for costhing but work." Γ , F_{c} , "Hiram, you're getting away down into the very rut where I used to be. Instead of following that plow, why not get a doublebarreled rider carry out the same idea whereever possible in all your farm operations, and save a bit of your time and strength for occasional recreation. It's the steady grind that plays a mun out."

MICRO SAFETY .

(1) The food for the year consisted of pasture, 800 bushels of mangels, silage and alfalfanone of which can be considered the special food of any particular time, because the silage lasted well into the summer, and the alfalfa throughout the year.

1810b

Pasture consisted of 30 acres of land in good condition, and furnishing good grass all summerclover and timothy. It was worth \$1 per month per cow, or land and all would probably rent for \$2.50 per acre. At the former figures the total cost of 12 cows would be \$72.00; at the latter figures, \$75.00. We will accept the latter figures as maximum cost.

We had five acres of ensilage corn, sown in rows 3 feet apart and 40 rods long; two rows made a load, weighing from 3,000 to 3,100 lbs. It cost as follows

Seed	S	1.80
Seeding (man and team), 5 days, at \$4.		$2()_{()}()()$
Planting, hocing and caltivating, 23-\$2.		46.00
Cutting		8.00
Filling silo		27.00

Mangels in this neighborhood may be either bought or sold at 10c. per bushel, although we believe the cost of production may be slightly less. Say, then, 800 bushels, at 10c......\$80.00 From five acres of alfalfa, in three cuttings last year we secured 39 tons of hay. This year we secured 4 tons more. The actual cost last year was :

Maximum	rent	\$ 25.00
Labor in	storing	36.00

... \$ 61.00

(2) The expenses incidental to feeding, milking, churning, printing and marketing the butter are made up as follows :

Milking, 2 hours per day for 365 days = 73 and Now, we have a man by the year, at \$225 per annum. Sometimes two do the milking; sometimes three hands are available. We will pay the highest marketable price for farm labor; say \$1.50 per day for 73 days....\$109.50

Churning, daily, 2 hours per day per year (twice Monday) = 73 days. This

labor is worth, say, \$2.50 per day 182.50The extra labor choring, feeding and

watering we will consider offset by the

possession of the manure, with a balance due the credit side but not counted.

\$292.00

We will now add a doubtful expense, that of marketing. Our other affairs call us to market once per week, and therefore this load of butter costs us nothing extra. However, it is really an expense from a business point of view, and requires one-half day per week. $52 \times 1.50...$ 78.00 Thus expense totals as follows

Silo	\$102.80 80.00
800 bushels mangels	61.00
Alfalfa	
Dairy labor	292.00
Marketing	78.00
Total cost	\$613.80

Let us now turn for a moment to the other

These are all profit, because they were fed out of the feed already charged to the account of the food for the cows and on milk from these cows, some before separating, more after separating. The remaining separated milk is fed to the pigs, and is worth 50c. per day, but I place opposite this the extra care of the calves and the extra care of the cows at calving time. We consider this work well paid at that.

An inventory of feed on hand at close of year ..\$38.50 (as estimated in cost) ... (Four loads of hay already charged was sold for \$60.00, and the proceeds invested in chop and bran, which was fed to the cows, and so does not affect the standing of the account.)

We will now summarize the credit side of the account, as follows

5,478 lbs. 11 ozs. hutter, at 25c.... \$1,368.40

Total	receipts .		 .516.15
Total	cost (see	above)	613.80

Net gain

Farmers, like all other good Canadian citi zens, must be ready equally to lend a helping hand to their neighbors, or to do an odd turn for himself, without rushing in haste to charge it up; otherwise there would be many a heartache as well as backache, that would total high. However, taking all in all, you will find a liberal allowance, both in wages and in manure-to say nothing of the skim milk-for all extra labor that could possibly be demanded.

We are now in a position to answer several

What does it cost to feed a cow for a year?

$$\frac{613.80 - 38.50}{12} = \$47.94 -$$

$$\frac{1}{131401} \times \frac{1}{1} = 24c.$$
[appro]
What is the returns per cow?
1368.40

$$----=$$
 \$114.03¹/₃.

What is the profit per cow?

$$----=$$
 \$75.20 (app.).

All other necessary answers may be obtained from the accounts above.

A word in closing. Will any herd under proper conditions do this? We answer decidedly This herd is the result of nine years' careful no. selection and weeding of Holsteins. The highest test is 4.8 and the lowest is 3.3, and this year shows a decided improvement over last.

We do our own testing, and the figures, though serviceable to us, may not stand the scrutiny of those who go more into theory and scientific research. However, they have stood the greater test of practical experience, and where in some cases spilling or waste may have caused the butfrom the corresponding pounds of milk, or the number of pounds of butter to vary from the corresponding pounds of butter-fat, still we would say that the butter was there, sold and paid for. This, then, is a little theory attested by many facts, and vouched for by practical experience. Whether or not buttermaking pays depends upon a man's interpretation of the It looks good to us. Are we word "pays." WM. J. MAIN too easily satisfied ? (Johnston & Main. Wentworth Co., Ont

J. B. Williams, reporting for No. 3 Divisi, Toronto, called attention to the prevalence of Tussock Moth in Toronto during the season, . to the fact that, while the city authorities had done something towards controlling this pestthe city streets, private property owners had no lected it, and, therefore, its numbers were the little diminished. Mr. Morris reported the pretree slug and the apple maggot or railroad wor as having been bad in the Port Hope distr R. C. Treherne, reporting for the Niagara (trict, stated that the codling moth had been The San Jose was reported as incring, and spreading to new orchards in the Gra by district. Other insects reported as serior this district were the shot-hole borer, the curculio, apple aphids, the snowy tree cricker

apple worm, he stated, had been present, and had lected orchards. One grower had reported tons of unsalable apples, due to the work of this pest. The apple maggot, or railroad worm, was also very bad. Mr. Casar reported finding it all through Ontario, from Trenton to Pickering, and in the Niagara district. It attacked Snows, Spies and Alexanders, as well as Talman Sweets The cherry fruit fly had been plentiful in one locality of the Niagara district. The cherries attacked showed no sign of the pest on the outside, but, when ripe cherries were opened, little white maggots were found in the flesh inside. This insect, Mr. Cæsår said, bred and increased on the wild cherries in the district, and from them spread to the cultivated ones. The blister mite was on the increase, there being hardly a district in Ontario where it is not now found, and in many orchards during the past season it fairly covered the leaves. Mr. Casar thought it might be a blessing in disguise, as it might be the means of inducing more men to spray. The fruitbark beetle, Mr. Casar stated to be on the decrease in Ontario, due to the fact that it had been kept in check by a Hymenopterous parasite. The pear psylla was worse this year than for many years in the Niagara district. The blackberry leaf-miner had spread over the Province, and was quite a serious pest. Other insects of the season mentioned by Mr. Casar as doing serious harm, were wireworms, white grubs, pea aphids, and the spruce gall louse. Dr. Gordon Hewitt discussed briefly the serious

insect pests in Canada during the past year, omitting those taken up by the directors or Mr. Cæsar. The red spider, he stated, had been very serious on hops in British Columbia, reducing the average yield per acre from 600 or 700 lbs. to 200 lbs. One egg-mass of the Brown-tail moth had been found during the season at St. Stephen, in New Brunswick. In Nova Scotia, the area infested by this pest had been slightly decreased, and an active campaign was being conducted against it. The winter wobs were being destroyed, and a rigid inspection of imported nursery stock was being made. The narcissus fly, which is a serious pest in Holland, had done large amount of damage to narcissus bulbs in British Columbia during the past year. The spruce-bud worm was on the increase, and cxperiments were being carried on to learn more regarding its life-history and its parasites. white-marked Tussock moth had been very bad, especially in the cities of the Maritime Provinces. In Halifax, a civic league had been formed to fight this pest. In New Brunswick and British Columbia the forest tent caterpillar had done serious injury to forest trees, and around Rideau Lake and along the north shore of Lake Superior the green-striped maple worm had wrought serious damage to the maple trees.

We have a yearly contract of delivering 105 lbs. of butter a week, at 25c. per lb. These 12 cows during the year never varied more than 3 lbs. from that amount. When they did vary, the amount was made up or deducted, as the case might be, from those cows not in the test, but was as faithfully and accurately repaid. Thus the test was maintained and the market supply sustained at the same time.

The following is the statement of monthly milk produce and test of butter-fat :

1909.	Lbs. milk.	Lbs. butter-fat.	Butter to nearest point
April	10,819	378	451
·	11,261	390x	469
May	10,927	382x	459
July	11,161	391	465
August	11,060	386	460
September	10,675	374	442
October	11,140	390x	465
November	10 -00	378x	449
December	11 000	387	460
1910.	11,258	394	470
January	0.080	349	416
February March	11,264	391	468

There is a balance of 5 ozs. due the Dr. side of this account in order to make up the 52 weekly shipments of 105 lbs. each, thus making the total butter production 5,474 lbs. 11 ozs., at ..\$1,368.40 Add to this 12 calves. 7 of which were 25c. lb... 59.25butchered and sold for

And 5 heifers, worth now.

GARDEN & ORCHARD.

Ontario Entomologists Confer.

The forty-seventh annual meeting of the Ontario Entomological Society was held at the Ontario Agricultural College, Guelph, on Thursday and Friday, November 3rd and 4th. A large number of prominent entomologists were present, and took an active part in the meetings.

Thursday morning, a business meeting of the Council was held, at which Prof. C. J. S. Bethune was made an honorary life member, in recognition of his long and devoted services in the interests of the Society

INSECTS OF THE YEAR.

On Thursday afternoon, the directors' reports on the insects of the year were read, and Dr. C. Gordon Hewatt (Stawa, Canada, and L. Cesar, Ontario Agricultural College, discussed the more important injurious insects, while Dr. Hewitt tool up the most initiations ones noted through Canada.

FRESH-WATER FISHING AN IMPORTANT IN-DUSTRY

1

On Thursday evening a public meeting was held in Massey Hall. Prof. C. C. James, Deputy Minister of Agriculture, occupied the chair, and a large audience was present to hear the address by Prof. Needham, of Cornell, on "The Role of Insects in Water Life." Prof. Needham's remarks were of great interest, and profusely illustrated by most excellent lantern pictures. He pointed out the great importance of a knowledge of aquatic insect life, in order that the fisheries of Canada and the United States might be preserved and increased. The waters of Canada and the United States, he stated, were as productive, acre to acre, as the land, and the freshwater fishing might be made as important an inustry as agriculture, lumbering or mining. As et, however, it had been largely neglected, and people were just beginning to realize that if this industry was to thrive, more must be learned about the insect food of fishes, and the best



NOVEMBER 17, 1910

THE FARMER'S ADVOCATE.

as he entered the amphitheatre was one never to methods of increasing and preserving it. At the conclusion of the address, Prof. James spoke briefly of the importance of the subject, and how it was being actively taken up in England by the Board of Agriculture and Fisheries. President Creelman confessed his surprise at the importance of the subject, which he had not realized before, and expressed his hope that active measures might soon be taken along these lines in Ontario.

ELECTION OF OFFICERS.

On Friday morning the following officers were elected to transact the business of the Society for the ensuing year :

President-Dr. E. M. Walker, Toronto Univer-

sity. Vice-President-Dr. C. Gordon Hewitt, Ottawa. Sec.-Treas.-J. Eaton Howitt, O. A. C., Guelph. Curator-L. Casar, O. A. C. Librarian-Prof. C. J. S. Bethune, O. A. C.

Directors—A. Gibson, C. E. Grant, A. Cosens, W. Nash, F. J. A. Morris, R. S. Hamilton,

and R. C. Treherne. Delegate to the Royal Society-J. M. Swaine,

Macdonald College, P. Q.

Auditors-Prof. McCready and Prof. Crow, Ontario Agricultural College.

CONCLUDING SESSION.

Friday afternoon was devoted to the more scientific papers. These were very varied, and greatly enjoyed by the members present. The fol-lowing papers were read : "Spread of Diseases lowing papers were read: "Spread of Diseases Amongst Animals and Man by Acarids," by T. D. Jarvis, O. A. C.; "Leaf-eating Beetles," by F. J. A. Morris, Port Hope; "The Pool," by Dr. T. W. Fyles, Hull, P. Q.; "Collecting in the White Mountains," by H. H. Lyman, Montreal; "The Horse-radish Flea Beetle," by A. F. Winn, Westmount, P. O.; "Some Observations on the Westmount, P. Q.; "Some Observations on the Practical Importance of Parasitic Insects," by Dr. C. Gordon Hewitt, Ottawa.

First Canadian National Apple Show a Great Success.

An event of great importance to the applegrowing industry of this continent, and one which will prove a stimulus both from the standpoint of production and of consumption, was the First Canadian National Apple Show, which was held in the Vancouver Horse Show Building on Oct. 31st to Nov. 1st. In size and quality of the exhibits, the show far surpassed the hopes of the most optimistic.

The Horse Show Building, with its seating capacity of 3,000, and its large and magnificent arena, with an area of 15,000 square feet, proved an ideal place for the show, and it was thought at first that it would be large enough to accommodate all the exhibits. On account of the large number of entries, however, it was found necessary to build an annex to the main building, which more than doubled the exhibit capacity, and both these buildings were filled.

The apple was king, no other fruits being ex hibited, and varied from a perfectly-formed and well-colored specimen of Jonathan, which would barely cover a five-cent piece, to specimens which weighed as much as 2 pounds 6 ounces. In all, there were 3,424 exhibits, with 194 varieties, not including the Dominion Government and Australia exhibits or the window displays of the city. The exhibitors numbered 287. In the carload exhibit there were 12 solid carloads, comprising 72,000 boxes; 79 displays in the 10-box exhibits, com-prising 790 boxes; 74 five-box displays, compris-ing 370 boxes; 724 single-box exhibits, and 10 three the second s three box exhibits, or a grand total of 9,132 boxes; 1,944 plate exhibits, and 407 boxes in the melt displace the pack displays; six collections of big apples; 13 entries in the biggest-apple contest; 8 freak apples; 6 crabapple displays; 8 district exhibits; 5 limited displays; 19 entries in the apple byproducts, making a grand total of about 20 carloads of exhibits. Every important apple-growing district in Canada, the neighboring States of Washington and Oregon, and Tasmania, were represented in the exhibits, thereby making the show not only national in the truest sense of the term, but also international in character. The unbounded success of what was, in the words of W. E. Scott, Deputy Minister of Agriculture, "The greatest apple exhibit the world has ever seen," was largely due to the work of the energetic manager, Maxwell Smith, in whose mind was conceived and developed the great idea of holding a Canadian National Apple Show. To finance and carry through a show of such magnitude, in which the prizes alone amounted to \$25,000, was no easy task, but Mr. Smith and his associates were fully capable of undertaking the work, as indicated by the success which was attained in every department. The opening ceremonies took place Monday afternoon, with an attendance of upwards of 5,000. The famous 48th Highlander Band, of Toronto, gave two concerts daily, and the appre-Sation of their work was shown in the numerous incores received, and favorable comments from

be forgotten. The box exhibits were arranged at an angle of 45 degrees, extending all the way around the arena, the boxes placed end to end, seven tiers high. From any place in the auditorium, the visitor could look down on the great ranks of bright apples, box after box, tier after tier, right around the vast oval, and from the floor level he could look up at the unbroken surface, solid with apples, with the exception of the straight lines which indicated the sides and ends of the boxes. In the annex, nine carloads were arranged in a similar manner to those in the main building, and, in gazing down them in lengthening perspective, it showed box after box, tier after tier, row after row, apples after apples until the eye could not follow them, and all was blended in the distance in one mass of color. The Dominion Government occupied a space at the west end of the annex, where they had displayed boxes of Ontario Northern Spy, Quebec Fameuse, and others from other Provinces. They also had on exhibit a number of promising seedlings from well-known varieties, and the whole exhibit had a distinctive educational value. In the center of the annex building were arranged the plate exhibits, occupying a space 250 feet long and 6 feet wide. In the center of the main building the district exhibits were displayed, and also the medals which were offered as prizes. A special prize of \$500 was allotted to the best district exhibit at the time of the opening session. The exhibit of by-products was placed upstairs, owing to the lack of accommodation on the ground floor. display of medals and awards won by B. C. fruit in British, American and other shows was also on exhibition upstairs.

The judges were chosen from the best that could be secured on this continent, and they gave good satisfaction. The chief judge was Prof. H. E. Van Deman, of Washington, D. C., who has acted in a similar capacity at Spokane and many other of the larger fruit shows. Associated with him were Prof. F. C. Sears, Amherst, Mass.; Prof. W. K. Newell, of Gaston, Oregon; Martin Burrill, M. P., of Grand Forks, B. C., and Prof. Rowe, of Michigan.

The premier prize in the carload exhibits-the grand sweepstakes of \$1,000, and gold medalwas won by Kelowna, B. C., whose car of Jonathans was pronounced by the judges to be the finest car of apples ever shown at any exhibition. There were 120 apples-no more, no less-in each of the 600 boxes, and in practically every respect the apples were perfect. Out of 1,000 marks possible, this car was allotted 970, and if it had not been that the rules of the American Pomological Society, by which the fruit was judged, scaled the Jonathan a little lower in quality than some of the other varieties, the exhibit would have been awarded the maximum of marks. This car also received the first prize of \$500 in the Jonathan class. "The best I have ever seen," was Chief Judge Van Deman's comment. Summerland, B. C., secured second in sweepstakes, with a mixed carload, which also received first prize in its class. The third prize for sweep-stakes went to E. Renshaw, of Medford, Ore., with a car of Yellow Newtons, which also received first prize in its class. C. Starcher, of Yakina, received second prize with his car of Yellow Newtons. The Vernon Board of Trade received second prize, and M. Horan, of Wenatchee, Wash., third prize, in the mixed-carload exhibit. Wash., third prize, in the mixed-carload exhibit. Car of Northern Spy—First, Coldstream Estate, Vernon, B. C. Car Grimes' Golden—First, W. W. Sawyer Land Co., Sunnyside, Wash. Car of King of Tompkins—First, Victoria Fruit-growers' Association, Victoria, B. C. The mixed carload from Summarland B. C. which secured accord Summerland, B. C., which secured second prize in sweepstakes, consisted of Spitzenburg, Yellow Newton, Winter Banana, Northern Spy, and Grimes' Golden. In the district displays, Kelowna, B. C., won first place; Grand Forks, B. C., second, and Vernon, B. C., third. In the limited display, which consisted of two barrels, two boxes, two jars and two plates, Salmon Arm, B. C., won first place; Kelowna, B. C., second, and West Kootenay, B. C., third. The quality and extent of the exhibits at the show was an indication of what can be accomplished by the proper planting and care of the orchard, and in this way was of distinct educa-None of the fruit exhibited could tional value. have been brought through to such perfection only in orchards where all the various practices, such as pruning, cultivation, spraying, thinning, etc., were given their proper attention. It also showed clearly what varieties do well in certain districts, and that it is necessary to plant only those varieties that do well and are of high commercial value. The time of the experimental orchard, when a grower planted twenty or thirty varieties on a few acres, is past, and, in order that the grower may obtain carload lots of one variety which the market demands, he must plant only a few of the best varieties in his orchard. Some of the benefits of co-operation could also be gleaned from a study of the exhibits, as a number of the larger exhibits were put up by cooperative societies, and, although their exhibits came from a number of orchards, they showed

uniformity in quality and pack, such as could not be obtained by the individual growers work-Apple-buyers, and the public ing separately. generally, were able to see apples in a condition in which they would like to purchase them, and there is no doubt but what the demand for the there is no doubt but what will be greatly in-quality of fruit exhibited will be greatly in-the apple show. These are a creased through the apple show. few of the many benefits which the public and fruit-growers will derive from this apple show, and the second Canadian National Apple Show, wherever it may be held, will be looked forward to by all those who were in a position to visit the first one.

1811

The Little-peach Disease.

[Press bulletin from the Ontario Agricultural College, Guelph, Canada.

During a recent trip to the peach districts of Michigan to investigate the disease known as Little Peach, the writer gained the following mformation :

1. Little Peach is a very destructive disease, and, in the opinion of the majority of Michigan growers is several times more destructive than Peach Yellows. Wherever affected trees have been allowed to remain, the whole orchard, as a rule, has become hopelessly diseased in four or five years. An expert grower stated that he had himself seen more than 100 orchards thus de-

stroyed. 2. So far as known, no variety of peach tree

3. Japanese plums are quite subject to the is exempt. The writer himself saw three plum orchards with several of the trees attacked by Little Peach. It is clear, therefore, that they must not be overlooked when taking measures for the

control of the disease. 4. Little Peach attacks trees from two years of age upwards. (This is also, of course, true of

5. The disease has been successfully con-Yellows.) trolled in Michigan and other places, but only by the removal each year, as soon as possible, of all clearly diseased trees, and also all suspected It is absolutely necessary to remove the suspicious cases, as well as the clearly diseased. ones. 6. Co-operation in control measures is neces-

sary and, where orchards are close together, as in Ontario peach districts, is imperative; for no person can thoroughly control the disease in his own orchard by the removal of diseased trees, if his neighbor, only a few rods away, fails to remove his. If, however, the orchards are half a mile or more apart, one may hope to be able to keep his own orchard fairly free from the disease, even independently of his neighbors.

7. Where trees have been removed because of the disease, young trees may, if desired, be set Such trees are in the same place next spring. not any more subject to Little Peach and Yellows than any other trees in the orchard. (Prof. Waite, of Washington, D. C.; Prof. Blake, of New Jersey, and several others, agree with this state

The cause of Little Peach (or of Yellows) ment.)

is not yet discovered. 9. It is not definitely known in how many ways the disease may be spread. It is probably first brought into a district on nursery stock, and, once in the orchard, it certainly spreads from one tree to another, but just how no one knows. Many think that the time of infection is during the blossoming season. A number of things point that way, but the evidence is not

CD 1~-

son, a

ties hall

cherries

the out

d, little

ide. This

ased on

ster mite

district

and in

it fairly

it might

be the

t it had

parasite.

han for

he black-Province

nsects of

as doing

ubs, pea

e serious

st year, 's or Mr.

been very

reducing

700 lbs.

tail moth

t. Steph-

otia, the

shtly de-

eing con-

ere being

imported

narcissus

01

bulbs i**n** ar. The and exarn more es. The very bad, Provinces. ormed to l British ad done d Rideau Superior wrought

CANT IN-

was held 114 puty Minand a address by ole of Ins remarks Illustrated e pointed wledge of sheries of t be pre-of Canada e as pro the freshant an inining. As ected, and hat if this be learned I the best

those in attendance. The sight which met the gaze of the visitor conclusive

10. The disease can be propagated by budding, as has been proven by Dr. Smith and Prof. Waite in the case of Yellows. Horace Welch, who is said to be the best expert on the disease in the State, took more than 200 buds from trees showing symptoms of Little Peach, and inserted young seedlings, and others in older some in young seedlings, and others in the seedlings, and others is those trees. These buds took just as well as the disease from healthy trees, but in every case the disease developed, but not until the second year, and in

some cases the third. 11. Whether the pits from Little Peach will grow and produce the disease, is not yet proven. (Prof. Phillips, of Virginia, believes a small percentage of them will do so.)

12. The ordinary system of inspection for Yellows (as practiced in Ontario) is not sufficient for Little Peach, as this disease often does not show in trees until the latter part of September. Therefore, inspection work should continue up to the coloring of the leaves by frost.

13. It is not an infrequent occurrence to find trees with all the symptoms of Little Peach, except that the fruit ripens somewhat prematurely, or, at latest, at the normal time. Such fruit shows no signs of Yellows. This is possibly an abnormal case of Little Peach, though some think it is due to both Little Peach and Yellows attacking the tree at the same time. Whatever be the cause, these trees must be destroyed, just as if they had typical Little Peach or Yellows.

WHAT PEACH-GROWERS IN ONTARIO SHOULD DO AT ONCE.

1812

In some districts in Ontario, Little Peach has already caused the loss of several orchards, and of many trees in near-by orchards. No chance should be given it to make further progress; therefore, every grower is urged to destroy at once every tree marked by the inspector, and every suspected tree. It is very important not to let them remain in the orchard till next spring. There is no use hoping for the recovery of trees. They never recover from this disease.

A much fuller account of the Little Peach disease, with recommendations for its control, is being published, and may be obtained free in a few days from the Department of Agriculture, To-L. CÆSAR, B. A., B. S. A. ronto. O. A. C., Guelph.

New Superintendent for Jordan Harbor Station.

A. D. Harkness, of Irena P. O., Dundas Co., Ont., has been appointed by the Hon. Jas. S. Duff to be Superintendent of the Horticultural Experiment Station at Jordan Harbor, in succession to the late Harvey S. Peart, who died some months ago.

With his appointment is announced a slight change in the policy of the Minister of Agricul-ture with regard to the management of the Jordan Farm. Formerly it was in charge of a director who was responsible for all the work carried on. It is now proposed to place it under the immediate supervision of the director of the Fruit Branch of the Department, P. W. Hodgetts, who will visit the farm once a week, or as often as is necessary to keep closely in touch with the scientific and other work being carried on. Mr. Harkness will be the resident superintendent. is believed that this policy will not only keep the Department in closer touch with the Farm, but also result in increased usefulness.

In Mr. Harkness, the Government believe they have secured an excellent man for the position. Since taking a course at the Ontario Agricultural College, he has been one of the most prominent He was one fruit-growers in Eastern Ontario. of the first to adopt spraying and other scientific methods, and has continued consistently in this line. As a consequence, he has built up one of the most successful commercial orchards in the eastern part of the Province-a good recommendation for his future work, as it is the desire of the Minister, while not neglecting the experimental side, to give as much attention as possible to the commercial aspect of the work. For many years Mr. Harkness served as a director of the Untario Fruit-growers' Association, and he is widely known as an Institute speaker. Moreover, in the selection of an Eastern man, it is intended to further emphasize the fact that the farm is a Provincial, and not a local institution. Mr. Harkness will commence his new duties at once.

POULTRY.

Let the sun shine into the henhouse. Put in some windows, if necessary.

* * *

Poultry in early winter are prompted to roost early, and take none too much exercise during Brighten them up with as much direct sunshine as can be gotten into their pens, and see that they scratch for their feed in clean, dry litter.

Poultry Business at Macdonald College.

Professor F. C. Elford, of Macdonald College, is demonstrating that there is money in poultry for the average farmer, without the installation " Twenty-five dollars of expensive buildings. should house twenty-five birds," he says, and practices what he preaches. Last year, his pro-ceeds from 700 hens, in twelve months, were \$2,348.70 for eggs, and \$1,732.72 for dressed poultry, which totals \$4,081.42, and he had left Of course, a larger stock than he began with. he obtains fancy prices for his products. feed bill was \$1,000. He advocates the use of colony houses, moving the hens about on the farm, thus utilizing the wastes and keeping them healthy. By using the hopper for feeding, he has to feed the hens only once a month, and the chicks, after about six weeks, are treated in the same manner, thus minifying the labor.

THE FARM BULLETIN.

Big U. S. Corn Crop.

The Crop-reporting Board of the Bureau of Statistics of the United States Department of Agriculture estimates, from the reports of the correspondents and agents of the Bureau, as follows, for the United States

The total equine population is now 613,244, the highest for the past eleven years. Poultry, too have become more plentiful, numbering 24,339 000. Notwithstanding a rather trying hatching season, this indicates an increase of just one quarter of a million birds on the previous year

NOTABLE HAPPENINGS AMONG PEDIGREE STOCK

While on the subject of live stock it will not be amiss to refer to a couple of striking indica tions of Ireland's progress in pedigree breeding. At a recent sale in the Argentine of Shorthorn bulls imported from the United King dom, Irish-bred animals figured with unusual prominence, and one of them, Orphan Courier. realized the great price of £1,232, the second highest figure recorded. The breeder of this bull -which was from the famous Orphan-Luxury family-was the Right Hon. Fred. Wrench, of Ballybrack, Co. Dublin. The other notable in cident alluded to is a great testimony to Irish enterprise, and occurred during the series of sen sational Shorthorn sales in Scotland during the past month, when, at the offering from Mr. Gor don's herd at Combscauseway, a plucky Irish breeder, in R. J. Ogilby, of Dungiven, Co. Derry distinguished himself by paying the record price of 1,300 guineas for a January bull calf. Several other lots were secured for Ireland, but need not be detailed.

By the way, we have had several important

			Pro	luction.	Qua	lity.
Crops. Corn, bushels Buckwheat, bushels Potatoes, bushels Flaxseed, bushels Tobacco, pounds	$\begin{array}{rrrr} 20.9 & 20.9 \\ 93.4 & 106.8 \\ 4.9 & 9.4 \end{array}$	10-yr. 25.8 18.5 91.4 9.5		$\begin{array}{r} 1909\\ 2,772,376,000\\ 17,438,000\\ 376,537,000\\ 25,856,000\\ 949,357,000\end{array}$		10 yr. 84.4 90.7 87.7 91.1 86.3

Corn.-Percentage of 1909 crop on farms, November 1st, 1910, is estimated at 4.3 per cent. (119,056,000 bushels), against 3.0 per cent (79,-779,000 bushels) of the 1908 crop on farms November 1st, 1909, and 3.8 per cent., the average of similar estimates of the past ten years.

Wheat .- The average weight per measured bush el of this year's crop is 58.5 pounds, against 57.9 pounds in 1909, and 57.6 the ten-year average. Oats.-The average weight per measured bushel

of this year's crop is 32.7 pounds, against 32.7 pounds in 1909, and 31.1 the ten-year average. Barley.-The average weight per measured

bushel of this year's crop is 46.9 pounds. Apples.—Average production of 1910 crop, 43.5 per cent. of a full crop, against 42.5 per cent. of a full crop in 1909, and 50.7 the tenyear average percentage of a full production.

The "Distressful" (?) Country: An Optimistic Letter.

TILLAGE INCREASING.

Well-wishers of Ireland-and Canada contains many of them-will be pleased to learn that there are still hopes for the Old Land. The tillage area is in a sense the pulse of a country's agricultural health, and the encouraging information has come to hand since the last Irish Notes appeared in these columns, that the area under the plow in Ireland has this season shown an increase of almost 70,000 acres. A matter of two per cent.-that is the proportion-is not, of course, very substantial, but it encourages the belief that the tide is turning, and it that all four Provinces share in the advance, notably poor Connaught in the west, which has to its credit an increase of just 7 per cent. In Connaught a great many of the big grazing ranches, purchased by the Estates Commissioners during the past couple of seasons, have been divided up among tenants evicted in the bad old times, and other suitable occupants, and the appearance of several districts has been totally and beneficially transformed in consequence, the new conditions working already a notable influence on the agricultural statistics. Comparing this year with last, the acreage under grain crops in the whole country has increased by 4 per cent. (wheat by 9 per cent.); that under green crops by 1 per cent.; under flax by 20 per cent., and under fruit by 3 per cent.

pedigree sales in our own country since last I The Irish Shorthorn Breeders' Associawrote. tion's annual sale was a very successful affair. and prices ranging up to 100 gs. were realized, close on 40 animals being bought for English Then one of the foremost Irish breeders herds. of Aberdeen-Angus cattle, W. H. B. Moorhead, of Co. Down, disposed of a large portion of his herd at figures running up to over 60 gs., and a few days ago the premier Jersey herd in the country, and one that proved irresistible in the show-yard for its owner, M. O'Neill, Co. Dublin, was dispersed at very satisfactory prices. A notable and very choice Shropshire flock, kept for many years in Co. Meath by Capt. Naper, has also ceased to exist. Many buyers attended the breaking up, and as high as 40 guineas were paid for rams.

COMPLIMENTARY VISITS.

If proof were wanting to show that Ireland is developing, surely it is to be found in the extent to which it is being visited by those on the search for instruction and edification. Even the Canadian Pork Commission of last year found something to learn in the Green Isle, and this season we have had touring round and through the country organized parties of influential farmers from Essex, in England, and Glamorganshire, in Wales; while the English Arboricultural Society also selected Ireland for their annual trip. The country's agricultural resources, and the uses that are being made of them, have thus been subjected to critical scrutiny, and our visitors have been very appreciative in declaring the results of their observations. The more particular object of the visit was to study how the State Welch farmers helps Irish agriculture, and at the close of their tour they did not disguise the fact that they won't be happy till the gallant little principality has its own department of agriculture, organized and run on the same lines as the department in Ireland. Similarly, Scotland clamors for the same boon, and it is evident that Ireland has ceased to be the Cinderella of the Kingdom, and is now admittedly leading in many matters of supreme importance.

FOUNDED 1866

* * *

If poultry producers wish to place the marketing of their products on a thoroughly satisfactory basis, and command for superior quality the premium it deserves, it would seem as though cooperation were the chief hope of success. If it could be developed to the point of controlling the market, it would, of course, place the producer in a particularly favorable position.

* * *

The ventilation of poultry houses is not a difficult problem. A large area of canvas on the south or south and east sides, and a loose straw loft, with small apertures opening under a project ing gable or roof, provide inlet and outlet, respec tively, the straw serving incidentally to help keep the atmosphere dry. So far from the canvas keeping the henhouse too cold, it will found, in most latitudes, advantageous to have part of the space open for a portion of the time. Indeed, some poultrymen have dispensed with the canvas entirely.

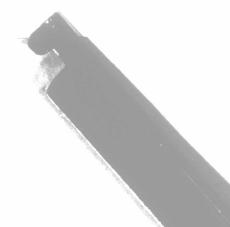
The easier questions have largely been settled, but we shall never develop a satisfactory system of country life until we settle the hard questions as well, the better schools, better roads, better church and social advantages. We shall even develop a better skill in farming than many of us have ever dreamed of .- L. H. Bailey.

SATISFACTORY LIVE-STOCK CENSUS.

This season's official figures regarding live stock are also generally satisfactory, and possess more than local interest. Excluding two years (1907 and 1908), the number of milch cows and in-call helfers, viz., 1,557,584, is the highest on record since 1860. Sheep declined from last year by less than 4 per cent -doubtless due to the discouraging motion trade experienced-to a figure almost reaching four millions. While pigs were over 50,000 more numerous, still the total of 1,200,000 is not as great as it ought to be, with current prices for pork so remunerativmotor car and the motor-driven farm machinery

BENEFITS FROM THE BUDGET.

Lloyd George's immortal budget has brought. in the Development Grant, the promise-nay, the definite prospect-of real help to the agricultural industry of the United Kingdom. All told, Ireland has claimed a sum of £275,000 out of this fund, for four vitally important undertakings, viz., horse-breeding, forestry, research work and fisheries, and the first three of these have practically been admitted. On behalf of horse-breeding the claim was £10,000 a year for five years. In this connection no new machinery is called for, but merely an extension of an existing scheme, which is considered so wise and practical that the new scheme to be adopted by the English authorities is almost a replica of it. The Commissioners displayed some tendency to shelve the demand for £20,000 per annum for five years, made on behalf of Irish forestry, but spirited protests have induced them to hurry up the tackling of this exregard to horses, we have an increase of over trendely orgent problem, which could never be 14,000, in space of the growing popularity of the solved more easily than at the present time. In the matter of preparedness to utilize wisely money



NOVEMBER 17, 1910

1, the

ndica

King

urier, æcond s bull uxury

ch, of

Irish

f sen

ng the Gor

Irish

Derry

last I

ssocia

affair

alized.

nglish

reeders

ead, of

s herd a few

untry

w-yard s dis-

ole and

vears

sed to

ng up,

land is

extent

on the

en the

found

d this

farm

nshire,

society

es that

bjected

e been

of their

of the

State

ams.

01

THE FARMER'S ADVOCATE.

for the purposes of afforestation, Ireland is far. The battle with the trees and the stubborn earth ahead of any other part of the kingdom, thanks to the large amount of preliminary work that has been done. On behalf of scientific research applied to agriculture, a claim of £75,000 was put forward, and it is understood that the principle involved has been approved, and that the project is likely to materialize in the near future. Lastly, $\pounds 10,000$ was asked for Irish fisheries; this, however, may not be got without great difficulty Still, if the other three grants "get through" all right, it would be, perhaps, not fair to com-plain. plain.

The Sayings and Doings of Donald Ban.

By Peter McArthur

"Yes," said Donald Ban, "I was at the sale to-day, and, to tell you the truth, I would rather have been at a funeral. The sale meant the death of a home, and, to my thinking, that is worse than the death of a man who had lived to the fullness of his days. When old Peter Shiras was buried last spring, I was sorry to lose an old neighbor, but he was well on to ninety, and nothing else could be expected. Today his sons sold the farm and everything belonging to him, and that means the end of Old Peter and his hopes.

"He moved into the country before I was born, and there is not a field on the farm that he didn't clear with his own hands. The fences are all built from rails that he split, and as I walked over the place to-day I could see traces of the old man everywhere I went. He wrote his life-history on every acre. I couldn't help smiling when I looked at the ends of the rails, for I could tell by the bite that he had cut every one He never got to be a good man with of them. the axe, for he had been brought up as a sailor. He did his work more by brute strength than by skill, but he did his work. Many's the joke they used to tell about him and his wife in the old days, but I have forgotten most of them. Still, there was one thing. He seemed to think that if anything went wrong, from a button coming off his overalls, to the roof blowing off his barn, it could be fixed by putting a nail in it. A nail was his cure-all for everything. He never could understand machinery, and after his boys went of to college, he always had to have a hired man to run his mower and self-binder. If anything went wrong, Peter would come yelling across the

'Can't you put a nail in it?'

"But he didn't like to be joked about it. remember one time, at a threshing, when a pinion broke in the old horse-power. The threshers were trying to fix things up, and Peter was standing watching them, fretting and fussing because the work had stopped and everybody was idle. After a while, Tom Hyse stuck his head out of the mow and yelled

'Oh, Peter !'

" 'What do you want ?' snarled the old man.

" 'Can't you put a nail in it ?" " I actually thought the old man would climb

up the side of the barn to get at Tom, he was so mad.

"But though he was a hard driver on his men, and close with his money, it was a matter of pride with him that at no time of the day or night was his table without food on it. one who went to his house was expected to eat, and to have a cup of hot tea. He had come to the new world to get a home, and his home was to be a place of hospitality. But to-day they even sold the old table he used to sit at the end

lasted for over a hundred years. Every field Men wore needed both courage and endurance. out their lives to conquer the land, and yet the people of this generation give no thought to it. In the schools they are teaching the children about the little battles that were fought, as if that were the history of Canada. I tell you, John, the history of Canada will not be written till the story of the pioneers is set down in

"How were the prices at the sale?" asked

"There you go," said Donald Ban testily. Though I "You are no better than the rest. have been trying all my life to drill into you a respect for the men who made the country you live in, you don't want to listen. Because you have cleared fields to raise crops from, and all the modern improvements, you haven't imagination enough to see the work that was done before you began.'

"Why, father, I do respect them-but I can't be thinking about them all the time.'

Donald Ban remained silent until he had regained control of his temper.

'Well, they sold out everything that belonged to old Peter Shiras, from the sea-chest he brought with him when he came to the farm, to the nameplate on his coffin. That's a fact. Among a lot of stuff that the auctioneer called bric-a-brac -sea-shells and coral that Peter gathered when he was a sailor, old samplers that Janet had worked when she was a girl, a picture of Nelson, and a lot of things like that-I saw the nameplate from Peter's coffin. Someone bought the whole lot for a quarter, and everybody laughed at the foolishness of making such a bid. I tell you what, John, the things that we treasure are seldom treasures to other people. When you come to sell this place, and the things that your mother and I think most of-

"Stop right there, Donald Ban," interrupted his wife, vigorously. "You know well enough that John will never sell this place nor things belonging to us.'

"Good. I am glad to hear your voice. sometimes wonder if you are not forgetting how

to talk.' "Don't you worry about my talking," said his wife, as she shifted the knitting kneedle in her waist-band, and went on with her work. "I might talk more if I didn't have to listen so much, but there are some things I'll not listen I knew the pioneers as well as you did, and a rougher, closer-fisted old lot never lived. And 1 am not going to hear my boy slurred at just because he gets tired of listening to the glories of men who had none of the great notions in their heads that you are always talking about. Them folks nation-builders ! Huh ! Lots of them were too shiftless to keep wood on their fires, even when it was so plenty that they couldn't walk from their doors without tripping over

logs. But, for all that, they were the makers of a nation, even though they did not know it. This was their Promised Land, and they spent their years in the wilderness to win it, and now their children are not inheriting it as they should. But we will not be arguing about it," he said hastily, as he noted the light of battle in his wife's eye You were asking about the prices at the sale, John. Well, most everything went for more than it was worth to the folks that bought, though for less than they were worth if there had been a son to keep up the home and carry on the life of the home. Most of the implements were old-fashioned, for men like Shiras made their money by using such tools as they happened to have, and did not waste their substance keeping up-todate. Old Peter was not one of those men who buy a corn-harvester because they happen to have in a couple of acres, or a root-pulper because they have a few mangels in the corner of the potato patch, and one cow to feed them to. I believe the teeth in the old harrow that was sold to-day were the very ones that were in the first V harrow he used among the stumps. He had made the frame himself and had pounded through the teeth at any slant, but he put in many a fine field of wheat with it. Mind you, I am not arguing in favor of old-fashioned tools, but I don't think one should throw the tools he has in the scrap-heap for the Greeks to haul away just because someone comes along with something newfangled that looks pretty and saves work. The implements we get nowadays are good enough to use as long as they will last with good care, and that means for years, if they are not left in the fence-corners to rust to pieces after they have been used. Lots of the implements Peter had were good enough for anyone that was following him to use, but it was foolish for anyone else to buy them. When you are forced to buy, you should buy the best, but, having bought, you should keep from buying again as long as you

business clean through, and had none of the jokes that the old auctioneers used to have. The only funny thing that happened at the sale had nothing to do with the sale at all. I was standing talking to Dan Bayne when Jim Holt came

" 'How much do you want for those three twoyear-old steers of yours ?' Jim asked.

'You can have them for forty dollars each.'

" 'I'll take them,' says he, and he passed over a dollar to bind the bargain. It was all done just as quick as I have told it, but that was not About an hour after 1 met Jim, and I said to him :

'That was a quick sale you made.'

'Yes, confound it,' he grumbled. If I had asked for more, I might have got it.'

"When I met Dan, I said, 'It didn't take you

long to buy those steers.' " 'No,' he growled. 'If I hadn't been in such a hurry I might have beaten him down a couple of dollars each on them.'

Did you ever hear of such foolishness? The man who was selling got the price he thought was right, and the man who bought them knew they were worth what he gave, and yet both were dissatisfied. It is a strange world we live in.

Having unburdened himself of his talk, Donald Ban took up his paper, put on his spectacles, and settled down in the big armchair for the rest of the evening.

Rot in the Potatoes.

The Census Office at Ottawa issued a bulletin Nov. 11th on the crops of Canada, as prepared from reports made up to the end of October.

The closing months of the year give good reports for nearly all of the field crops of the Dominion. Potatoes alone indicate partial failure, and in all the Provinces there are complaints of rot in the fields and in the heaps for winter storage. The area is 503,262 acres, and the estimated yield 74,048,000 bushels, being an average of about 147 bushels per acre, which is nearly uniform for all the Provinces. The quality is 84.42 per cent. Turnips and other field roots show a quality of 88.57, a yield per acre of 402bushels, and a total yield of 95,207,000 bushels for a crop of 236,622 acres. Hay and clover are computed for 8,515,400 acres, and a yield per acre of 1.82 tons. The quality is 90.45 per cent., and the total yield 15,497,000 tons. Fodder corn has an estimated yield per acre of 9.38 tons, which, upon an area of 271,960 acres, gives a Sugar beets are product of 2,551,000 tons. grown most extensively in Ontario and Alberta, where they supply roots for three sugar factories. The area in crop this year is 16,000 acres, which is a substantial increase upon last year. The yield per acre is 9.69 tons, the total yield 155,-000 tons, and the quality 93.15 per cent. The roots supplied to the Berlin factory are testing 17 per cent. of sugar, and at the Wallaceburg factory 16 per cent., but a product of 5,000 acres in Ontario is being shipped to factories in Michi-The product of 8,200 acres in that Provgan. ince is marketed at Wallaceburg and Berlin, where the average price is about \$5.86 per ton, or better than \$57.80 per acre. Computed at the average local prices, the market value of potatoes this year is \$33,446,000; of turnips and other roots, \$21,444,000; of hay and clover, \$149,716,000; of fodder corn, \$11,957,000; and, of sugar beets, \$887,000. The report on fall wheat sown this year shows an area of 790,300 acres, whereof

f their t they ipality ganized nent in or the nd has m, and ters of

rought ay, the cultural ld, Ire-of this akings, rk and e pracfor, but which the new horities and for behalf ave inthis exever be ne. In y money

VIL.

of and ask the longest blessings heard. His wife was a woman like himself, and the best joke we had when I was a boy was the one that was going around about the first time she ate peaches. After she had eaten a couple, the farmer she was visiting offered her a couple more, but she said :

"'No, thank you. They are very nice and tasty, but the seeds scratch my throat.'

'But I saw the end of old Peter and Janet to day. One of their sons is a lawyer, and the other a doctor, and they have no need of the farm. I guess it was because their father made farming so hard for them that they got away from it as soon as they got the chance. Farming can be made the worst kind of slavery one is not careful. Still, Peter meant well. It was home-hunger that brought him to the woods, and when he got a home he wanted to make its foundations sure with plenty of money in the bank, and that made him scrimp and save. He wanted a home that would stay in his family for generations to come, for he knew what it meant not to have a home. His forefathers for generations before him knew what it meant to work land that belonged to other men, and the hunger for land of their own grew in them. There is hunger like land-hunger, John, and if that is what is troubling the Germans and Japanese, as papers say it is, nothing will keep them in bounds. It was the land hunger of the plain can. people that conquered the forests of the new world, and there never was a conquest like it.

The auctioneer was a good man, and he made things go for all they were worth. He was

682,500 acres are in Ontario, and 107,800 acres in Alberta. Last year the area was 609,200 acres in Ontario, and 98,000 in Alberta. condition of the crop is reported at 98.40 per cent., as compared with 93.60 last year.

The per cent. of fall plowing completed this year, compared with the area planned for, is less than last year, but the report is made for a period one month earlier. The per cent. of summer-fallowing, compared in the same way, is somewhat lower, but increases are shown for Saskatchewan and Alberta.

ARCHIBALD BLUE.

Cost of Horse Power.

So far, the response to the offer of twenty dollars in prizes for the best essays on the cost of horse-power (see issue Oct. 13th) has been unusually small. Apparently, very few farmers have made calculations as to this important question. This, however, only emphasizes the need of focusing attention upon the subject. Even if one has not previously considered the matter, he can, by weighing a few feeds of hay and grain, and carefully figuring up the cost of feed, attention, stabling, interest, depreciation and risk, shoeing, harness, and the rest, prepare an article that will approximate the cost and serve to stimulate thought. Entries close Saturday, Nov. 26th, by which time competing essays must be in our of-

Winter Fair Programme.

1814

The coming Winter Fair at Guelph will open National Horse Show, Madison Square Garden, with the judging of horses, beef cattle, sheep and swine on Monday afternoon and evening, December 5th. Judging of cattle, sheep and swine will be concluded on Tuesday, but the horse-judging will continue each day, and finish on Friday afternoon, Dec. 9th.

A special feature of the programme of addresses this year will be ten addresses on the production of feed for live stock. This series will be opened by C. C. James, Ontario Deputy Minister of Agriculture, with an address on the "Poorest and the Best in Crop Production." Following this, there will be an address on "Underdraining," two addresses on roots, four addresses on corn, one on grain-growing, and one on fodder crops. Other lecture sessions will be devoted to addresses on poultry, dairying, seeds and horses. The complete programme may be secured on application to the Secretary, A. P. Westervelt, Parliament Buildings, Toronto.

Prices for important farm crops in the United States on November 1st averaged about 5.4 per cent. lower than a year ago, according to the American Government's Bureau of Statistics.

GOSSIP.

SHROPSHIRES AT AUCTION. One hundred and twenty-five head of Shropshire sheep, bred ewes, ewe lambs and ram lambs, as advertised in this issue, the property of Hanmer & Hodgson, of Brantford, Ont., are to be sold by auction at their Belmont Stock Farm, four miles west of the city of Brantford. on Tuesday, November 22nd. This firm have made a splendid record of prizewinning at leading shows in Canada and the United States, and this sale surely will afford an exceptionally good opportunity for securing superior breeding stock at the buyer's price.

Wm. Thorn, Lynedoch, Ont., writes My Ayrshires have come into their winter quarters in good condition. They have had plenty of pasture all summer, and cows have milked extra well. I have several entered in the Record-of-performance test, and they are doing grand work; cows have milked over fifty pounds per day, and one two-year-old heifer, Flirt of Trout Run, gave as high as 45 pounds per day, testing 4.2, on grass. I have several very promising young bulls for sale, one out of Dalpeddar Aggie (imp.), who gave 51 pounds per day this summer, testing 4.8. This is a choice young bull, fit to head any herd. Another, out of Lessnessock Grace Darling (imp.), who has a record of 41 pounds per day, with first calf. These bulls are both sired by my stock bull, Hole House Pilot (imp.) who is getting great milking stock Have also a few grand cows and heifers I have ten pair of very fine, to spare. large Toulouse geese for sale, at \$5 per pair, if taken before Christmas; also, grand, large, White Wyandotte cockerels. A. Edward Meyer, of Guelph, Ont. states that the demand for young Shorthorns of both sexes seems to be brisk. He has recently sold the Marr Missie bull calf, Missie's Hero 2nd, to S. Palframan, Gourock, Ont. This is a good calf, exceedingly well bred, being sired by Scottish Hero (imp.), and out of Broadhooks Missie 2nd =75132=. T. S. Shantz, of Waterloo, Ont., secured the thirteen months-old Campbell Bessie bull calf, Lord Bessie. Individually, this calf is a show bull, and his breeding cannot be excelled, he being by Scottish Hero (imp.), and out Watson Bros. of Red Bessie =51454=. of Lucknow, Ont., selected Averne 2nd, a yearling of the Averne tribe, sired by Violet's Crown (imp.), and out of Averne (imp.). This is a grand heifer, nicely fleshed and thick, a show heifer all over Bryce Wright, of De Winton, Alta., took a pair West with him, both got by the grand old breeding bull, Scottish Hero (imp.). The bull, Lord Averne, is of the Averne tribe, and looks like his sire over again. His dam, Averne (imp.), is one the best breeders at Sunny Slope Farm. The heifer, Ivy 5th, is out of Ivy (imp.), and is a low-down, deep, thick calf, of excellent quality. There are still some choice individuals in both young bulls and females for sale in Mr. Meyer's herd.

Coming Events.

New York, Nov. 12-19. Ontario Horticultural Exhibition, Nov. 15-19. International Horse Show, Chicago, Nov. 22-26. International Live-stock Exposition, Chicago,

Nov. 26th to December 3rd. Smithfield Fat-stock Show, London, Eng., December 5-9.

Ontario Winter Fair, Guelph, Dec. 5-9. Maritime Winter Fair, Amherst, N. S., Dec. 5-8.

Toronto Fat-stock Show, Union Stock-yards, Dec. 12-13

Eastern Ontario Live-stock and Poultry Show, Ottawa, Jan. 16-20, 1911.

Winter Fair Entries Close Saturday, November 19th.

Exhibitors are reminded that their entries for the coming Winter Fair should be sent at once to the Secretary, A. P. Westervelt, Toronto. This is an exhibition that no successful breeder and feeder can afford to miss. There are \$16,000 offered in large prizes for horses, beef cattle, dairy cattle, sheep, swine, poultry and seeds. Comfortable stabling is provided for all exhibits, and crowds of people will be in attendance.

The number of immigrants arriving in Canada for the four months, April to July, totalled 155, 549, as compared with 90,248 for the corresponding four months of 1909. Immigration from the United States increased from 40,267 to 54,699, while the immigration via ocean points increased from 49,980 to 100,850, or an increase of 102 per cent. For the month of July alone the total immigration to Canada was 25,218, as compared with 16,113 for July, 1909, or an in crease of 57 per cent.

What is claimed to be the biggest apple ever grown in England has been sold at Covent Garden to Messrs. Adams, of Bond Street, W., for £14 (\$68). Its diameter is some 5 in., a larger measurement than that of many a hothouse melon; its circumference is over 16 in., and its weight 27 ozs. Its color is that of fine gold. and its name is, very rightly, Gloria Mundi-[Agricultural Gazette.

The conference between the representatives of the United States and Canada on the subject of improved trade relations, terminated on Thursday of last week, after four days' sittings. No conclusion was reached, but the ground was cleared for another conference, which will be held in Wash ington probably early in January.

SALE DATES CLAIMED. Nov. 22 .- Gill & Askin, Cooksville, Ont.; Hacknevs. Nov. 22-Hanmer & Hodgson, Brantford,

Ont.; Shropshires. Dec. 14-S. J. Pearson, Son & Co., Meadowvale, Ont.; Shorthorns. Dec. 15-John I. Balsdon, Markham, Ont.

Shorthorns.

One hundred and thirty head of Clydesdales were shipped from Glasgow on Saturday, October 29th, including 49 head for T. H. Hassard, Markham, Ont., personally selected; 7 for D. Cargill, Medicine Hat, Alta.; 9 for H. J. Allison, Montreal; 10 for S. J. Prouse, Ingersoll, Ont.; 14 for G. A. Brodie, Stouffville, Ont.; 1 stallion for Adam Watson, Cobourg, and 19 for Ben Finlayson, Cal-Mr. Hassard had also 4 Hackneys gary. and 1 French Coaching stallion, described as "a dandy."

At the first annual sale of Jersey cattle, from Burr Oak herd of W. R. Spann & Sons, of Shelbyville, Kentucky, the 68 head made an average price of \$311.25. The first 53 in the catalogue, which inaveraged \$400.62. The bull, Noble Peer sold for \$3,000, the highest price of the day, to Messrs. Stumph & Nelson, of Oregon. The bull Distinction's Noble, went to Dr. M. A. Scovell, of the Kentucky Agricultural College, at \$2,200. The highest price for a female was \$700. Two others brought \$600 and \$650, and twelve others sold for prices ranging from \$400 to \$580 each.

TRADE TOPICS.

HOME DYEING .- Has it ever occurred to you what a large number of things one can dye at home, and in that way make quite a saving? When on shopping expeditions, you have often noticed on the "Bargain Counters," remnants offered at ridiculously low prices because the shades or colors were out of style. Now, these bargains could be taken advantage of, and by dyeing the goods, the colors could be changed to the most delicate shade of any of the fashionable colors popular at the time. There are home Dyes now with which one can color cloth of any kind perfectly. You may possibly have a dress that is out of fashion as to color and style Rip it up, dye it a fashionable shade, and, with new patterns, make it up into a most stylish gown that will he the envy of your lady friends. It is not alone for "Wearing Apparel" that these improved Home Dyes may be used. Portiers, couch covers, table covers, shade curtains, draperies; or, in fact, anything that is made of cloth, can be made to look just like new. Never try to color anything a lighter shade than the article is originally. For the lighter shades and for small articles such as ribbons. silk or cotton gloves, stockings, blouses etc., one package of dye, as a rule, will be sufficient. For heavy suits, coats, curtains, etc., it is best, if possible, to weigh the goods before they are wet, and policy of shipping goods free of deluse a package to about a pound of goods

Through an omission in the instructions accompanying the order for an extension advertisement of the Olds Gasoline engine, which will be found in this issue, the address of the Canadian agents has been omitted. The address should be Seager Engine Works, Lansing, Mich.; agent, E B. Echlin & Co., 13 Park St., Hamilton, Ont. The correction arrived too late to make the change in this issue.

PRIZES FOR FINEST SHIPMENTS OF POULTRY .- One hundred dollars in gold is offered in prizes for shipments of poultry by the well-known firm of Gunn, Langlois & Co., Ltd., of Montreal. The money is divided into three prizes of \$50, \$30 and \$20, respectively. Shipments must consist of 12 turkeys, and also one of the following : 24 chickens, 12 ducks or 12 geese, special consideration being given to competitors who make entry in all classes. Birds must be delivered by express at the company's warehouse, 241 St. Paul St., Montreal, between December 13th and 16th. Competitors must be farmers only, though two or more may co-operate and ship under their joint cluded the Spann importation of 1910, names. It is understood that the company have the right to purchase for cash at current market prices, all the poultry shipped for competition. Awards will be decided by Prof. F. C. Elford, of Macdonald College, and will be announced December 24th. For further particulars, write Gunn, Langlois & Co., Ltd., Montreal, P. Q.

> WHAT TWO COUNTRY BOYS HAVE DONE.-In 1870, an awkward, overgrown boy from the country appeared at Toronto University to attend lectures. His fellow students, noticing his uncouth appearance and the marks of the farm which still chung to him, promptly christened him "cowheels." This country boy deep, and then plow deep in the fall? recently succeeded in winning the New foundland Fisheries Dispute from the United States before The Hague Tribunal. His name is Hon. A. B. Aylesworth, Minister of Justice for Canada. Another country boy who arrived in Toronto about the same time, found employment in a wholesale house. He had the privilege of walking a mile and a half each morning, working for twelve hours, and then walking the same distance back at night-all for the munificent salary of two dollars a week. This boy's salary did not remain at two dollars very long, for his employers soon discovered the stuff of which he was made, and rapidly advanced him. In course of time he became head of one of the largest stores in Canada. Then began, under his direction, the development of a mail order business, which eventually covered the Dominion, from the Atlantic to the Pacific, from the Great Lakes to Hud-This country boy was H. H. Fudger now president of the Robert Simpson Company. During the past year, one of Mr. Fudger's dearest ambitions has been realized-that of serving every resident of the Dominion on exactly equal terms His house was the first to inaugurate the charges to any destination in Canada

This enterprise of Mr. Fudger's is a veritable boon to any Canadian living outside the large cities; it enables him to make his purchases at city prices, and receive the goods delivered free, no matter where he lives. The new system has just been put into operation, and is well worth a trial. Any of our readers can get a free copy of the Simpson Mail-order catalogue by writing for it.

QUESTIONS AND ANSWERS. Miscellaneous.

RED WATER IN COWS.

What is the cause of red water in cows. and is there any remedy? I have two valuable cows affected with it now. V.B.

Ans.-Red water, or bloody urine, is due to a rupture of some of the small blood vessels in the kidneys. Give one ounce tincture of iron, three times daily. in a pint of cold water as a drench, until the escape of blood ceases. Feed easilydigested food and avoid excitement. Another prescription is, "Purge with 11 lbs. Epsom Salts and 1 ounce ginger, dissolved in two quarts warm water, given as a drench. When purgation ceases follow up with 4 drams chlorate of potash, and 1 dram each of sulphate of ircn. gentian and nux vomica, three times daily, as long as necessary.

PRUNING GRAPES AND CHER-RIES-PLOWING STUBBLE FIELDS

1. When is the best time to trim grape vines and cherry trees, and should the vines be taken down for the winter? 2. In plowing stubble for a grain crop the next spring, would you advise plowwrite as mossible, three or four inches SUBSCRIBER.

Ans.-1. As to the protection of grape vines, see article on page 1632 of Farmer's Advocate" of October 13, 1910. Laying down is not practiced in the compercial grape-growing districts of Canada. but is recommended for those sections where the vines are otherwise liable to winter-kill. In the commercial grape districts, where the canes are not laid down. pruning is done in late winter and early spring. Cherry trees should be pruned in the spring. The pruning to shape is much the same as of the apple, but after the tree becomes well shaped, the less pruning the better. Often serious injury occurs when cherry trees are severely pruned. Gum oozing from the tree is said to be an indication of such injury.

2. Either disking or light plowing and working of stubble-fields after harvest, to be followed by deeper plowing in the fall. is by some observant farmers considered good practice if one has the time to at-

"She is very liberal in her charities," aid one woman. "Yes," answered the other; "liberal, but not always practical. For instance, she wanted to send alarm clocks to Africa to aid sufferers from the Seeping sickness."-Washington Star.

1866

nada 155,ond a the ,699. eased 102 the as n in

ever Gar , for arger house nd its gold, ndi.-

es of ct of rsday coneared Wash

80

is a living nim to s, and matter as just s well rs can l-order

S.

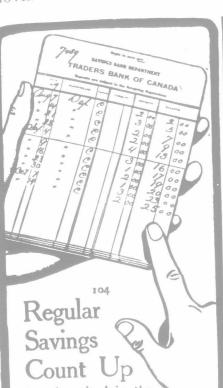
cows ve two ₩. V. B. e small ve one daily h, until easily . An $1\frac{1}{2}$ lbs er, dis , given

of pot-of iren HER

LEa grape

uld the in crop e plowall? BER. f grape of "The 3, 1910. the com-Canada sections iable to ape disd down. nd early pruned shape is out after the less s injury severely tree is injury. ing and vest, to the fall.

NOVEMBER 17, 1910



when deposited in the Traders Bank.

Regular deposits of One, Two or Three Dollars grow into tens and hundreds, more quickly than larger ones made only occasionally.

It is a mistake to wait as some do, till they have accumulated a good-sized amount. Get the habit of depositing something, even if only a dollar, every week or every fortnight.

THE TRADERS BANK OF CANADA Capital and Surplus \$6,550,000

MARKETS

Toronto. LIVE STOCK.

Receipts of live stock at West Toronto on Monday, Nov. 14th, numbered 143 cars, comprising 3,040 cattle, 1,273 sheep and lambs, 23 calves. Quality was medium to good; trade fair; prices 10c. to 15c, lower for cattle. Exporters, \$5.50 to \$5.90, and 30 picked cattle at \$6.25; butchers', 10c. to 15c. per cwt. lower; prime picked lots, \$5.65 to \$5.75; loads of good, \$5.25 to \$5.50; medium, \$4.90 to \$5.15; common, \$4 to \$4.80; cows, \$3 to \$4.75; canners, \$1.75 to \$2.40; feeders, \$4.75 to \$5.40; stockers, \$4 to \$4.75; milkers, \$50 to \$80 each; veal calves, \$3.50 to \$8 per cwt. Sheep, \$4.75 to \$5; lambs, \$5.75 to \$5.95 Hogs-Selects, fed and watered, \$7, and \$6.65, f. o. b. cars at country points.

THE FARMER'S ADVOCATE.

feeders, as well as stockers and calves, which were taken at good prices, but not as high as they were a month ago. Wm. Crealock, buyer for the D. B. Martin Co. who has just returned from Winnipeg, re ports that shipments of cattle from the Northwest will be heavy for several weeks to come, to the Toronto markets. If this is correct, we would look for feeders certainly to be not any dearer, but, on the other hand, a little lower, as many of the farmers and distillery buyers have got nearly all they want. The quality of cattle generally this week was not so good as has been coming. The bulk of the common and medium, as usual, were delivered at the City market. Trade, after Monday, at the Junction, was generally slow, with prices about steady. All cattle of good quality for killing purposes, sold readily at either market, but common, light butchers' and stockers were slow sale. The Union yards are steadily gaining ground, having shipments arrive nearly every day in the week. Not only in cattle, but in sheep, is this market gaining, as on Wednesday last there were 40 carloads of stock arrived, in which were over 1,100 sheep and lambs, which were readily taken at good

Exporters .- Exporters sold at about the same prices as for the previous week, notwithstanding the unfavorable reports from the British markets. Export steers for London, ranged from \$5.75 to \$6.05, or an average of \$5.90, which was five cents below last week's average. Export steers for Liverpool, averaged \$5.80, which was five cents higher than for the previous week. Export bulls sold from \$4.25 to \$4.75.

Butchers' .- A few picked butchers' sold at \$5.80 to \$6; selected loads sold at \$5.50 to \$5.75; loads of good, \$5.25 to \$5.50; medium, \$4.90 to \$5.15; common, \$4 to \$4.80; cows, \$3 to \$4.75; bulls, \$3.50 to \$4.25; canners, \$2.25 to \$2.40. Stockers and Feeders.-The stocker and feeder market was not nearly as brisk, and prices, as a rule, are lower. Shortkeep feeders, \$5.40 to \$5.60, with few selling at the latter figure; good steers, 900 to 1,000 lbs., \$5 to \$5.25; steers, 800 to 900 lbs., \$4.75 to \$5; yearlings and stockers weighing up to 700 lbs., \$4

to \$4.60. Milkers and Springers.-There was a fair supply all week, which met a strong there was a good demand, and quite a market every day. As a rule, prices ranged from \$50 to \$90 each, but there were several reached \$95 and \$100 each, while two went at \$105 each. A very few common cows sold at \$40 to \$48

each Veal Calves .- Receipts were moderate and prices steady all week, at \$3.50 to \$7.50, with a few choice quality at \$8. Sheep and Lambs.-Ewes sold from \$4.50 to \$5; rams, \$3 to \$3.50; lambs,

\$5.60 to \$6 per cwt. Hogs .- Prices were again lower. Selects, fed and watered, sold at \$7.10, and \$6.75 to drovers was paid for hogs, f. o. b. cars, at country points.

BREADSTUFFS.

Wheat.-No. 2 white, red or mixed, 82c. to 83c., outside. Manitoba wheat-No. 1 northern, 944c.; No. 2 northern, 914c. track, at lake ports. Rye-No. 2, 64c. outside. Barley-For feed, 48c.; for malting, 55c. to 57c. Buckwheat-47c., outside. Peas-No. 2, 87c. to 88c., outside. Oats-Canadian Western oats, No. 2, 37c.; No. 3, 35c., lake ports; Ontario, No. 2 32c. to 324c.; No. 3, 31c. to 314c., outside. Corn-American No. 2 yellow, 58c. No. 3 yellow, 57 c., on track, Toronto. Flour-Ontario winter wheat flour, \$3.50, at seaboard. Manitoba flour - Toronto prices : First patents, \$5.70; second patents, \$5.20; strong bakers', \$5.

Beans.-Prices steady; primes, \$1.90 to \$1.95; hand-picked, \$2 to \$2.10 per

Honey .- Market steady, at unchanged quotations. Extracted, 10c. to 11c. for choice; combs, per dozen sections, \$2 to \$2.50.

Potatoes .- Market steady, at 50c. to 52c. per bag, for car lots, track. To-

Poultry.-Receipts were liberal. Dressed turkeys, 16c. to 19c.; geese, 11c. to 12c.; ducks, 12c. to 14c.; chickens, 12c. to 13c Live poultry, two to three cents per 1b.

HIDES AND WOOL.

E. T. Carter & Co., 85 East Front street, have been paying the following prices: No. 1 inspected steers and cows, 10c.; No. 2 inspected steers and cows, 9c.; No. 3 inspected steers, cows and bulls, 8c.; country hides, 81c. to 9c.; calf skins, 11c. to 13c.; lamb skins, 50c. to 60c.; horse hides, No. 1, \$2.75 to \$3.00; horse hair, per lb., 30c.; tallow, No. 1, per 1b., 51c. to 6c.

TORONTO SEED MARKET.

The William Rennie Seed Company report the seed prices unchanged, as follows: Alsike No. 1, per bushel, \$7.50 to \$S; alsike No. 2, per bushel, \$6.75 to \$7.25; alsike No. 3, per bushel, \$6 to \$6.50; red clover No. 1, per bushel, \$7 to \$7.25; red clover No. 2, per bushel, \$6 to \$6.50; red clover No. 3, per bushel, \$5 to \$5.50.

FRUITS AND VEGETABLES.

Apples, \$2.75 to \$5 per barrel, the latter price being for No. 1 Spies; pears, 65c. to 75c.; common pears, 30c. to 40c. per basket; grapes, 25c. to 40c. per basket; cranberries, \$8 per barrel; cabbage, \$3.50 per hundred; beets, 60c. per bag; carrots, 50c. per hag; green peppers, 30c. per basket; eggplant, 25c. per basket onions, \$1.25 per bag.

Montreal.

Live Stock .- Exports of live stock from the port of Montreal for the week ending November 5th, amounted to 2,507 cattle, against 2,366 the previous week. There was a larger offering of cattle on the local market last week, but prices held firm all the way round. The weather has not been very favorable lately, but quantity was purchased for shipment to St. John, N. B. Choice stock sold at $5\frac{1}{2}c.$ to $5\frac{3}{4}c.$ per lb., fine at 5c., good at 4 jc. to 5c., medium at 4c. to 4 jc., common, down to 31c. The market for small meats was active, and prices held firm, purchasing for cold-storage being in progress. Supplies were liberal and prices rather easy, lambs being 6c. to 64c. per lb. for Ontario stock, and 54c. to 5%c. per lb. for Quebec, while sheep were 3%c, to 4c, per 1b. The demand for choice calves was good, and the supply scarce, milk-fed stock selling at 51c to 6c, per lb. Hogs have declined still further, as indicated a week ago might be the case, and were selling at 71c. per

lb. for selects, weighed off cars. Horses.-Supplies very scarce. Heavy draft, 1,500 to 1,700 lbs., \$300 to \$350

The Canadian Bank of Commerce

Affords to farmers and others every facility for the transaction of their banking business.

Accounts may be opened by mail and moneys deposited or withdrawn in this way with equal facility.

Sales notes will be cashed or taken for collection.

Branches throughout Canada, including Toronto, Hamilto, Montreal, Charlottetown, New Glasgow and Truro.

Exports to date, 29,000 packages, against 39,000 a year ago.

Cheese .- Exports of cheese are about the same as a year ago, being 1,711,000 boxes, against 1,728,000 boxes. Quebec makes, 10%c. to 10%c.; Townships, 10%c. to 111c., and Ontarios, 111c. to 111c.

Grain.—There has been a distinctly stronger tone in the market for oats. No. 2 Canadian Western sold at 39c. to 391c. per bushel, car lots ex store; No. 1 extra feed, 38%c.; No. 3 Canadian Western, 38c. to 384c.; No. 3 local white, 374c., and No. 4, 36[‡]c. Manitoba No. 4 barley, 48c. to 48ic., and feed, 47c. to 47ic No. 3 yellow corn, 56%c. to 57c.

Flour .-- The market for flour showed no change, being \$5.80 per barrel for Manitoba first patents, \$5.30 for seconds, and \$5.10 for strong bakers'. Ontario patents were \$5.15 to \$5.40, and straight rollers were \$4.70 to \$4.90.

Millfeed.—Ontario bran, \$18.50 to \$19 per ton, in bags; middlings being \$22.50 to \$23; pure grain mouille, \$31 to \$32; mixed mouille, \$25 to \$28; Manitoba bran, \$18, and shorts, \$22. Cotton-seed meal, nominally, \$37 to \$38.

Seeds.-\$7 to \$8 per bushel for red clover, at country points, and \$6 to \$8 for alsike.

Hay .- \$11 to \$11.50 for No. 1; \$10 to \$10.50 for No. 2 extra; \$9 to \$9.50 for No. 2: \$7.50 to \$8 for clover mixed, and \$7 to \$7.50 for clover.

Hides .- Dealers report an advance in the price of sheep skins, quotations being 55c. to 60c. each. Tallow very scarce, and prices stiffened to 11c. to 4c. per lb. for rough, and 61c. to 7c. for rendered. Beef hides steady, at 8c., 9c. and 10c. per lb., for Nos. 3, 2 and 1, respectively, calf skins being 10c. for No. 2 and 12c. for No. 1.

Chicago.

Cattle.-Beeves, \$4.50 to \$7.50; Texas steers, \$4.10 to \$5.40; Western steers, \$4.10 to \$6.75; stockers and feeders, \$3.35 to \$5.60; cows and heifers, \$2.25 to \$6.25; calves, \$6.50 to \$10.25.

i, ht draft, 1,400 to 1,500 lbs., \$300 each; light horses, 1,000 to \$7.60 to \$8.20; heavy, \$7.45 to \$8.50;

1815

arities," ered the oractical. d alarm from the tar.

onsidered

e to at-

REVIEW OF LAST WEEK'S MARKETS The total receipts of live stock at the City and Union yards last week were:

Cars Cattle	4,590	Union. 244 3,768 2,716	Total. 524 8,358 7,6 34	
Hogs Sheep Calves Horses	4,435	3,818 95 50	8,253 337 51	

The total receipts of live stock at the City and Union Stock-yards for the corresponding week of 1909 were as follows:

urs utle ogs uvep	5,139	Union. 156 2,422 1,487 2,293 79	Total. 429 6,653 6,626 5,420 394
orses	11	120	131

The combined receipts of live stock at the two yards, show an increase of 95 carloads, 1,705 cattle, 1,008 hogs, 2,833 theep and lambs; but a decrease of 57 aives and 80 horses, compared with the presponding week of 1909.

Receipts of live stock at both markets the liberal, considering the season of vear. Shipments from the Northin my carloads of both butchers' and tations. Large, 12c.; twins, 12gc.

HAY AND MILLFEED.

Hay.—Baled, No. 1, \$12.50 to \$13; No. 2, \$11 to \$11.50, for car lots, track,

Straw.-Baled, in carolots, track, To-Toronto. ronto, \$6.50 to \$7.50.

Bran.-Manitoba bran, \$19 per ton; shorts, \$21: Ontario bran, \$20, in bags. Shorts, \$22, track, Toronto.

COUNTRY PRODUCE.

Butter.-Market steady; prices unchanged. Creamery pound rolls, 26c. to 27c.: creamery solids, 25c.; separator dairy, 24c. to 25c.; store lots, 21c. to

Eggs — Prices unchanged. New - laid, 35c. to 38c.; cold storage, 26c. to 27c. Cheese.-Market quiet, at unchanged quo-

\$225 to \$300 each; light horses, 1,000 to 1,100 lbs., \$100 to \$200; old and brokendown animals, \$50 to \$100, and choicest saddle and carriage animals, \$350 to \$500 each.

Dressed Hogs .- 10 to 11c., for choic-

Potatoes .- Green Mountains were in de mand for export, selling here at 80c. to 85c. per 90 lbs., for carloads, track, Montreal; Ontario and Quebec stock, 75c. to 80c. Five cents higher on Monday. Apples .- The market continued to advance. At the auction, No. 1 stock brought all the way from \$3.50 to \$5.10 per barrel, while Nc. 2 brought \$2.50 to \$3.50, and No. 3 brought \$2 to \$2.45. No. 3 Fameuse sold at \$2.75, and No. 1 high as \$6.50. Exports for week ending Nov. 5th, were less than half those for the corresponding week of 1909, while total exports for the season are only 140,000 barrels, against 403,000 a year ago.

Eggs.-There was a further advance in the market for eggs last week, owing, no doubt, to the falling off in production. No. 1 candled stock was quoted at 27c. per dozen, selects at 32c., and new-laid at 45c.

Butter.-On an advancing market, we quote creamery 244c. to 254c., covering all grades.

roughs, \$7.45 to \$7.65; good to choice, \$7.65 to \$8.15; pigs, \$7.20 to \$7.80. Sheep and Lambs.-Native, \$2.50 to \$4.25; Western, \$2.60 to \$4.25; yearlings, \$4.30 to \$5.50; lambs, native, \$4.75 to \$6.70; Wester, \$5 to \$6.65.

Buffalo.

Cattle.-Veals-\$7 to \$11.25; a few, \$11.50.

Hogs.-Heavy and mixed, \$8.10 to \$8.25; Yorkers, \$8.20 to \$8.80; pigs, \$8.30 to \$8.35; roughs, \$7.10 to \$7.25; stags, \$6 to \$6.75; dairies, \$8 to \$8.35. Sheep and Lambs.-Lambs, \$5.50 to \$7.15; yearlings, \$5 to \$5.25; wethers, \$4.25 to \$4.50; ewes, \$4 to \$4.15; sheep, mixed, \$2 to \$4.25.

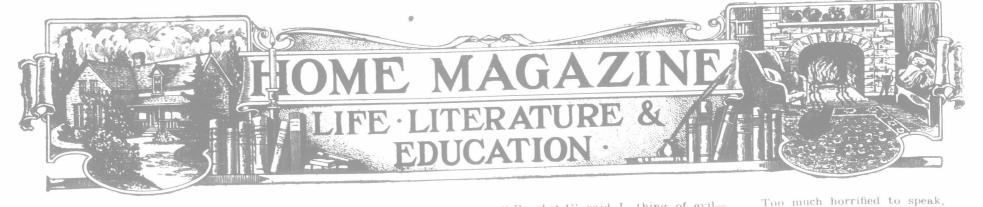
British Cattle Markets.

London and Liverpool cables quote American cattle at 13tc. to 14tc. per lb., dressed weight; refrigerator beef at 10c. to 10 c. per lb.

Cheese Markets.

Ottawa, Ont., white, 10%c.; colored, 11c.; Victoriaville, Que., 10%c. Picton, 11 3-16c. Galt, Ont., butter, 26c. Ont., and 27c.





Gleanings from Great Writers.

1816

The Raven.

By E. A. Poe.

Once upon a midnight dreary, while I pondered, weak and weary,

Over many a quaint and curious volume of forgotten lore-While I nodded, nearly napping, sud-

- denly there came a tapping, As of some one gently rapping-rap-
- ping at my chamber door. "Tis some visitor," I muttered,
- tapping at my chamber door-Only this and nothing more."

Ah, distinctly I remember, it was in the bleak December,

- And each separate dying ember wrought its ghost upon the floor. Eagerly I wished the morrow-vain-
- ly I had sought to borrow From my books surcease of sorrowsorrow for the lost Lenore-
- For the rare and radiant maiden whom the angels name Lenore-
- Nameless here for evermore.

And the silken sad uncertain rustling of each purple curtain

- Thrillod me-filled me with fantastic terrors never felt before
- So that now, to still the beating of my heart, I stood repeating
- "'Tis some visitor entreating entrance at my chamber door-
- Some late visitor entreating entrance at my chamber door.
 - This it is and nothing more.'

Presently my soul grew stronger; hesitating then no longer; "Sir," said I, "or madam, truly

- your forgiveness I implore;
- But the fact is I was napping, and so gently you came rapping,
- And so faintly you came tappingtapping at my chamber door-
- That I scarce was sure I heard you," -here I opened wide the door-Darkness there and nothing more.
- Deep into that darkness peering, long stood there wondering, fearing, Doubting, dreaming dreams no mor-
- tal ever dared to dream before; the silence was unbroken, and

shaven, thou," I said, " art sure no craven,

- Ghastly grim and ancient Raven, wandering from the Nightly shore-Tell me what thy lordly name is on
- the Night's Plutonian shore !" Quoth the Raven, "Nevermore."
- Much I marvelled this ungainly fowl Clasp a rare and radiant maiden to hear discourse so plainly,
- Though its answer little meaning--little relevancy bore
- For we cannot help agreeing that no living human being
- Ever yet was blessed with seeing bird above his chamber door-
- Bird or beast upon the sculptured bust above his chamber door, With such name as " Never-
- But the raven, sitting lonely on that placid bust, spoke only
- That one word, as if his soul in that

more.'

- one word he did outpoor. Nothing further then he uttered; not
- a feather then he fluttered-Till I scarcely more than muttered,
- 'Other friends have flown before-On the morrow he will leave me, as 'Other friends have flown before-
- Then the bird said, "Nevermore.
- Startled at the stillness broken by reply so aptly spoken,
- "Doubtless," said I, "what it utters is its only stock and store,
- Caught from some unhappy master, whom unmerciful Disaster
- Followed fast and followed faster, till his songs one burden bore-
- Till the dirges of his Hope the mel
 - ancholy burden bore Of 'Never-nevermore'.''
- But the Raven still beguiling all my sad soul into smiling,
- Straight I wheeled a cushioned seat in front of bird and bust and
- door; Then upon the velvet sinking, I betook myself to linking
- Fancy into fancy, thinking what this ominous bird of yore-
- What this grim, ungainly, ghastly, gaunt, and ominous bird of yore " Never-Meant in croaking more.'
- Thus I sat engaged in guessing, but

" Prophet !" said I, thing of evilprophet still, if bird or devil !

- By that Heaven that bends above us -by that God we both adore-Tell this soul with sorrow laden, if,
- within the distant Aidenn, shall clasp a sainted maiden
- It whom the angels name Lenore-
- whom the angels name Lenore ?' Quoth the Raven, "Nevermore."
- Be that word our sign of parting, bird or fiend !'' I shrieked, up-
- starting-Get thee back into the tempest and the Night's Plutonian shore !
- Leave no black plume as a token of that lie thy soul has spoken !
- Leave my loneliness unbroken !-quit the bust above my door !
- Take thy beak from out my heart, and take thy form from off my door !'
 - Quoth the Raven, "Nevermore."
- And the Raven, never flitting, still is sitting-still is sitting
- On the pallid bust of Pallas just above my chamber door;
- And his eyes have all the seeming of a Demon's that is dreaming,
- And the lamp-light o'er him streaming throws his shadow on the floor
- And my soul from out that shadow that lies floating on the floor Shall be lifted-nevermore !

The Bells.

By E. A. Poe. Ι.

- Hear the sledges with the bells-Silver bells
- What a world of merriment their melody foretells !
- How they tinkle, tinkle, tinkle, In the icy air of night !
- While the stars that oversprinkle All the heavens, seem to twinkle
- With a crystalline delight ; Keeping time, time, time,
- In a sort of Runic rhyme
- To the tintinnabulation that so musically wells
- From the bells, bells, bells, bells, Bells, bells, bells-From the jingling and the tinkling
 - of the bel

Out of tune, In a clamorous appealing to the mercy of the fire, In a mad expostulation with the deaf

They can only shriek, shriek

- and frantic fire Leaping higher, higher, higher,
- With a desperate desire, And a resolute endeavor
- Now-now to sit or never, By the side of the pale-faced moon. Oh, the bells, bells, bells ! What a tale their terror tells
- Of Despair ! How they clang, and clash, and roar!
- What a horror they outpour On the bosom of the palpitating air!
- Yet the ear it fully knows, By the twanging
 - And the clanging,
- How the danger ebbs and flows ;
- Yet the ear distinctly tells,
 - In the jangling
- And the wrangling, How the danger sinks and swells, By the sinking or the swelling in the
 - anger of the bells-Of the bells-
- Of the bells, bells, bells, bells,
- Bells, bells, bells-In the clamor and the clangour of
- the bells !

IV

Hear the tolling of the bells-Iron bells ! What a world of solemn thought their

monody compels t

In the silence of the night,

tone !

How we shiver with affright

At the melancholy menace of their

For every sound that floats

Is a groan.

And the people-ah, the people-

And who tolling, tolling, tolling,

On the human heart a stone-

And their king it is who tolls ;

They are neither man nor woman-

They are neither brute nor human-

They are Ghouls

They that dwell up in the steeple,

All alone,

In that muffled monotone,

Feel a glory in so rolling

And he rolls, rolls, rolls,

A pavan from the bells !

Rolls

From the rust within their throats

the darkness ga And the only word there spoken was the whispered word " Lenore !" This I whispered, and an echo murmured back the word "Lenore !"-Merely this, and nothing more

Then into the chamber turning, all my soul within me burning, Soon again I heard a tapping, some what louder than before. "Surely," said I, "surely that is something at my window lattice; Let me see, then, what thereat is and this mystery explore-Let my heart be still a moment, and this mystery explore-

'Tis the wind and nothing more.

Open here I flung the shutter, when, with many a flirt and flutter, there stepped a stately Raven of the saintly days of yore. Not the least obeisance made he; not an instant stopped or stayed he ; But, with mien of lord or lady, perched above my chamber door-Perched upon a bust of Pallas just above my chamber door-Perched and sat, and nothing more.

Then this ebony bird beguiling my sad fancy into smiling. By the grave and stern decorum of the countenace it wore, "Though thy crest be shorn and

To the fowl whose fiery eyes now burned into my bosom's core; This and more I sat divining, with my head at ease reclining On the cushion's velvet lining that the lamp-light gloated o'er, But whose velvet violet lining with lamp-light gloating o'er, She'' shall press, ah, never

more !

Then, methought, the air grew denser, perfumed from an unseen censer Swung by Seraphim whose footfalls tinkled on the tufted floor.

Wretch," I cried, "thy God hath lent thee-by these angels he hath sent thee

Respite-respite and nepenthe from the memories of Lenore !

Quaff. oh quaff this kind nepenthe, and forget this lost Lenore ! Quoth the Raven, "Nevermore!"

Prophet !" said 1. " thing of evil ' -prophet still, if bird or devil !-Whether Tempter sent, or whether tempest tossed thee here ashore, Desolate yet all undaunted, on this

desert land enchanted--On this home by Horror hauntedtell me truly, I implore-

Is there—is there balm in Gilead ?tell me—tell me. I implore ! Quoth the Raven, "Never more."

II.

Hear the mellow wedding bells, Golden bells ! What a world of happiness their harmony foretells ! Through the balmy air of night How they ring out their delight ! From the molten golden-notes, And all in tune, What a liquid dity floats To the turtle-dove that listens, while she gloats On the moon ! Oh. from out the sounding cells, What a gush of euphony voluminous ly wells ! How it swells ! How it dwells On the future ! how it tells Of the rapture that impels To the swinging and the ringing Of the bells, bells, bells, Of the bells, bells, bells, bells, Bells, bells, bells-To the rhyming and the chiming of

the bells !

III

Hear the loud alarum bells Brazen bells ! What a tale of terror now their tur bulency tells ! In the startled ear of night How they scream out their affright !

nis merry bos With the pæan of the bells And he dances and he yells : Keeping time, time, time, In a sort of Runic rhyme, To the pæan of the bells-Of the bells : Keeping time, time, time, In a sort of Runic rhyme, To the throbbing of the bells-Of the bells, bells, bells-To the sobbing of the bells, Keeping time, time, time, As he knells, knells, knells In a happy Runic rhyme, To the rolling of the bells-Of the bells, bells, bells-To the tolling of the bells, Of the bells, bells, bells, bells, Bells, bells, bells-To the moaning and the groaning of the bells.

Canada's Lead in Church Union.

Following the lead of Canada in the movement for the union of the Presbyterian, Methodist and Congregational Churches, Australians have come to realize the waste and the weakness of church divisions and the shame and burden of outgrown sec tarianism. They have discerned that NOVEMBER 17, 1910

1866

k.

b the

e deaf

her,

moon

roar

g air!

ws ;

zells,

in the

our of

t their

their

throats

ple-

eeple,

lling,

ne-

lls;

bells-

S-

lls.

9-

aning of

hureh

nada in

Congre-

ans have

and the and the own sec ned that

of the

۲

oman-

uman-

ells

THE FARMER'S ADVOCATE.

Truth is above all creeds, and service to men more than the maintenance of names. Facing the situation with open hearts and minds, the result is a union movement not unlike that promulgated by the late Principal Cavan and others, of Canada, who became convinced what was the Christian and the common-sense thing to do. In furtherance of the reunion of the Christian church there, the Australian leaders have recently fortified themselves with complete data of the movement in Canada.

Hope's Quiet Hour.

Editor "Hope's Quiet Hour"

I am a reader of "The Farmer's Advocate," and enjoy Hope's Quiet Hour very much.

May I ask a favor ? Would you-kindly, in the near future, deal with the subject: 'Our Lord's teaching about the Supper.' -Matt. 26: 26 - 29.

Hoping and trusting for your explanation of these verses, 1 am, your friend. "LULU."

One Bread and One Body.

And as they were eating, JESUS took bread, and blessed it, and brake it, and gave to the disciples, and said, Take eat; this is My body. And He took the cup, and gave thanks, and gave it to them, saying, Drink ye all of it; for this is My blood of the new testament, which is shed for many for the remission of sins. But I say unto you, I will not drink henceforth of this fruit of the vine, until that day when I drink it new with you in my Father's kingdom .- S. Matt. xxvi.: 26 - 29.

In the letter given above, I am requested to explain these mysterious words. But that is a task far beyond my powers. For nearly two thousand years they have been studied prayerfully and carefully by many of the greatest men who have ever lived. The great sucrament of unity, intended to bind together in one communion and fellowship those who are-as St. Paul says-one bread and one body: "for we are all partakers of that one bread," has seemed to be a cause of endless strife. Some say that a miracle changes the bread and wine into the body and blood of Christ, and that there is no longer any bread or wine on the Table of the Lord. Though our Lord-after He said: "This is My blood"-called it "the fruit

of the vine. No, I can't explain the mystery; it is enough for me to believe it. We can't explain the lesser mystery of how dead things-such as bread or meat-become life to our bodies when we have eaten them. The life within us lays hold of them and transforms them into living flesh and blood, into muscles and nerves, into energy and thought and words. One person takes food and transforms it into music, another draws from it strength to soil, another turns it into se mons or books. No one can tell how the miracle is done. We know that our bodies will grow weak and die without food, we know that the dead food is our life, therefore we eat it in faith-and God does the rest. Can't we do the same in spiritual things? All through the centuries the noblest and holiest of God's saints have drawn life and power from the mysterious 'Lord's Supper.'' Round it are gathered to-day all that is glorious in music and beauty, and yet the sacrament itself is absolutely simple. Like Naaman, the Syrian leper, who was willing to do a "great thing" to be cured, and yet scorned the prophet's command to do such a simple thing as to wash himself-people willing to think that great efforts of their own can cure them of the disease I sin, but they scorn the simple remedy which God has commanded. If sin were disease that man could cure, he might egle his hardest, and then congratuhimself on his success; but it is not We are helpless to cure ourselves most respectable Christian is as helpin his own strength—as a degraded attast. As we draw life for our bodies in God, and can only breathe or work He gives us power, so we must also

do not believe. There is no modile patient, course. He has said : "I wept ye est digestion the flesh of the Son of man, and drink eateth My flesh, and drinketh My blood, My blood, dwelleth in Me, and I in him."

spiritual reality, eat His flesh and drink are presumptuously asking for help which

believe He is speaking the truth, or we daily food which would kill a typhoid

The bread and wine in the Lord's Sup-His blood, ye have no life in you. Whose per are not magical gifts, they can never do us any good without our own co-operahath eternal life; and I will raise him up tion. If you eat food and do not digest it, at the last day. For My flesh is meat there is no life or power added to the indeed, and My blood is drink indeed, body. It does harm. And if you dare He that eateth My flesh, and drinketh to pretend to draw near to God by coming to the Lord's Supper without any desire to get rid of your sins, without He said these strange words, and then any belief in Him, or with a heart burntold the disciples how they might, in true ing with anger, malice or envy, then you

quite good enough, pushed in without preparation. When the king saw this man, in his soiled garments, he was unwilling to receive him. All were "unworthy" to come, but only one came "unworthily." God calls us all, and we are all most unworthy to approach Him, to sit at His Table and be served by Him. But if we come confessing our sins and pleading the death of Christ as our hope of pardon, and His righteousness as our covering, then we shall drink in His Life and become one with Him and He with us.

DORA FARNCOMB.

The Beaver Circle.

[All children in second part and second books, will write for the Junior Beavers' Department. Those in third and fourth books, also those who have left school, or are in High School, between the ages of 11 and 15, inclusive, will write for Senior Beavers'. Kindly state book at school, or age, if you have left school, in each letter sent to the Beaver Circle.]

Our Next Competition.

Girls .- Write a composition about the picture, "Charity."

Boys.-Write a composition about the picture, "Hauling in a Six - foot Stur-

All letters to be received at this office not later than December 15th.

Our Last Competition.

The prizes in the last competition have been awarded as follows:

Girls.-Luella Killough, Annie Price, and "A Country Girl."

Boys .- Charlie Flatt, Charlie Patterson, Cecil Miller.

Honor Roll .- Dorothy Parson, M. G. Switzer, Dolly.

I may say that M. G. Switzer wrote a splendid composition, but failed in getting a prize because she left the "sermon" part out altogether. The little girl did not fall asleep in a parlor, but in church. Dorothy Parson also wrote a good composition, but made the little girl fall asleep the first time she went to church. Dorothy forgot that there was a "second" sermon.

Next time, the boys' essays will appear. ''Ladies first,'' you know, boys.

My First and Second Sermon. (Prize composition.)

Mary Elizabeth was a little girl about six years old, and, as one can tell by her dress, lived quite a long time ago. She went to school along with her brothers and sisters. The old schoolmaster was very strict and severe, but Mary was such a good little maiden that she had no need to fear him.

One day, Mary Elizabeth's mother said she would take her to church the next Sunday, provided she was very good for the remainder of the week, and she was, too. The next Sunday morning she arose bright and early. She was very excited about going to church, for, you



Charity (From a painting by Sydney Muschamp.)

His blood. If we call ourselves Christians, if we say we want the Life of God in our souls to give us spiritual power and holiness, and are NOT obeying the most solemn order of our chosen Master, then how can we dare to say we believe His words to be true? By our disobedience, we are proving that we don't believe.

I know that people offer excuses. If you saw Christ standing in the church, saying to all who are weary and heavy-laden : "Come unto Me !" would you laden : take the trouble to hunt for an excuse which might sound good enough for Him to accept? Would you not gladly draw near to Him who can help you, Whose love for you made Him willingly endure torture, shame and death?

you do not want, and braving the wrath of God. To do such a wicked thing would indeed be, as St. Paul says, to eat and drink unworthily, and so be "guilty of the body and blood of the Lord."-1 Cor., xi.: 27.

I feel sure that no reader of the Quiet Hour would act in this way.

That eleventh chapter of St. Paul's First Epistle to the Corinthians has frightened many people from coming to the Lord's Supper. They are so afraid of eating and drinking "unworthily" that they prefer to disobey their Lord's command altogether; forgetting that He has said "Except ye eat the flesh of the Son of man, and drink his blood, ye have no life in you." Is it not better to risk danger than to have "no life"?



1817

Hauling in a Six-foot Sturgeon.

What if other communicants do not live as they should ? To his own Master each disciple must give account. Christ is not asking you for your opinion of them-He can judge their case without your help. Has He ever once said that the bad behavior of one disciple is any excuse at all for the direct disobedience of another ?

But if His spiritual Food has not helped some other people whom we know, how think of bodily food again. You healthy ly accepted the purification and the spot- the snow lying on them to come showercan we expect it to help us ? Let us If we go to Him for life, we must as think of bodity not again. For neartiny by accepted the purincation and the spot- the snow lying on them to come shower-Fi it in the way He offers. Either we country people may draw strength from less dress. One, who thought himself ing to the ground. Never was Mary

But I think they confound the word "unworthily" with that very different word "unworthy." They know they are "unworthy" to come to God's Table, therefore they think they must come "unworthily" if they come at all. But that is a mistake.

A great king invited a great company of beggars to a feast. Each one, as he entered, was offered a bath and a beautiful robe. Those who felt that they were unworthy to eat at the king's table glad- the branches of the trees shook, causing

never been to see, she had as the church her parents worshipped in was about five miles away.

After breakfast, Mary Elizabeth's mother dressed her little girl in her new red-checked flannel dress, and her red Sunday coat with the red cape on it. Then she put on her little red-topped cap, with the fur around the edge and the little white feather at the side, and then her little gray leggings.

When all was ready, Mary Elizabeth seized her little red mitts and gray muff. and climbed into the sleigh along with her mother, father and brothers and sisters, and all started merrily on their The sleigh-bells jingled joyously on wav. the frosty air, keeping time to the pat. pat, pat, of the horses' hoofs upon the frosty ground. They almost flew past trees and bushes, all covered with a snowy film. The twigs and branches were encased in a coat of ice, which glittered as the sun sent his soft rays shining upon them. The shadows of the tall pines and cedars swayed to and fro on the sparkling snow. Some little snow birds fluttered among their branches, casting their tiny shadows between the shadows of the trees. Now and then

1818

Elizabeth so happy as on this day, her first experience at church, and never was a drive in the frosty air more appreciated than on this beautiful, sunny winter morning. Mary Elizabeth thought the snow was beautiful, for it was soft, and fine as powder. It glittered like diamonds in the sun. What could be more beautiful !

When they reached the church, her hands and feet were somewhat cold, but she soon got them quite warm again at the stove. Everybody was interested in the dear little lass, and asked her how she liked going to church, and if she was coming again, till she began to think it very nice to go to church. She thought the church was very beautiful. The pews were covered with beautiful soft velvet cushions, and she thought them very pretty. She loved to listen to the singing, joining in whenever she could. She listened intently to all the preacher said, for her mother would ask her the text when she got home, she knew, and, besides, she knew it was very ill-mannered to be looking around the room during the sermon. But she got very tired near the end. However, she managed to keep awake till the service was over.

The next Sunday she went to church again. She enjoyed the drive through the clear, frosty air, very much, but it was different in church, for the atmosphere was stuffy and hot, so hot that Mary Elizabeth took her hat off, and laid in on the seat at her side, along with her pretty little hymm-book. managed to listen to the fore part of the sermon without getting tired, but it was pretty hard to keep her eyes fixed on the minister all the time, and he said such big words, too. Who could expect little girls to understand such long words? Oh, it was terribly hard to keep those eyes open. She tried very hard, but somehow they would not stay open, and, before she knew it, almost, those dear little eyelids closed over her tired blue eyes, and she wandered off to dreamland with her little white hands tucked in her little gray muff, and her little curly head drooping over her shoulder. She slept on till the end of the service, and then her mother woke her up to get ready for She rubbed her eyes and wonhome. dered how she could have fallen asleep. I guess Mr. Sandman's clock must have

gone wrong. F. LUELLA KILLOUGH (Book IV.) Auburn P. O., Ont. (Book IV.).

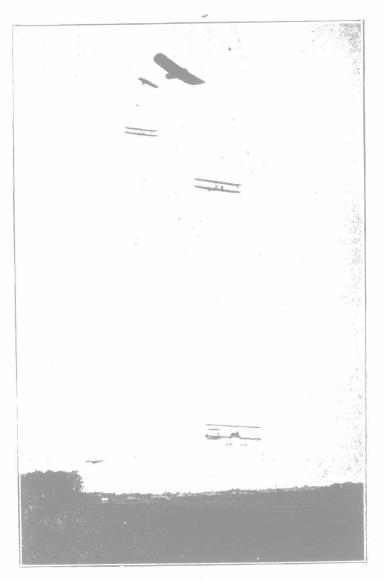
(Prize composition.)

Dear Puck and Beavers,-I have never written to the Beaver Circle before, so I thought I would like to begin by writing on your competition, "My First and Second Sermon.'

Little six-year-old Gertie Watson was the only child of Mr. and Mrs. Robert Watson, of the village of Oakville. Her father and mother were both dead, and she was taken to live with her aunt and grandmother.

This little town of Oakville was a new place, and, as yet, they had not built a church, and there was no Sunday which Gertie missed very much, but she and her aunt and grandmother generally spent an hour or two on a lesson every Sunday.

THE FARMER'S ADVOCATE.



Man Conquering the Air.

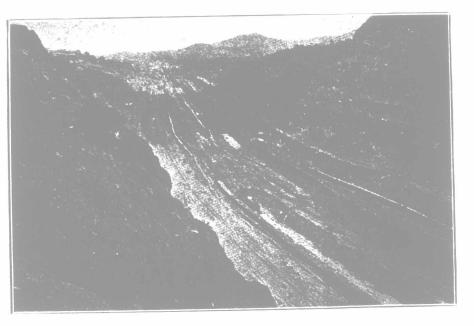
Five aeroplanes in flight at once, at Belmont Park, New York, a fortnight ago.

While Gertie sat there sleeping she had most anybody to go out for a drive to a dream, which was this: She and her church. little girl companion were strolling along on the river's bank one bright summer's afternoon, when, hidden in some bushes, they found a small baby wrapped in child, who was called Grace. blankets and lying in a basket. They noticed how carefully it was hidden, and years of age. nearby stood a girl watching it. As down to the river's edge. Seeing the her papa. Grace readily consented to child, she picked it up in her arms and go, as she had never been to church be-

in the story that she did not notice her. ary, such a morning as would tempt al-

There were a mother and father, namely, Mr. and Mrs. Scott, who lived about one mile from church. They had one She had a fair complexion, and was almost six

On this special morning, Mrs Scott they stood there wondering what it could asked her daughter whether she would mean, a very pretty young lady came not like to go to church with her and



FOUNDED 1866

decorated the walls, and also listened to the sweet strains of music. When the sermon began, she was greatly interested in it, because it was about the birth of Christ, and was also given in a way that would draw the attention of any child.

The next time she went to church, she thought the pictures were not so beautiful, and the songs not so sweet as be fore. She also thought the sermon tiresome, and she pushed her stool away from under her feet, and at last fell asleep. When she awoke from her sleep she saw the people getting ready to leave the church, then she quickly jumped up and went to her mamma.

On the way home, her papa asked her how she liked the sermon. She started to blush, and said, "I do not know, for I was sleeping.

A COUNTRY GIRL (age 14). New Dundee, Ont.

News of the Week.

Cable rates for ordinary messages are to be reduced by about one-half.

A new gold field, which promises vast wealth, has been discovered in Australia.

An English syndicate has arranged a \$5,000,000 lumber merger in British Columbia.

A School of Aviation is to be established by the Aerial League of the British Empire.

* *

* *

The Alberta Central Railway is applying for a charter enabling it to construct a railway from Saskatoon to Hudson's Bay

* *

The Montreal Association for the Blind is endeavoring to raise \$100, 000 to provide for the Englishspeaking blind the facilities for making themselves self-supporting.

* *

Mr. Bourassa has declared his intention of carrying his Nationalist campaign into Ontario, in order that he may make his attitude on naval and other questions clearly under-

* *

Significant returns in the recent United States election, which resulted in so signal a victory for the Democrats, are the victory of Dix over Stimson in New York, the election of Harmon as Governor in President Taft's home State, Ohio, and the election of Woodrow Wilson, former President of Princeton Unias Governor of the State of

When Gertie had lived with her aunt and grandmother nearly two years, the church was started, which was to be a very grand building. It was nearing the last of October when it was completed. It stood about half a mile from Gertie's home.

In the course of a few weeks a minister came, and then they had regular services every Sunday afternoon.

Gertie's grandmother was too old to walk the distance which lay between them and the church, so Gertie and her aunt went alone. Gertie wore a new red dress which her aunt had made for her, and her red cloak and little red cap. Before they started, her aunt told her that she must never go to sleep in church, so, of course, she would try her best not to. It being the first Sunday, and everything around her seeming strange, she kept wide awake, and enjoyed it so much that she thought she would like to go again, and she looked forward with great anxiety to the next Sunday. But things were not so strange then. The minister's sermon was about Moses in the bulrushes, which, of course. was very interesting, but, in spite of all. about the middle of the sermon Gertie fell asleep. Her aunt was so interested

Man Conquering Nature at Culebra.

How the work is progressing at Panama. "One finds it hard to believe that excavation of such staggering dimensions is the work of man. From Literary Digest.

up her mind that she would never sleep in church again, and she didn't. ANNIE A. PRICE (age 13 Book IV.). Mountain Grove, Ont.

(Prize composition.)

Dear Puck and Beavers.--It was a When they got to church, Gr. bright, cold, Sabbath morning in Janu- around at the many pictur-

ran home. At this point Gertie woke fore. Mr. Scott then rang a bell, which up, and was just in time to put her soon brought a servant to the door of penny on the collection-plate; and while the room that they were in. He then they were going home she firmly made told the servant to get the sleigh ready and take them to church.

Grace was dressed in a warm clock of a bright red color, and a cap to the term Mr. and Mrs. Scott were also furs, so none of them felt that cold, but enjoyed their ride great

The Way It Didn't Happen

Mother," said little Willie Jones. "If there's no work to do, I'd like to join the other boys

And go in swimming, too

'There's not a bit of work to-day,' Said Willie's mother kind ;

It's useful to know how to swim, So go,-I do not mind."

Father," said Willie to his pa, When he had older grown

I'd like to smoke and wish that I A brier pipe might own

And so you shall," said Willie's pa, Proud of his manly son And to the store he went to buy

A real expensive one. Dear folks," said Willie to them all

When he was twenty-three, I love Marie, and we're engaged,

And married soon will be." We love her so!" "She's just the girl!"

"The one for you we'd choose!"

Which goes to prove these lines are false.

- Clifford Trembly, in Puck.

certainly costs the Panama Canal a of noney trying to make both ends

The Roundabout Club

NOVEMBER 17, 1910

1866

en tho

erested

a way of any

ch, she

as be-beauti-as be-on tire-t away st fell or sleep coleave ped up

ked her

started ow, for

14).

ek.

ssages

ne-half.

omises

red in

ranged

ger in

be es

gue of

vay is

ing it Saska-

for the

\$100.

English-or mak-

his in-ionalist

ler that

n naval

under

recent

ich re-

for the

of Dix

he elecno<mark>r in</mark> , Ohio,

Wilson,

on Uni-

state of

1 1

A Word to Everybody.

You have not studied for years ? That does not matter in the least. You may study, whether your age be eighteen or sixty-eight. As a matter of fact, we should all be happier if we studied more or less all through our lives.

What has a farmer to do with such things? Or a farmer's wife? Or a farmer's son or daughter? Rather, what have these people not to do with them? Farming is one of the best of the professions, why should not the farm folk have the greatest breadth of mind and vision possible? Why should they not be among the most progressive people-as many of them are-so far as culture, and interest and mental alertness go? And how can anyone progress without trying ?

Then there are the long winter even-What are you going to do with ings. them? You may have chores to do that keep you late at work, or sewing or mending that cannot be done at any other time. In such case, you are doing your clear duty, and must leave your studying for a time of more leisure. But in case you have not these things, why not do something that may add to your culture, or train you to think a little more deeply, or both ?

There is one thing sure, no one ever yet undertook the earnest study of any subject whatever, without deriving therefrom a pleasure and a mental stimulus perhaps as unexpected as gratifying. The more we think, the more we can think. The more we refuse to use our brain, the more useless it becomes.

Now, to come to the point at which we have been aiming, what more convenient plan of study can you take up than these little Literary Society studies carried by our "Farmer's Advocate" right into your home? Why not try a few of them at any rate? And, why not, at the same time, start a Reading Club in your own neighborhood, or in your own family? No Magazine Literary Society can do everything. At best, it can only act as a side stimulus to individual home effort.

Our students of past years, we believe. never worked for remuneration. They worked for the love of the work itself, and for the benefit accruing to themselves therefrom. Nevertheless, it has been our habit to give souvenirs to those who took the highest marks. We are continuing this practice this winter, and with the "Raven" study are giving the following as souvenirs:

1. Five "Everyman" classics, bound in leather. Or, one large cloth-bound volume of the Nature series, profusely illus-

II. Three "Everyman" classics, bound

III. Two. similar classics

Study II .- The Raven.

in earnest in the latter part? Quote the line at which you notice the beginning of this change?

(11) Give the effect of the two conluding stanzas.

(12) Poe himself, was not satisfied with two or three of the phrases in this poem. Can you pick these out?

(13) Sum up the devices by which the poet attains Beauty throughout the poem. You may answer these questions in any order that suits you, provided you weave the whole into a graceful, interesting, comprehensive essay.

Kindly send all contributions so that they may reach this office not later than December 8th.

Address: "The Roundabout Club," The Farmer's Advocate," London, Ont.

The Young Man's Winter Evenings. By W. Watson Evans.

With the approach of winter and the restraint from outdoor life, the thoughts of young men instinctively turn to meet the question, "What am I going to do this winter?'

When the holiday season has quite passed, many of the boys-scarcely any home in this broad Dominion without a representative - return to their school, collegiate or university duties, there to pursue a definite course of study during the college year; but a greater number are left at home to plan their winter's avocation, often with no definite end in view

Of these, many will pass the time in non-productive pleasure and passive engagement. This is especially true of the city boy, where the lurid glare of the cheap show and the popular amusement house are strong to attract. Others will outline a suitable course of work for selfimprovement, planned not only to accomplish something of real worth, but also adapted to provide most genuine pleasure and satisfaction in the process.

We may here consider profitably the real goal of education. "To let each one become all that he was created capable of being," Carlyle held to be the highest realization of the spirit of learning. In consequence of its simplicity, its directness, and its truth, every young man might, with benefit, make of that sentence a clear, mental image, to guide his endeavors.

The selection of a course of winter study must be largely determined by the surroundings of the individual. To attain the goal of certain ambitions, chiefly professional, it is necessary to attend for long terms at our colleges and universi-The wisdom of such courses need not here be discussed. Our chief interest, however, centers around a course with a different motive, more identical with Carlyle's definition. The spirit of nobility, of moral chivalry surging in the breast of every young man, must awaken an irrepressible desire to attain to this fullest manhood, and to realize in himself the grandest capabilities of his being. To no more worthy end may he spend his evenings around the family fireside, with no more splendid example may he In order to save space, as well as in inspire his young friend, than to earnest-The spirit of education and true culture receives greater stimulus from the genuine appreciation of a few great thoughts and pure ideas, than from any amount of lifeless instruction. For the average young man seeking general instruction, the Literary page of "The Farmer's Advocate" will be found exceedingly satisfactory, and will furnish splendid material. This, with other general reading, may be supplemented by one or two good books for the year, the selection of which requires great care and considerable ex-The young man about to take into his hand the sacred ballot, or who has al-(5) Would any other bird have been as ready taken it, to be used as the instrument to decide great and far - reaching questions of tariff, of foreign policy, in (c) Do you notice any change in the fact all vital questions affecting the welfare of the nation, should know something definitely, and be possessed of information enabling him to judge soundly concerning these matters. Our muchboasted democracy and widely - extended Why does the poet make the night franchise, is well intended to defeat its own purpose, if the intelligence of the Why does he not make the poet and voter to settle the questions on which he and meet in the bird's natural is called to decide is not well assured Much may be argued in favor of an in-Why does the lover jest in the tellectual standard as a basis for the At any rate, no young man



Or three pounds of pork, or two pounds of veal. Whether figured by the pound or by actual units of health and strength,

bread made from

Royal Household Flour

ROYAL HOUSEHOLD FLOUR

good for growing children. They

can't eat too much of it. For their

general healthy growth and develop-

ment it furnishes an almost complete

food. As a matter of household

economy children ought to be given

all the bread they can eat at all times.

HOUSEHOLD FLOUR will

sustain life longer than animal food.

It is extremely rich in high quality

gluten which comes from the best

Red Fyfe Wheat-the finest in the

world. This large percentage of

high quality gluten is what makes

ROYAL HOUSEHOLD FLOUR

so much better than ordinary flour.

Statistics also prove that ROYAL

world over for its richness in high is the most economical food in the quality gluten. world. Especially is bread made from

The beautiful white color of ROYAL HOUSEHOLD FLOUR is natural. It indicates the richness of the wheat from which it is made.

The one safe rule in buying flour is to get ROYAL HOUSEHOLD and in that way you will make sure of getting the largest percentage of nourishment and the cleanest, purest and most uniform flour. Best for pastry as well as for bread plat. nour, Best for pastry as were as for bread. Rich, nutritive, natural, most uniform and most satisfactory for all household baking. Insist on ROYAL HOUSEHOLD—your grocer will be glad to furnish it if you tell him that substitutes will not do

"Oglivie's Book for a Cook", with 125 pages of recipes that have been tried and tested, will be sent free to your address if you mention the name of your dealer. 35 your dealer. The Ogilvie Flour Mills Co., Limited, Montreal.





Red Fyfe Wheat is known the

1819

ppen

у,

im.

hat I

Ŷ.

's pa,

uy

m all d,

the girl!"

are false,

n Puck.

Canal a both ends consideration of the excellence of the ly seek the source of knowledge. poem itself, it has been decided to use Poe's "Raven," which appears elsewhere in this issue, as a subject for Study II. Write an essay on "The Raven," embodying in it your answers to (or com-

lowing (1) Discuss the length of the poem. Would anything have been gained by mak-

ments, on, as the case may be) the fol-

ing it either longer or shorter? 2) What, do you consider, was Poe's prime motive in writing this poem ?

(3) What is the general tone or impression running through it?

(1) What is gained by the ever-repeating refrain, "Nevermore"

effective here as the Raven? Give rea-

some for your answer. state of mind of the lover as the poem

7). In which stanza is the climax whed ? Has it been reached in a way make it particularly effective?

it of the poem, and become fiercely suffrage.



For the best exhibit of

Turkeys, Chickens, Ducks and Geese

Judge: Prof. Frd. C. Elford, of MacDonald Agricultural College. Write for particulars and entry blanks.

GUNN, LANGLOIS & CO., LIMITED Montreal, Que.

CANADA'S LEADING PRODUCE AND POULTRY HOUSE

WHEN WRITING ADVERTISERS MENTION THE FARMER'S ADVOCATE.



1820

will ever regret the time spent in acquiring an elementary knowledge of political and economic laws. The daily press, f discriminately and carefully read, gives familiarity with many political and a few conomic movements. The latter might be well supplemented by some book of merit treating generally the scope of economic work, such as Gide, "Elements of Political Economy," an excellent and clearly-written work.

As a general preparation for good citizenship, such a training would be of great value, and would lend interest to the discussion of important questions and facilitate their comprehension. The scope of economics is unlimited, dealing with every conceivable phase of industrial and commercial life. Its study opens an inviting field for leisure hours, and insures a rich reward for all the time and labor expended. The young man on the farm will be greatly helped by following closely the scientific side of agriculture and improving the methods employed. But it is wise to cultivate a broader vision, and to feel an interest in, and a responsibility for, the progress of society and of general development. From such a viewpoint, interest will not only be aroused and sympathies broadened, but daily tasks, which, blindly pursued, are to all men in all vocations, an equal drudgery, will appear in their proper light, and the vision of work to be accomplished will transform the wearisome tasks of daily toil and selfish ambition. by the spirit of loving service.

In these days of golden opportunity there is much to be accomplished, but ery much to be avoided. Our city life s weary in consequence of a mad rush for unsatisfying pleasure. The crowd pulls the soul out of a man-and leaves him forsaken-incapable of independent thoughts. There is no retreat like the retreat of the family fireside. There is no pleasure like that afforded by noble and unselfish thoughts. A nation to be great, a people to be happy, must rely on "homes." Home may be made more cheerful, life may be made brighter and broader, by this winter reading and assimilating a few notable ideas stored up in our vast literature and inviting our

The Scarcity of Teachers.

By "Elizabeth Wood," Waterloo Co., Ont. A great deal is being said just now about the scarcity of teachers to fill the positions in our Ontario public schools Most of the blame is being heaped upon the head of the Government, where perhaps some of it justly belongs, but it seems to me that any thinking person particularly if they be an introspective school teacher, will easily see that some thing more than the re-establishment of Model schools is at the bottom of the

The course of training which a teacher must take now is much more expensive and does not admit of any teaching before the Normal course is taken. This no doubt, keeps many out of the profes sion who would otherwise be most suc cessful teachers. Of course, this method of training sends out more competent and thoroughly-trained teachers than heretofore, and the average age is higher. It also prevents teaching being a mere stepping-stone, as it has so frequently been in the past; but take for example a teacher who has put in the necessary years at a Collegiate and a year at Normal, and then finds from practical experience that he dislikes the work, and is not naturally fitted to make a successful teacher, is he going to lose that extra \$350 which his Normal training cost him and get into another and more-congenial profession ? No; I think not. He stays in the teaching profession and gets his money back, no matter what a poor teacher he may be. In the days of the Model school, a person had the oppor tunity to find out if the work was congenial before so much money was invested n training, and this naturally reduced profession These things may to some extent account for the seeming disinclination of many to enter the profession, but surely not for the decided tendency shown by many of our most - successful teachers to leave it for other work. If the conditions were as ideal as some people would have us believe, why do these teachers wish to seek pastures new What is the reason for the rush of our Untario teachFOUNDED 1856

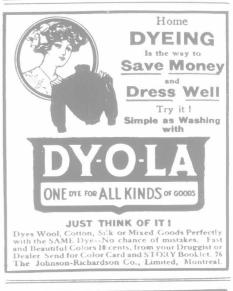
NO



Is a natural aid to natural beauty. It improves and preserves the complexion by removing the waste matter from the skin and the secretions from the pores. Freckles, Tan, Mothpatches, Sallowness and Muddiness disappear, so also do Acne, Eczema, Ringworm, Ivy Poisoning, etc. Price \$1.50, express paid.

SUPERFLUOUS HAIR MOLES, WARTS, RED_VEINS, etc., detract from one's appearance. These are cleared from the skin permanently without mark or scar by own method of Electrolysis. Satisfaction as sured. Booklet "F" mailed on request.

HISCOTT DERMATOLOGICAL INSTITUTE 61 College St., 1oronto. Established 1892





Condensed advertisements will be inserted under Condensed advertisements will be inserted under this heading at two cents per word each inser-tion. Each initial counts for one word, and figures for two words. Names and addresses are counted. Cash must always accompany the order for any advertisement under this heading. Parties having good pure-bred poultry and eggs for sale will find plenty of eustomers by using our advertising columns. No advertisement in-serted for less than 30 cents.

FOR SALE-Mammoth Bronze turkeys, of prizewinning stock. Eric Ritchie, Elm vale, Ontario.

OR SALE-Buff Orpington cockerels, \$1 each



I HAVE some grand birds, in R. C. White and Black Leghorns and W. C. Black Polands, at bargain prices. Robert Houser, Camboro, Ontario.

ARGE White Wyandotte and Brown Leghorn cockerels; also Black Minorcas, Rose and Single Comb. C. Day, Highgate, Ontario.

M AMMOTH BRONZE TURKEYS, Barred Plymouth Rock cockerels (Pringlestrain); also White Wyandotte cockerels and pullets (Martin and Russel strain), for sale. Alton Stevens, Lambeth, Ontario.

DEACHGROVE FARM offers Indian Runner ducks and drakes at \$1.50 each; also Single-comb Rhode Island Red cockerels at \$1.50. Frank Bainard, Glanworth, Ontario.

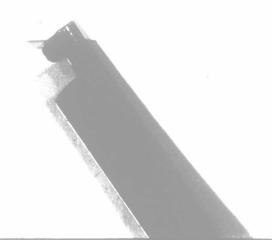
RHODE Island Reds, of high quality. W. J. Bunn, Spruce Grove Poultry-yards, Birr.

W HITE Holland turkeys for sale. Toms, \$4.00. Miss Mary Caldwell, Box 10. Shanty Bay, Ontario, Canada.

W ANTED-A few private farmers to ship me Poultry, Eggs, Dairy Butter, Honey, and all other farm produce. Will pay highest mar-ket price. W. J. Falle, Prince Albert Ave., Westmount, Montreal.

Westmound, monoton W RITE WYANDOTTES (Martin hatching), Rose-comb Reds (Klager hatching), cocks, cockerels, hens, pullets, one to three dollars each. Pens not related. Satisfaction guar anteed. Duncan McTravish, Chesley, Ontario

Housewife—Have you any musk melons? Illiterate Grocer-Mush melons? Yes: some people call them antelopes





White Black rt Houser.

wn Leghorn Rose and Ontario.

S, Barred agle strain); and pullets le. Alton

lian Runner each; also ockerels at Ontario.

lity. W. J. ards, Birr.

11

le. Toms. l. Box 10.

to ship me Honey, and ighest mar-lbert Ave.,

hatching), hing), cocks. sree dollars ction guar Ontario.

k melons? ns? Yes

Catalogue.

We have a copy of the catalogue for you, just waiting for your name and address. It's free-send for it now.

pay delivery charges on all goods shown in our General catalogue with the exception of a very few heavy, bulky articles.

Just write on a post card: "Please send me Christmas Catalogue No. 15." We will send it by return mail, prepaid.



ers to the West? It seems to me that reasons of these things may come under two heads. First, "Teaching as a hummers proposition," and second, "Teachng is an agreeable life-work."

Hamilton minister said some months ago. the thought of salary influence his acbe what he said. How many min-se what he said. How many min-ts in Ontario, 1 wonder, are preach-regardless of salary. Not many, I would look on an increase of \$150 in five fair-minded girl?

Now, take for an example of the busi-

think, for, after all, no matter what a years as a paying proposition, especially great sense of duty a person may de- when all possible increase ends here, and velop, the loaves and the fishes hold an no matter how many years of excellent important place in the calculations of work she may give the School Board, her salary remains stationary. And yet this town is above the average in point of The thought of salary influence his ac-tile thought of salary influence his ac-tile thought of salary influence his ac-tile thought of salary influence his acin choosing his school. I am sure and the teacher does not grow weary in sistants an initial salary of \$700, which figure at which they once stood, and the the reverend gentleman did not well doing, she will, at the end of five is \$150 more than the lady assistants rural teacher is in most cases drawing a

On the other hand, take the teachers whose positions are in the country. Owing to a much-needed and much-abused law passed by the Whitney Government, the rural salaries were regulated by the assessed value of the school section. Although this law has since been severely figure at which they once stood, and the Then, why are rural teachers so scarce?

You Can Work Near a Window



1822

in winter when you have a Perfection Oil Heater. It is a portable radiator which can be moved to any part of a room, or to any room in a house. When you have a



you do not have to work close to the stove, which is usually far from the window. You can work where you wish, and be warm. You can work on dull winter days in the full light near the window, without being chilled to the bone.

The Perfection Oil Heater quickly gives heat, and with one filling of the

font burns steadily for nine hours, without smoke or smell. An indicator always shows the amount of oil in the font. The fillercap, put in like a cork in a bottle, is attached by a chain. This heater has a cool handle and a damper top.

The Perfection Oil Heater has an **automatic-locking flame spreader**, which prevents the wick from being turned high enough to smoke, and is easy to remove and drop back, so the wick can be quickly cleaned. The burner body or gallery cannot become wedged and can be unscrewed in an instant for rewicking. The Perfection Oil Heater is finished in japan or nickel, is strong, durable, well-made, built for service, and yet light and ornamental.



Anyone who has ever taught in the country will tell you. None of the farmers near the school want to be bothered with you in their homes, and when a reluctant entrance into some family is given you, there is, in all probability, a walk of a mile and a half or two miles between the school and your boarding-house. You must carry a lunch, eat it in unappetizing surroundings, amid the breath - laden air of the usual unventilated schoolhouse. Then the long walk back to your boarding-house after school. You are dependent upon strangers to carry you to and from trains, to see that your trunk is looked after, and to bring your mail. You have few social advantages, scant chance reading matter, and endless trivial gossip to put up with. Then, too, there are often children in the home, and when one has been shut up with them all day long, it is rather a cross to hear school, in all its phases, discussed during the evening. Of course, I am glad to say that there are exceptions to this state of affairs, but these are the average conditions which the teacher in the average school - section has to confront.

The salaries in the West certainly are higher than here, and even if your expenses are greater, you have the satisfaction of handling the money, anyway. It seems to me that there is something radically wrong with any educational system which will allow almost two thousand uncertified teachers to do work in the Ontario schools in the year 1909 and 1910. What is the satisfaction in attending the Normal school and struggling for your Junior Teachers' certificate when Collegiate pupils who have failed to obtain this certificate, and have not had one day's training which would practically or theoretically fit them for teachers, are holding good positions and receiving the same salaries as those who are qualified, or within a few dollars of the same salaries. I wonder if this condition of affairs would be tolerated in any other profession? The plea that no better teachers can be had is nonsense. Let these schools which are so situated offer a salary of six hundred dollars, and they would see how readily the positions would be filled, for what would then be the use of our teachers going West if good salaries could be obtained at home?

So much for the financial outlook of the teaching profession, and now let us view it from the standpoint of its pleasantness as a life-work. We have already touched on some of the unpleasant points confronting the average teacher in rural sections, now we shall take teachers as a whole. Elbert Hubbard says that in order to know what true happiness is one must have done good work. This may be true, but if Inspectors' reports may be taken literally, I have done good work, and never for an instant has it resulted in true happiness as far as my work was concerned. I have always disliked it, and have grasped the first opportunity to leave the profession for more congenial and more remunerative work.

I think that one of its most outstand-

FOUNDED 1866

Now, while I have much to say in favor of those unplucked flowerlets, yet teaching is not the profession which one would choose in which to spend those years, and it is this very outlook, coupled with the poor salaries paid, that is causing all this commotion im regard to the scarcity of teachers.

The Ingle Nook.

[Rules for correspondents in this and other Departments: (1) Kindly write on one side of paper only. (2) Always send name and address with communications. If pen-name is also given, the real name will not be published. (3) When enclosing a letter to be forwarded to anyone, place it in stamped envelope ready to be sent on. (4) Allow one month, in this department, for answers to questions te appear.]

Just a very few lines this time, but really Christmas is so near that suggestions for presents must go in now or never. Are you raking your brain to know what to give to grandma, having already given her so many aprons, caps



Dutch Collar and Handkerchief, Embroidered.

and knitting-bags that she doesn't know what to do with them? Then, how would a hot-water bag, with a knitted cover, do? She will find it of plenty of use for cold feet during the winter, and when twinges of rheumatism come. Knit the cover of cherry-colored wool, with a ruffle all round, and draw up with a ribbon to match at the top.

Among the things that you can knit for someone else are "fronts," to slip inside of open-necked coats, silk ties for the boys, the inevitable bedroom slippers, and a tea-cosy—the very best kind going, made of pretty, soft wools, knitted in rib



.

Colds are the origin not of draughts, but of stuffy rooms." Other famous London physicians back up Sir Frederick in holding that no cold was ever caused by draught.

to make the house practically air-tight, we have in a death dealing atmosphere, breathing air vitiated with the vapor elimination from the lungs of the occupants and the organic secretions and moisture from the pores

of the skin. There should be humidity, but it must be pure and refreshing as that of the outdoor air, and it is through the introduction of fresh outdoor air and its ample humidification by means of the large Circle Waterpan that the

GOOD CHEER^{*}

Circle Waterpan Warm Air Furnace

makes the atmosphere of the house in winter like that of a bright June morning—warm, refreshing and life giving.

The demand for our booklet "Humidity and Humanity" is taxing the capacity of our mailing staff, but we have a copy for you upon request, stating where you saw this advertisement.

The JAS. STEWART MFG. CO., Limited, woodstock, Ont. - - - WINNIPEG, Man.

Please Mention The Advocate

disadvantages is one's disposition. The teacher is there to criticise, and is constantly on the lookout for mistakes rather than perfections. What effect will a year or two of fault-finding have on the sweetest disposition. That teachers invariably talk shop, speak in loud voices, express cut-and-dried opinions, which in some respects resemble the laws of the Medes and Persians, and expect their views to be unquestionably assimilated by their hearers, is only the natural result of the environment in which they work day after day. If the salary received was enough to recompense them for this deterioration in social charm, if anything could recompense them. then it might be a different matter, but is it worth while losing all this, merely to be able to draw an annual \$400, and wear an "l've-done-my-duty" expression ? When would-be teachers of a discerning mind see the effects of the work on their professional sisters, who can blame them for avoiding it, or for seeking pastures new before its hall-marks are irrevocably fixed. Just here, I may be pardoned for quoting a verse which I saw in an Edu-cational Journal of some note. People will laugh at it, but, after all, there is some truth in it :

"Teachie, teachie, all day teachie, All night longie, markie papers. No more huggie, no more kissie, Poor old maidie." Embroidered Whisk Cover. (Pictorial Review.) Ű

design, exactly like a bag open at the bottom. Fut a ruffle around the top, and draw in with a ribbon. And have you ever given anyone a set of washcloths in a fretty cretonne bag, or a pocket lined with oiled silk? Knit the cloths leasely of knitting cotton, and put a loop on each to hang it up by while drying.

Fine holdsershief linen may be made into damay estars and handkerchiefs, by embreidering a little in some simple pat-



ED 1866

o say in rlets, yet which one end these k, coupled it is causrd to the

)**K**.

and other one side of he and ad-name is also published. rwarded to e ready to th, in this to appear.]

time, but at suggesa now or brain to a, having cons, caps



kerchief.

sn't know l'hen, how a knitted plenty of inter, and me. Knit ol, with a ip with a

can knit ," to slip k ties for slippers, ind going, tt<mark>ed</mark> in rib

THE FARMER'S ADVOCATE.

tern, while the heavier linens may be made into a variety of things, doilies, center - pieces, whisk - holders, magazinecovers, book - covers, cushion - tops-their name is legion.

Re Stencilling-Scones.

Dear Dame Durden,-Enclosed is one

dollar (\$1.00) for stencilling outfit. I have been reading every article I saw in connection with the work, and from what instructions I have gained, would like to try it.

In May 20th number, there was an article on stencilling, and it said to mix the paint with naphtha. Would you kindly tell me what it is, and if you use it in place of turpentine?

I will send some recipes, as they may help others.

Scones .- Four cups flour, 1 cup butter (but I never use that much), 1 cup currants, 1/2 cup sugar, 1 egg (save out a little of the white), 2 teaspoons baking powder, 1 small teaspoon of soda, 1 cup sour milk (or as much as required), salt. Cut in diamonds, then paint the top with the white of egg.

Potato Scones .- One cup flour, 1 cup mashed potatoes, 1 teaspoon baking powder, 1 teaspoon salt, 1 tablespoon butter, milk to make a soft dough.

Brown Biscuits.—One egg, & cup sugar, 2 tablespoons baking syrup, salt, a little spice, 1 cup cream, 1 cup buttermilk, 1 teaspoon soda. Use half bran and flour. S. N. G. Bake in muffin rings. Dufferin Co., Ont.

As naphtha is very inflammable, something like gasoline, we would advise you not to use it in winter when fires and lights must be about. Use turpentine. The instructions that go with the patterns say to use dye, but it appears that the turpentine and tube paint washes best. By the way, I neard yesterday of a girl who is very successfully using the tube paint alone without any medium.

A Belated "Opinion." How to Amuse Children on a Rainy

Day. "Blessed is the woman that hath plenty to do, for her children learn how to amuse themselves." Rainy day or sunny day, matters little to them; they have learned to rely on their own resources.

A woman with help says, "Mary, you finish this; I must take him-he is crying." Without help, she says, "I can't take the wee man-mamma must finish this," and so, from the cradle they learn to make great airy nothings out of the potato-masher, egg-beater, or pie-tins, and thus amuse themselves.

As the children grow older, they are about the busy mother. On baking days they will pare apples for the pies, knowing they are quite sure of a piece sprinkled with sugar, or maybe a bit of dough to make a pie for themselves. On cleaning days, they can do their share of the dusting, etc.

Often, we mothers grow weary with the continual round of work, but I do think that self-reliant children is one of the compensations. But rainy-day amuse-ments was to be my excuse for writing

Ser. M.

1823

Advertisements will be inserted under this heading, such as Farm Properties, Help and Situations Wanted, and Pet Stock. TERMS-Three cents per word each insertion. Each initial counts for one word and figures for two words. Names and addresses are counted. Cash must always accompany the order. No advertisement inserted for less than 59 cents.

AGENTS WANTED-For two new lines. Ap-ply for particulars to The Electric Beans Chemical Co., Ltd., Dept. A., 228 Albert Street, Ottawa, Ontario.

BRITISH COLUMBIA FRUIT FARMS-\$10 cash, \$10 monthly, in "Glorious Kooto-nay." Fertile. No irrigating. Mild elimate. Free booklet bu-Investors' Trust & Mortgage Corporation, Ltd., 134 Hastings W., Vancouver, B. C.

FOR SALE-Iron, Pipe, Pulleys, Belting, Rails, Chain, Wire Fencing, Iron Posts, etc.; all sizes very cheap. Send for list, stating what you need. Agents wanted; good commission. The Imperial Waste & Metal Co., Queen St., Montreal.

FARM FOR SALE-Consisting of 370 acres of choice land, in the Township of North Dorchester, County of Middlesex. This is a splendid dairy farm, and is close to cheese factory, post office, and other conveniences. Only small payment required. Apply at once to J. Garfield Gibson, Barrister, Ingersoll, Ont.

FOR SALE-145 acres-in Oxford County. Clay and sandy loam. About 100 acress cultivated; balance in bush and pasture. Good house, stone bank barn, straw shed and drive house. Five miles to good market. Post office, store and school close by. This is a splendid chance for a renter to acquire a good homestead at a big bargain and on easy terms of payment. Apply to A. O. Jeffery, Barrister, Market Lane, London, Ont.

FOR SALE-Woodside Farm, six hundred and twelve acres, or would divide into three hundred-acre farms. One of the best farms in Ontario. Situated east of Brantford. For full particulars, write E. Todd, Caledonia, Ont.

(T OOD cattleman or farm hand wants situa-tion. Apply: G. Willis, Ore, Ontario.

V ANCOUVER ISLAND offers sunshiny, mild climate; good profits for ambitious men with small capital in business, professions, fruit-growing, poultry, farming, manufacturing, lands, timber, mining, railroads, navigation, faberles, new towns; no thunder storms; no mosquitoes; no malaria. For authentic information, free booklets, write Vancouver Island Development League, Room A, 102 Broughton St., Victoria, B.C.

W ANTED-Situation as herdsman; life ex-perience; good milker. H. Burbidge, care Mr. Harris, 81 Terauley St., Toronto. Burbidge,

WANTED TO PURCHASE-Timothy, Cana-dian Blue Grass, Kentucky Blue Grass, Alsike and Red Clover. Send samples and prices to Box G S, "Farmer's Advocate," prices to B London, Ont.

WANTED-A bright, capable young man (preferably a farmer's son), to take charge of delivery end of a retail milk busi-mess. Must be well recommended and have ability. Also a capable man to work in the bottling department. Apply: Box 65, Mont-real West real West

W ANTED-Permanent position as hired help in good Protestant home. Country preferred. State wages. Ruth Mulholland, Mitchell Optarie Mitchell, Ontario.

The Delhi Tannery Wanted 2,000 horse and cattle hides to tan for robes, coats, etc. All kinds of hides, skins and furs dressed soft and pliable. Deerskin for buck, or with the hair on. Seed them to me and have them dressed right. **B. F. Bell, Delhi, Ont**.

**************** The Best Cough Syrup is Easily Made at Home. Costs Little and Acts Quickly. Money Refunded If It Fails. +·····

This recipe makes 16 ounces of cough syrup, saving about \$2, as compared with ordinary cough remedies. It stops obstinate coughs — even whooping cough—in a hurry, and is splendid for sore lungs, asthma, hoarseness, and other throat troubles. throat troubles.

throat troubles. Mix two cups of granulated sugar with one cup of warm water, and stir for 2 minutes. Put 24 ounces of Pinex (fifty cents' worth) in a 16-oz. bottle, and add the Sugar Syrup. Take a teaspoonful every one, two or three hours. Tastes good.

This takes right hold of a cough, and gives almost instant relief. It stimulates the appe-tite and is slightly laxative—both excellent fea-

TO

Mexico, Colorado, California and Pacific Coast Points

FEATURES

TO THE SUNNY SOUTH No more desirable route than via Grand Trunk and connecting lines.

VERY LOW RATES

- · B

SMU

and its attack upon grain

NOVEMBER 17, 1910

Used and recommended by Agricultural Colleges and Experimental Farms.

of Toronto, Ltd.

A.- Interior of younggrain or smith ball. B.- Chaff scales. ... C, Germ tubes of smut fungus travelling up the stim and entering obule The smut continues to keep pace in its growth with

the wheat, and when the heads appear, the wheat plant directs all its energy to the production of seed. The smut fungus, however, prevents this, as it enters the blossom and feeds on the nutritive material that the plant elborates to store up as starch and gluten The grain is thus replaced by a thick mass of smut spores.

Formaldehyde properly used prevents Smut.

WATCH FOR THE NEXT DRAWINGS

Pamphlet regarding Smut mailed free on request to

The Standard Chemical Company

MANNING CHAMBERS

TORONTO

GRAND TRUNK RAILWAY WINTER TOURS

The Grand Trunk Railway System is the Popular Route from all points east through Canada via Chicago.

Double Track, Fast Service, Finest Roadbed, Modern Equipment, Unexcelled Dining-car Ser-vice. All elements of safety and comfort.



VIC

over. Review.)

en at the i the top, And have of washbag, or a Knit the on, and put p by while

y be made erchiefs, by simple pat-

Pinex, as perhaps you know, is the most valuable concentrated compound of Norway white pine extract, rich in guiacol and the other natural healing pine elements. No other preparation will do the work of Pinex in whis recipe, although strained honey can be used instead of the sugar syrup, if desired desired

desired. Thousands of housewives in the United States and Canada now use this Pinex and Sugar Syrup recipe. The plan has often been imi-tated, but the old successful formula has never been equalled. Its low cost and quick results have made it Immensely popular. A guarantee of absolute satisfaction, or money

A guarantee of absolute satisfaction, or money A guarantee of absolute sufficient this recipe. Your promptly refunded, goes with this recipe. Your druggist has Pinex or will get it for you. If not, send to The Pinex Co., Toronto, Ontario. Your

the second s A REAL EDUCATION

for its studbats, with mental, spiritual, and physical development, in an ideal home environment — with therough inhome environment — with thorough in-struction, and ug eeable social relations, is the purpose of Alma College. Your daugater will enjoy life here, because

ALMA COLLEGE the second s

is attractive in situation, with ample as attractive in situation, with ample grounds. Good food, home cooked, Rational exercise. Classics, art, music, domestic science, commercial, elocution and physical culture. Tuition low. Picked faculty. Address the president, Robt. I. Warner, M.A., D.D., St. Thomas, Ontarie, for prospectus and terms. 11 GRAND TRUNK AGENT, or address

J. D. MCDONALD. District Passenger Agent. Union Station, Toronto, Uniario.

A FLOOD OF LIGHT FROM KEROSENE COAL OIL THE ALADDIN MANTLE LAMP gene-rates, with Coal oll (Kerosene), a light far more brilliant than gas or electricity. It is simple, durable, portable, odor-less and safe. Satisfaction guaranteed. ess and safe. Satisfaction guarant AGENTS MAKE BIG MONEY

AGENTS MAKE BIG MONEY by showing the hump, the light makes the sale. It revolutionizes rural light-ing; needed in every home. The SUNBEAM burners fit all ordinary lamps. Ask for Agency proposition or how you can obtain a lamp FREE to introduce it.

The MANTLE LAMP CO. of America, Chicago. Winning and Dept. R MONTREAL. Winnipeg and Dept. B,

GILL & ASKIN of Cooksville Will have a dispersion sale of Registered Hackneys

Burns & Sheppard Repository , Toronto ON TUESDAY, NOVEMBER 22nd Write for catalogue.

a letter, so I had better get started. Well, usually, himself is about the buildings somewhere, and nothing suits the wee ones better than to be bundled up and allowed to go wherever he is, and there they will stay until their hands and noses are blue. Then comes a stampede for the house, and off come their coats and hats, rubbers and boots, and away to their play room they go.

Have you a play room for the children? If not, plan to have one this winter. There is generally a room over the kitchen which is kept warm from the kitchen stove, and while they are there, you know very nearly what is going on. Here they keep their playthings, and they can cut papers or move the benches, tables and chairs around to please themselves. Most children like playing school, or store-keeping, or going to church, and, having a room to themselves, they can call it what they please.

Cutting pictures from magazines is one of their pastimes, and it is a great treat if you allow them a bit of paste to make a scrapbook.

Instead of buying candies, try a box of crayons or water-colors. They will paint by the hour-the pictures on the advertising pages of our newspapers, and one boy I know made quite a pretty effect

A New Breakfast Food.

High and low he searched for the bag of confetti he had brought home on the previous evening for his son and heir, but his efforts were not rewarded with success. Where on earth had he put it ? What had become of it? With every minute he became more irate, till finally he rang for Bridget. "Bridget," he exclaimed, testily, "Did you see that bag of confetti I brought home last might for Freddie?"

"Sure, an' Oi did, sorr!" brogued out "But Oi didn't know it was Bridget. only for Mhaster Fred. There's but half av it left now."

"Only half of it left?" he cried. "What on earth have you done with the rest?" "Cooked it, av coorse," retorted Bridget; 'an' it's for yer own breakfast, with cream, ye had it this marnin'!"

"Did Tom have any luck hunting tigers in India?''

- "Yes; great luck."
- "How?"
- "He didn't meet any tigers."

HERE'S A GRAND CHANCE TO BUY A GUARANTEED OVERCOAT at \$13.50

Splendidly Tailored. WINDPROOF and WATERPROOF. Imported Black Beaver Cloth. MARMOT FUR COLLAR

The Description The material is of an imported black will interest you beaver cloth, smooth, rich finish, in the popular double-breasted style, and closes with loops and barrel buttons. It is interlined to the waist with rubber sheeting, making it windproof and waterproof. The body linings are a heavy curly cloth or imitation Persian lamb, warm and of good appearance. There is a knitted wool windproof cuff in the sleeve, and the fur collar is shawl shape, made from marmot fur, a dark brown shade similar to otter. The length of coat is 50 inches, sizes 34 to 46.

We will refund your money if overcoat is not satisfactory

We Give You You take no chances when you order **This Guarantee** this coat. Our Guarantee means all it says, "If vou are not entirely satisfied with your purchase we will gladly refund your money and pay shipping charges both ways." That's a fair enough offer, isn't it? What we say we will live up to, and no one should hesitate if they need a coat of this description. Think of the value you receive and the more than reasonable price asked; indeed, many will buy this coat as an investment, not so much because of a real need as the fact that it is a desirable overcoat at an

unusually good-value price. Again we say, order now, because we



1824

anticipate a brisk selling. Remember that our guarantee is your protection towards securing for you the satisfaction you expect to receive.

We want to sell 1,200 Overcoats, and at this price they'll go quickly



Length of overcoat, 50 ins. Chest measurement, 34 to 46

PRICE:

\$13.50

FOUNDED 1866

If you appreciate good value--ORDER NOW

A beautifully-illustrated clothing Booklet showing the newest Fall and Winter Styles in Men's and Boys' Clothing. Samples of cloth accompanying each price, making selection easy. Don't fail to write for this book,

"IT'S FREE FOR THE ASKING"

FUJI MICRO SAFETY -

N





NT

NOVEMBER 17, 1910

shading the maple leaves in autumn tints at the head of this "Home Magazine. Stringing Leads is another help. You can buy a little bag of beads for a cent, and they will keep the busy fingers occu-

19

pied for many an hour. Some children like to sew. Take a piece of pasteboard and prick out the outline of any drawing, and let them follow the outline with bright - colored thread.

But I could keep on until D. D. would be tired and slip the whole thing in the w.-p. b., so I will finish by saying that, when you write to Santa Claus this Xmas, just order a box of crayons, some water-colors, a few scribblers and leadpencils, a slate and pencil, a few bags of heads, and some picture blocks, and the children will be thankful many a long MARGARET. winter day. Grey Co., Ont.

Cradle Song.

(Sent by "Juanita.") Thy heart and mine are one At dawn and set of sun ; When skies are bright, when days are

drear, Thy heart and mine are one, my dear,

About us move the paltry folk Whom little things estrange ; The friends that feel their bond a yoke. The loves that lightly change;

But thou and I, my bonny child, Their dangers blithely shun, Nor can by sorrow be beguiled-For thou and I are one !

-Florence Earle Coates.

The Garden of a Commuter's Wife.

(By Mabel Osgood Wright.) II.

CONCERNING GARDENERS.

(In General).

October 27. In my childhood's garden of dreams there was no room for a gardener. To me that name meant a being who was the interferer. not the mediator between oneself and mother earth, a man who tyrannized and sulked by turns; in spring was blatant and self-confident; in autumn, owing to divers mistakes, usually indignant with the quality of the soil, the slope of the land, the amount of rain, and the date of the coming of irost; in short, made us feel as if we had combined with nature to bring about his martyrdom, which he bore with something akin to triumph, enveloping himself with a halo of fail-

A gardener is, of course, a necesto the very rich-those nates whose possessions have expanded alike beyond their personal control and out of the range of the affections-to the overbusy, the ignor ant, and the irresponsible. These iour classes may have a distinct yearning to grow flowers, fruits and vegetables, and yet, from the causes named are unable to assume the joyful responsibility of so doing. On the other hand, it is not needful personally to wield the spade that turns the soil, or trundle the barrow that carries the manure. Well-directed brute force does this far more admirably, and digging and dragging make one's pen hand, or thimble inger (according to sex and employment) wretchedly stiff, besides caus ing a wicked extravagance in the atter of shoes and laundry work. But if one fails to pervade the planting and training with individuality then is that garden like the proverbial egg without salt; and of such overdone, underdone, tasteless embryos there are plenty, and it is and people's fault if there are not It is merely because it is i licult to force nature into ungraced attitudes or inharmonious color-



Look for Full-fashioned Seamless Hosiery

WHEN it bears the Pen-Angle brand, you can be absolutely sure they will wear better than any other kind costing the same price. You can be absolutely sure they will fit better than any other kind at any price.

THE FARMERS ADVOLATE

Read the Guarantee printed here. You will then be sure that the largest hosiery mill in Canada would not risk its capital on such a Gaurantee unless it had the goods to make good. Reasons for this Guarantee are few and simple; chosen excellence in the cotton and cashmere yarns, for the first reason. For the others, being knit on machines we alone may use in Canada - machines that knit the hosiery to fit truly, with reinforced strength-for-wear at the places the wear comes. And seamless! Think what foot-ease that assures! Seamless!

Remember the name and the Trade-mark next time you go shopping. You cannot afford to overlook the perfect fit, style and comfort of Pen-Angle Hosiery.

FOR LADIES

No. 1760—"Lady Fair' Black Cash-mere hose. Medium weight. Made of fine, soft cashmere yarns, 2-ply leg. 5-ply foot, heel, toe and high splice, giving strength where needed. Box of 3 pairs, \$1.50; 6 pairs, \$3.00. No. 1020—Same quality as 1760, but heavier. Black only. Box of 3 pairs \$1.50; 6 pairs, \$3.00. pairs \$1.50; 6 pairs, \$3.00.

No. 1150-Very fine Cashmere hose. Medium weight. 2-ply leg. 4-ply foot, heel and toe. Black, light and dark tan, leather, champagne, myrtle, pearl gray, oxblood, helio, cardinal. Box of 3 pairs, \$1.50; 6 pairs, \$3.00.

No. 1720—Fine quality Cotton Hose. Made of 2-ply Egyptian yarn, with 3-ply heels and toes. Black, light and dark tan, champagne, myrtle, pearl gray, oxblood, hello, sky, pink, bisque. Box of 4 pairs, \$1.00; 6 pairs, \$1.50.

No. 1175-Mercerized. Same colors as 1720. Box of 3 pairs, \$1.00; 6 as 1720. B pairs, \$2.00.

READ THIS REMARKABLE **GUARANTEE**

We guarantee the following lines of Pen-Angle Hoslery to fit you per-fectly, not to shrink or stretch and the dyes to be absolutely fast. We guarantee them to wear longer than any other cashmere or cotton hoslery sold at the same prices. If, after wearing Pen-Angle Guaran-teed Hoslery any length of time, you should ever find a pair that fails to fulfill this guarantee in any particular, return the same to us and we will replace them with TWO new pairs free of cnarge. We guarantee the following lines of

ORDER THIS WAY

ORDER THIS WAY Ask at the store first. If they cannot supply you, state number, size of shoe or stocking and color of hosiery desired and enclose price, and we will fill your order postpaid. Remember we will fill your order for less than one box and only one size in a box. BE SURE TO MENTION SIZE. SIZE. ADDRESS AS BELOW:

FOR MEN

No. 2404—Medium weight Cashmere. 2-ply Botany yarn with special "Everlast" heels and toes. Black, "Everiast" neels and toes. Black, light and dark tan, leather, cham-pagne, navy, myrtle, pearl gray, slate, oxblood, hello, cadet blue and bisque. Box of 3 pairs, \$1.50; 6 bisque. Bo pairs, \$3.00.

1825

No. 500—"Black Knight" winter weight black Cashmere half-hose. 5-ply body, spun from pure Austra-lian wool, 9-ply silk splice heels and toes. Box of 3 pairs, \$1.50; 6 pairs, 92.00 \$3.00.

No. 1090 — Cashmere half-hose. Same quality as 500, but lighter weight. Black only. Box of \$ pairs, \$1.00; 6 pairs, \$2.00.

No. 330—"Everlast' Cotton socks. Medium weight. Made from four-ply long staple combed Egyptian cotton yarn, with six-ply heels and toes. Black, light and dark tan. Put up in boxes. Box of 8 pairs, \$1.00; 6 pairs, \$2.00.

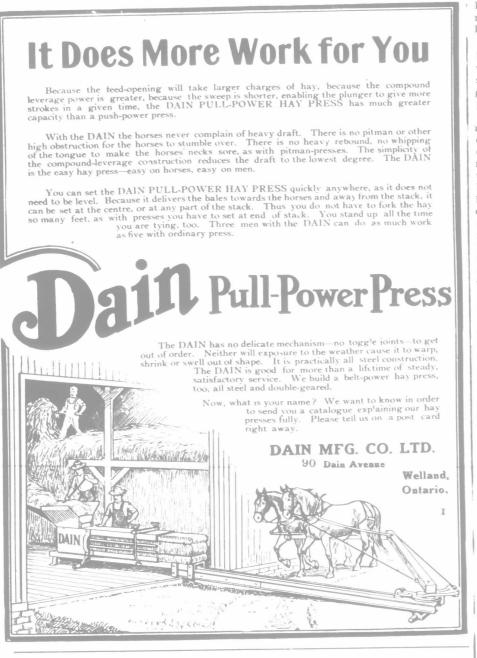


for years. Eve told Tompkins to nonette, and lavender sprigs. plant fragrant things, but he says lemon verbena isn't used now, and had a real gardener. She came from mignonette makes the border lines un-even, but it doesn't do to thwart days, the last child of all, and though rose, apple and nutmeg geranium, an- gardeners ignore, though through soil, that it still remains, after a

When mother was here, we never one's gardener, you know," was the her miniature makes her very lovely, a plaint of Mrs. Jenks-Smith, one of flower herself, father insists that to tatingly offered her a great bunch of well as many plants that modern planted, and was so wrought into the

"I haven't seen anything like this nual wall flower, lemon verbena, mig- their beauty, combined with their persistent permanence, their names are appearing once more in the seed catalogues

The garden helper, in her brief time, was a cheerful man of all work who dug and delved as she guided him, and so much of herself radiated from the summer colony on the bluff, when, paint her expression would have been her nook under the Mother Tree, with upon her going into my garden after impossible. She brought with her its vista down the long walk on a professional visit to father. I hesi- the will and skill of garden craft as either side of which the flowers were





EUREKA

1826

A WELL LIGHTED HOME

Make the home attractive and inviting by using a Rice-Knight Lighting System. Far cheaper and better in every respect than coal-oil lamps. Fixtures are modern and up-to-date, and equal to the highestpriced electric fixtures.

A clean, odorless, brilliant light, costing on y 1/2 cent per hour for over 250 candle power. Can be installed anywhere in the h me, church or store.

No more refilling lamps, cleaning chimneys, etc. Rice-Knight System requires practically no attention, and is always ready to light. You own your own gas plant at a small cost.

Write to-day for catalogue "D" and learn more about terful light Costs nothing to inquire

lapse of twenty years of more or less motiveless experiment, to give the keynote to the garden of my life.

Though I was very young, I remember the eagerness with which she watched for the seed catalogues, simple, convincing affairs lacking the gaudy color horrors from which, happily, we seem to be again emerging. When the lists had been duly made

and reconsidered-for the seed-lists of enthusiasts always have to be cut down and reconstructed-they were mailed. The second rapture was when the parcels came. Oh, the delicious smell of the manila paper bags that held the bulbs, and the damp, bog moss that wrapped growing roots, in which I remember once finding a cranberry plant with a berry, and thus learning that the red fruit did not grow upon a tree like cherries, as I had thought! These two odors are among my primary memories, not to be forgotten any more than I could forget mother's way of lingering over my name as she pronounced it, the sky light in her eyes, of the purple blue of the fringed gentian, or the expression of father's face when, on coming home from a long morning ride, he found mother among her flowers; she would bring him a welcome bit of luncheon and some cooling drink as he rested under the old apple tree, while she listened to his report of various happenings, and I absorbed scraps of food and conversation alike.

I never again saw that look in his eyes after mother went away, but one day its counterpart flashed from Evan's, and then I knew that we loved each other without a spoken word.

From that time on, father, with his increasing practice and the hospital to direct, had little time to give to outdoor details. He saw that the horses were always in good condition, for this was often a matter of life or death to some one. He fed his dogs, and clung to them for their silent friendship, as he sat in his study with his books, or, with his gun, strode off through the stubble fields, of an October morning; and he always liked to hale a posy on his mantel-shelf or writing-table.

Yes, one thing more : he told Aunt Lot to plan and plant as she pleased, but to make no change in the beds that followed the long walk, and spring and fall he watched the thinning out and resetting that insures the long lives of hardy plants, and letting only the most perfect blossoms mature their seed, until, year by year, new colors. fanciful hybrids, appeared in the borders, now a thickly-matted flower jungle.

Poor Aunt Lot and the man of all work soon disagreed, however; he was accustomed to have his day's soldier? While I, being eight at the toil planned for him by one who time, and much interested even then understood, and then do it in a in hospital talk, seriously thought methodical manner. Aunt Lot had of going to battle with him as never before cultivated anything more than a city "dooryard," or controlled any service but that of a broken-spirited maid of the poor relation variety, consequently she was incoherent and unreasonable in her directions, expecting him to sow and reap, so to speak, on the same day. I became fully impressed with this by the time 1 was six years old, and at this time, father, tired of settling differences, engaged a "gardener, thinking it would be easier to hold a man responsible than his elder halfsister, who always retreated behind a sort of concrete breastwork composed of reminiscences of his boyish shortcomings, relationship, and-tears. Father and Aunt Lot looked upon the gardener from different points of view. Aunt Lot used him alternately as a weapon or a patent of superiority to be worn at village teas father apologetically, as a housewife accustomed to New England thrift would refer to a housekeeper that she had been forced to employ, through her own incompetence : while I hated the gardener with the uncompromising honest hatred of childhood, cause, whether he was called John, Pat, or Peter, he in anably regarded my efforts as things of little account. trod on the shells that I brought from the shole with infinite labor to

FOUNDED 1866

edge my bit of flower patchwork, and in spring always dug up my bulbs and hardy roots because it was easier than to dig between them-a stern fact that sent me outside garden limits to the wild field beyond the strawberry bed, where I coaxed an intimate friend of mine, an up country boy named Dan'l, who brought berries to sell, and did odd errands for father, to dig up two long strips, one on either side of a grassy cart-track that had once led to a hay field, now reached by another road. Little I then thought that I was locating my garden of dreams.

The boy dug sturdily, the soil was black on top and mellow loam he neath-a happy combination, and my flowers throve far better than in the half-shady, badly-tilled garden bed.

I paid Dan'l with a jew's harp, two old but well-preserved valentines, and a purplish-red necktie which Aunt Lot had bought father, but which he had immediately concealed under some papers in his little room beyond his office where he kept his instruments, and then gave me for a doll's sash. The valentines must have signified more to Dan'l than they did to me, for he instantly began to lavish tokens upon me, hickory-nut beads, willow whistles, a homemade fishing rod, and a wreath of thistle puffs for my hat. This ornament I wore for several weeks until one fell day I left the hat hanging in the Mother Tree, and the yellow birds pulled the puffs apart to eat the seeds.

But the most-treasured gifts were the roots of the old-fashioned flowers that grew in unkempt wealth about his grandmother's garden. I had often been there when father visited the patient old soul, who was lame, and had admired the syringa, snow ball and filac bushes that almost hid the house from the road, while the cinnamon roses crept out between the palings, and straggled up and down the lonely cross-road as if hungering for news, while in August the white phlox escaping in the grass made a snowbank between the gate and the porch.

As I remember those valentines. which, by the way, had been given me by our cook, they were quite startling, and most unsuitable in their gender. One was surmounted by two paper-mache hearts, and bore the query, "Will you be my wife?" and the other had a scrap of looking-glass in the center, framed with the words, "In this you see the girl I love."

But such a mere detail did not dash Dan'l's ardour, for was he not ten years old, both romantic and chivalrous, and determined to be a a nurse



SANITARY CHURN

There's no comparison between the ordinary wooden churn and the "EUREKA". Barrel is stoneware—top is clear glass. Besides being absolutely sanitary, the glass

top enables you to see how the churning is coming along without opening the churn. Also made with Aluminum top.

The "EUREKA" is the easiest churn on the market to operate. By tilting back the frame until the weight rests on the wheels, the churn can be quickly and easily moved— while the barrel remain upright. If your dealer does not handle the "EUREKA," do not take a substitute but write us for catalogue.

EUREKA PLANTER CO. LIMITED, WOODSTOCK, ONT.

Please Mention this Paper.

Circumstances, however the chief among them being that there was no war at the time father, to whom as a matter of course I confided my plans, declined to go with us as surgeon, and what was the use of a soldier to shoot people and a nurse with bandages, if there was no one there to cut off legs ?—an amputation being then my idea of the treatment to be given all soldiers, while, lastly, at this juncture Dan'l left home to work for a grocer at another village. I saw him yesterday in town, delivering goods at the hospital from a neat, shiny wagon of his own. Alas for intentions, chivalry, and the daring soldier life ! The flowers of our childhood's friendship have been more enduring, however. His last gift was a small rosebush planted in a lard pail, to which he had given ventilation by perforating it with small holes.

"Granddad brought the bush this came off of from Boston b'fore I was born, and it's just bust itself growing, and we've given away lots of cuttings; but this isn't any cutting, it's a regular year-old plant." he said, as he thrust the pail at me. The plant proved to be a fragrant. clear white rose, with handsome dark





ED 1866

ork, and ny bulbs it was them-a side gar beyond I coaxed an up did odd up two side of a once led thought arden of

soil was loam he and my an in the en bed. harp, two ines, and ch Aunu which he d under oom be ot his in ne for a nes must n'l than antly be m<mark>e, h</mark>ick-listles, a a wreath This al weeks hat hang-i the yel-apart to

gifts were ed flowers th about I had er visited was lame, ga, snow lmost hid while the etween the and down hungering the white s made a and the alentines

een given ere quite itable in irmounted , and bore ny wife ?'' o of look med with see the

did not as he not intic and to be a ght at the even then thought him as

NOVEMBER 17, 1910

foliage, the lovely Madame Plantier that was brought over in the thirties, and has never been surpassed as a healthy, willing bloomer. Now, even in its leafless state, it is a giant shrub in my tangled-up child border, and will hold its place in the garden that is to be as well as mother's beds of hardy flowers. But of the perfunctory, skin-deep work combined of Aunt Lot and the four gardeners that separates mother's reign from mine, not a trace remains, save a few scars on the grassy slope beneath the study windows, that mark the location of some fantastic foliage beds, which, as for beauty or fragrance, might as well have been made of gay carpet or spotted calico.

The ingredients of this class of bed are always the same, though the and compounding-coleus in vars, red geraniums, alternanthera, dusty miller, hen and chickens, with salvias or cannas for centerpieces-all bined, affecting the color-sensitive like the sight of a stout, short-necked woman walking in the sun with a tight gown and high collar.

You are straying from gardens," murmur the leaves of my "Garden Boke," through which the breeze is rustling and conveniently drying the ink without aid from a blotter.

Ah, yes, but the subject is so broad, and the by-paths so many, that straying is inevitable. Besides, I am not exploiting the genuine skilled gardener of the main line, the developer of Nature's resources, to whom all honor is due. The gard-ener to whom I take exception should always have his title en-closed in "marks," and is of the tribe that seems to launc' itself at the ever-busy and guileless American of moderate means and good taste, who, desiring a garden, and having little knowledge of the necessary detail and still less time to learn, hires a "gardener," pays liberally for seed and manure, and from the combination of the three entertains Great Expectations. If the man so hired were really what he pretends to be, all would be well. But the procession marching under the Sign of the Spade is a motley crowd, indeed, especially in this land, where a knowledge of country life and its varied processes, its pitfalls, as well as its potency for good, though increasing daily, has not yet become a part of our national inheritance. As I look out over the hills, and think of the people I have known during the past ten years, who, for various reasons, have tried the glorious outdoor existence and failed to live it, and judge the cause, it seems to me that one and all they approached it

wrongly. difficulty is that people

All we ask is for you to let us buy a 50-cent bottle of Psychine (pronounced Si-keen) from your druggist and give it to you free to try.

years that we have come to really thousands of unsolicited testimonials. chine. know about the white corpuscles of the blood or the phagocytes and what their function is.

THE FARMER'S AUVOCATE

That they are the policemen or scavengers of the body

Devouring every disease germ that enters the body when they are strong chine has cured many thousand cases: enough or in sufficient numbers.

Or being devoured in turn by these disease germs when inferior in strength.

It has only been within the last few years that scientists have found out that certain herbs strengthen and increase these white corpuscles, or bodily scavengers.

* * * 、

And these herbs largely compose Psychine.

For thirty years Psychine has been strengthening and increasing the white corpuscles of the blood.

building up run-down vitality, curing your druggist an order (for which we many of apparently hopeless diseases.

Psychine in that time.

We have cured hundreds of thousands.

It has only been within recent And we have received hundreds of sands of these 50-cent bottles of Psy-

corpuscles of the blood. ment of which Psychine is indicated.

Bronchial Coughs La Grippe Weak Lungs Bronchitis Weak Voice Hemorrhages Spring Weakness Sore Thioat Early Decline Anaemia Catarrhal Affections Female Weakness Catairh of Stomach Indigestion Night Sweats Poor Appetite Obstinate Coughs Chills and Fevers Laryngitis and Sleeplessness and Nervous Troubles Dyspepsia After effects of Pleurisy, Pneumonia and La Grippe.

Now, we don't ask you to take our word for the tremendously beneficial effect of Psychine. Fill out the coupon For thirty years Psychine has been below, mail it to us and we'll give pay him the regular retail price) for a We have sold millions of bottles of 50-cent bottle of Psychine to be given

> We will undoubtedly buy and distribute in this manner hundreds of thou-

And we do that to show our entire strengthening and increasing the white confidence in this wonderful prepara-

A confidence that has been based on Here are the diseases in the treat- our 30 years' experience with this splendid preparation, with a full know-Here are the diseases of which Psy-ledge of the hundreds of thousands of cures it has made.

COUPON No. 34	
To the Dr. T. A. SLOCUM, Ltd.	
193-195 Spadina Ave., Toronto.	
I accept your offer to try a 50c. bottle of Psychine (pronounced Si-keen) at your expense. I have not had a 50c. bottle of Psychine under this plan. Kindly advise my draggist to deliver this bottle to me.	医白白白白白白白白白白白白白白白白白白白白白白白白白白白白白白白白白白白白白
My Name	
Town	
Street and Number	
My Druggist's Name	-
Street and Number	1
This coupon is not good for a 50c. bottle of Psychine if present d to the druggest —it must be sent us—we will then buy the 5lc. bottle of Psychine from your druggist and direct him to deliver it to you. This offer may be withdrawn at any time without notice. Send coupon	

to-day.



1826a

eing that he time natter of s, declined and what to shoot bandages to cut off eing then to be givly, at this to work village. I n, deliv**er**-l from a own. Alas nd the darvers of our ave been His last planted in had given it with

U

bush this 'fore I was tself groway lots of any cutld plant." pail at me a fragrant. dsome dark often think that by living in the country they can do without the comforts and necessities, lacking which city life would be doubly unbearable. Also, they begin with no sort of preparation, either Nature hereditary or acquired. simply despises people who come to her as a last resort and try to squeeze a living from her, and otherwise harry her. She must be wooed understandingly, like any highspirited woman, not bullied, for she has a capricious temper, and is at once a spendthrift and an economist.

Why, then, should anyone expect, by a mere "declaration of intention" and a railway journey to conquer the country and learn the secrets of the life it offers, in perhaps a single season? And why should one expect to lead a satisfactory country life upon a cheap basis that would not maintain life elsewhere?

'But,'' again hints my "Boke of the Garden," " what has this tirade to do with gardeners ?" Everything, dear, patient, unresisting confidanteverything. It is these experimentalists that cause bad service both in and out of doors, and, by putting up with incompetence, encourage it

(To be continued.)

Make Sure of Lifelong **Piano Satisfaction**

The money you invest in a Sherlock-Manning Piano will be well spent. For you will then own an instrument which has permanent tonal beauty; which will satisfy your musical taste fully; and which will represent much more than common value for its moderate cost. This



is the piano that is not merely "showroom good." It will retain its rare quality. Examine one. There is a Manning dealer near you. If you do not know him. ask us his name.





COLONIAL.

FOUNDED 1866



1826b

This is the greatest washer the world has ever known. So easy to run that it's al-most fun to work it. Makes clothes spot-



fr ight. See the Thousands being wonders it performs. used. Every user delighted. They write us bushels of letters tellin how it saves work and worry. Let the 1900 Washer pay for itself. Just send us 50 cents pay for itself. each week out of the money it saves you. each week out of the money it saves you. Write to-day for our Free Washer Book. It ex-plains the "easy payment plan." Tell us your mearest freight station. Address me personally for this offer. F. A. D. BAOH, Manager, The 1900 Washer Co., 357 Yonge Street, Toronto, Ont. 2190 Ont.

This offer is not good in Toronto, Montreal, Winnipeg or Vancouver and suburbs, as we have branch offices in these places. Special trial arrangements are made in these districts.



ENTERPRISE.

It happened in Topeka. Three clothing stores are on the same block. One morning, the middle proprietor saw to the right of him a big sign-"Bankrupt Sale," and to the left-"Closing Out at Cost." Twenty minutes later there appeared over his own door, in large letters-"Main Entrance



GOSSIP.

At the second consignment sale of Holstein cattle at Lake Mills, Wisconsin, October 25th and 26th, 178 head sold for an average price of \$184. The highest price was \$500, for Gervina Lilly Canary.

Official records of 109 Holstein-Friesian cows were accepted by the American Holstein Association, from August 12th to October 13th, 1910. This herd of 109 animals, of which two-thirds were heifers with first or second calves, produced in seven consecutive days, 39,398.2 lbs. of milk, containing 1,341.235 lbs. of butterfat: thus showing an average of 3.40 per cent. fat. The average production for each animal was 361.5 lbs. of milk, containing 12.305 lbs. butter-fat; equivalent to 51.6 lbs. or over 25 quarts of milk per day, and over 141 lbs. of the best commercial butter per week.

A BIG EGG-RECORD.

An extraordinary egg-record of a hen is given in the Poultry World. The hen. owned by G. N. Willings, was hatched in March, 1909. An egg she laid on May 9 was perfectly shelled, and weighed 6 ounces 2 drams, being 4% inches in length, and 7% inches in circumference. When the egg was opened, it was found to contain two quite distinct yolks, and, in addition, another egg with perfect shell weighing 2 ounces 7 drams. Another was laid on May 10th weighing 2 ounces 9 drams, and on May 11th another large egg was laid. This one, however, was only partially shelled, but also contained a perfectly-shelled egg weighing 2 ounces 9 drams, in addition to two other quite distinct volks.

Another normal egg weighing 21 ounces was laid the following day, and on May 19th another large egg was laid exactly similar to that laid on May 9th, but 4 drams less in weight. The hen in question commenced laying in November, 1909, and laid regularly until the end of February, when she went broody, and after the usual twenty-one days' incubation, reared a brood of fifteen chickens, and again commenced laying on May 1st, and laid daily until the 28th; she then took a well-earned rest of seven days, and again commenced to lay on June 5th.

CANADIAN HOLSTEIN - FRIESIAN OFFICIAL SEVEN - DAY RECORDS FOR OCTOBER, 1910.

Lity De Kol Pietertje (5916): at 5 years 5 months 17 days of age, 20.64 lbs. fat. equivalent to 25.80 lbs. butter; 426.24 lbs. milk. Owned by B. E. Hagerman, Minto, Cnt.

Jane Iosco De Kol (12164): at 8 years 14 days of age, 15.03 lbs. fat, equivalent to 18,79 lbs. butter; 413.3 lbs. milk. Gwned by Geo. Rice, Tillsonburg, Ont. Senora Queen De Kol (11683): at 6 years 9 months 30 days of age, 13 30 lbs. fat, equivalent to 16.62 lbs. butter; 338.0 H s. milk. Owned by A. C. Hardy,





But Dodd's Kidney Pills Cleaned out W. F. Black's Sciatica.

He was in agony when a friend gave him a box. Now he recommends them to Everybody.

Newcastle, N. B., Nov 11-(Special In these cold, fall days, when the chill winds crystallize the uric acid in the blood and cause the panes of Rheimahe who can tell his neighbor of a sur cure for his tortures. Such a friend re-Wm. F. Black, of this place. He cal was so had that he could not lace his boots or turn in bed. Dodd's kidney Pills cured hun, and he wants all his neigh ors to know of the cure.

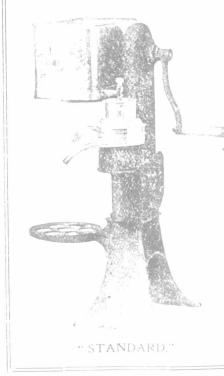
"Yes," Mr Black says, in an interview, "I was so bad with Sciatica and Lame Back that I couldn't lace my shoes or this were Battley (1156) ± 2 version in fed, when a friend gave meabout a third of a box of Dodd's Kidney Pil's. I started taking them without much furth much furth a data by a started taking them without much furth by the started by the started taking them without much furth by the started by their existive powers and found them $\left\{ \begin{array}{c} \min(s) & \min(s) & \min(s) \\ t \text{ lensers Secretar} \right\}$

Griselda A. De Kol (705 11 months 16 days of age, 16.05 lbs fat, equivalent to 20.06 lbs. butter; 502.0 lbs. milk. Owned by A. C. Hardy. De Kol Mantel 3rd (10262): at 4 years 7 months 8 days of age, 13/32 lbs, f.t. equivalent to 16.66 lbs butter; 417.6 lbs. milk. Owned by Laberrew Farm.

Batomess Ladoga Veenian (13165) at 1 years 6 months 7 days of age, 1446 s, fat, equivalent to 17.70 He butter.

sead varies.

"Now I can recommendate Dodd's Kids rey lits to all sufferers from kidney Dodd's lodney Pills are no forth cure. They're a maple but size contour dis-ces d killerys



WINS

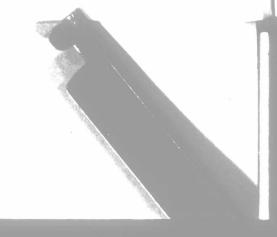
the heart of every farmer who tries it, every dairy expert who tests its skim-

Efficiency Accounts for It.

There are no glass lubricators, and no od can. The bowl is built to **SKIM** PERFECTLY and DOES IT. The machine turns easily, is easy to clean, and has a low supply can. All running

We will also send yes a formation bout our "STANDARD" MANURE LOADERS, for loading on the a wagon or spreader. Write us to a wator par-

The Renfrew Machinery Co. Limited Renfrew. Ontario.



NOVEMBER 17, 1910

0.1866

nt.

s, etc

ıle

910

nbs, 25 nadian iers of Fair;

nction, . State by our All the

Farm

OPS.

Days

and un-without

em have ears and

r, and heat ITENOW.

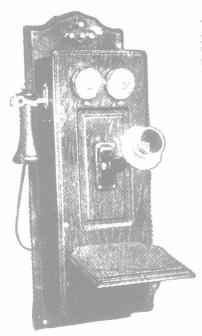
ICAGO



GIVES NEW LIFE AND COURAGE.

BOVRIL is very quickly assimilated; that is, it at once becomes rich, red blood. Therefore, its sustaining and nourishing qualities are lasting.

Rural Telephone Service at Cost



Organize and build an Independent Telephone Line in your locality. Buy your telephones and materials outright. Then you can enjoy rural telephone service at cost. You are free from the exorbitant yearly rentals of trust-controlled telephones.

Write for our No. 2 Bulletin. It was prepared especially for those who desire to have an independent rural telephone service in their locality. It explains everything in connection with the building and equipping of a rural telephone system.

We supply you with telephones and all necessary materials at exceptionally reasonable prices. Every telephone is guaranteed for ten years against defective material or workmanship. We will send two or three of our 'phones, free of charge, for a comparison test with others, so that ou may satisfy yourself as to values. Write for particulars.

If you haven't a copy of our hand-some book, "Canada and the Telephone," send for one by next mail. It has thirty-two pictures, by a leading artist, showing the benefit a tele-

phone is to the farmer.

CONSTRUCTION SUPPLIES. We carry a large stock of wires, in-sulators, e⁺c., in stock, and can make prompt shipment and quote inter-esting prices. If you require anything just you write us.

CANADIAN INDEPENDENT TELEPHONE CO., LIMITED 20 DUNCAN STREET, TORONTO.

The Machine the Farmer Needs

QUESTIONS AND ANSWERS. Miscellaneous.

THE FARMER'S ADVOCATE

SILAGE FOR STEERS TO BE FINISHED ON GRASS.

Is it advisable to build silos to feed steers through the winter, prior to being finished on grass, or had they better be fed on corn without husking it "

Note.-As this is a question concerning which there has been a great deal of private discussion, with a wide variety of opinions expressed, we have concluded to throw it open to contributors. Experience of cattle feeders, large and small, is invited. Comparison of the thrift of and returns from cattle fed silage in the winter before finishing, with the thrift of and returns from similarly bred and similarly conditioned cattle run through during the same winter and in the same yard, shed or stable, is desired. Contributors are requested to give full de-

PECULIAR EXPERIENCE WITH SEED CORN.

I had an experience with sowing corn this summer which 1 do not understand. I broadcasted a field on June 17th, the ground being in fine condition. This field grew beautifully and made a heavy crop. I broadcasted another with ex-actly the same seed on July 27th. The ground was dry at the time of sowing. It rained a week after very heavily. I covered and treated in exactly the same way; and practically the whole of the seed rotted in the ground; not more than one per cent came up, and that was weak What was the cause of this failure?

C. P. N.

Ans.-The condition described by your correspondent sometimes obtains when bulk seed corn has been shelled and left stored in a box or bag where there is not a free circulation of air. For this reason, it is always advisable to leave seed corn on the ear until near planting time. A prolonged wet—spell, followed by hot weather, is particularly injurious to the vitality of seed corn improperly stored. Weather and soil conditions described would be very unfavorable to quick germination, and this, coupled with seed the vigor of which had probably been impaired through improper storage, seems the most probable explanation for the failure to obtain L. S. KLINCK, a stand.

Professor Cereal Husbandry. Macdonald College, Que.

LYMPHANGITIS.

We have a mare twelve years old that swells in the hind legs when she stands in the stable. During the summer when she runs in the field they never swell, but in the fall when we start to stable her, she stocks in the legs. They go down during the day when working, but Il at night. She seems to be in good health, able to do a good day's work, and never goes lame. Her front legs are swelled a little at the knees. Do not know whether this has anything to, do with the hind ones swelling, or whether she had struck them on something Vns. This swelling of the hind legs when the mare has been idle for a day or so, is lymphangitis, or Monday-morning disease. Horses of sbuggish tempera-ment are predisposed to the affection, which is brought on by high feeding and a sudden suspension of accustomed exerto require it, consists in giving a purgative of 8 drams aloes and 2 drams ginger - Follow up with two-dram or threedram doses of nitrate of potash, three long and repeated bathing with warm water, applying camphorates continent, or other liniment after ballang, and excludone deafts. Keep comfortable. Do not verifies until soreness and lameness have disappeared. When hybridiangitts is neg-lected there is a tendency to a chromcal-by orlarged leg. To prevent the discuse to either give exercise every day, or to



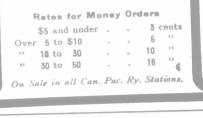
you will want a "CHAMPION" Washing Machine right off. The Momentum Balance Wheel, which almost runs itself --the up-and-down stroke of the Lever, which means greatest power with less effort--the absolute perfection of the "CHAMPION"--will make you want one for your home.

"Favorite" Churn gets all the butter out of the cream. Easy to churn, too. If your dealer does not handle these home necessities, write us. DAVID MAXWELL & SONS, - ST. MARY'S, ONT.

Dominion Express oney Orders and Foreign Cheques

are payable all over the World. Absolutely the best way to remit money by mail.

TRAVELLERS' CHEQUES ISSUED Money sent by Telegraph and Cable Foreign Money bought and sold.





(NAME AND DESIGN REGISTERED)

are different from and better than any other chocolate confection you ever tasted. Maple Buds are not made by any other concern, as the name and design is fully patented. Look for the name on every Bud.

1827

ries it, , skim-

ER

r It.

SKIM

ANURE

y Co.

AND THE BEST VALUE FOR THE . OF THEM ALL IS TOLTON'S

NO. I DOUBLE ROOT CUTTER

POINTS OF MERIT:

1. To change from pulping to slicing is but, the work of a moment

2. There are two separate wheels, one for pulping and the other for slicing.

The united torce of both wheels is always used in doing the work

4. The hopper is between the wheels, and does not choke

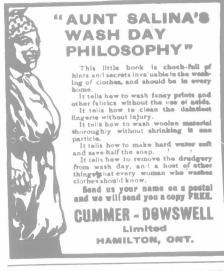
THE ONLY DOUBLE ROOT CUTTER MANUFACTURED. Fitted with Roller Bearings, Steel Shafting, and all that is latest and best in principle, material and construction. SEND FOR DESCRIPTIVE CIRCULAR AND PRICES.

Guelph, Ont. TOLTON BROS., Ltd., Send Your Poultry to the Largest Poultry Buyers

We will buy all the good, plump chickens you have for sale. You will get the highest price from us, and prompt payment. We are the largest poultry buyers in Ontario. Our reputation for square dealing is doubtless well known to you. Write for prices.

FLAVELLE-SILVERWOOD, LIMITED London, Ontario.

The Cowan Co. Limited, 87 Toronto.



SECURE ONE OF OUR PREMIUMS.

QUESTIONS AND ANSWERS. Miscellaneous.

PAYMENT FOR BULL SERVICE A bought a cow (supposed to be in calf) from B, and paid him for it; B, shortly after that, moved away, and did not pay C the service of the bull. Can C collect the fee from A_{\star} or look to Bfor it, there being nothing mentioned about it when the cow was bought.

Ans -C must look to B for payment.

SPEEDWELL.

Keep Your

Stock

in Fine Shape

All Winter

On Less Feed

You can add many dollars to their value by adding to their daily ration the guaranteed conditioner Prats Animal Regulator. There is nothing so good to keep horses and cattle in good health and prevent their falling off through the Winter.

Pratts,

Animal Regulator

aids digession and assimilation—acts as a tonic and prevents disease. It will keep your horses in better condition with less feed, as all the nutriment is rendered beneficial, nothing is wasted. Try Prats Animal Regulator this winter. If it does not prove more than satisfactory all you have spent will be returned without question. It is

Guaranteed or Money Back

Get Pratts Animal Regulator today. 25 lb. pail \$3.50, a.so smaller sizes and 100 lb. bags.

Your dealer sells all our remedies on this condition.

Is the enclosed a bad weed ? It is spreading rapidly in the garden. I have not seen it in the fields yet. J. M. Ans.-The specimen, known as Buxis a spreading annual with pale blue flowers, and inversely heart-shaped seed-Lods Lake most of our garden weeds, it is an introduction from Europe. There are several low-growing, spreading annuals, such as this Veronica, the common chickweed, and purslane, which may be come troublesome in gardens that pass almost unnoticed in the fields. They disappear before the more aggressive weeds imperfectly hord root-crops, get the opportunity to show their best, or, on might say, their worst effects.

OIL CAKE.

1. What is oil cake?

2. Is it valuable as a food 9 3. How much should be fed at a time 4. What is the usual price ?

after the most of the oil has been pressed out of the ground seed.

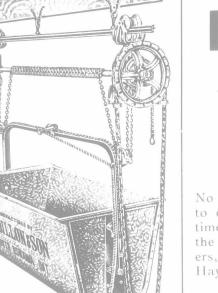
2. Yes; it is a highly concentrated, very valuable nitrogenous feed, good in reasonable quantity for all classes of

pound to two pounds per cow per day.

FEEDING A CALF.

Would you advise putting whole oats in FARMER'S WIFE.

pose for which it is to be carsed. If for



Dillon's No. 2 TFR CARRIER

THIS CUT REPRESENTS

FOUNDED 1-66

No gear. No wood. Easy to operate. Will last a lifetime. We also manufacture the latest in Barn-door Rollers, Hangers and Latches, Hay Tools, etc.

R. DILLON & SON. South Oshawa, Ontario.

Lime Sulphur Solution __

(Made in Canada)

Lime Sulphur Solution has absolutely proved its efficiency as a fungicide and destroyer of parasites on trees and vegetables.

"VANCO" Lime Sulphur Solution is the best form in which you can get this valuable spray.

"VANCO" has more sulphur in solution, gallon for gallon, than any other preparation, and is consequently more effective.

"VANCO" is uniform in quality, so you can always depend on it. "VANCO" Lime Sulphur Solution contains no sediment. Every ounce is active material, and there is no sludge to clog the nozzles.

One barrel makes 12 for spring, or 50 for summer spray. \$8.00 per bbl. f. o. b. Toronto.

"VANCO" Lead Arsenate

is the surest and safest spray for all leaf-eating insects. It kills more certainly than Paris Green, sprays easier, sticks better, and never burns the foliage. Contains 15% to 16% Arsenic Oxide.

Ioc. to 13c. per lb. according to quantity.

We introduce the idea of High Quality at Lowest Price. "VANCO" Spray Chemicals are prepared by practical men, and have successfully passed Government analyses and practical tests.

Chemical Laboratories Limited 10 126-136 Van Horne Street, - - TORONTO.

OUR NEW IMPORTATION OF **Clydesdale Stallions and Mares**





Every letter we publish goes as far and means as much as the contract, for they tell of results that are true. They are from actual users, and are honest in every word they say.

every word they say. Huntingdon, Que., May & 1910 :--It is a year since I used your "Save-the-Horse," on a very severe case of bone spavin, and although the horse was nine years old, and the leg had been blistered several times and other so-called spavin cures applied with-out success, yet half a bottle of your remedy com-pletely or ed him, while he worked as usual. I have watched him carchully ever since without seeing any return of the old lameness. I am thoroughly con-vinced that the cure is permanent. I have persuaded my brother to give your remedy a trial lob log spavin, and enclosed you will find his check for one bottle. Very truly, F. D. Shearer.

\$5.00 a Bottle With Signed GUARANTEE



A binding diversion of any case of **Bone** and lutely in treating and curing any case of **Bone** and **Bog Spavin**, **Thoroughpin**, **Ringbone** (except low), **Curb. Splint**, **Capped Hock**, **Windpuff**, **Shoeboil**, **Injured Tendons**, and all **Lameness** No sear or loss of hair. Horse works as usual. Send for copy of contract, booklet on all lameness letters on every kind of case. At all druggists

TROY CHEMICAL CO, 148 VanHorn St. And BINGHAMTON, N. Y



will meet importers at any port in France or Belgium, and assist them to buy Perch-erons, Belgians, French Coach horses. All information about shipping, banking and pedigrees. Many years' experience; best references; correspondence solicited.

Messrs. Hickman & Scruby

Court Lodge, Egerton, Kent, England.

EXPORTERS OF PEDIGREE LIVE STOCK OF EVERY DESCRIPTION.

During the fall months the export of heavy horses will be a specialty. A trial order will convince you that it is to your advantage to do business with us. Write for full particulars, stating what you require.

The trainer was explaining his system. "In training," he said, "the strictest obedience is required. Whenever I think of the theory of training, I think of Dash, who, after eighteen years of married life, is one of the best and happiest husbands in the world. 'Dash,' I once said to him, 'Dash, old man, how do you take married life?' 'According to directions.' he replied."

a third of a teacupful in warm milk. fact, it is often found that it will eat suffed, and two parts nucly-ground oats sifted, the whole well mixed. Keep be fore the call choice, well-cured, early-cut sliced roots and a little silage, with a moderate amount of almost any roughage that will afford palatable variety. Do not put whole oats or any meal mixture in the milk. Put it in a separate box.



which has proved himself a good prizewinners, and all up to big size. Good colors ; one choice grey stock horse. Ages two to seven years. Come and see this consignme

Dalgety Bros., London, Ont.

IMPORTED CLYDESDALES AND PERCHERONS.

My 1910 importation are in my stables at Bolton, Ont. There never was a better bred lot landed, nor a better lot of big, typical draft horses, full of quality and with perfect under-pinning. Clydesdale stallions and fillies, and Percheron stallions. I will not be undersold. **T. D. Elliott. Bolton, Ontario.**

NEW IMPORTATION ARRIVED

Our 1910 importation of **Clydesdale Stallions** and **Fillies** are now at our stables We can show some of the best individuals and best breeding sizes imported. Our prices are right, and terms to suit. JOHN A. BOAG & SON, Queensville, Ont Phone connection.

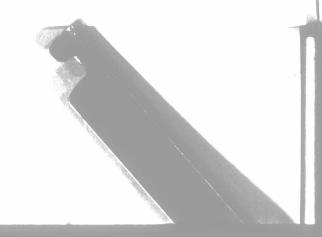
NEW IMPORTATION OF CLYDESDALES

Superior breeding and quality, selected for the requirements of the Canadian trade—9 stallions, 6 fillies, 3 colts, including prizewinners and champions. This consignment will bear close inspection, and will be sold at moderate profit. Phone connection.

GEORGE G. STEWART, Howick, Que.

ELM PARK Clydes, Aberdeen Angus and Suffolks. We have at present six Clyde mares recorded in both Canadian and American Studbooks. Three of them sired by Lord Charming [2264], and the set of the strength of the set of corded in both Canadian and American Studbooks. Three of them sired by Lord Charming [2264], and two of them in foal to Monterieffe Marquis [6735]. Our cattle number fifty-five head of both sexes. Our Suffolk sheep are doing well, and flock numbers sixty-seven. James Bowman, Elm Park, Guelph, Ont

IMPORTED CLYDESDALES AND HACKNEYS In my stables at Ingersoll. Ont., I have always on hand Clydesdale stallions and fillies, and Hackney stallions, personally selected in Scotland for their high-class type, quality and breeding. Let me know your wants. W. E. BUTLER, INGERSOLL, ONT.



ED LOG

NOVEMBER 17, 1910

'Phone M. 4154.

lmp.

OF INTEREST TO FARMERS

The General Animals

Insurance Co'y of Canada

Insure stallions, and also make a specialty of insuring entire colts

The General Animals Insurance Co.,

Limited.

25 TORONTO STREET, TORONTO.

against risk of death during and after castration.

All kinds of live stock insured.

For particulars apply to :

competition. Correspondence invited from all interested parties.

SENTS



Easy a lifefacture r Rollatches.

SON. ntario.

7 8.5 8.

ur

h you an any

on it. Every .oo per

e s more

NCO'' ssfully

burns

I. 10 ITO.



hares we have have the second se

cluding severa himself a good

Ont.

ensville, Ont

lvde mare

rming 2264

Guelph, Ont

D

THE FARMER'S ADVOCATE

QUESTIONS AND ANSWERS. Veterinary.

RESPIRATORY TROUBLE.

Yearling heifer wheezes and breathes reavily, and occasionally discharges freely from mostrils. A cali horn September 1st, has the same symptoms, except the heavy breathing. I am keeping them comfortable and blanketed, and rubbing throats and breasts with a liniment made of 1 ounces each of ammonia, turpentine and methylated spirits, with water to

Ans. This trouble is either catarra or tuberculosis. If the former, a continuation of your treatment and the administration of 1 dram chlorate of potassium and 15 grains quinine to the yearling, and quarter of the dose to the calf, three times daily, should cure. If the latter, no treatment will cure. I would advise you to call your veterinarian in.

OEDEMA-WORMS.

1. Mare worked all summer and fall, until about a week ago. Now her hind quarters and along her back are swollen. 2. Mare supposed to be in foal has W. BROS. worms.

Ans.-1. This is ordema. Purge her with 8 drams aloes and 2 drams ginger, and follow up with 4 drams hyposulphite of soda three times daily. Feed lightly, and give daily exercise.

2. Take 3 ounces each of sulphate of copper, sulphate of iron and tartar emetic. Mix, and make into 24 powders. Give a powder in damp food every night and morning, and, after the last one has been taken, give a pint of raw linseed

PARTIAL PARALYSIS.

A month after castration, a yearling colt did not have the preper use of his hind legs. He has difficulty in rising. He has been pasturing near a river, and used to stand in the water.

Ans.--I do not think that either castration or the water caused the trouble. It is an affection of the spine, and appears without appreciable cause. Keep him quiet in a comfortable box stall. Purge him with 12 ounces raw linseed oil, and follow up with 40 grains ndx vomica, twice daily. Continue the nux vomica for three weeks. Recovery will probably be slow, but it is probable he will have recovered by the time he will be turned out to pasture next spring if you treat as above. Give the nux vomica as above every alternate three weeks.

FEEDING IODIDE OF POTAS-SIUM

In the issue of October 6th, you recommended me to give my horse (for chronic swelling of lip) 1 dram iodide of potassium three times daily for a month. have given him 50 drams, and his legs are improved a great deal, but there is a discharge from his eyes, and some lumps on the skin of shoulders and neck, W. K and he is quite weak.

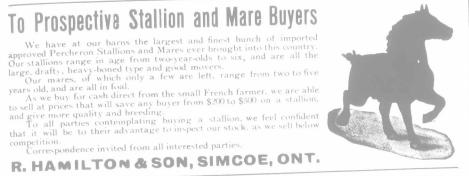
Ans-The symptoms mentioned



1829

- vers bad old cases that skilled doctors have abandoned. Easy and simple: no outting, just a little attention every fifth day-and your money refunded if it ever fails. Ourses most cases within thirty days leaving the horse sound and smooth. All particulars given in Flowmer by the total thirty days particulars given in Fleming's Vest-Pocket Veterinary Adviser. Write us for a free copy. Ninety-sig pages, covering more than a hundred veterinary subjects. Durably bound, indexed and illustrated. indexed and illustrated. FLEMING BROS., Chemists 75 Church St., Toronto, Ontario index





J. D. Reesor, Manager Western Ontario.

STOCK - YARDS Horse Exchange

WEST TORONTO, CANADA.

The Greatest Wholesale and Retail Horse Commission Market

Horse Commission Market. Auction sales of Horses, Carriages, Harness, etc., every Monday and Wednesday. Horses and harness on hand for private sale every day. The largest, best equipped and most sanitary stables in Canada. Half-mile of railway loading chutes at stable door. Quarter-mile open track for showing horses. Northwest trade a specialty. HERBERT SMITH, Manager. (Late Grand's Repeatory.)

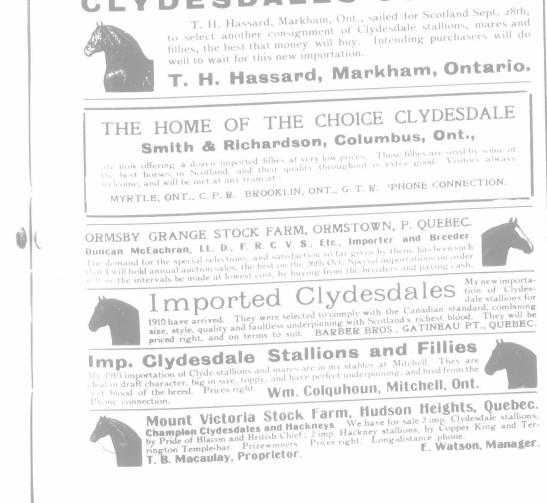
Clydesdale Stallions and Fillies

For Sale Gentlemen, don't miss this opportunity. I am out for business now that I am open to compare prices and quality with any man in the trade. Don't be without a good stallion or mare when I will either buy, sell or exchange for Canadian-bred stal-lions or workable, sound horses. Write me or call, and you will have every **a**ttention.

JNO. SEMPLE. SPRING HILL STUD FARM. MILVERTON. ONTARIO.

Stations, G. T. R. and C. P. R. Phone connection, long-distance

CLYDESDALES COMING!



to the administration of the drug. It is called todism. If you read the instructions given in the issue of October 6th, you noticed that I said, \cap if this affects the appetite, reduce the dose to 40grains." Now, his appetite must have been affected for some time to cause the weakness you mention. Cease giving the drug, and he will soon regain his normal condition. If necessary, repeat the iodideof-potassium treatment in two months, but, as he cannot stand dram doses, give him 40-grain doses, and watch closely for symptoms of iodism, which are loss of appetite and thirst, discharge from eyes and mouth, and scrutliness of the skin. When any of these are shown, cease giv-

In an English town, a gentleman and a countryman approached a cage in the travelling zoo from opposite directions. The cage contained a very fierce-looking kangaroo. The countryman gazed at the wild animal for a few minutes with mouth and eyes both open, and then, turning to the gentleman, he asked. "What kind of an animal is that?" "Oh," replied the gentleman, "that is a native of Australia." The countryman covered his eyes with his hands as he exclaimed in horror, "Well, well, my sister married one of them!"

GOSSIP. CANADIAN EXHIBITS AT CHICAGO. Following are the names of Canadians having made entries for the International Live-stock Exposition, Chicago, Ill., Nov. 26th to Dec. 3rd :

Clydesdales-Graham Bros., Claremont, Ont., 24; Graham & Renfrew, Bedford

Park, Toronto, 18. Shorthorns-James Leask, Greenbank, 1 fat.

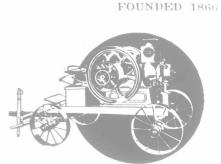
Aherdeen-Angus-James Bowman, Guelph, 3; Jas. D. McGregor, Brandon, Man. 12. Sheep-Shropshires-J. & D. J. Camp bell, Woodville, 18 breeding, 8 fat; Hanmer & Hodgson, Brantford, 20 breeding; J. Lloyd Jones, Burford, 20 breeding, 7 fat. Hampshire-Geo. Allen. Burford, 1

Southdowns-Huntlywood Farm, Beaconsfield, Que, 12 fat; J. Lloyd Jones, Burford, 10 breeding, 8 fat. Oxford Downs-J. W. Lee & Sons, Simcoe, Ont. 8 fat. Lincolns-J. W. Lee & Sons, 8 fat. Cotswolds-Geo. Allen, Burford, 9 breeding, 6 fat; J. W. Lee & Sons, 2 fat. Leicesters-A. & W. Whitelaw, Guelph, 7 breeding, 7 fat; L. Parkinson, Guelph, 1 breeding, 5 fat. Dorsets-R. H. Hard-ing, Thorndale, Ont., 6 breeding, 7 fat. Grade and Cross-Fat: J. & D. J. Campbell, 5; J. Lloyd Jones, 12; John Lee & Sons, Highgate, 10; J. W. Lee & Sons, Simcoe, 5; L. Parkinson, 10; A. & W. Whitelaw, Guelph, 6; John Goswell & Sons, Ridgetown, 1.

TRADE TOPICS.

HIGH HONORS FOR A CANADIAN FIRM.-It is to be expected that good goods should win recognition from time to time in our agricultural exhibitions. It is seldom that in one year honors come as generously to any firm as they have this year to the Louden Machinery Company, of Guelph. Ont. At the Do-minion Exhibition, St. John, N. B., they were awarded a gold medal for the excellence of their exhibit in open competi-tion. At Halifax, N. S., the judges also awarded the gold medal to this firm, and the great interest manifested by Maritime farmers at both exhibitions, fully testified to the propriety of each award. More to be prized than either of these medals is a medal awarded them by the Royal Agricultural Society of England. This society, it seems, awards one medal a year for agricultural implements, etc., and that only after the most careful examination. It is therefore not only an honor to the Louden Machinery Co., but also to Canadian factories in general, that the medal this year should come to the

"The Dominion Feed Company have established an office and warehouse at Windsor, Ont., for the purpose of intromeal. This meal is the by-product of cotton seed grown in the Southern States, and has a guaranteed analysis of from 32 to 43 per cent. protein, the average protein content being claimed as 40 per cent. Feeders in the United States for several years past have been feeding cotton-seed meal with wonderful results the experiment stations and agricultural colleges having made exhaustive study and record of results. Statistics show that over a thousand car lots of cotton seed meal will be used in the State of Michigan alone this year." It has been used extensively in the Maritume Provinces, where it gives excellent results as a cattle feed. It is a great milkmaker, and could be used with profit in connec tion with many farm - grown rations Write for sample to the Dominion Feed Co. at Windsor, mentioning this parties



Get our new catalogue

Thousands of farmers have written to us for a catalogue.

Olds Gasoline Engines

have been selected in most instances by those who most carefully investigated the engine question.

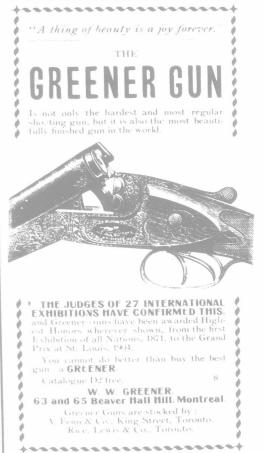
There is just one possible combination that could account for the steady growth in 30 years of our sales of engines to these unprejudiced farmers and that is high quality and right prices.

Our catalogue tells things that you should know about engines.

Read it through carefully—you soon't regret the little time it takes.

Seager Engine Works 1050 Seager Street, Lansing, Michigan

Boston PhilaJelphia Binghamton Omaha Consas City Minneapolis Los Angeles





Entry free. Entries close Dec. 1, 1910.

For premium list, entry blanks and any further information, apply to :

> J. H. ASHCRAFT, JR., GEN. MAN. Union Stock Yards, Toronto.

1830

Reduced rates on all railroads.

COTTON-SEED MEAL The Greatest Milk - producer Known

The highest protein dairy feed. Recommended by every agricultural college and experimental station in the United States.

Averages from 40 to 44 per cent, protein. Send for samples and prices. Warehouse at Windsor, Canada, for ton-lot shipments.

The Dominion Feed Co., Windsor, Ont.



A chergyman had been for some time displeased with the quality of the mill served him. At length he determined to remonstrate with his milkman for supply ing such unworthy stuff. He began mildly: "I've been wanting to see you sir," uneasily answered the initiater, "that I use the mele to doub



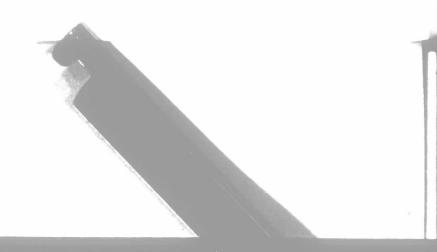
CABLES: BIRD, BOROUGH, LONDON, ENG. A B C code 5th edition and Scattergood's code used.

JOHN BIRD, FRUIT BROKER Borough Market, London, S. E., England.

To truit-growers, farmers and others:

SHIP YOUR APPLES DIRECT TO ME Highest prices and prompt settlements guaranteed. Correspondence invited. Market reports by letter

'What's the meaning of all these recent a way tools," inquires an old lady to it the effect of the damp summer"



NOVEMBER 17, 1910

CONSTIPATION

CURED BY THE USE OF

MILBURN'S

LAXA-LIVER PILLS

Constipation is one of the most fre-

quent, and at the same time, one of the

most serious of the minor ailments to

which mankind is subject, and should

A free motion of the bowels daily

Mrs. Fred. Hall, 299 Hibernia Road,

Montreal, Que., writes:-"Having been

troubled for years with constipation and

troubled for years with constipation after trying everything I knew of, a friend advised me to use Milburn's Laxa-Liver Pills. I used four and a half vials and I am completely cured. I can gladly recommend them to all who suffer from

Milburn's Laxa-Liver Pills are 25 cents

per vial, or 5 vials for \$1.00, at all dealers,

or mailed direct on receipt of price by

The T. Milburn Co., Limited, Toronto,

When you are wanting

any cuts of Poultry,

Live Stock, or for Ad-

vertising, try our spe-

cially deep-etched plates.

PRINT CLEAN

WEAR LONGER

PRICE REASONABLE

Write us your wants.

ROBERTS

ENGRAVING

LONDON-CANADA

ELM PARK STUCK

We have a few good bargains to offer in Aberdeen-Angus temales and bulls, also in Clyde mares or Suffolk sheep, if buyers come now before we put them into winter quarters.

Jas. Bowman, Elm Park, Guelph, Ont.

COMPAN

IOCK

should be the rule with every one who

never be allowed to continue.

aspires to perfect health.

constipation.

Ont



) 1866

gue en to us

nes

ances by ated the

ation that th in 30 e unprejality and

ou should

- you ikes.

S chigan Omaha Angeles





IONAL d High the best 8 ntreal

reset

FOREST VIEW 1 have lately purchased the Govenlock herd of Herefords, and have for sale sons and daughters of Toronto winners and g, champions; also Galloways of both sexes. A. E. Caulfield, Mount Forest. Ont., P. O. and Station. ABERDEEN - ANGUS CAITLE 5 choice yearling bulls for sale at reasonable prices. Also females any age. Parties requiring such will get good value. Correspondence invited. GEO. DAVIS & SONS, ALTON, ONT.

THE FARMER'S ADVOCATE.

GOSSIP

At Truman's Pioneer Stud Farm, Bushnell, Ill., on October 27th, 39 head of Shire mares and fillies sold by auction for an average of \$580, the highest price being \$925, for the black four-year-old. Moulton Valetta.

Volume 28, of the British Shropshire Flockbook, has been received at this office, thanks to the Secretaries, Alfred Mansell & Co., Shrewsbury. This volume contains entries of rams numbering from 13333 to 13566, a list of sires used in many flocks, a register and index of exported Shropshires from Sept. 29th. 1908, to Sept. 29th, 1909, a list of members, together with a list of prizewinnings, and fine illustrations of pure-bred and grade or cross-breds, showing the prepotency of Shropshire sires.

EDUCATIONAL VALUE OF THE CHI-CAGO STOCK SHOW.

The International Live-stock Exposition (which will run from November 26th to December 3rd, at the Union Stock-yards, Chicago), from a comparatively small beginning, eleven years ago, has assumed such importance in the live-stock world as to render its annual occurrence a necessity, not only on account of its being the high court of appeal, the court of last resort to stockmen, but because it sets the stamp of approval upon those of our domesticated animals that are most in demand, and establishes a standard among stock which, if adhered to, is believed to realize for the breeder, feeder and farmer the highest price for his produce.

The ordinary observer has little idea of what this Exposition is, what it teaches, and what it means. It must be seen to be appreciated, it must be studied to be understood.

At this show, he sees the best of every breed, his field for comparison is immense and his opportunities for practical instruction almost limitless. By attending this show, he combines business with pleasure, knowledge with practice, and education with example. It is the school of rapid learning for the stockman, a free education that remains in his head, and carries with it the methods whereby the hest live stock is produced and the most money made.

MAPLE LEAF SHORTHORNS. The Maple Leaf herd of Scotch Shorthorn cattle, the property of Israel Groff of Elmira. Ont., are going into winter quarters in prime condition. The highclass quality of this herd is well known they have stood the test of criticism for a great many years, and have found favor with the exacting buying public, amply demonstrated by the ready way in which the surplus stock is picked up year by year as herd-headers. Mr. Groff has should the urandly-fleshed bull. Julia's Jilt, sired by the renowned Imp. Golden Drop Victor, dam Imp. Julia, of the popular Jilt tribe. He is a massive red four-year-old, of show type, thick fleshed and model lines. His predecessor was the white Valley Farm Argonaut, a Duchess of Gloster-bred son of Scottish Fashion. He was sold at the Guelph sale last June, which was the biggest mistake Mr. Groff ever made in his career as a Shorthorn breeder, as every one of his get are put up on show lines. Before him was Chancellor's Model, a son of Imp. Bapton Chancellor, and out of Imp. Marchioness 4th. He did a world of good for the herd, and left it better than he found it. In young bulls, there is a red yearling. Miss Ramsden-bred son of his, and a roan seven-months-old Rosemary-bred son of Valley Farm Argonaut, which is one of the best young bulls we have seen this year. He is a topper all over. His dam is by the Golden Drop hall, Springhurst, and grandam by Imp. Joy of Morning. The females are of the Cruiel shank Lady Fanny, Jealousy, Clementine, Rosemary, Crimson Flower, and Miss Ramsden tribes, imported and Canadian-bred, among which are a number of extra well-fleshed heifers, fashionably bred, that are for sale. Mr. Groff has also for sale a limited number of choice young Berkshire sows, from four to

Granite Harvester Oil For Reapers, Threshers, Plows, Harrows



Insures better work from the new machine and lengthens the life of the old. Wherever bearings are loose or boxes worn it takes up the play and acts like a cushion.

1831

Changes of weather do not affect it.

ternal bearings.

Standard Gas Engine Oil is the only oil you need. It provides per-

fect lubrication under high temperatures with-

out appreciable carbon deposits on rings or

cylinders, and is equally good for the ex-

delivers more power, and makes the engine

run better and longer with less wear and tear,

because its friction-reducing properties are

exactly fitted to the requirements of steam

traction engines and steam plants.

Gasolene and Kerosene Engines

Capitol Cylinder Oil Steam Traction Engines and

Steam Plants

Traction Engines, Wagons, Etc.

Mica Axle Grease makes the wheel as nearly frictionless as possible and reduces the wear on axle and box. It ends axle troubles, saves energy in the horse, and when used on axles of traction engines economizes fuel and power.

Every dealer everywhere. If not at yours, write for descriptive circulars to

The Imperial Oil Company, Limited Ontario Agents: The Queen City Oil Co., Ltd.



have to offer at the present moment an exceptionally good lot of young bulls, which combine all the requisites necessary for the making of superior stock sires, viz.: Quality, Size, Conformation and Breeding. If interested, come and make your selection early. Catalogue on application.

John Clancy, Manager, Cargill, Ontario



IDON, ENG

BROKER

T TO ME

s guaranteed. orts by letter

hese recen old lady

England.

ABERDEEN - ANGUS Will sell both sexes; tair prices. Come and see them before buying. Drumbo station. WALTER HALL, Washington, Ont Willow Bank Stock Farm SHORTHORNS AND LEICESTERS. Herd established 1855; flock,1848. The great Duthie-bred bull,1mp. Joy of Morning =32070=, and the Missie bull, Royal Star Choice selections to offer = 72502 = , heads my herd. Choice so at all times in both bulls and females

JAMES DOUGLAS, CALEDONIA, ONTARIO

SHURTHURN FEMALES OF ALL AGES FOR SALE.

Prices to suit all kinds of customers. Have one red cleven-months-old bull left; a Clipper; price \$100. J. T. GIBSON, 'ENFIELD. ONTARIO.

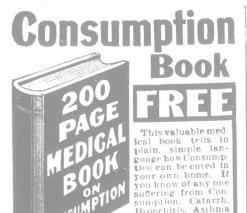


Shorthorns and Yorkshires - A choice lot of young bulk and heifers at reasonthe prices, from such noted families as Miss Rams-in, Crimson Flower, Lady Sarah, Imp Clementina, Jousy and Mina. A fine litter of the Improved orkshires ready to wear, of prizewinning stock. to wean, of prizewinning stock. ISRAEL GROFF, Elmira, Ont. six months of age.



· No this of

1832



or any throat or lung out the solution of the solution. Sumption, Catarrh, Bronchitis, Asthma or any throat or lung trouble, or are yourself afflicted, this book will help you to a cure. Even if you are in the stars of the disease and feel admitted this book will advanced to a cure. Even if you are in the advanced stage of the disease and feel there is ne hope, this book will show you how others have cured themselves after all remedies they had tried failed, and they be-

hered their case hopeless. Write at once to the Yenkerman Con-sumption Remedy Co., 1597 Rose Street, Nahamaroo, Mich., and they will send you from their Canadian Depot the book and a generous supply of the New Treatment, obsolutely free, for they want every sufferer to have this wonderful cure before it is too late. Don't wait — write today. It may mean the saving of your life. d their case hopeless

ALL MY PIMPLES GONE.

Girl Tells How a Blotchy Skin was Cleansed by a Simple Wash.

"I was ashamed of my face," writes Miss Minnie Pickard, of Altamahaw, "It was all full of pimples and scars, but after using D. D. D. Prescription, I can say that now there is no sign of that Eczema, and that was three years ago."

D. D. D. has become so famous as a cure and instant relief in Eczema and all other serious skin diseases, that its value is sometimes overlooked in clearing up rash. pimples, black-heads, and all other minor forms of skin impurities.

The fact is, that while D. D. D. is so penetrating that it strikes to the very root of Eczema, or any other serious trouble, the soothing Oil of Wintergreen, Thymol, and other ingredients, are so carefully compounded, there is no wash for the skin made that can compare with this great household remedy for every kind of skin trouble.

D. D. D. is pleasant to use, perfectly harmless to the most delicate skin, and absolutely reliable. Write the D. D. D. Laboratories, Dept. A, 49 Colborne St., Toronto, for a free trial bottle, and prove its wonderful effectiveness. For sale by all druggists.



THE FARMER'S ADVOCATE.

GOSSIP

JOHN SENN & SONS' SALE. At the auction sale of Shorthorns of John Senn & Son, advertised in "The Farmer's Advocate" lately, the nineteen females, a number of which were calves, averaged \$92. The bulls averaged \$87.50. The cows selling for \$100 or over were: British Lady 3rd, to J. M. Beavers, Berryland\$160 Fairview Queen, to T. H. Collings, 160 Langton Red Lady, to G. S. Glaves, Hick-145 son Fairview Belle, to W. Hunter, Lang-

ton ... Fairview Lady, to Kyle Bros, Ayr., 120 Fairview Countess, to T. H. Collings, Langton . Lady of the Lake, to Jas. Douglass. 100 Caledonia

Bulls.

Fairview Count, to Jas. Douglass. \$105 Caledonia .

Ringleader, to W. Hunter, Langton .. 100

The sale was well attended, considering the unpleasant day, and the bidding spirited. A nice herd of cattle was sold, and all found good homes, with enterprising and progressive men.

HICKORY HILL AYRSHIRES.

An example of what can be done along the lines of improvement of any particular characteristic of live-stock breeding by intelligent adaptation to gain the desired end, is evident in the great producing appearance of the Hickory Hill herd of Ayrshire cattle, the property of N. Dyment, whose farm lies about three miles over the mountain from the town of Dundas, Ont. There are few, if any herds of Ayrshires in Canada that present the type and udder development essential to a heavy milk yield comparable to this herd. This condition has taken Mr. Dyment years to accomplish. Careful weighing and testing, and judicious culling, are the means, and the only reliable means. Every cow in the herd shows strength and constitution, the majority of them are in the official Record of Performance, and others are now in the test Nineteen are now in milk, and others soon to freshen. All told there are fifty head. The stock bull is Milk Record of Haysmuir (imp.), whose dam has a Scotch milk record of 60 lbs. a day. He is a bull of great size and constitution, tremendous depth, and true in his lines. If

To settle all doubt about which out-throw harrow has the greatest capacity and lightest draft, we ask you to test the "BISSELL" Out-Throw Harrow in a field competition with other out-throw harrows. We know the "BISSELL" will out-class the field, because it is so designed that the hitch is well back, the seat projects over the frame, and the arch is directly over the gangs. This construction removes all neck weight-enables horses to do more work. And

because one gang is 🦹



FOUNDED 1860

Test the **BISSELL** " in a Field Competition with Other **Out** - **Throws**

set slightly ahead of the other, the gangs cannot crowd or bump together. The "BISSELL" Out-Throw works fast and does clean

work. Like the famous "BISSELL" In-Throw, it always wins in field trials. We also make Out-Throws and In-Throws with two levers for hilly work, and in 16plate, wide-cut styles for the West. Send to Dept. W f r "BISSELL"

Harrow booklet. Remen ber, it isn't a genuine "BISSELL" unless the "BISSELL" name is stamped on the harrow.

T. E. BISSELL COMPANY, LIMITED, Elora, Ont.

International Live-stock Exposition NOVEMBER 26th TO DECEMBER 3rd. INTERNATIONAL HORSE SHOW OF CHICAGO November 22nd to November 26th. Union Stock-yards, Chicago.

Many New Features. Numerous New Attractions. Greater and Better Than Ever. Thirty National Live stock Association Conventions. A Season of Entertainment and a Trip to Chicago. Daily Auction Sales of Pure bred Live Stock. WEDNESDAY, NOV. 30th, 1 P. M.

TUESDAY, NOV. 29th, 10 A. M. 100 Choice Shetland Pories For catalogue write Sale Committee: Chas. E. Bunn, Peoria, III.; A. G. Lupton, Hartford City, Indiana; or T. S. Simpson, Aurora, III.

THURSDAY, DEC. 1st. 1 P. M. 50 Carefully-selected Shorthorns. For catalogue write B. O. Cowan, Asst. Sec'y Am. Shorthorn Ass'n, U. S. Yards, Chicago.

TUESDAY, NOV. 29th, 1 P. M., RAMBOUILLET SHEEP SALE. For catalogue write Dwight Lincoln, Sec'y, Millord Center, O.

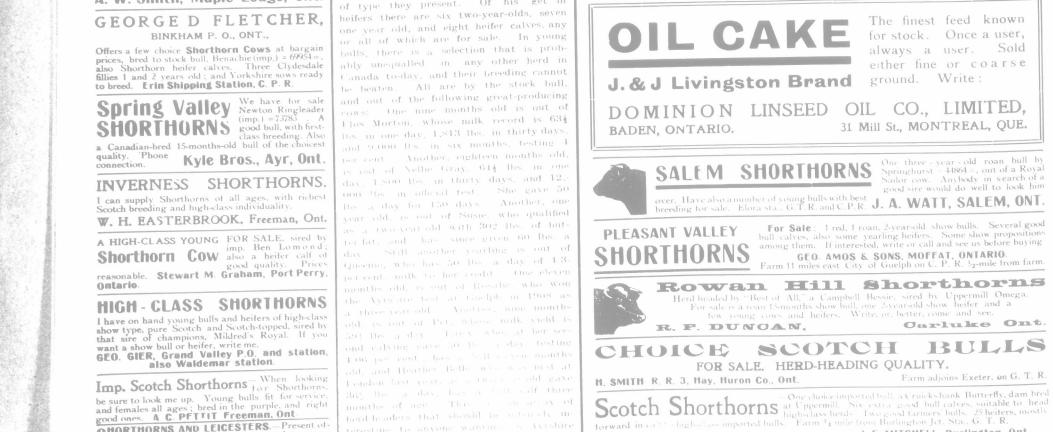
50 High-class Herefords. For catalogue write C. R. Thomas, Secy American Hereford Ass'n, 1012 Baltimore Ave., Kansas City, Mo.

50 Choice Aberdeen-Angus, For catalogue write Chas, Gray, Sec'y Am, Aberdeen-Angus Ass'n, U. S. Yards, Chicago.

FRIDAY, DEC. 2nd, 1 P. M.

LOWEST RATES ON ALL RAILROADS.





ent o mon winte TW A S Dam stock Ho will will We calvo Call M. L HO La l ar all a and W.

A

To Abb

W.

No

tha

NOV

I

D

N

trou

cuffe

dysp henc

cure

TI

which

of d

by ti

writ

for

abo

bott

finis

suff

bott

feel

muc

ture

ed,

B

C

We four fema

B. 1

Hig

B

M

SHORTHORNS AND LEICESTERS. — Present of-fering: Eight choicely bred one and two year old beifers, also bull calves. Choice shearling rams and ram and ewe lambs. Show material. Write: W. A. Douglas, Tuscarora, Ont. Caledonia Contact

MENTION THE FARMER'S ADVOCATE WHEN WRITING ADVERTISERS.

NOVEMBER 17. 1910

. . .

her,

imp

Dut-

lean

In-

We

OWS

16-

Send

LL"

ber,

LL'

ame

)nt.

1011

Ever

MI.

ue write s Ass'n,

ae write d Ass'n,

DS.

ON, 1895.

ED.

THE FARMERS ADVOCATE

It Is Miserable To Be Dyspeptic.

Dyspepsia is one of the most prevalent troubles of civilized life, and thousands suffer untold agony after every meal.

Nearly everything that enters a weak dyspeptic stomach, acts as an irritant; hence the great difficulty of effecting a cure.

The long train of distressing symptoms, which render life a burden to the victim of dyspepsia, may be promptly relieved by the use of Burdock Blood Bitters.

Mrs. John Sherrett, Fortier, Man., writes:—"I was troubled with dyspepsia for years. A friend of mine told me about Burdock Blood Bitters, so I got a bottle to try, and before I was half finished I could eat anything without suffering, and when I had used two bottles I was sound and well. Now I feel just fine; indeed I can't say too much in favor of your medicine."

Burdock Blood Bitters is manufactured only by The T. Milburn Co., Limited, Toronto, Ont.

BRAMPTON Jerseys

CANADA'S GREATEST JERSEY HERD We are offering for sale one 2-year-old bull and four yearlings, ht for service; also six bull calves; females of all ages. Come and see them or write. B. H. BULL & SON, BRAMPTON, ONI

High Grove Jerseys in Canada. Present offering : Two choice young bulls about fourteen months old. Will be sold right, before going into winter. ART4UR H. TUFIS, P. O. BOX III, TWEED, ONTARIO.

A SPLENDID JERSEY BULL CALF. 1 year old, registered. Sired in direct line from Flying Fox, Dam extraordinary good producer from equally good stock. Apply: Box 127, Schomberg, Ont.

Homewood Holsteins will be at Guelph Winter Fair. We will be pleased to meet our customers. We will offer cows, heifers and bull calves from cows of high per cent. fat.

M. L. HALEY, M. H. HALEY, Springford, Ont. HOLSTEINS AND YORKSHIRES R. HONEY, Brickley, Ont.

Northumberland Co. Offers a choice lot of boars and sows ready to mate; also orders taken for the coming crop of calves from Prince Posh Calamity Bleske and R.O.P. cows.

I am offering for sale 2 young bulls and females of all ages. I have several of the noted Fancy tribe and daughters of Sir Admiral Ormsby.
W. F. BELL, BRITANNIA BAY, ONTARIO.

A Rare Chance to Secure a Great Sire. To avoid inbreeding 1 must sell my son of Tidy Abbekerk; record, 27,28 lbs, butter. He is 10 years a yearling. Or 1 will exchange for one of equid ment and breeding. It Boltert, Cassel, Ontario. For sale, at bargain prices, 10 choice registered Holstein Heifers in calf to Corinne Calamity Ormsby. W. A. BRYANI, CAIRNGORM P. O., ONTARIO "And what," asked a visitor to the North Dakota State Fair, "do you call that kind of cucumber?" "That," replied a Fargo politician, "is the Insurgent cucumber. It doesn't always agree with a party." With ma credit. two-year a grand-Maceric, dam by This is acter, su on a far 27,93 di

23 THE PRO

At the Aberdeen joint sale of Saortbours last month, a yearling Augusta botter, contributed by R. Anderson, sold for 300 geomeas; a heifer calf from the same family, from the herd of R. Bruce, brought 320 guineas, a heifer belonging to Λ Morrison sold for 500 guineas, and a bull calf, from the herd of the Duse of Richmond, named Eme Morning, brought 120 guineas

GOSSIP

James Bowman, Elm Park Farm, Guelph, Ont., makes a change in his advertisement of his noted prizewinning herd of Aberdeen-Angus cattle, which has made such a splendid record for several years past at leading shows in Canada, East and West. He has for sale both females and bulls; also Clydesdale mares and Suffolk sheep, which will be priced reasonably before going into winter quarters.

DALGETY BROS.' 1910 IMPORTA-TION.

One of the strongest importations Clydesdales landed in Canada this year was recently made by Dalgety Bros., of London, Ont., and Dundee, Scotland. The unique position of this firm residentially, part residing in Canada and part residing in Scotland, places them in a position most favorable to handle only the best obtainable in Scotland. Being continually on the ground, they certainly have the first chance to buy anything of exceptional merit that is offered for sale. and the many importations made by them in the sixteen years they have been importing Clydesdales to Canada have invariably been of high-class quality and genuine draft character. This last importation consists of five stallions and two mares. The stallions are an extra big lot, of ideal draft character, and with a grand quality of underpinning, horses that have been tried and made good, and that have won their honors in strong company in the land of their birth.

Hiawatha Pride 11710 is a bay fouryear-old, by the renowned champion, Hiawatha, dam by the famous Baron's Pride. This horse is up to a ton in weight, powerfully and evenly muscled, with draft character all over, and on a faultless quality bottom, one of the best horses imported this year, with breeding unexcelled. Dan Leno 11552 is a brown sixyear-old, by the great breeding horse, Hillhead Chief, dam by Sir Archie, grandam by Pandora's Prince, by Prince of Wales. This horse has won many prizes in Scotland, including first and championship at Cornhill. He is one of the big, rangy, stylish horses, with splendid quality of underpinning, a horse that will surely prove popular in this country. He was a most successful sire in Scotland. Dalziel 10626 is a gray seven-year-old, by the great sire of winners, Pearl Oyster, dam by the Cawdor Cup champion. Prince Alexander, grandam by Darnley, thus combining the famous blood of Prince of Wales and Darn'ey. He has many winnings to his credit, including fourth at Royal this year, in a strong class He is a horse of great draft character thick and smooth, and a proven sive of a high order. Strathearn Style 10016 s a black four-year-old, by the great Baronson, the sire of the champion Dyama, dam the noted champion mare, Minnie Gartly, she by the champion Royal Gartly. This is one of the thick. smooth, quality horses so popular in Canada, a horse that will do good in any section, and one tried and proven right. with many winnings in Scotland to his credit. Uniformity 11711 is a brown two-year-old, by Baron Rollo of Dunning. a grandson of Baron's Pride, dam by Maceric, a grandson of Macgregor, grandam by the £3,000 Prince of Albion acter, smoothness and quality, and stands on a faultless bittom. Fairfield Queen 23793 is a black four-year-old made of superior mould and quality, a right good one, and sufe in foal, sired by Balmedie has combining the blood of Prince of developed, will reach a tou in weight. Haawatha, dam by Sparrow Hawk, by Lord Stewart She has five registered



1833

1 611

user, Sold arse

nown

NT.



an bull by it of a Royal search of a to look him

M, ONT.

Several good propositions tore buying **RIO**. e from farm.

01

Omega. nd a

Ont

LS

on G. T. R.

fly, dam bred able to head eiters, mostly . R.

on, Ont RTISERS



QUESTIONS AND ANSWERS. Miscellaneous.

LIABILITY FOR STALLION SERVICE.

A travelled a stallion this season here, the rate being \$20; B breeds his mare to this horse, paying \$10 down; B's mare, through an accident, casts her colt. Is B liable for the remaining amount? Is A required to give another service? W. A. W. B. C

Ans.-It depends upon the advertised or agreed terms of the service. The probability is that B is legally liable for the balance of the service fee, as the stallion did his work satisfactorily. Of course, if the stallioner guaranteed a foal to stand and suck, as some rash ones do, then B is not liable.

REGISTRATION OF HOLSTEINS.

I have a number one pure-bred imported Holstein cow, which I bred to a good pedigreed Canadian - bred Holstein bull; have numbers of both sire and dam; find it impossible to get her calves registered in the American Herdbook. What can I do about it? Is there any chance of getting papers on her calves in Canadian H. S. M. Herdbook ?

Ans .- The imported Holstein cow will have to be registered in the Canadian Herdbook before her offspring can be registered here. She must be registered in the name of the importer, and be transferred to successive purchasers. For application forms and full particulars, write the Secretary, G. W. Clemons, St. George,

SCRUB BULL.

I have rented fifty acres about one mile from where I live, on which I am pasturing some cattle. They got into the adjoining farm unknown to me, and that man, the owner of adjoining farm, turned them on the road. When I got them, there was one of the worst runts of bulls with them I ever saw, which belongs to my neighbor, and which served one of the heifers, a valuable Shorthorn. If my heifer proves to be with calf, is the owner of the bull responsible for my loss that I will have, or have I to take it as JINGO. Ontario.

Ans.-We do not see that you could safely bring an action for the amount of such damages

ACTINOMYCOSIS-LUMP JAW.

1. I have a cow affected with lump aw since a few weeks ago. Please tell me how to cure it.

2. Is the cow fit to make beef if cured ? J. G. 3. Is it contagious?

Essex Co.

Ans.-1. The tumors usually can be dissected out by a veterinarian. When this is not done, the following treatment is given: Give iodide of potassium three times daily, commencing with dram about 20 grams until desire for food and

water fails, tears run from the eyes, saliva

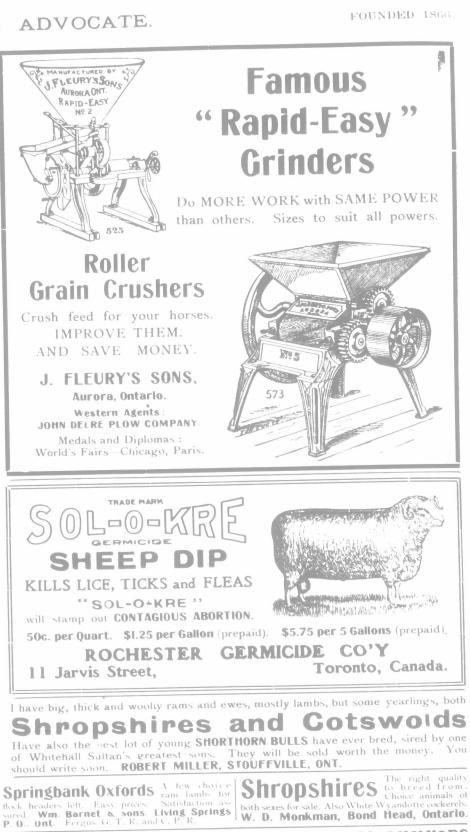
sciully. When any of these symptoms

sary, ireatment can be repeated in two

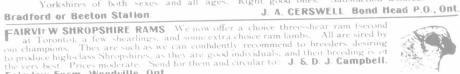
months. In addition, it would be well

each of iodime and iodide of potassium.

from the mouth, and the skin becomes



MAPLE VILLA OXFORD DOWNS AND YORKSHIRES Are ideal in type and quality. Present offering is a grand lot of ram lambs for flock headers, also a number of shearling ewes and ewe lambs, sired by imp. Hamptonian 222nd. Yorkshires of both sexes and all ages. Right good ones. Satisfaction assured. Bradford or Beeton Station. J. A. CERSWELL Bond Head P.C.

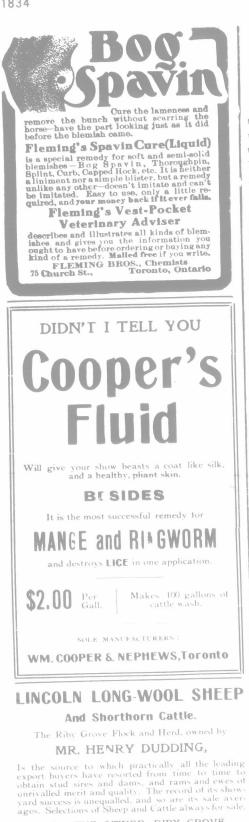




LEICESTER

Fairview Farm. Woodville. Ont. NEWCASTLE Tamworths and Shorthorns - DUROC - JERSEY SWINE AND







Apply: THE OWNER, RIBY GROVE,

STALLINGBOROUGH, GRIMSBY, ENGLAND.

The old standby for all who have stock liable to stray, or to dispute as to identification or ownership; for herd or flock records, or for general convenience F. G. JAMES, BOWMANVILLE, ONTARIO

FARNHAM OXFORD DOWNS

The Champion Flock. First Importation, 1881. Our present offering is a grand lot of ram lambs for flock headers, from our imported champion ram, and a number of them from imported ewes. Also a first-class imported yearling and a two-shear ram. Fifty superior yearling ewes, and a number of ewe lambs. We are also offering a few large Hampshire ram lambs from imp. size and dam. Long-distance 'phone on the farm : Central, Guelph.

HENRY ARKELL & SON, ARKELL, ONTARIO

Alloway Lodge Stock Farm

First-prize Canadian-bred flock at Toronto, 1909 and 1910. Your choice of the best lot of rams 1 ever owned. The prices are right.

Long-distance phone. ROBT. McEWEN,

Railway station, London. BY VON, ONTARIO.

SHROPSHIRES AND

COTSWOLDS

I am now offering a choice lot of yearling rams of my own breeding from imp. Minton ewes, also ram and ewe lambs of both breeds. A few rams and ewes fitted for showing

John Miller, Brougham, Ontario

CLAREMONT STATION, C. P. R.

Highest Quality LEICESTERS and and choice quality. Flock headers and show

ered and choice quality. Flock headers and show stock a specialty. **C. & E. Wood, Freeman. Ont**.

SOUTHDOWNS

mixed with 2 ounces vaseline. ondemned, and the rest of the carcass considered usable unless the disease is generalized. It is unlawful to sell it.

3. Through the eating of the saliva, or the discharge from the supporting tomots, one animal might get it from mother. The disease arises from spores alled actinomyces, which gain entrance

GOSSIP.

herd of 1 M. Forbes & Son, at Henry, Ill., on October 28th, 38 head sold for was Sight for the road three year old, Pride of is seen the highest price for a female way, (7.5) for the team year big La Belle 11

New Astronomy Source Control of Source Canada's simple boar. Dams by Colwill's Choice, Canada's champion boar, 1901, 2, 3 and 5. Also choice pixs, both sexes. Two yearling Shorthorn bulls Syme and Lavender families; 6 choice heiters and heiter calves. Prices right. Bell phone. A. A. Colwill, calves. Box 9, Newcastle, Ont.

Willowdale Berkshires ! Nothing to offer but suckers and three extra choice young sows, bred to farrow May and June. Be quick if you want one. J. WILSON Im-porter and Breeder. Milton P. O. and Station. C. P. R. and G. T. R.

Hillcrest Tamworths are second to for type and quality. For sale are both sexes and all ages, from sows bred and boars fit for service down to youngsters. down to youngsters. Herbert German, St. George, Ont.

SHEEP Choicely bred; either sex; various ages. Bel telephone Chatham Mac Campbell & Sons, Northwood, Ont. MORRISTON TAMWORTHS A grand lot of boars from 2 to 10 mos., also young sows (dandies). Some just bred. Some in farrow to first-class boars from bestherd in England. Prices right. Chas. Currie, Morriston, Ont



Bell

SUNNYSIDE CHESIER WHITE HOGS. I am now offering some very choice young things of both sexes, of breeding age. A few Shropshire sheep of both sexes. A number of Bronze turkeys and toms, and Red Cap cockerels and pullets. W. E. WRIGHT, Glanworth P.O., Ont. is bread

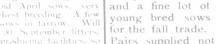


We have the choicest lot of pigs we ever had to offer: 25 March and April boars, long, straight and smooth, with good strong bone. 50 March and April sows, very choice, of richest breeding. A few mice young sows in tarrow. Will have about 30 September litters. We have doubled our hog-producing tachties so great has been the demind for our stock. A fair de d and satisfaction to everyone.



for the fall trade. Young pigs all ages. Pairs supplied not akin, from large imported stock. Write, or call on

H. J. DAVIS, WOODSTOCK, ONTARIO Long-distance Bell phone. C. P. R. and G. T. R.









NOVEV & 17, 1910

Cooking

and

Baking

at the

Same

Time

::5

ø

1

ŝ.

1-

0

R

VE SHALL

THE FARMELS SHE

States

rence.

initiative."



the Pandora Range. They introduced a new system of flue construction so that the draft for cooking would also be the draft for baking. With the Pandora you can have the kettles boiling over every pot hole at the same time the oven is baking pies and roasting beef.

Just think of the time that this perfect system of flue construction will save for you when you're hurrying to get a big dinner ready. Just think how much fuel the Pandora will save for you by doing the baking and cooking at the same time. And remember, no other range has this perfect system of flue-construction. Send for the Pandora booklet. It tells of other conveniences designed by our brainy stove experts.



Montreal, Winnipeg



Toronto.

London.

ALE SIP MAMENIA ON THE 1111 ave al-1 and mitted The the world of naments by internathe Rush - Baghot of 1817, under which the United and Canada have lived for all these years in mutual peace and security. In the September Nineteenth Century however capt. Cecil Battine, in an article entitled 'Canada Growing Up.' apparently thinks the time has come to revise this mollycoddle policy. Says he : "The British navy will guarantee that the coasts of Canada are secure, but it is a sound instinct on her part to prepare thus early to be self-supporting even in the matter of naval construction. Should Canada be threatened with war on her southern frontier, the military command of the great lakes would be of the most vital importance. An arsenal and dockvard must therefore he prepared to construct suitable craft for a struggle on the inland waters, as remote as possible from a possible raid, and having access to the lakes by the waterway of the St. Law-2402 It is a striking example of the permanent principles of strategy that the valley of the St. Lawrence is the key to military supremacy in Canada now, as it was when Wolfe so gallantly won Quebec for England, and the valley of the Hudson still leads the way to the vitals of the United States, if a northern invader should be bold enough to take the "We think the Captain's ideas are sound, but he does not go far enough. Let the Rush-Baghot Treaty be de-

Then Canada and the United nounced. States could make one continuous fortification along the shores of the St. Lawrence, and establish opposing army posts every five miles from Vancouver to Winni-A thousand super - Dreadnoughts peg. could also be built by each nation on the Great Lakes, so that no overt acts could take place there. Toronto and Chicago would, of course, have to be guarded by three lines of submarine mines, Montreal and Buffalo would need at least \$20,000,-000 for modern coast defenses, while it would be absolutely necessary for Quebec to double the height of the cliffs on which she is situated, so as to prevent their being scaled a second time. Seattle and Vancouver might each keep balloons anchored a few miles up in the air to watch the war preparations of the other. In the meantime, the Atlantic and Pacific squadrons of the British and American navies should have their decks cleared for action, and 10,000 aeroplanes in either country be put in commission to repel these mutual attacks in hot air. As probably all this would not be enough to preserve the peace, we might reasonably demand compulsory rifle practice in the public schools of England and the United al military service



THE ELECTRIC BEAN CHEMIGAL CO ... Ltd., OTTAWA.

Teach Your Boy to Save-

the bank account for your boy. Let him form the savings while young, and there is little likelihood he will turn out a athrift later on. We pay 31 interest, according to agree-1. and offer you \$2,000,000 assets as seen in

2% Agricultural Savings & Loan Co. 109 Dundas Street. LUNDON ONTARIO

states and from all male citizens between twenty-one and forty-five, and all enrolled suffragettes of whatever age. Thus, and thus only, according to our Captain Battine, can be guaranteed that certain and perpetual peace, that blessed millennial peace. the peace that passeth all understand--New York Independent. 1n_

In this keen vein of satire does the Independent dispose of the idea that navies on the Great Lakes could be other than mischievous, tending not to security of peace, but to probability of war, not to speak of the crushing cost. For the United States to commence building ships and forts along our international boundary would be arrogant and brutal; for Canada to begin, it would be little short of suicide. Leave well enough alone.

J. B. Hogate, Weston, Ont, has recent Toly sold the following Percherons: Richard Roseburgh, Chatham, Ont, the big, black two-year-old stallion Inceste (81949), sire Cambrai (62150), and to Jacob Swalm, Nottawa, Ont., another, the good, black two-year-old Imola 1607. the Pirus (59613), the first named weighing, when shipped, 1,785 lbs., and the second 1,100 lbs, certainly good weights for two-year-olds, and neither of them fat. Mr Hogate's horses are all doing well, and prospects for business were never better



Every Farmer's Wife in Canada **Ought to Read this Advertisement**

F you, Madam, are a farmer's wife, you should use your influence to get your husband to roof the house and barn with Oshawa Galvanized Steel Shingles. For these practical reasons:-

Safe Against Lightning

Every thunderstorm that passes over your place endangers his life and your own, and threatens damage or destruction to the property. But there would be no. such danger if the farm buildings were roofed with Oshawashingles. They protect any building against lightning—far better than any lightning-rod system possibly can.

Safe Against Fire

And, at certain times in the year, the house you live in and the barn nearby is in danger from fireflying sparks from the threshing machine; sparks from the kitchen chimney; sparks from passing locomotives; sparks from forest fires, perhaps. Farmer's roofs catch fire in many ways—and you are different from most farmer's wives if you do not dread this everpresent danger. You need not dread it at all when the buildings are covered with a seamless steel fireproof Oshawa shingled roof.

Improves Cistern Supply

Probably you depend a good deal on cistern water. An Oshawa-shingled roof keeps your cistern fuller, and the water is cleaner, tasteless, without odor. It never can be from a wood-shingled roof. It always is from an Oshawa-shingled roof.

Costs Very Little

When you speak to your husband about this, ask him to send for the instructive and handsomely-illustrated free book called Roofing Right. He will see, when he reads that, that the actual cost of an Oshawashingled roof is less than five cents per year for a hundred square feet of roof surface. He will see that this roofing is guaranteed to satisfy in every twenty-five years, or he gets a new roof for nothing. He will see that it will pay him well to cover his house and barn with a roof that is guaranteed wet-proof, wind-proof, fireproof and lightning-proof for a quarter century, and that will be a good proof in availy some for fully 100 years roof in every sense for fully 100 years.

SHAWA STEEL SHINGLES are made of 28 gauge steel, specially toughened and heavily galvanized to make them rust-proof. Thus they weigh about SEVENTY-EIGHT

pounds to the square. With the box about 88 pounds to the

square. When considering metal shingles always learn THE WEIGHT OF METAL per square offered and be sure that the weight is of the METAL ONLY.

Make the weight test yourself. First be sure the scales are accurate. Then unbox a square of Oshawa Shingles and weigh them. Note that the weight averages 78 pounds WITHOUT THE BOX.

ON'T stop when you have Oshawa-shingled your roofs. That is only the first step towards making a house modern, or a barn what a barn should be. Go on and plate your house inside and out with steel. Cover the surface of your barn with steel. In a word, "Pedlarize" every building on your farm. This way:

Make Your House Fireproof

Finish the interior of every room in your house with Pedlar Art Steel Ceilings and Side-Walls. These are made in more than two thousand beautiful designs, the patterns stamped accurately and deeply into the heavy and imperishable metal. They cost less than plaster in the first place; and they will be like new when a plaster ceiling or wall is cracked to the danger point which doesn't take long as a rule. They are casily put in place. They can easily be painted and decorated.

Make Your House Sanitary

Then, if you surface the exterior of the house with Pedlar Steel Siding - it is made to simulate brick, rough stone, cut stone these Ceilings and Side-Walls and an Oshawa-shingled roof gives you a residence that is more nearly fireproof than the "skyscrapers" of the great cities. Also, such a house will be much warmer in winter than if it were built of solid brick – and so it will save its cost in fucl-savings. It will be cooler in summer. It will be sanitary inside – you can wash stantial, and enduring proof of your judgment in choosing the modern build-ing material steel Pedlar-made Steel.

Make Your Barns Safe

With Pedlar Steel Siding you can finish the outside of your barn most economically, and your cattle will thrive better in bitter weather than if they were housed in a solid concrete barn. This out the wind and keeps in the animal heat. It saves in lessened feed-bills enough to pay its cost over and over. It costs but little; it is simple to put on; and it will outlast the building's very timbers. Most important of all, it—with Oshawa Steel Shingles for the roof— makes barus practically proof against fire, entirely free from every kind of dampness, and proof against lightning.

Use Your Influence

Interest yourself in this vital matter. It directly concerns you. Get your husband to inquire into it. Get him to send for the free bud free book -- now -- to-day. Or send for it in your own name. Do that, anyway. You will be interested in what the book tells you; and it is important that you, as well as himself, should know all about reading, and about Roofing Right in particular. Send now for the book, please.

Don't go by the box weight. Some boxes weigh fourteen pounds or more.

Learn About Pedlarizing

At the same time you send for your free copy of Roofing Right Booklet No 16, ask n pounds *Replace* (approximation of the order of the order) and the second of the second of the order of th

GET SEVENTY-EIGHT POUNDS OF STEEL TO THE SQUARE GET A TWENTY-FIVE YEAR GUARANT



THE PEDLAR LEOPLE OF OSHAWA, OSHAWA, ONT.

OUTREE, P.Q. MONTROM, Que. OTTAWA, Ont. TORONTO C. 127 Rue de Font 321 3 Cring St. W. 423 Sussex St. 111-113 Bar St. TECHNY, Steak CALGARY, Alta, EDMONTON, Alta, VASCOUATER and Easts av St. S. Roem 7, Crown Blk, 633 Fifth Ave., N. of Jasper, 319 Dec. Sc. TANK YENTS IN SOME LOCALITIES. WRITE FOR DETA