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ROST WIRE FENCE CO., Limited, Hamilton, Canada



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THE FARMER'S ADVOCATE.



A crackerjack of a Xmas present

Remember when you were a kid? The presents that were all shiny and bright, and that "worked!" Were'nt they the ones that you were proudest of?

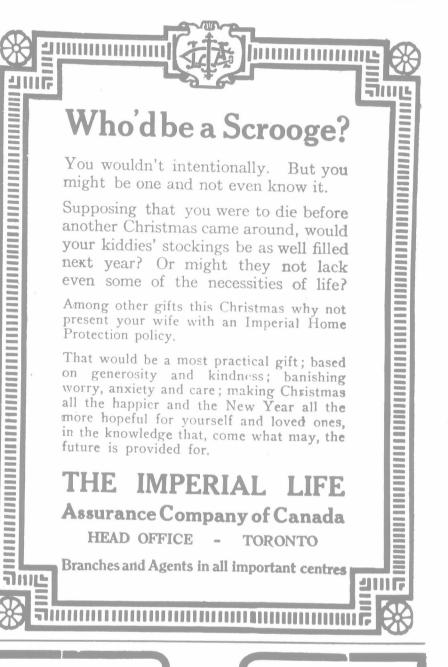
Something for your room—something you could use all year—something like big people had in their rooms. The sensible presents appealed to you best when you were a kid. Think back a bit and see. Then think of Big Ben for those boys and girls.

Toys, of course, should never be displaced. It wouldn't be Christmas without them. But mix in *useful* things -things that develop *pride* and that of thinking they don't feel the compliment.

Let one thing that meets the eye of your little boy and girl on Christmas Morning be that triple nickel-plated, jolly, handsome, pleasant looking, serviceable, and inspiring clock-BIG BEN. See if you don't hear them say: "Why! Isn't that a crackerjack? Is that for me to use myself?

a crackerjack? Is that for me to use myself? Dig Ben is a crackerjack-of-a-Christmas-present to give to any friend. He's two presents in one, a dandy alarm to wake up with, a dandy clock to tell time all day by. He stands seven inches tall. He's got an inner vest of steel that insures him for life,—big, bold, black hands you can see at a glance in the dim morning light without ever having to get out of bed—large, comfy keys that almost wind themselves and a deep, jolly ring that calls just when you want, and either way you want, five straight minutes or every other half minute for ten minutes unless you flag him off. Bis Ben is sold by 23,000 watchmakers. His

Big Ben is sold by 23,000 watchmakers. His price is \$2.50 anywhere in the States. \$3.00 anywhere in Canada. If you can't find him at your dealer's, a money order mailed to *Westclox*, *La Salle, Illinnis*, will send him anywhere you say, attractively boxed and express charges patd.



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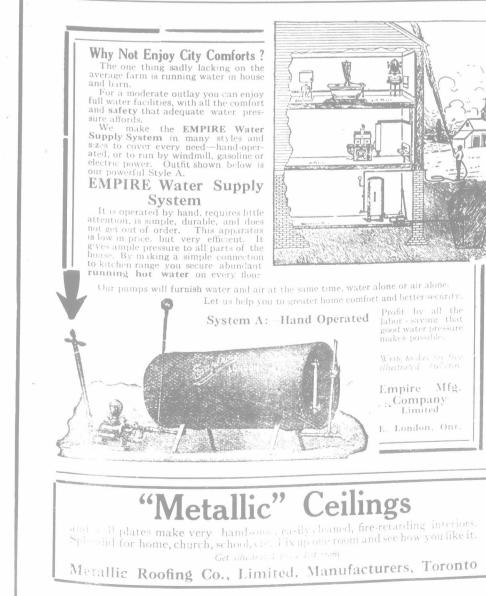


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make little people feel responsible. Give them presents to *live up to* and to *live up with*. Don't make the mistake



Sydney **Basic Slag** The Ideal Fertilizer for Stiff, Clay Soils

IF we could call on you, Mr. Farmer, who are reading this and tell you all about our goods, we would not advertise, but as we cannot make your acquaintance personally we are spending quite a lot of money just to get YOU interested. We have goods to sell which, if you will use, will recoup your outlay with good interest.

WE MAKE MONEY BY HELPING YOU TO MAKE MONEY

The proprietors of this journal know that we are a reputable firm, and that our goods are all we represent them to be, otherwise this advertisement would not appear here. If you have used fertilizers in the past you know their value, but you will get equally good results from **Sydney Basic Slag** at a saving in price of \$10 to \$15 per ton. If you have never used fertilizers, then make a beginning this season with **Sydney Basic Slag**. It is your duty to the Empire to increase your production of foodstuffs, and this can be accomplished with the aid of fertilizer.

> For descriptive literature telling all about SYDNEY BASIC SLAG, write to t

The Cross Fertilizer Company, Limited SYDNEY, NOVA SCOTIA

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When arrive advertises, a set of the Larmer's Advocate



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VOL. XLIX.

EDITORIAL.

He is careless who keeps a dirty stable.

This is a business war .- Buy Canadian-made goods

Weed out the inferior stock at the beginning of winter.

Do not kpep live stock but make the live stock keep you.

The farmer who depends upon "luck" generally has " bad luck."

Waste no time in regretting the past-make locality. good now and in the future.

Remember that winter is a better time to cut wood than summer. Cut it now.

as war has been disrupting in 1914.

Straw is considered by good stockmen to be almost as valuable for bedding as for feed.

most dependable mainstays of the dairy industry.

LONDON, ONTARIO, DECEMBER 17, 1914.

Laying Plans for 1915,

The winter season affords an excellent opportunity for the man on the farm to lay his plans for next year's operations, and in this he has many chances to get new ideas from his reading and from winter meetings which are held in his own neighborhood. At the present time the Province of Ontario is fairly well covered with Farmers' Institutes, Farmers' Cluis, Fruit Growers' Associations, Seed Growers' As:ociations, and other farmers' organizations of which he should take full advantage. The winter season in most of these is given over to a series of meetings with prominent outside speakers to help out the local talent and the whole if properly conducted, and properly supported by the men of the district should help each and every farmer in that

So often, after the chores are done at night, the farmer feels more like toasting his shins at his own fireside than driving from one to three miles to the nearest village to attend a meeting. However, it would be to his own advantage in most Peace may yet be just as reassuring in 1915 cases if he made it a point to attend every one of these meetings, and, when there, to take part in the discussions and help make the meeting interesting and of value to all in attendance. We have been at Farmers' Institute meetings and Farmers' Club moetings where only a mere hand-The cheese factory is proving itself one of the ful turned out and where discussions were slow and draggy because the one or two particular speakers of the evening had to do all the talking. Nevertheless valuable information was given. At these meetings the subjects discussed are generally those which directly affect the farmer, and the problems being threshed out are those Give the boy a colt, a calf, a pig or a lamb which he is called upon to meet pach year in his ence, learned something of value, which, were he to relate it to the others, would make the meeting more interesting and of more value to all, would if followed out by all in attendance at all the farm organization meetings throughout this and other provinces give a direct impetus to agriculture. When a meeting is announced to be held in a village, some are prone to mate the statement The annual school meeting and nomination for that they know as much about the particular subject to be discussed as the speaker and do not think it worth while attending. This is a wrong This Christmas season will be robbed of much a man is well versed in the topic to be discussed do not attend lessness, laziness and inefficiency which may Every good farmer aims at this each year. If we in that time receives the full benefit of his imincrease production to a large extent we must provement. have better systems of murketing or trouble will surely come. These two subjects any going to be get longer term leases and give the tenants full the windows on a mild day. It is not often there of prime importance during the coming winter and benefit from their efforts in improving the soil and is too much glass but frequently there is too no farmer can afford to miss discussions of the farm steading there would be much less trouble different problems which come up in working out between landlord and tenant, much better satisthe desired end. As a first step in planning the faction for both and a higher state of fertility on Source of the war correspondents said to be work for 1915 we would suggest that every met- rented farms in this country would undoubtedly "Me-witnesses" of the fighting must have a ing of farmers for farmers be attended by every result. No tenant can really afford to slight his ideas. There is no place where they have a better from this land he must get his returns in follow-

opportunity than at one of their own meetings. Let them avail themselves of the opportunity offered, and see how soon a mere handful in attendance will be swelled to numbers which will tax the capacity of the building and the lukewarm interest will be changed to a live and even spirited meeting with large numbers taking part and profitable discussions resulting invar ably.

No. 1160

If the farmers of this country ever expect to make the most of their case they must get together and thresh it out. This winter is the time to begin. Regular attendance at such meetings, where all go, not to scoff, but to learn something and to help their neighbors, will surely aid in planning the work for another year, in fact it may so revolutionize the plans of the careless man that his 1915 operations will be a success in place of a partial or total failure.

And while on this subject carry some of this discussion to "The Farmer's Advocate." Give our readers the benefit of your ideas born of experience. All hands together for bumper returns in 1915. Our columns are open. We are anxious to help.

Short and Long-term Leases.

One of the most common sources of trouble between tenant and land-owner in this country comes as a direct result of short term leases. When a tenant rents a farm and gets a lesse running anywhere from one to five years no one can blame him very much if he tries to make the most out of the deal and in the result robs the land. Of course, we do not believe that it is good policy even for a short-term lease to run the land to death but if his lease only runs for a year or two one can naturally expect that he will crop all the land that he can get under cultivation and that he will use all the methods known to himself to stimulate the land to the greatest possible production during these two years, caring very little about the condition in which he leaves the farm for the next tenant. Landlords almost invariably take exception to this form of mining the soil but many do not look in the right direction for a remedy by which the evil may be overcome. In the first place, a leaser should be sure he is getting a good tenant and then to be fair to himself, his tenant and his farm, he should by all means secure long-term leases on his property. True, some lands are conception to take of the matter and even though rented in this country on ten-year leases but we have heard of very few longer than this period. of the usual merriment but the spirit of giving he should be there to hear what the other f llow A great many more are leased for a five-year has to say and to give the others the opportunity period and thousands for one and two years, these of learning what he knows about it. During the latter being as a general thing, after a few years coming winter a large number of meetings will be of renting, considered as run-down farms cropped tions rarely has his ambitions set on the top held throughout the country, all intended to h lp to death. In Mr. MacNeilage's article in our the farmer to help himself in the business in which Christmas number methods of Lasing in Scotland he is engaged. You cannot get the benefit if you were discussed in which he pointed out that the term of legal tenancy in that country is nineteen We are told that we must increase production. years and that a tenant who improves the land If our land-holders who rent to tenants would

Old timers tell us that our Winters do not come as early as they did years ago, neither do our Springs.

to feed and care for this winter and watch him operations. He must have, from practical experiout-do his dad.

A mangel a day keeps the veterinarian away from the calf, and a turnip a day will do the would help himself as well as the others, and same for the colt.

There are those who claim that Indian Summer always comes in November. We think it was a month late this year.

township council should divert some of the war interest to other channels.

is in evidence as never before.

The man who reaches the height of his ambirung of the ladder.

The farmer "out of a job" is drifting into a dangerous current composed of carelessness, listswamp him.

Get more light into the stables by cleaning up much dirty glass.

long range of vision, for we understand that farmer in the community in which it is held. We farming operations, neither can he, if he be a long-Kitchener and Joffre allow them within twenty need formers who can think and express their term tenant afford to "run" the land because miles of " the front."

The Farmer's Advocate

AND HOME MAGAZINE.

THE LEADING AGRICULTURAL JOURNAL IN THE DOMINION.

Published weekly by

THE WILLIAM WELD COMPANY (Limited).

JOHN WELD, Manager.

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

- THE FARMER'S ADVOCATE AND HOME MAGAZINE is published every Thursday. It is impartial and independent of all cliques and parties, handsomely illustrated with original engravings, and fur-nishes the most practical, reliable and profitable informa-tion for farmers, dairymen. gardeners, stockmen and home-makers, of any publication in Canada.
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THE HORSE.

Follow the British Horseman's Lead.

Over in the Old Country, which is recognized by stockmen practically the world over as the stud-farm of the stock-breeding industry, horse breeders are laying plans to increase the number of foals raised another season. The war has taken heavy toll in the horse-breeding industry of Britain, but, fortunately wherever possible the mares have been left to raise their colts and the future of the industry is assured. In Canada, there is a great deal of pessimism due to the fact that horse sales have slowed up very materially. Our breeders might well, we think, take a leaf out of the British horseman's book and put forth every effort next season to increase the number of foals raised. It may look a little precarious at the present time when horses are not moving very rapidly but the time must come within the next few years when good horses will meet as ready sale as they have done any time within the past decade and we have seen some good prices and a brisk trade in that time. The thousands and thousands of horses which are being sent to the front will never return to their own work when peace is assured. Their places must be filled by other animals. Almost all trade has been affected by the war but when the war is over and militarism crushed, economists tell us that af er a few years of necessitated depression excellent times are ahead. When these come, trade expansion will be great, all kinds of husiness will boom, more horses will be required to carry on this business and as a consequence the horse business will benefit.

The man who looks ahead is generally the winner. Following every period of depression in the horse market has come another period of brisk business, because, in depression no one breeds horses and there soon is a scarcity. A scarcity increases the demand which invariably shoves up the price. Notwithstanding the fact that there are a large number of saleable horses in this country and horses which are on the market, we see no reason why the breeding end of the business should not be pushed another season that those now having the right kind of brood mares may reap the benefit of the enhanced market which must come as a result of the depletion of the world's horse supply by the dreadful slaughter in Europe.

The Development of Horse Warfare. Editor "The Farmer's Advocate"

Durazzo. True to their tradition they dismounted and fought on foot. Not a man escaped alive, and nearly three centuries passed before infantry, unsupported by cavalry, made an attempt to stand in the open.

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It was therefore due to the Norman Conquest that cavalry were first used in England for war, and the requirements of the great war-horse did not change throughout the age of chivalry.

The favorite breeds were Spanish, and these in their turn were derived from the inter-breeding of the European horse with the Libyan or North African horse.

During the age of chivalry the great horse, or war-horse was a necessity in all warlike operations. From very early times men had been accustomed to wear some form of defensive armor, and so the large breeds of horses were These horses, as one might expect, developed. were capable of carrying a very heavy weight. A man fully armed, and his charger protected with armor, imposed a burden of not less than 32 stone on his horse, or about twice the weight a very heavy-weight hunter is expected to carry nowadays.

Horses of the right stamp were very scarce in England through all the age of chivalry. Some of our kings tried to remedy the deficiencies in King John imported 100 Flemish various ways. stallions, and thus laid down the foundation of the modern cart horse. But Edward III., was the first of our rulers to study seriously the improvement of the English horse, and it was in his reign that breeders began to cross the heavy English breed with horses of a lighter structure and of greater speed. The King imported Spanish horses, paying 1,000 marks for eighty animals. These arrived safely in England at a cost of £180 each, reckoning in the money of to-day. He also improved the native horse by forbidding their export abroad, as apparently even then foreigners improved their horses by importing English blood.

Edward was at one time in debt to the Court of Hainault for a sum of £25,000 which he had spent on horses, insisting on having the best of horseflesh, whether he could afford to pay for it or not. But, in spite of his efforts, the English cavalry in the wars of 1346 were badly mounted, and large numbers of foreign horses had to be bought for them.

From Edward III.'s reign to that of Henry VIII., little is known of the development of the English horse. Henry VIII. imported horses from Turkey, Spain, and Naples, and he enacted laws for the improvement of the native horse. Each park-owner had to keep from two to four brood mares not less than 13 hands high, and no stallions under 14 hands were allowed for breeding in the commons, chases, and forests ; no stallions-

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ing years, the terms of the lease making it necessary for him to reap in after years the results of his labor or his folly in former years. The tenant who farms and farms well, who makes it a point each year to build up his land just a little more than he takes out of it in cropping, invariably makes the most of his farming operations in the end and he is the class of tenant that the landlord desires to have on his place. When he gets this kind of man, he should give him enough security of tenure to warrant him going ahead and putting forth his best efforts to be the best farmer in his neighborhood. Longer termed leases would do a great deal for the farms that are operated year after year under a leasing system.

Subscribers, Attention!

The Farmer's Advocate wishes to advise all its many subscribers against the all too common practise of paying their subscriptions to this paper, renewals or new names, to parties not authorized by the publishers to accept such money. Editors and representatives of small-town local papers, and postmasters are not authorized agents of "The Farmer's Advocate" and parties paying their money to such must do so at their own risk. In order to keep a check on all subscription work we would also ask our subscribers to watch the date on the label of their paper and see that it is properly changed when remittances are made or subscriptions paid to our agents. This is important.

If you have had any valuable experience dur ing the past season, give our readers the benefit of it by writing an article for our columns. As a practical farm paper we want the ideas of the practical farmer.

Horses were used for war in England long be fore the eleventh century. Caesar, when he invaded the country, found that the islanders used war chariots, and everyone is familiar with the story of the heroic Queen Boadicea. But the horses used were very small, and this is probably one of the reasons why chariots were used. The breed, native to the country, was, however, improved by the importation of Roman stallions.

The Teutonic tribes, who settled in Great Britain in the fifth century, were ossentially seamen and foot soldiers. This is shown by the Anglo-Saxon graves, for, although a warrior was always buried with his weapons and his shield, it is rare to find horse-bits and trappings as well. So it seems that the Anglo-Saxons were not a nation of horsemen, and that they were accustomed to fight on foot. What horses they had were us d for pack animals, since ploughing was always done by oxen. In fact, at a very much later date, in Wales there existed laws forbidding the use of horses at all for the pur_Poses of agriculture

At the battle of Hastings, the English army fought on foot. There had not been wanting η_2 formers, even in those early days, who were opposed to this manner of fighting. It was known that the Normans across the Channel combined the use of cavalry and archers in the attack, and this tactical development was viewed in this country with some dismay. In the middle of the eleventh century the captain of the garrison of Hereford directed his followers to serve on horseback, so as to accustom them to the manner of warfare on the Continent. But nothing was done as this was considered contrary to the English customs an excuse which seems to have a modern flaver- and it was left to a conqueror to prove on the field of battle how obsolete English train-

At Hastings then, the English were drawn up, from their king to his humblest follower, on foot covered by their shilds, should \mathbf{r} to should \mathbf{r} , and forming an uncenterrable mass against the hostile charges of the cavaly. They were some 20,000 in number, and they were attacked by from 15,000 to 20,000 orthers and by about 12,000

There was one more trial between the two systems. Some of the English who would not submit to Norman rule, enlisted in the famous varingian Guard, and, about fifteen years after the Battle of Hastings, they met the Normans at

15 hands were allowed to run free. Geld ing was introduced about this time.

In Elizabeth's time there was still a scarcity of horses, and in 1588, the year of the Spanish Armada, only 3,000 horses could be mustered, and these were said to have been strong, bulky animals, slow in action and only fit for agricul ture or draft, and very indifferent chargers. It was a penal offence at this time to make over a "horse to the use of any Scottish man." Coaches were also introduced, an invention which marks out a new stage in the history of the English horse

Blundeville, writing in 1580 of what he considers the best breeds, includes the Turk and Barbarian in his list, and says that the horses that we commonly call Barbarians do come out of the King of Tunisland, out of Massille Numidia, which for the most part be but little horses, but themselves very swift and able to make a long cariere, which is the cause why we esteem themso much.

These Eastern horses soon produced their effect in improving the native horses, and in the middle of Charles I.'s reign th re were considerable numbers of horses of the hunter type in England; it was on such horses that Cromwell managed to mount his Ironsides, at a cost of some £18 for each horse. The great, Protector knew his business well. There is a letter from him, dated November 11th, 1642, which must remain a model for the needs of the horse-soldier. It runs :-

" Dear Friend,-Let the saddler see to the horse gear. I learn from one many are ill-served. If a man has not good weapons, horse and harness, he is as nought.-From your friend, Oliver ('romwell.

Charles II. was the true founder of the system breeding which produced the Thoroughbred horse of to-day. He sent his Master of the Horse to the Levant to buy mares, principally Turks. and Barbs. The influence of the Lybyan horse must still be noticed. The result of these purchases were the celebrated royal mares, from which our racehorses are for the most part descended.

In William II.'s reign the first of the three most celebrated Eastern sires was imported. This horse was the Byerley Turk, and was the charger of Cantain Byerley in King William's wars in Ireland. This is the first instance which the writer has found of the close connection which

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there has always been between racing and soldier- and racing under some building etc., and setting scraping table it has been arranged to have the thought that few soldiers remember when they go to Epsom or Ascot that in all probability they are watching some of the descendants of an Irish charger.

A few years later, two other stallions were imported, the Darley Arabian and the Godolphin It was quite by chance that the Godol-Arabian. ohin Arabian was a success at the stud. In 1731 he was used as teaser to a horse named Hobgoblin, and when the latter refused to serve a mare called Roxana, she was put to the Godolphin Arabian. Her first foal by him was called Lath, and was one of the most celebrated rasehorses of the day.

great war-horse served his part, and The gradually disappeared. His descendants still survive in the cart horse, in the State coach horse, and in the black chargers of the Household As the need of swifter horses for war Cavalry. and for pleasure arose, so the modern types gradually developed, the racehorse and the hunter deriving their size and strength from the old native strains, and their beauty, their courage, and their endurance from the Eastern sires.

G. T. BURROWS.

LIVE STOCK.

Butchering and Meat-curing at Any Season.

Editor "The Farmer's Advocate":

"Say Carter, is it so that you kill a pig any time you need pork whether it be winter or sum-"Yes."

"Well, how do you keep the meat from spoiling in the summer?

Within the past year so many have spoken thus to me, that I am led to believe that my recipe-which is nothing more than salt, cleanliness and care—may be welcome to the neaders of "The Farmer's Advocate." If I may say a few words before I begin, let me say that he is a poor, shiftless farmer indeed who in summer forces his hogs to wallow leg-deep in filth, slaughterhouse style, when a few hours' work and a few dollars spent in posts, lumber and wire will en-close a plot of grass a hundred feet square in which they may move in comfort.

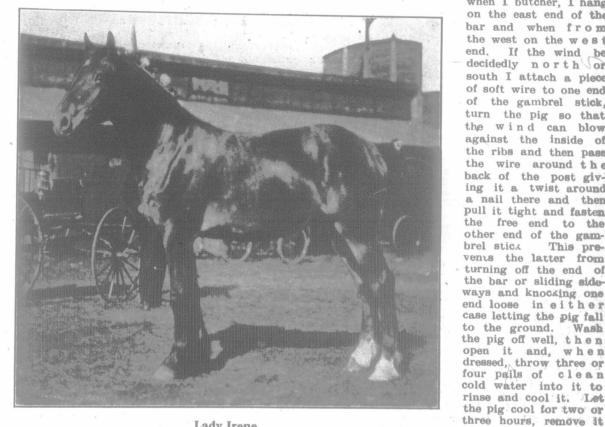
Whenever I need pork and the knives are sharp I butcher, no matter whether it is 90 degrees in the shade or not. To be sure in real warm weather I delay butchering till so late in the eve-ning that I finish merely by dark, then, if the flies are still numerous and buzzing about, I pin a thin cloth about the carcass to keep them from blowing on the meat. When about to butcher, one should dress for the occasion. One's clothes, however patched and faded, should at least be clean. When properly attined, I arm myself with a butcher-knife and a loaded 22 calibre rifle and go to the hog lot, open the gate and move the hogs about until any one of the two or three, which I have previously selected as being ready to butcher and have marked along the back with washing blue or a piece of charcoal (this is easily done when the bogs are being fed) to avoid a mistake, walks out of the enclosure. I then close the gate and when the hog stops to partake of a handful of meal, a few potatoes or such feed, which "to halt his trot" I have placed for him a few feet outside the gate, I take aim at a point where lines, if drawn obliquely from the ears to the eyes, would cross and shoot him down. Care must be taken that the hog's head is well up when the trigger is pulled, otherwise the bullet would pass downward and below the brain. If the shot be well directed the hog will drop and for a few moments will struggle but little, thus allowing plenty of time for sticking him. At this point let me explain why I use the rifle: (1) It is more humane. (2) It saves time by eliminating the racing and chasing. (3) It is safer, guarding as it does against one falling while chasing the hog or getting kicked, scratched or bitten while throwing and holding him. (4) It keeps down the temperature of the hog. (5) It prevents a display of stubborness on the part of the hog and temper on the part of the butcher. Thus the work commenced in order, is conducted in peace and ended with the butchers in good humor.

THE FARMER'S ADVOCATE.

For a scalding and scraping table I use a 12-foot Rock Elm plank, 15 inches wide, placed on two blocks 20 inches high. This plank has been used for such purpose for the past 15 years and is still sound. When butchering is over it is thoroughly cleaned and placed on two blocks outside the wood-shed door where it serves for a seat, washing table etc. tank I use a 45-gallon vinegar barrel slanted against one end of the plank which protudes a couple of inches beyond the block. Four small-

hanging post within four or five inches of the side of the plank and a couple of feet nearer the barrel than the rear end block. On top of this block and beneath the plank, place a square-faced block a foot thick. Draw the pig back heels first until his neck is opposite the post : stand him on his head and there will be little difficulty in slipping For a scalding, the gambrel stick over the hanging bar. My hanging post is an 8-inch ironwood sunk 4 feet in the ground with a hole bored through it east and west, 5 feet 8 inches from the ground. Through sized blocks, one placed at either side under and this hole there is a four foot piece of 11 inch against the chimes, one below and against the crow bar. If the wind be from an easterly point

end.



Lady Irene.

Sire, Ganymede; dam, Bloom of Ironsides. First-prize yearling filly at London, 1914, for G. A. Attridge, Muirkirk.

pig is being scalded.

To avoid heavy lifting while tabling the rig, bones. The salt will now have a good chance to remove the plank from the block furthest from penetrate the thick hams and the shoulders. Salt [remove the plank from the block furthest from A roll over places the pig upon it, the barrel. then I pull the pig down towards the barrel end after which the plank is easily restored to its former position. A handful of ashes is added to the scalding water and the pig, while being scalded, is kept on the move. A good scald results and in removing the bristles the thin outer laver of skin comes off. Never leave this tissue-like skin on, otherwise the pork is liable to taste strong and will be harder to cure. A couple of horse-shoe nail boxes weighted each with a brick

bottom and one" on the under side against the tion later will make up for the loss of sleep. staves serve to keep the barrel in place while the Cut the hams and the shoulders and remove midnight, but satisfacthe bones. Some meat of course will cling to the

when I butcher, I hang

on the east end of the

bar and when from

the west on the west

decidedly north or

south I attach a piece

of soft wire to one end

of the gambrel stick,

turn the pig so that

the wind can blow

against the inside of

the ribs and then pass

the wire around the

back of the post giv-

ing it a twist around

a nail there and then

pull it tight and fasten

the free end to the

other end of the gam-

venus the latter from

turning off the end of

the bar or sliding side-

ways and knocking one

end loose in either

case letting the pig fall to the ground. Wash

the pig off well, then

open it and, when

dressed, throw three or

four pails of clean

cold water into it to

rinse and cool it. Let

and cut it up and salt

it. This may take

you till a little

This pre-

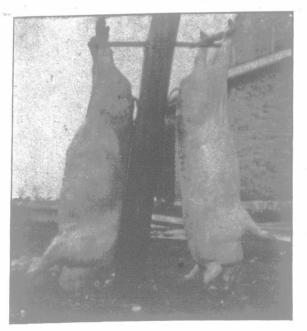
past

brel stick

If the wind be

As any pounding of the hog while catching him or hauling him about while there is a kick in him. blackens the meat and makes it more prone to spoil I do not stir him until he is "stone" dead, then if a light hog I turn a wheel-barrew on its side and roll him into it, or if a heavy pig, roll him onto a stone-boat and convey him to where he is to be scalded and scraped.

The full of a wash-boiler, and a couple of pots or kettles of water is sufficient to scald a rig. This water I heat on the stove indoors, rather than in a sugar kettle outdoors, 1st. because it of dogs, cats or poultry catching fire from sparks ing the pig. This is easily done if in erecting the the limit of economical feeding



Two Good Ones Hung.

and placed, one at either end of the hog, will serve as useful receptacles for catching and holding the bristles. Wipe the knife on the edge of these instead of on the overalls, grass or table, a slovenly procedure bound to make cleaning up all the harder. Right here let me say there should be a cleaning up, as a sight more disgusting than a lawn or chip yard bewhiskered with blood-and slough-clotted bristles, is not easily imagined.

After the scraping, the next thing is suspend-

the meat heavily and place in a wooden tub or half barnel, skin side down (salt has a chance to soak down into the meat) and the sides placed on top of the hams and shoulders (the weight helps to force the brine out of the thick pieces) and cover with paper or thin cloth to exclude flies. Let it stand a day and a night to brine off : then remove the meat : pour off the brine : clean the tub : sprinkle some salt in the bottom of the tub : rub the meat lightly with dry salt : replace in the tub and again cover it. In case it brines again, which sometimes happens, repeat the above. Salt the bones the same as the meat and place in a crock by themselves and handle them the same as the meat. Keep the cellar windows down in daytime to exclude the heat and up at night to allow the cool air to enter. Overhaul the meat in the course of a wyek and if there is any sign of mould or, if it feels slippery, rub lightly with dry salt, enough of which perhaps is still adhering to the meat. This does not make the meat salter but merely helps to dry it. Owing to May, June, July, August and September being warm months I remove the ham and shoulder bones when butchering, at other seasons I do not. I do not use ice in the cellar. I have screens on all cellar windows, outside doors and windows but yet I find it absolutely necessary to keen the meat covered as one fly might spoil the whole tubful. The above method of butchering and summer curing of pork has been practiced on this place for the past thirty-two years and has given entire satisfaction. A friend of mine who had but recently adopted this method told me that his wife liked it and so did his children, but he didn't. When asked for his reason, he said : well, it is just this way, the pork is such an improvement on the old rusty variety that we eat a pig up in a trice, consequently it is expensive,-and with a broad grin-still I guess I'll put up with the expense and I'm mighty glad you put me wise.

Middlesex Co., Ont. ESLIE CARTER.

The Autumn work well completed should mean Spring work advanced next April. There is a big crop to be put in and Spring will sunely be a rush season in any case.

In an effort to cut down the cost of feeding, some are sure to feed so little that they go past

Abortion in Cattle.

Abortion is the expulsion of progeny at any time before the completion of the full period of a normal pregnancy. Abortion is of two kinds, accidental and contagious. It is practical.y impossible to distinguish one sort from the other although causes differ widely.

ACCIDENTAL OR NON-CONTAGIOUS ABORTION.

Causes .-- Poor condition, weakness, thin blood. and such results of poor nutrition.

2. The depletion of bodily strength by diseases, worms or excessive loss of blood.

3. Chronic diseases, such as bloat, diarrhoea, kidney troubles or indigestion.

4. Putrid drinking water, ergot on grasses, smut on grains, rust on grains and grasses.

5. Falls on smooth planks and concr. te floors, icy yards, narrow doors, riding other cows, and in any other way straining muscles of hind quarters.

6. Stands with a too great slope to rear, or deep gutters in which cattle stand hind feet.

7. Excitements and presence of blood, dead carcasses, dead foetus, afterpirth and such, especially if in putrid condition.

8. Irritating poisons, powerful purgatives, lack of mineral matter in ration, or the like, powerful purgatives, which derange the digestive system and induce abortion.

Treatment.-Eliminate causes and place in quiet stall. If foetus has not died, nor water bags been presented, administer laudanum in 1 to 2 ounce doses (depending on size of cow) and repeat in three or four hours should labour pains recur. If laudanum does not give permanent results use Extract of Black Haw (Viburnum & runifolium), (40 grains) every three hours for one day.

In cases where the cow shows first signs of abortion, the writer has had good sucless in mixing 1 tablespoonful of Black Haw with me.l feed morning and evening and continued for a week or longer if necessary.

CONTAGIOUS ABORTION.

Contagious abortion is the scourge of the stockman. This dis ase is seen where a cow continues to calve prematurely year after year with no apparent external cause, or where a large number of cows, all bred to the same bull, cal.e prematurely, or where cows in direct con act with a cow which has previously calved prematurely, in turn also calve prematurely. It is a germ disease and easily contracted by healthy individuals. The germ lives on the lining membrane of the womb, causes catarrhal inflammation which in turn causes expulsion of foetus.

Causes.-1. The germs contracted

The cow is dull, sluggish, separate from the herd, chewing the cud languidly, frequently lying down and rising, uneasily moving the shind feet and tail; the pulse and breathing fast and muzzle dry.

Usually contagious abortions in a herd follow one another at intervals of from one to five weeks.

METHYLENE BLUE, A REMEDY FOR INFECTIOUS ABORTION.

During the past twenty years many various disinfectants have been experimented with as a cure for contagious abortion. The latest material and one which gives promise of most pronounced success to date is methylene blue. Particular a tention is drawn to the fact that purchasers should not confound this material with methyl blue and in purchasing the methylene blue should obtain only the highest grade of medicinal character and not the commercial product. Probably at no experiment station has there been such complete work with this treatment as at the Vermont Agricultural Experiment Station, Burlington, Vt. Dr. F. A. Rich, of this station, who has conducted this work, carried on extensive experi-ments in the bacteriological laboratory and extended this to an actual trial of this material with a herd of ninety-two infected cows. The r sults of his experiment for the first nine months were most striking. Only one an.mal of the ninety-two infected abor'ed during the nine months, and during the same period fifty-six of these calved normally while thirty-five appeared in natural condition five months or more after being served.

Based on the success of the above mentioged experiment, a somewhat similar line of work was started on the Experimental Farm, Ottawa, in the fall of 1913. Cwing to the lact that seven cows and heifers had aborted in midsummer of the same year, the test for abortion was applied to these and other individuals suspected, together with all individuals in the barns associated with such cases. As this test for abortion is a long and difficult one, it was considered advisable to treat the whole herd until complete results of the agglutination tests were discovered. Fifty-two cows of the five dairy breeds were at first treated. During the nine and a half months following the initiation of this test only one cow has calved prematurely, which in itself appears to warrant the use of methylene blue as a preventative of abortion. During the months April to July, inclusive, of the year 1914, only such cows as had previously aborted or responded to the agglutination test were fed methylene blue. Although it is too early to draw definite conclusions, yet it may be stated that four cows which abor ed in 1913 have not only carried their calves the normal period, but have ceased to re-act to the test, while three cows and one heifer which had no apparent reason been sterile, have become with calf and are now nearing their normal period of gestation.

fusability throughout the animal's system would appear to give it some distinct advantages over other disinfectants. If fed in large quantities (four ounces or more) it would often color the milk and even the meat of an an.mal, yet with-out injurious effects. In the regulation half-ounce dose the effect is to color the urine slightly green and the manure slightly blue. From this it might be readily surmised that the stomach, intestines and kidneys, together with the external passages, would be thorough'y disinfected, thus preventing the spreading of the abortion germ from one individual to another. Results seem to point also to the carrying of the disinfectant through the progeny in u pro and the surrounding membranes.

FOUNDED 1866

The size of dose has absolutely no ill effect upon the cow, the above recommented dose having been largely increased/with certain individuals and the only effect noticed being the stimulating of the appetite.

EXTERNAL TREATMENT.

Coupled with the above described feeding the following precautions must be ta en :-

(1) After aborting the afterbirth, the foetus and all infected bedding should be burned or deeply buried. The hind parts of the cow should be carefully sponged with a one per cent. lysol solution or ten per cent. carbolic solution.

(2) The stable should be throughly cleaned and disinfected, especially in the immediate vicinity of the calf pen or stall where abortion occurred. Probably the safest disinfectant is a solution of one to one thousand mercuric bichloride given in three applications two days apart. this intermittent disinfection is i possible, double the strength of the above mentioned solution.

(3) Immediately after aborting, give an injection into the cow's uterus of a methylene solution consisting of a heaping teaspoonful of methylene blue aad one ounce of salt to a gallon boiling water, the whole cooled to about 105 degrees F.

(4) The sheath of the bull used on any cows affected with abortion should after each service be washed out with a one per cent. lysol or the above mentioned methylene blue solution.

COST OF METHYLENE BLUE.

This material in the powdered form costs \$2.75 per pound at local druggists in Ontario. Attention is again called to the compressed (Bluett) form, which is more economical due to less waste in feeding.

BLACK HAW TO PREVENT ABORTION.

Although this treatment is by no means recom-

DECE

must h and sc. animal return when i will ca thrifty muscle, we un can we herdsm carbohy need to that a in corr He fee accomp substit value h have. result ledge o them. The attentio make a to sta is avai feeder 1 product straw days of good a preserve longer there is in the grass a better i Again t if imme will be amount for the body st on of fa fibers of and sto with go distribut muscles. necessar

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cattle cl pounds the way This we 10 lbs. 3 lbs. 08 tion the large at grain in suited to show the give a n be an of seaso winter fe In the of pound done for serving s hay woul and the roots an cotton-se cake mea The form and the reasons 7 lbs. ha roots, 3 cotton-se tions this tive ratio one-half it at the tive as th however, than two and in fe receive a meal men to the to objections breeding } influence f will impa ful but w feeding st be no dan that thes total am individual will often is such a steers that the proper ever, the meet the hundred-pe

which have previously served diseased cows.

The germs contracted by rubbing rumps 2. with infected cows, or contact with doorway, fence posts, or bedding previously rubbed by infected cows.

3. The transferring of discharge from infected individuals to healthy cows by means of hands or clothing of attendants.

4. The presence of dead foetus, afterbirth, or discharge on redding, manure, or any place where healthy animals may come in contact with it.

Unless freshly infected cows are introduced, the dispase tends to run out in a herd in the course of three or four years. It frequently happens that sterility (barrenness) follows this disease, a condition thought to be due to the acid state of the uterine contents caused by the germ.

Symptoms.-Cows may abort at any stage of pregnancy, but it usually occurs during the third or seventh month. As a rule, the symptoms are a swelling of the udder, a dirty, reddish, purulent discharge from the genitals, a decrease and change in the character of the milk, and the dead foetus which is generally expelled three days after the appearance of the discharge. Abortion early in the pregnancy is often undetocted until a short time before the date of expected calving, when the stockman is guite surprised to find the animal showing signs of heat.

The important thing is to distinguish the early symptoms so that the tendency may be arrested and the calf carried full time if possibly.

INTERNAL TREATMENT.

At the beginning of the test on the Central Experimental Farm the treatment outlined was the feeding once per day for the first seven days of each month. throughout the period of gestation, of methylene blue in the powdered form in one-half ounce doses mixed with ensilage. However, owing to the resul's of further experiments conducted by Dr. F. A. Rich, this treatment has been changed. The method of application now advocated is as follows :- Give each cow which has either aborted at her last calving or which gives any evidence or suspicion of being infected. one heaping teaspoonful or more of mothylene blue once per day for five continuous weeks. We have discovered that considerable waste is in olved when the powder is scattered over the roughage. In consequence it has been found advisable to put up this quantity in one-half ounce gelatine capsules. Another method which may he followed with equal economy would be the feeding of the compressed methylene blue as purchased from the Bluetts Company, Tenney Block, Madison. Wis.

How methylene blue does its work is readily understood when one considers that thirty minutes after feeding a large portion of the dose has been absorbed by the blood. Mpthyleng blug has been found many times stronger than carbolic acid or other disinfectants in the killing of the abortion germ. This coupled with its enormous dif-



A Nice Flock in a Fine Field.

N AYBRAS ORDIM ILUA

mended for the killing out of the abortion germ in the cow or calf, as in the case of methylene blue, yet it has been found possible to hold off an abortion for some days, or possibly w.e.s, by the feeding of an internal astringent. In cases where cows show symptoms of calving before their time they have been placed in a dark and quiet stall and given one ounce doses of Black Haw (Viburnum Prunifolium) repeated, if necessary. after three hours un il the pains subside. In cases where the normal preparation for calving is premature, thus indicating abortion, one ounce doses daily for a week have in many cases been effective in bringing back to normal the vulva and the pin bones. However, it is advis-able that care be taken with this treatment and that it only be used in cases of emergency.

E. S. ARCHIBALD Dominion Animal Husbandman.

Counsel for the Winter Feeder.

The cattle that have this fall gone into the stall or feed-lot for winter feeding vary in condi-Some are thin, while others are fit tion. Those that were subjected to poor pasalready. turage will require different treatment from those off good grazing land augmented, perhans, by a field of rape or second-growth clover or alfalfa. This article does not aspire to discuss the technique of feeding fattening cattle. The object is to analyse the feed question and draw some deductions as to costs and probable profits which might accrue from different methods in these times of high-priced feeding stuffs.

To consider this matter together it is nocessary to remember that protein such as is common in clover, alfalfa bran, oil-cake or cotton-seed meal contributes to the vigor of the body by replenishing the muscles, the supply of blood and strengthening the whole animal system. Carbohydrates and fats, for which we look to corn, wheat, roots and such, are energy and heat givers and the source of fat. Of the latter two food constituents. fat is much superior. In fact, it is practically two and one-quarter times as valuable as the carbohydrates which consist largely of starch and Then it must be further borne in mind that a relation exists between protein and the carbohydrates and fats and is known to students as the nutritive ratio. Steer feeders are not required to worry their minds so much about the relation of these foods as the dairymen and for the high.producing cow is a delicate machine that

must be fed in accordance with the rules of nature and science or loss will result. However, the fat animal, well on toward the finishing stage, wil not return profits on a superfluous amount of protsin when it is carbohydrates that he requires, neicher will carbohydrales alone start the feeder off in a thrifty manner when his system requires more bone, muscle, blood and a general upbuilding. Only as we understand the animal and its requirements can we feed with wisdom. The long-experienced herdsman may have no conception of what protein, carbohydrates and fats may mean and he has no need to know, because his trained eye tells him that a certain animal requires something contained in corn, in roots, in silage or in oil-cake meal. He feeds each as the results warrant and accomplishes his purpose but when he comes to substitute a cheaper food for one of high cash value he is at a loss to know what affect it will have, wherein its usefulness lies, and what the result will be. Herein lies the value of a knowledge of feeding stuffs and the terms applied to them.

The first matter to engage the herdsman's attention is to get the stock on their feed and make as easy as possible the change from pasture to stall conditions. Where clover or alfalfa hay is available each should have a good supply. feeder need be afraid of feeding generously of this product at first for the poorer grade of hay or straw will be better relished during the snappy days of January and February. Silage would be good at this season, but roots are not so easily preserved and should therefore be used first. The longer the roots last the better it will be, but there is sure to be a few days or a week or two in the spring when the cattle are bawling for the grass and the roots are gone. There is nothing better in such a time than a few feet of silage. Again the stock is probably laying on flesh, or if immediately after going into the stable, they will be at a stand-still. In either case a fair amount of the food ingredients should be protein for the muscular tissue must be built up and the body strengthened in preparation for the laying on of fat. The bones, the body cavity and the fibers of the muscles themselves receive the fat, and store it up and the choicest carcass 15 one with good muscling or, in other words, nice even distribution of fat throughout the fibers of the muscles. To make a firm, desirable carcass it is necessary then to have a development of flesh rather than fat as a foundation and for this some protein is required.

One investigator and authority on feeding cattle claims that one pound of protein to six pounds of carbonydrates and fats is not out of the way for a thin steer being brought to his feed. This would be supplied in 40 lbs. corn silage,

10 lbs. clover hay, 30 los. mangels, 4 lbs. bran,

3 lbs. oats and 1 lb. oil-cake. On close observa-

tion the reader will see that this amount is rather

large at the beginning for in it are 8 lbs. of

grain in addition to the roughage. It is better

suited to a dairy cow and is only given here to

show the combination of feeding stuffs that will

give a nutritive ratio of one to six. This would

THE FARMER'S ADVOCATE.

For more mature cattle, the amount of protein may be decreased. Kelln r suggests that for fullgrown and mature fattening cattle the nutritive ratio should not contain less protein than one part to ten or twelve parts of carbohydrates and fats. With this latitude, the feeder cannot easily go wrong but Jordan mentions a possible decrease in the digestibility of the whole ration where les than one part of protein is mixed with eight or ten parts of carbohydrates and fats. By dropping the two pounds of cotton-seed meal out of this ration under consideration and feeding in its place three more pounds of chop two of oats and one of barley) the ration will then contain one part of protein to nine parts of carbohydrates and fats which is in accordance with the teaching of investigators. If three pounds of corn be added instead of the extra three pounds of chop the effect would be to diminish slightly the percentage of protein but not enough to unfavorably alter the ration.

These few estimations go to show that the farmer usually has at hand and grown on the farm, feeding stuffs that will finish off the stock to good advantage. However, stoc men often prefer to feed a little oil-cake meal at the last to add a gloss or finish to the animal. This may be done to good advantage, but prices are in favor of cotton-seed meal this year as a supply of protein.

THE FARM.

Idle Days.

By Peter McArthur.

There is a red squirrel in the wood-lot for whom I have a very neighborly and chun my feeling. Every time I drive past he skips about on he trunks of the trees or flips his tail and 'Chirr-r-r-rs'' at me with what seems a great show of wrath. But it isn't wrath. He is just talking down to me-telling me that he is just as good as I am and perhaps a little better. The beechnuts are very plentiful and he has a granary somewhere in a dry hole in the top of a tree and a nest in which he can be as snug as a bug in a rug and he doesn't care whether school kee s or not. Stormy days will only mean holidays for him-days when he can lie in his cosy nest and feed high on beechnuts and dream of the summer days to come. No doubt he thinks that like other human beings I am worrying about work and crops and the high price of feed and that is why he chirrs at me in such a superior way. But that is where he is mistaken. This winter I am just as comfortable as he is and I can share in his feeling of contentment. Between man and beast, even if the winter should last until May. So when the red souirrel chirrs I feel like chirring right back at him. He may be guided by instinct and I may be acting according to foresight, but the result is the same and I

success of our efforts is much the same. Philosophers like Bergson are beginning to pay a lot of attention to instincts and the part they play in guiding our affairs and I suspect that they are on the right track. I think I may be able to learn much from my friend the red squirrel. By obeying his instincts he is a whole lot more comfortable than a lot of human beings who try to provide for themselves by using their intelligence. With their more developed brains they buy watered stocks and real estate at the ends of the earth, so that they may be prepared for the proverbial rainy day and when it comes they sit down and shiver and worry because their profits have failed to materialize. The red squirrel and I with our stock of food that will last until next seed time and harvest come around have no such troubles. We chirr at one another and enjoy life and don't care a hoot about the banks or Big Interests or the financial tangles over which eminent men are worrying at the present time.

Now that the apple campaign is over and I am a private citizen again I have time to look over some of the letters I did not have time to answer when the rush was on. Some of these are altogether too good to keep and I am going to cull a few bits for your enjoyment. Early in the campaign I sent out an article in which I told of a dream in which I was with a great company of men who were rolling apples down a hill to an army of children in the valley below. Our slogan was "Roll them to the kiddies." Strange to say, I got two letters that were almost identical in wording and entirely the same idea, replying to this slogan. Here is the one that came from Manitoba.

"Say, Peter, don't you roll an apple down that hill. You can't see all the way down, you know, and the kiddies wouldn't even get a core. Don't you know that the side of the hill is peopled all the way up with giants and ogres, and ugly dwarfs, and, Oh!, all sorts of things, and that each and every one would take a bite of each and every apple, and the last one would steal the Don't you know that these people all cores. work together, that each apple will be carefully passed from hand to hand till it is bitten, all away, and why? Because these are all our monied interests, legitimate businesses, commercial enterprises. and we must not interfere. There is the railroad. If you do away with the packer at your end of the line and place the apples literally f. o. b., the railroad is one of the interests. and once the apples are in their hands they will see that the other interests get their sharp. instance, if the apples are shipped to a dea will come right through at carload rates. If not they are held up at Winnipeg, and re-shipred at the granary and the stacks there is enough for local rates amounting to thirty-five cents per barrel extra. Another way they have of taking out a bite is by delay. Our local dealer received a carload of apples that were shipped to him on October 18th. A carload shipped to us on the to foresight, but the result is the same and I same date has not arrived yet and it is frozen up suspect that the emotions we feel on viewing the now. The dealer who started selling his apples

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an expensive ration and somewhat out of season.-Let us try and adapt it to earlywinter feeding. In the beginning we would change the number of pounds of roots and silage fed. This would be done for reasons already mentioned-that of praserving silage for spring feeding. Some of the hay would be replaced by straw, the bran by chop and the oil care meal by cotton-seed meal. With and the oil-ca e meal by cotton-seed meal. roots and silage the bran seems un-necessary; cotton-seed meal is cheaper at present than oilcake meal when we consider their composition. The former contains about 30 per cent. protein, and the latter about 37¹/₂ per cent. For these reasons a ration combined from 30 lbs. silage, 7 lbs. hay (clover), 6 lbs. oat straw, 40 lbs. roots, 3 lbs. oat and barley chop and 2 lbs. cotton-seed meal should be better suited to conditions this year. This ration would have a nutritive ratio of one part of protein to about six and one-half parts of carbohydrates and fats ma ing it at the same time cheaper and almost as effertive as the one previously set forth. It is claimed however, that an animal should not receive more than two pounds of cotton-seed meal at any time and in feeding this ration the animal should only receive a quarter of the amount of cotton-sed meal mentioned at the beginning, bringing him up to the total in a week's time or more. Greater objections are urged against this meal with the breeding herd than in the food stall for it cannot influence the animal for slaughter in any way that will impair the herd. Withal, one should be careful but when, fed in conjunction with the other feeding stuffs making up this ration there should be no danger. The reader should bear in mind that these are only arbitrary figures and the total amount fed must always depend upon the individual individual animal. When of the same size one will often consume more than another and there is such a variance in weight and size of feeding steers that it would be impossible to stipulate the proper quantity to mote out to them. How-ever, the ration now under consideration would meet the requirement of a twelve to thirteen-

hundred-pound steer.



With the British Army on the Continent. Giving cigars to "Tommies" as they pass through a ‡own. Note the type of horses

THE FARMER'S ADVOCATE.

at a fair price has now advanced them fifty cents a barrel on the chance of ours not coming at all. And the other interests-their name is legion. The banks with their 12 per cent. interest, the machine man, the mortgagor, the real estate dealer, the baliff,-with the doctor and the undertaker trailing along in their wake. All must have a bite before we can take any apples home to the kiddles. So, Peter, don't roll any apples down the hill. Leave them for the old sow.

There is, some food for thought in that letter that you can chew over while sitting by the fire eating apples.

Here is an indignant letter from Edmonton : "It seems perfectly absurd to have to pay such awful freight and express rates. Well, it is too much for words. We got a barrel of Georgian Bay No. 1 Spies for \$5.50 delivered to the cellar, and we are having more "Apple Delights" than George Foster ever dreamed of. I think he might use his energies in trying to arrange better rail-road rates for the people. But no doubt it is easier to sit in your office and dictate recipes for 'Apple Delights.'"

I wonder if they haven't heard out West yet that they should say Sir George Foster when speaking of the Minister of Trades and Com-merce? This letter also contains some food for thought, for it suggests a certain amount of Western indignation that may yet bear fruit politically.

On Karakul Sheep.

Editor "The Farmer's Advocate":

Several live-stock men and government experts have sent me copies of your issue of October 8th, 1914, which contained an article by Harlan D. Smith, who has variously ascribed his residence to Oregon and several other states, but neally is in the employ of the Kansas Agricultural College, and L. M. Crawford of Topeka, Kansas as advertizing agent for the latter.

There are several other points in the letter which I would like to elucidate. L. M. Crawford did not introduce Karakul sheep into America.-C. C. Young is the sole importer. He imported in 1908, in 1912, and again this year for the Dr. C. C. Young Karakul Sheep Company of P.E.I. **Crawford bought no** imported rams whatsoever. **He purchased descendants of the first importation** from Dr. Young in 1912. It will be noted later, that only one ram of the first importation consistently produced lambs of commercial value. The head of that ram is in this room where I write. He died on June 5th, 1914, and was never owned by Mr. Crawford.

Those matters of history Smith is right. He quotes letters in proof, the originals of which are in Dr. Young's files.

The cross of Karakul sheep with Lincolns gave the cheapest skin in the offspring of any of the breeds tested. Short or fine wool sheep like Shropshires give a skin almost worthless. this was well proved in Texas we did not breed any fine wools. All pure-bred Karakuls do not give highly priced lambs. The quality which seems to be a necessity is the absence of fine wool in the fleeces of the parent. When two such coarse-wool parents are mated the result is a magnificent lamb whose skin is worth \$12.00 wholesale. We had several such from crosses of some of the rams of the second importation and coarse-wooled ewes of common breeds.

The importation of 1908, from which all of Mr. Crawford's stock was descended was a failure as a commercial venture. Only one ram-Teddygave reliable results, and Mr. Crawford never owned the original Teddy. It was only when Teddy happened to mate with a coarse-wooled ewe that high-priced fur was produced. It was this fact that led to the discovery of the requirements in the parents for costly fur production-namely coarse wool with freedom from fine wool. Dr. Young divided his flock in 1911 on the basis of wool quality, and sold half the flock to Mr. Crawford, and it is significant that Mr. Crawford and he have not since been associated in business. Neither has Mr. Crawford been able to import nor benefit from the importations. Crawford has been selling animals broadcast; Dr. C. C. Young Karakul Sheep Company have consistently refused to sell, and will sell only tested and guaranteed stock.

We believe, that practically speaking, it will require two crosses with Lincoln ewes to breed out the fine wool sufficiently to insure an average of \$10.00 a skin from the best rams. If this be so, companies purchasing half Karakul-Lincoln bucks from Mr. Crawford will not make their



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Still Assisting Tile Drainage.

Shortly after the outbreak of the European war a report gained some circulation that the Ontario Government would discontinue loans to farmers under the Tile Drainage Act, until after the close of the war. I am commissioned by the Minister of Agriculture, the Hon. Mr. Duff, to say that such is not the case and that loans under the Tile Drainage Act are being made as usual. As a wrong impression has been created by these erroneous reports it is thought best to explain the situation clearly. On Nov. 4th, the Hon. Mr. Duff wrote me as follows :--

" In reference to your enquiry of a few days ago in regard to loans on drainage, I beg to advise you that the Government will continue to grant loans on tile drainage applications. The rate of interest will be 5 per cent. as fixed by the legislation of last Session. This, as you will readily agree is necessary owing to the fact that the Government has to pay that rate for its loans at the present time. Some Councils evidently by mistake passed their By-laws at the old rate of 4 per cent., and these had to be altered before the loans were paid out. This was probably the foundation of the report that the Government had discontinued payments on tile drainage. I am pleased to be able to state that this is not the case. The Government, however, is not purchasing municipal drainage debentures at the present time

It is also probable that some confusion arose from this last mentioned fact. On Sept. 30th, 1 wrote the Provincial Treasurer's Department asking "whether the war is likely to interfere with loans under the Tile Drainage Act." The answer "The Executive Council does not approve of the purchase of drainage debenturs at the present time." I naturally thought this included the tile drainage loans about which I had written, and, consequently, informed some enquirers that tile drainage loans were discontinued. I can readily understand how the same confusion may have occurred with some township councils.

Whatever the origin it is gratifying to know that the reports were erroneous and that tile drainage loans are being made as usual.

WM. H. DAY, Professor of Physics, Ont. Agr. College, Guelph, Ont.

THE DAIRY.

Changing a Cheesery to a Creamery. Editor "The Farmer's Advocate":

There is considerable uneasiness in some cheese Where the condenser had into the cheesery patronage and almost wiped the cheese manufacturer out of existence, the condenser has closed down in at least one place and the cheese man is almost flooded with milk. There is no good reason for the "panicky feeling " among manufacturers of condensed milk except the nervousness due to "war scares." In the meantime the cheese trade is having the greatest "boom" it has had in many years. One of the Eastern Ontario Cheese Boards reports an average price for the season of 1914, one-and-ahalf cents above the average price for 1913 and about 1,000 boxes more cheese boarded for the present year as compared with last year. However, we may expect a reaction after the war is over and cheese factory patrons should prepare for it. In the meantime we may as well take full advantage of the "boom" while it is on. There is no use following the example of the old lady who said, "It always made her feel bad when she felt good, because she knew she would he worse after she was better." One cause for the exceptionally high price paid for cheese and the relatively low price of butter is given in the letter of a member of the First Canadian Overseas Contingent now located on Salisbury Plains, England, who says : "We get plenty of good bread and cheese, but no butter. In consequence of this unusual condition of affairs regarding the relative demand for cheese and butter and its effect on the price, patrons and managers of cheeseries, would do well to consider carefully the advisability of changing from cheese to butter manufacture at the present time. Not long ago we had a letter from the President of a Farmer's Co-Operative Cheese Company, saying they had a nice little cheese factory, were doing a nice business, but a number of the patrons wished to change from cheese to butter manufacture. He wished to know what the writer what thought of the advisability of changing, the change would cost, and any other points likely to be interesting to farmers who contemplated making such a change in their methods of dairying.

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are of little compara tive importance, if what Mr. Smith states in the second paragraph is true. He says that Mr. Crawford's lamb-skins were priced by New York furriers at from "\$3.00 to \$10.00 each." That would imply an average price of six or seven dollars per skin, and would be more profitable on a pelt basis than rearing lambs of commoner breeds We challenge Mr. Smith to publish the New York furrier's signed statement. We ourselves, have published New York furrier's statements which set the prices at from \$5.00 to \$12.00 each, but first took the precaution to have the United States Government's mark on the skins. Some of Mr. Smith's statements may permissably be doubted, when his article is illustrated with a cut of a lamb from our flock held by Joseph Simonson. Can it be that Mr. Smith is unable to show the photograph of a wavy, curled lamb from Mr. Crawford's flock?

It might be well to find out also from Professor Nabours, whether what I have stated above is true. Dr. Nabours is known to me personally as an honorable gentleman. He was in Europe and Asia last summer. Let him speak regarding what he saw, and what Dr. Young's position in the Karakul sheep industry is, in both America and Russia, even though Mr. Crawford and he are co-operating in this industry.

I bred the pick of the rams of the first and second importations last year to full-blood Karakul ewes, and to common breeds including Lincoln sheep from the same flock of which Mr. Smith speaks. I have spent much time studying the fur business, and particularly perfecting myself in judging the wholesale prices of Persian Lamb fur in such houses as that of Theodor Thorer of New York. I think that the average wholesale value of the skins of the Lincoln-karakul lambs was about \$7.00 each when sired by our rams. That would not justify the prices mentioned by Smith for half-bred karakul rams, namely \$300.00 as they would assuredly throw lambs worth only three or four dollars each, even though the lambs might be black. All Persian Lamb fur is dyed in any case. I have concluded, that half-karakul ram lambs as a whole are useless as commercial producers of Persian Lamb fur, and have slaughtered all whose skins were judged worth less than \$9.00. These will be tested before our company offers them for sale.

As for the hardiness and mutton qualities. Mr

Good Holsteins and Tall Elms Beautify Any Landscape.

flocks very profitable unless they can later obtain better rams to grade up the flock. We doubt the ability of the ordinary American to achieve the importation of Karakul sheep from Asia, so that the rams must be purchased in America,-but from whom?

In order to secure an ample supply of the best blood procurable on earth, our company at Charlottetown sent Dr. Young to Asia for the best herd that could be secured at any expense. The herd secured cost upwards of \$51,000.00. Through a series of fortunate circumstances, access was obtained to the remotest places where the Karakul sheep is reared, and one sheep was chosen from each district. They were brought out to civilization in July, and came to America on the last trip made by any Russian steamer out of the Baltic before the war. They are now in America, and soon from the crosses of these on sheep already in our possession, a pedigreed herd will orginate, that will not depend on quack advertising for their sales, but from estimates of their fur values by reliable furriers.

The Karakul sheep in America can number two millions, before the American market will be supplied. That fact assures the sale of pedigreed stock for years to come at high prices. But the public should remember, that a sire should be able to do more than project a black color into the lamb skins,-he must be able to produce a tight, close, wavy curl covering the body even on the belly, legs, and face. Harlan D. Smith should not be allowed to injure a first-class live-stock industry in his advertising zeal. P.E.I.

J. WALTER JONES

Remember the faithful rural mail carrier with kindly Christmas greeting and word of thanks you cannot reach his stocking. Few public officials render the country folk a more ardous rvice of one more deserving of appreciation.

Our advice was not to make the change just at the present time, unless the farmers intended going into live-stock raising quite strongly, in which case skim-milk is almost a necessity, pecially for calves and pigs. While it is undoubtedly true that the development of our live stock interests is very important, it is questionable whether or not farmers act wisely in making a

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THE FARMER'S ADVOCATE.

change too suddenly in their methods of farming. about \$100 each. We are not "knocking" cream It takes capital to change a cheesery into a creamery and it takes capital to raise live stock. Capital is the chief thing which our farmers lack in the development of their business.

Take the case in question. To purchase the necessary extra machinery and make necessary alterations in the factory building to change from cheese to butter manufacture means a capital expenditure of not less than \$1,000, assuming that its equivalent in notes, of about \$10,000. This the steam boiler of the cheesery is in good condition and that present vats, pails, etc., can be used after making the change. In all probability there is no engine in the cheese factory, or one which is not powerful enough to drive a churn. This means purchasing a steam engine of 8 or 10 horse power.

To hire \$1,000 capital involves at least \$60 per year for interest-possibly \$70 or \$80. There will also be considerable additional expense for salt butter-wrappers or packages, shipping box s, etc., and considerable loss resulting from inexperience in the manufacture of butter, which is a ence in the manufacture of butter, which is a each year. Farm machinery "rusts out" more quite distinct line of goods as compared with often than it "wears out." making cheese.

The further point of purchase of creaming apparatus by the farmers has to be taken into It is no longer considered advisable to account. set milk in pans or cans for the cream to rise. Patrons of creameries are expected to purchase a modern cream separator at an average cost of

separators; because we consider the application of centrifugal and centripetal forces by means of a separator to the creaming, or what farmers call the "skimming" of milk, as one of the greatest inventions of the age on dairy farms, yet we cannot close our eyes to the fact, that in order to equip 100 patrons of a cheesery, with modern cream separators, means a capital expenditure, or is quite a large sum to be spent on one machine for the farms in one neighborhood, yet it is probably less than is spent for binders which are used on an average 100 acre farm in Ontario for not more than about ten days-the remainder of the year the binder is idle, taking up valuable space, and being quietly, yet nevertheless surely, eaten with rust and rot. The cream separator, on the other hand, is a machine which is used not only every day, but twice every day in the year, on well-conducted dairy farms, so that it is not like a machine which lies idle for about 355 days of

On the whole, then, it would seem that the present is not a good time to change from cheesery to creamery, but for the present to stick to the old reliable cheese manufactures. If the price of cheese sags back to its "before the war" level, then will be time enough to make a change. O.A.C. H. H. DEAN.

Lbs. Per Per Days Total

How the Dairy Cattle are Judged.

The talk of dual-purpose cattle has no effect on the dairy breeds. They are specializers des-tined for one purpose, and that is to produce milk and its products. With this aim in view the dairymen put their animals on test to demonstrate what they will de, and the public are per-mitted to watch their performance at the Winter Breeders are beginning to realize that they Fair. must not sacrifice type, conformation and all that goes with breed and dairy cattle generally for production. The heaviest producers this year were big, strong cows fit to go into any showring and meet competition, but, as in past years, the most typey cow did not win in every case, and we hope the aim of dairymen will be to have the show cow also a winner at the pail. This is a goal worth striving for and it should be always kept in sight.

The records this season were beyond what were attained last year, as the tabulated results will The winner over all, Rosie Posch, is show. large, beautiful cow, and has to her credit a total of 297.48 points. This is an increase of 9.88 points over the winning record of 1913, and 44.9 over that of 1912. The test is conducted in three days, and the scale of points adhered to when making the awards is 25 points for each pound of butter-fat, 8 points for each pound of solids not fat (S. N. F.), and one point for each ten days the cow has been in milk, after the first thirty, with a limit of 10 points.

The Dairy Test at Guelph Winter Fair. RESUME OF THE TEST.

AYRSHIRES.	milk.	cent.	cent.	in	po'ints:
		fat.	s.n.f.	milk	
Aged cow-1, Scottie's Victoria, John McKee, Norwich	171.8	4.5	9.12	22	240.30
Aged cow-2, Dew Drop of Menie, W. Stewart & Sons, Campbell-					
ford	155.9	4.0	9.1	36	199.06
Aged cow-3, Violet of Craigielea, H. C. Hamill, Box Grove	130.4	3.35	9.08	. 51	146.85
Three-year-old-1, Craigielea Peach, H. C. Hamill	158.9	3.8	9.27	4	196.16
Three-year-old-2, Airmount Boneva, John McKee	120.2	3.75	9.06	64	148.78
Three-year-old-3, Scottish Victoria, John McKee	129.2	8.5	9.07	28	148.22
Three-year-old-4, Craigielea Fluffyruffles, H. C. Hamill	92.7	4.0	9.32	59	121.53
Heifer-1, Hillhouse Blossom, F. H. Harris, Mount Elgin	108.7	4.2	9.32	72	148.74
Heifer-2, White, Lady of Craigielea, H. C. Hamill	118.5	3.8	9.22	25	145.37
Heifer-3, Douglas Scottie's Sarah, John McKee	112.0	3.8	9.2	45	138.81
Heifer-4, Sarah Douglas, John McKee	107.0	3.85	9.26	55	185.23
Heifer-5, Craigielea Gem, H. C. Hamill	97.9	4.2	9.6	48	182.7
Heifer—6, Duchess of Hillcrest, F. H. Harris	100.2	3.9	9.7	59	129.91
Heifer-7, Queen Jessie of Brookside, John McKee	99.4	3.7	9.17		121.51
Heifer—8, Douglas Star's Sarah, John McKee		8.95	9.53	44	111.96
Heifer—9, Craigielea Snowflake, H. C. Hamill	82.2		9.3		103.23
nener-s, Craigielea Shownake, H. C. Hammin	0.44, 44	0.0	0,0	0.0	1.00,20
SHORTHORNS.	a 1				
SHURIHURD.	r -				
	140 77	2.0	0.15	91	170 84

The Cheese and Creamery Meeting at Guelph.

Editor "The Farmer's Advocate":

The annual cheese and creamery meeting, held under the direction of the Dairymen's Association of Western Ontario, took place on Wednesday afternoon of Winter Fair Week at the Dairy Building, O. A. College. There was a large and enthusiastic attendance, the class-room being nearly filled for the whole afternoon. J. B. Muir, President, W. D. Association occupied 'the chair, while Frank Herns, Secretary, assisted in making the meeting lively and helpful, Messrs. Barr and Singleton, of the Dominion Dairy Commissioner's staff were present, as well as representative cheese and butter manufacturers from nearly all parts of Western Ontario. The Toronto and Hamilton creameries were represented by Messrs. MacFeeters, Duncan, McLean, Reesor, Forster and Westphall. We mention these to show the growing interest of large cities in the manufacture of fine butter. The Eastern creamerymen had a representative in Mac Robertson, of the Belleville creamery, who was formerly a Western 'Ontario Creamery Instructor. Nearly all the present staff of Western Ontario Dairy Instructorz were present, and did much by helpful suggestions to make the meeting educational. It was largely an "experience" meeting. The results of the experimental work done during the past season in the Dairy Department of the College were presented by Miss Millar and Messrs. Brown and Bird. The manufacture of cottage and buttermilk cheese was recommended for those who could secure a good market ; and for those who could not, the manufacture of poultry food from these dairy by-products was The solids of buttermilk can be sold for advised. 15 to 20 cents per 100 lbs. as chicken feed. To prevent mould on composite cream samples it is advisable not to shake when adding fresh lots of cream, nor to allow the cream to touch the side of the bottle when adding samples. Considerable discussion took place as to where the reading on the Babcock test bottle should be made-at top, middle, or bottom of the meniscus or curve in the fat column. A show of hands indicated that the majority of those present practiced reading at the bottom of the meniscus. Further work was considered necessary with what are called "red readers" before their general use can be recommended for reading cream, Babcock sample tests. Milk "overripe," or with too much acid, at the time of delivery at the cheese. factory caused a loss of 6.24 lbs. cheese per 1,000 Ibs. milk, according to tests made at O. A. C. during the past season. These tests emphasize the need for cooling the milk properly on the farm for good results in cheese making. The need of cooling cream for buttermaking, especially where the cream is pasteurized, was shown by the results got at the Guelph creamery, where they found that the loss of fat in the buttermilk from pasteurized cream increased with the acidity of the cream at the time of heating. Others reported that this loss could be overcome to a certain extent by cooling the cream and churning at a low temperature which delays the churning so as to take 50 to 60 minutes to churn.

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Aged cow-1, Gipsy, A. S. Stevenson, Atwood	148.7		9.15		179.64
Aged cow-2, Kentucky Rose, Wm. James Beaty, Guelph	108.5	3.4	9.1		130.94
Three-year-old-1, Butterfly Bloom, Wm. James Beaty	97.2	4.7	9.4		150.93
Heifer-1, Braeman Beauty, Wm. James Beaty	69.1	4.7	9.98	121	111.85
i, brachian Beauty, will balled Beauty	1	E			
HOLSTEINS.	$1_{1} \in I_{-1}$				
HOLD I BILLD.	253.	3.6	9.1	11	297.48
Aged cow-1, Rosie Posch, W. H. Cherry, Hagersville	200.	0.0	0.1	* *	201.20
Aged cow-2, Centre View Butter Gem, James G. Currie, Inger-	000.0	3.45	8.71	TR.	258.26
soll	229.8				244.43
Aged cow-3. Madam B 3rds Alma 2nd, W.F. Walker, Port Perry.	200.6		8.9	33	
Aged cow-4. Netherland Schuiling, W. J. Biggar & Son, Jarvis.	222.	8.05	8.8		228.33
Aged cow-5, Ladoga Idaline Veeman, A. E. Hulet, Norwich	179.9		9.6		222.7
Aged cow-6, Silver Calamity, Henry Welsh, Weston	214.6	8.05	8.5	48	220.2
Aged cow-7, Maysies Helen De Kol, J. K. Moore & Son, Peter-		,			
boro	196.6	3.2	8.3	13	209.2
boro	222.3	2.6	8.7	11	202 5
Aged cow-8, Flossie De Kol Clothilda, W. S. Shearer Listowell.	167.1	8.0	9.4	59	175.72
Aged cow-9, Madam B 3rds Prince De Kol, W. F. Walker	164.1	2.9	8.27	226	169.71
Aged cow-10, Queen Wilhelmina, W. H. Cherry	212.7	4.0	8.9	24	269.64
Three-year-old-1 Midnight Comet De Kol, J. G. Currie		3.6	9.06	11	263.99
Three-year-old-2 Highland Ladoga Mercena, J. G. Currie	222.9		8.9	30	205.67
Three-year-old-3 Madam Pauline Canary, A. E. Hulet	190.9	3.6			
Three-year-old_4 Jon the Jowel Francy, Rettie Bros, Norwich	169.9		8.7		187.97
Three-year-old-5, Maysies Francy De Kol, J. K. Moore & Son.	103.4		8.6		112.7
Heifer—1, Pontiac Atlas Francy, Rettie Bros	165.4		9.1	31	218.92
Heifer-2, Mutual Pauline, R. M. Holtby, Port Perry	153.8	3.05	9.2	45	161.28
Hener-2, Mutual Paunne, R. M. Hortby, Fort Forty					
JERSEYS.					
Aged cow-1, Brampton Bright Draconia, B. H. Bull & Son, Bramp-	149.3	47	9.45	46	219.35
4	148.8		9.47	42	218.34
Aged cow 9 Gadia Mag of P R F H. H. H. Gee, Hugers	98.3		9.5		174.43
Ared down 9 Class The Tra Nichols WUUUSturber				116	168.47
land agent A Destanding H H Bill & DUILL HILL	99.4	5.3	9.4	110	100,11
hree ween ald 1 Grainghead's Butter Utill, D. A. Dours		1.0	0 70	0	100.9
Ctools		4.9	9.72		198.2
Three-year-old-2, Brampton Bright Kathleen, B. H. Bull & Son		4.6	9.9		174.97
Three-year-old-2, Brampton Bright Batty B H Bull & Son	85.9	5.5	9.7		153.12
Three-year-old-2, Brampton Bright Betty, B. H. Bull & Son	92.5	4.7	9.5		145.18
Three-year-old—3, Brampton Her Ladyship, B. H. Bull & Son	90.4	5.4	9.7	42	149.55
Holfon 1 Calder Tada Don Juan Ira Niciols	93.4	4.7	9.4	54	138.7
Holfon O D d Gi alamall Dod B H Dull & Doman Harris	96.2	4.3	9.4	80	135.69
Delaison 9 Delaison Delaison Correlin B H. Dull & Southern H.	93.1		9.3	16	130.93
	83.6		9.4	50	123.93
Heifer-5, Golden Maid of Don, H. H. Gee	00.0				
o) crorada activation second					
GRADE.	0.05.0	0.0	8.9	31	277.05
Tillconhurg	227.3	3.8			158.17
Aged cow-1, Beauty, G. B. Ryan, Threehoudgan and Aged cow-2, Renis, Wm. J. Beaty, Guelph	111.3	4.5	9.0	59	
Aged cow-2, Renis, Wm. J. Beaty, Guephinson	149.7	2.9	9.07		152.5
Aged cow-2, Renis, Wm. J. Beaty, Guerphin, Aged cow-3, Mona, J. K. Moore & Son	196.4	3.1	9.02	20	205.38
Three-year-old-1, Valentine, Wm. Shearer	175.2	3.0	8.6	32	176.8
Three-year-old-1, Valentine, Wm. Shearer	66.5	6.7	9.7		140.8
Three-year-old-2, May, J. K. Moore & Sontantin Three-year-old-3, Peg, Ira Nichols	67.3	4.4	9.8	89	100.68
Three-year-old—3, Peg, Ira Nichols	123.3	3.4	8.9	30	137.72
Heifer-1, Star, G. B. Ryan, Tillsonburg	86.0	4.8	9.22	120	136.00
Heifer-2, Judy, Wm. J. Beaty		3.05	9.06	76	116.82
Heifer-2, Judy, Wm. J. Beaty	20000				
and o, rony, J. R. moore a					

Grading cream was recommended by Mr. Robertson. The Toronto creamerymen reported that

they made a difference of 1 to 5 cents per pound fat more for good cream as compared with poorer grades. They found that this difference in price usually caused the patron to improve the quality of his cream or to sent the cream elsewhere. The standard percentage of fat required in first grade cream was placed at about 30. Some of the creamerymen thought the grades should be churned separately else there was little advantage in grading. Others pointed out that the more dirst-grade cream that could be got for each churning the higher would be the average quality of the whole lot, even though some poor cream lots might be included which tended to de-grade the quality of the butter.

In answer to the question, "How long can cream be kept on the farm in good conditions ?" one man said, 'a week if properly cooled and cared for." Another said he knew of a can of cream being kept 13 days then shipped to a creamery, which he considered altogether too long a time.

The question of writing patrons was discussed. The Chief Instructor said that there seemed to be a dislike among the creamerymen to have the Instructors go to the farms. One man said he expected to have 1,000 to 1,200 patrons next year, and extended an invitation to the Creamery Instructor to visit each one. It was pointed out that it would be impossible to visit all in one season, but if the creamerymen would make a list of those sending in poor cream, the Instructor would aim to call on such when making his creamery visit.

Lack of uniformity in salting butter and too

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much salt were complained of by buyers. Mr. G. A. Putnam closed the meeting with words of encouragement. H. H. D.



The Late John Campbell.

FOUNDED 1860

FARM BULLETIN.

Demise of John Campbell.

The death of John Campbell, at his home, Fairview Farm, Woodville, Ontario, on December 8th, 1914, in his 65th year, removes a familiar and worthy figure from the ranks of Canadian breeders and exhibitors of pure-bred sheep. By his wisely-chosen importations and skill as a breeder and feeder he made the Fairview Shropshire widely and favorably known throughout the continent and his services were frequently called into requistion as a judge at the larger exhibitions. His counsels were sought in the conduct of various organizations designed to advance the interests of pure-baed live stock and at times he rendered effective services on Farmers' Institute and other platforms. He was also a devotee of the pure-bred Shorthorn of which he reared not a few of exceptional merit. His farm home was a model of comfort and appearance, and his outbuildings and lands were in keeping with the progressive ideas which he wisely and rigidly, put into practice.

The next best thing to seeing the Winter Fair at Guelph, and the Toronto Junction Fat Stock Show is reading the reports of these great shows and lectures in "The Farmer's Advocate."

Live Stock and Seed Situation Discussed at Guelph.

connection with the Ontario Provincial In Winter Fair a series of lectures is put on each year which no one in attendance can afford to miss, in fact, the management, recognizing the fact that these lectures are one of the most valuable branches of Ontario's great winter show have, during the past few years, so arranged their program that the judging in the ring and the lectures in the assembly room do not interfere, the one with the other. By this arrangement those in attendance are permitted to hear the lectures and gain the valuable knowledge disseminated there and at the same time miss nothing in the judging It is now generally conceded that the two ring. most educative features of the great fair are the actual placing of the animals in the ring and the discussion of farming and live-stock topics in the assembly room. It may be truthfully said that never before in the history of the exhibition was there a better program of lectures than was the and those in attendance appreciated this fact and crowded the lecture room at nearly every session. Interest, of course, was always most manifest when live-stock subjects were being discussed by live-stock men who know whereof they speak, but while these lectures brought out the largest crowd, it was generally conceded that those on seed growing and general farming, particularly those meetings in connection with the Canadian Seed Growers' Association, were never better attended than was the case last week.

might further be improved by breeding out some of the roughness of hind quarters that is some-The sloping rump and pendulous times seen. udder, which sometimes go together, especially in age, are objectionable. The demand is for clean milk and dairymen know what kind of an udder is most easily kept clean. These remarks were not spoken in a tone that would depreciate the breed in the least. They were simply thrown out that Holstein breeders might improve an already popular and useful animal.

W. W. Ballantyne, Stratford, discussed Ayrshires and called attention to the biblical roferences to the spotted cattle, claiming for them great antiquity, but Canadian breeders have so long depended on our National Records that any other work is given a subsidiary place, especially concerning live stock. In one sense the dairy breeds are all the same but Ayrshires have been bred to carry a proper udder of the total points of the score card are allotted to the milk vessels. Every indication of rugredness must be present in this breed and the speaker favored a large cow with capacity and constitu-

this they must have the milk vessels that make it possible to perform and breeders must select wisely to blend the two proclivities to produce milk and beef.

GROWING FIELD ROOT SEEDS.

The seed meeting presided over by J. B. Reyn olds, of the Ontario Agricultural College, was well attended and those present were well repaid for coming. As was the case at the Ontario Vegetable Growers' Association meeting in Toronto, the most prominent topic for discussion was the growing of field root and vegetable seed in Ontario. Prof. C. A. Zavitz, of the Ontario Agricultural College, discussed the growing of field root seed and first of all brought the importance of this particular phase of Ontario's agriculture before the meeting by the use of the following table.

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DAIRY GATTLE.

On Monday, Dec. 7th, dairy cattle was the subject and a number of excellent addresses were given. Winners of each breed in the Dairy Test were led before the audience and advocates of each breed explained the character and conformation that is desired or is being striven for. B. A. Bull, of Brampton, using one of his own cows as a subject for discussion, explained how the Jerseys have been kept pure for over three hundred years and during that time breeders have not lost sight of type and character in their race after records. Consequently the Jersey is a show-ring animal as well as an economic producer. America exc ls the Island of Jersey in long-time records but in the home of the Jersey, particular emphasis is laid on economic production and in that direction America has been surpassed. The dairy type is the type sought after in all dairy breeds and it is only in minor points that any difference exists. Jersey breeders want constitution and in Mr. Bull's opinion this is had more by depth of chest than by thickness. Of course they should not fall in back of the shoulder bet it is in depth from top to bottom that capacity is found. each change of the score card more importance is In placed on the udder and the points have doubled for that part of the animal in the last few years. Quality of udder and its attachments are of paramount importance and are receiving more attention than formerly.

R. S. Stevenson, of Ancaster, claimed greater antiquity for the Holstein breed than for any other dairy cattle yet with all their years Mr. Stevenson declared that Holstein men should get together and decide on a type and conformation instead of going after such phenominal records. Prof. G. E. Day, of Guelph, did not champion



Willowbank Correct Currency 20822. A sample of the herd-headers to be sold at "Willowbanks" on Dec. 30th, property of C. V. Robbins. (See advertisement this issue.)

the milking Shorthorn in every sense of the word, but said there were a great number of farmers in Ontario that wanted a dual-purpose cow and they have a right to breed them if they wish. The position of the specialized dairyman was upheld and the speater did not advise anyone to change their breed if they were doing well. The milking Shorthorn in most cases traces back to the Bates blood and is not so extréme as the Scotch type of Shorthorns yet they will mother a good export steer and give a good account of thenselves at the pail. That is the animal many farmers want and the type of cow used in the instead of going after such phenomenal records, becaue room proved that it could be attained. The speaker said the general run of Holst ins It is a matter of degree in Shorthorn type with would do with less daylight under them and they good bloed behind them noted for milk. With

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Sugar Deels 19 594 10 000 400	Crops.	Acres in Ontario in 1914.	Average Pounds of Seed Sown per acre.	Number of Pounds of Seed Raquited	
Turnips	Sugar Beets	$18,534 \\ 95,871$	6 12 3	803,978 222,408 286,113 8,568	

From this table it is seen that nearly a million pounds of field root seed is required in Ontaric annually. During the past few years mangel seed has come largely from France, with smaller quantities from England and Germany. Ontario has got her sugar beet seed from Germany and United States and a great deal of turnip seed has been imported from England, the amount of home grown seed being particularly small.

Experiments have been carried on at the O.A.C. with mangels, turnips and carrots for seed production, paying particular attention to storing of the mother roots, planting, yield of seed, improvement of variety through selection, the germination of home-grown seed, and the yield per ache from home-grown seed as compared with imported seed.

After seven years of work in storing the seed it has been found that there was the least amount of decay from mangels stored loosely in the cellar and from carrots and Swede turnips stored in sand. Mangels and carrots gave the greatest percentage of sprout in the spring when stored in the pits, and turnips when stored in sand. Roots in all cases were of muedium size. In some countries where the climate is suitable roots for the growing of seeds are planted in the fall. For autumn planting at Guelph the land is slightly trenched with the plow early in the fall and roots are planted three feet apart in the rows, rows being placed about five feet apart. These are covered with loose straw and two furrows are turned with the plow on each side of each row. About the middle of December, after the ground has become slightly frozen, strawy manure to the depth of three or four inches is placed over the ridges. In the spring when danger of severe frost is over the manure is raked from the roots, this

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DECEMBER 17, 1914

is usually done early in May. From experience at Guelph a larger yield of seed has been produced in this way than where the roots were planted in the spring.

For commercial purposes the plants growing seed are usually cut when about two-thirds of the seed has turned brown. These are placed in small stooks and threshed when dry. The seed may be threshed with an ordinary grain thresher but in a small way it is easier to strip it from the plant early in December and later in the month secure the seed that matures at a later date. It is important to secure the seed before it is damaged by frost as this may injure germ-As a result of six years' work at the ination. College an average of 6.6 ounces per plant for mangel seed was obtained from a number of the best plants each year. An average yield of carrot seed per plant is a little less than two ounces and from Swede turnips only about four-fifths of an ounce per plant.

In order to get at the germination of Canadian-grown mangel seed thirteen separate tests were made in six years, and Ontario mangel seed gave a particularly high percentage of germination in 1909, 1911 and 1913 and a comparatively low percentage in 1912, and 1914. This is in comparison with imported sped. In the average of six years the Yellow Levianthan seed produced at the College gave a higher percentage than seed of the same variety from any other Ontario-grown mangel seed has made a source. comparatively high record in germination, and has by actual test surpassed the imported seed in yield of roots per acre in average tests in five years in which the number of plants used was comparatively equal.

C. C. Rebsch, of Port Rowan, continued the discussion on this subject.

GROWING OF VEGETABLE SEED.

The growing of vegetable seed was the subject discussed oy S. Johnson, of the Department of agriculture, Toronto. His topic was very thoroughly threshed out at the Ontario Vegetable Growers' Association Convention early in November, a report of which has already appeared in these columns. Mr. Johnson made the statement that not five per cent. of next season's crop or any other crop of vegetables grown by market gardeners or vegetable growers of this province will be grown from seed produced by themselves, first, because gardeners and vegetable growers have not the time to spend in carrying on the necessary operations of seed growing. The cost of labor is high and came must be taken in selecting, staking, cutting, drying and threshing. He did not think that a vegetable grower could afford to Dav to look growing end of his business. Threshing and cleaning machinery are all expensive and when some vegetable growers cannot find capital to adopt improved methods of growing they certainly cannot be expected to purchase these implements. Besides this, the average vegetable grower works on a small farm of about ten acres and has not the room to give sufficient distance between varieties to prevent cross fertilization. Therefore, we must depend on some one who will grow vegetable seeds on a large scale and make a business of producing them as a specialty leaving the production of vegetables to those already engaged therein. The following list of varieties is recommended by Mr. Johnson as standard among the vegetable growers around Toronto. Beet-Early Flat Egyptian, late Detroit Dark Red Eclipse. Cabbage-Early Round Copenhagen Market Early pointed Wakefield, late Short Stem, Ball Head, Carrots-Chantenay. Celery-Early Paris Golden, White Plume Winter, Winter Queen. Corn-Golden Bantam, White Corn. Lettuce-Grand Rapids, Big Boston. Melons-Rockyford Type, Paul Rose, Petosky. Onions-Southport Globe, Yellow Danvers Globe, Yellow Red Wethersfield Red. Peas-Early Gradus, American Wonder late Stratagem. Tomatoes-Red Earliana, Chalks Jewel, Red Rock; for factory use, Stone Ignotum. A. McMeans of Wheatley, continued the discussion on the growing of vegetable seed.

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outlined before the meeting the work of the seed centre, and advocated threshing from the field or the use of small threshers operated by six or eight horse power gasoline engines or electric power, as the case may be, in order to overcome the all too prevalent means of distributing foul weed seeds by being carried from farm to farm by the large threshing outfits commonly used in Ontario. He made the statement that from selected seed on their own farm they have been able to get from ten to twelve bushels per acre, and forty cents per bushel more in price for wheat than was the case with fairly good seed but not specially selected.

Great interest was taken in the address of Ross Martindale, of York, Ont., Secretary of the Grand River Alfalfa Seed Centre, which was organized at the former place on July 1st, 1913. Haldimand County with its heavy clay loam soil, and rolling topography is especially well adapted to growing alfaifa. The crop has been produced on these farms for the past fifty or sixty years, and there is every reason to believe that the first seed sown was of the variegated variety. This, next to Grimm's alfalfa, has proved most hardy in Ontario. The object of the Seed Centre is to encourage the production of hardier strains of alfalfa, and by means of cooperation to market the same to best advantage. Accordingly, a bushel of Grimm's seed was procured this year, and six acres have been sown from this which promise well. Only twelve members are taken into the circle, the speaker believing that a small number is preferable, because there is less expense connected with the work, it is convenient and easy to control, and there is no difficulty in members getting to the meeting. Last year 63 hushels and 33 pounds of seed was sold, nearly all testing number one. 'The average price for the seed was \$20.00 per bushel, and the



gin with plenty of capital, and always have money on hand to run a cash business.

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THE CORN SITUATION.

W. J. W. Lennox in a brief address outlined the seed corn situation in Ontario. The main efforts of the Department at the present time are put forth to encourage the sale of corn on the Too much seed corn is sold, in Ontario, shelled in bulk, and while a great deal of it is of high quality considerable is of only questionable value and should not be relied upon. He 'also believed that we had too many varieties of corn in Ontario, and recommended in Dents, Wisconsin No. 7, White Cap, Golden Glow, and Bailey, and in Flint, Longfellow, Compton's Early and Salzer's North Dakota.

A number of papers and addresses were given by District Representatives of the Ontario Department of Agriculture, outlining some of the observations they had made during the past year when inspecting field crops in their respective localities. P. S. D. Harding, of Perth, Ont., I. B. Whale, of London, Ont., G. R. Green, of Woodstock, Ont., and C. Main, of Frontenac, each had some good work to report. The outstanding feature of these observations was that farmers are begining to become interested in the work the District Representatives are doing towards better seeds, and see the value of seed selection and greater care in caring for their seed to keep it pure and free from weed contamination. Each man showed new problems developing, which make it necessary to continue experimenting year after year, in order to find out just what each particular locality requires in the way of variety. It was in all very interesting meeting.

THE LIVE-STOCK STTUATION.

"Live-stock Conditions East and West" was the big subject assigned to four well-known live-

stock men on Wednesday Prof. M. Cumafternoon. ming, Truro, N. S., not being able to be present, sent a paper which outlined the needs and prospects of the industry in Nova Scotia. He pointed out that the great difficulty to be met by livestock men in his province was in selecting and transporting animals from Ontario to that province. It costs a man in Nova Scotia from \$50.00 to \$75.00 to come to Ontario and buy an animal, consequently, there is a need that men get together and buy in large numbers to keep down expenses. Besides this, the transportation charges on single animals are almost prohibitive, and it is very dimcult indeed to send a single animal by freight. Live-stock breeders in Ontario must aid those in Nova Scotia to solve this problem, and Prof. Cumming believed that the best solution would come by establishing a central live-stock

THE CANADIAN SEED GROWERS' CONVEN-TION.

Tuesday morning was given over to the annual convention of the members of the Canadian Seed Growers' Association resident in Ontario. At a meeting the previous day a committee had been appointed to formulate plans for the establishment of what finaMy came into being as the Western Ontario Seed Growers' Association, an association formed to aid in the production and dissemination of high-class seeds with members, bona fide seed-producers, who will put out seed guaranteed The officers of the new associaas to quality. tion are G. H. Clark, Seed Commissioner, Ottawa: Prof. C. A. Zavitz, O. A. C., Guelph: A. MacKinpey; Fred Foynston; and R. W. Wade, Sec.-Treas. Guelph Winter Fair. The new association is to commence business at once.

THE SEED CENTER.

Will Barrie, of Galt, Ont., Secretary of the Galt Dawson's Golden Chaff Seed Wheat Centre,



A Group of Yearling Heifers. To be sold at "Willowbanks" December 30th, property of C. V. Robbins. (See advertisement, this issue.)

total receipts of the centre \$1,291.70. The total expenditure for the year's business was only \$47.35. One hundred and seventy letters and cards all told were received, most of them being enquiries for alfalfa seed. The result has been that the members are taking every precaution to keep their fields clean, and are exercising greater care in harvesting, threshing and cleaning.

BUYING AND SELLING CO-OPERATIVELY.

F. C. Hart, head of the Co-operation and Markets Branch of the Ontario Department of Agriculture, spoke briefly on the subject of marketing In his opinion Seed Centres should have seed. attached to them proper machinery for selling their seeds co-operatively, and when the proper time comes he believes that all registered seed should be handled by one concern, probably a provincial organization; but, we must not expect too much of co-operation, and, as in every other successful business enterprise, small beginnings lead to greater things while large starts generally result in failures. Adequate organization must come through the local Seed Centres first. The business must be learned by experience, the principle of selling co-operatively is essential, and members of the local seed centres must realize this fact. By starting in a small way with few members it is possible to get men that will work together, and this is the only road to success. Above all things a good man must be had as a manager, and it is not always that the best producer is the best manager. Again the price asked has an affect on the selling. It is possible to put the price so high that sales will be cur-As pointed out by Mr. Martintailed thereby. dale, the aim should be to produce the seed at a profit to the grower, and sell it at a price which will induce and pay the purchaser to buy. Mr. Hart was hopeful that large things would come from the Seed Centres properly organized. Be-

purchasing and distributing agency in On-tario. The agency should be à part of the United Ontario live-stock associations, part and the manager appointed by these or by the government. This manager must be a good judge of live stock and be untramelled in his work. Live stock breeding has been making rapid advancement in the East. The breeders down there know more about good live stock than they did ten years ago. They demand pedi-gree as well as individuality. High records have been made by some of the cattle in that province. The dumping of poor stock from Ontario into Nova Scotia and the eastern provinces will certainly injure the trade, and Prof. Cumming looks to Ontario to organize 'the central agency mentioned and aid Nova Scotia breeders to work out the scheme.

H. S. Arkell, Assistant Dominion Live Stock Commissioner, by the aid of charts and maps took the audience for a trip over the Prairie Provinces, discussing the particular adaptations of each of the many well-known localities to the different classes of live-stock husbandry. Up from Winnipeg and away west to the Rockies he went; then north through the northern-most part of settled Alberta; then east and back to Winnipeg. He showed how in certain parts agriculture is becoming permanent, and a steady growth in mixed farming and live-stock husbandry is being effected. Manitoba is an instance of this. There has been little change in the numbers of live stock in Manitoba during the past few years, but in the whole of the West there has been a considerable increase, and, whereas a few years ago large numbers were being imported for consumption, this year there were exported 31,455 cattle and over one million hogs, Manitoba la settling down to producing live stock, particularly cattle and horses. The West is endeavoring to supply their own needs, but there will for years

THE FARMER'S ADVOCATE.

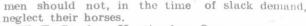
to come be a strong demand for breeding stock, particularly from that section lying to the north and west in the Prairie Provinces. The most alarming situation has developed in the hog trade; Alberta produced this year practically 1,-000,000 hogs, and these were rushed to market shoving the price down below profitable production, but, as pointed out in the Hor. Duncan Marshall's address which followed, the price is going up and likely to advance higher. It is significant to note that whereas a few years ago meat moved from east to west now the reverse is the case and the meat is moving from west to east, one million pounds coming east during the last two months. The West had during the past year a great producing boom in breeding stock, and grain growing is giving place to mixed farming. In the speaker's opinion agriculture does not under present conditions obtain the requisite results for the work being done. There is a lack of that organization which is so prominent in other lines of endeavor. Energies must be combined to secure desired ends. There is a need of a body representing the selling end of the business. In other words the producer must in some measure control the marketing, else we cannot overcome the over-stocking of the market at certain times.

In a rousing address the Hon. Duncan Marshall, Minister of Agriculture for Alberta, warmed his audience up to the need of greater effort and a wider education for farmers and farmers' sons in their own business. In his own province in 1901 there were 92,000 horses, while in 1913 there were 580,000. In 1901 there were 323,000 cattle in 1913 1,000,800, while hogs had grown from practically nothing to over one million. He believed that there was such a thing as too high prices for live stock, citing the case of the farmer starting farming in the West and who a short time ago was obliged to pay from \$600 to \$700 for a team, which he considered too much, and he believed it would be better business all the way round when horses sold at a lower figure. The very foundation of a lasting agriculture, he stated, was live-stock breeding, and he believed that the live-stock man was himself the most important consideration in the development of the business. We must train the boys and give them the agricultural education which they need. In no other business do the men engaged therein lack the training to such an extent as do those which enter upon a life work in the calling of agriculture. We must have good judges and lovers of live stock, and we must take the education to them in the form of colleges and schools at their door wherein they can get the mecessary training at small cost and in as short a time as possible. Too many of our farms have scrub stock, and too few are laying stress on the pure-bred variety. The average boy on the land, according to Mr. Marshall, does not know anything about his business, and to prove that education can teach him something about it he cited the case where 88 cows, which were bought for the Alberta Government in Ontario last year, made in one month, after a long hard trip to the West, 1,100 pounds of milk each, and one of which cost \$125 made 17,258 pounds in 12 months. These were selected by a man trained at the Ontario Agricultural College, Guelph, and speaks well for the training of that institution. It is this education which we must take to the boy on the farm. In conclusion he believed that the world's market offered to-day the best inducement ever to the intelligent live-stock breeder. Prof. Barton, of Macdonald College, St. Anne de Bellevue, Que., outlined the live-stock situation in his province and by a comparison with Ontario, and of Canada with the United States vividly depicted to his hearers where this country and his province stand in the live-stock busi-His was one of the best addresses of the ness. entire meeting. Comparison with other countries shows that Canada does not hold the position in live stock which she should. On the farm we possess roughly in fractional form about 1-03 of the world's cattle, 1-47 of the world's horses, 1-28 of the sheep and 1-58 of the swine, while United States possesses a little over 1 of the world's cattle, about 1 of the horses, 1-12 of the sheep, and almost 1 of the swine. Even per capita the advantage is still with the United States, and yet we have a great live-stock country in Canada. Since 1900 we have made slight progress in all classes of stock with the excep tion of sheep but the numbers show no great increase, while a favorable situation is shown by the substantial increase in value. In total value of farm animals in Canada, Ontario stands first, Quebec fourth, but the value in Quebec has almost doubled since 1901, and an increase is shown in every class. During the last four or five years, howevever, swine have not been gaining and milk cows have lost. Quebec had more sheep forty years ago than she has to-day. This is true of the entire Dominion, but in 1909 the tide turned in Quebec and sheep are gaining in favor. During the last decade the value of live stock per farm in Quebec has increased from \$387 to \$600. or fifty-five per cent. per farm of 97.63 acres.

Numbers are increasing also. Quebec carries less stock per farm, but is gaining on Ontario in annual output. In 1913 she had 19.1 animals per holding, 2.3 horses, 4.7 milk cows, 4.3 other cattle, 3.7 sheep and 4.1 swine, an increase in ten years in horses, cattle and hogs, but a decrease in milk cows and swine per farm. Ontario farms average 26 head, and show an increase in horses, milk cows and swine, but a decrease in other cattle and sheep. Quebec is also making a rapid increase in live

Quebec is also making a rapid increase in live stock sold, jumping about 325% in the last decade, and last year the output was valued at \$20,406,385. In ten years Quebec's dairy products increased from \$20,207,862 to \$31,663,220. The number of dairy cows increased in the Dominion in the past ten years by only 7%, but the production of these cows has increased 43%. Winter dairying is advancing in Quebec because of the increase of the milk and cream trade, much of which is going to the United States as well as to the big city of Montreal. Quebec far exceeds Ontario in the output of factory butter; the export of cheese is decreasing materially.

Every year sees improvements in Quebec where the farmers are more and more dependent upon animals and animal products as the main source of return, and there is a noticeable improvement in the quality of stock going to the stock yards. Big sales of pure-bred stock are made in Quebec, and with "'Farmers' Clubs," of which there are 62,000 members, receiving government grants and with government agencies and live breeders progress is being made. Quebec is a ready market and a fine field for Ontario live-stock breeders, but must not be considered as a dumping ground for the inferior stock from this province. Quebec in pure-bred stock is not a leader, neither is she a tail ender. Less than 1% of her horses are pure-bred, about 1.25% of her cattle are purebred, and 1.04% of her hogs are pure. Quebec is She has a in a good position to forge ahead.



FOUNDED 1866.

W. F. Stephen, Huntingdon, Que., gave a very interesting address on the outlook for the dairy farmer in Eastern Canada. The dairy situation is becoming more complex, and the dairyman is now surrounded by regulations and exactions imposed on him by municipal, city and provincial bodies, these causing increased expenditures. There is a growing demand for good dairy products, pure, wholesome and of choice quality, and the farmer who produces these will get a fair recompense for the labor involved. Quality counts as never before. The business is on a good footing and there is no cause for alarm, and there is no indication that dairy products will become lower in price, but with an improvement in quality they may go higher. Mr. Stephen believed that there is a good future before the breeder of high-grade dairy cattle. With an inbreeder of high-grade dairy cattle. With an in-crease in demand for high-class milk in our cities so will the demand for cows of large production increase. Testing has proven the wisdom of keeping cows of large capacity, with the result that thousands of poor producers have gone to the canneries. Pure-bred sires from record families are necessary. There are still too many scrub bulls. The dairy business has received a temporary check owing to the financial depression caused by the war, but no uneasiness should be felt as a result of this, because there is a brighter future than ever before the dairy farm-There is no surplus of cows or young heifers er. at present. In fact, there is a shortage in the Western Provinces both in high-grade cattle and in pure-breds, and when money becomes easier there will be a loud call from the West for dairy cattle, and profitable prices will result. Farmers now demand foundation stock from ancestry with a record. Production is the key-note of the situ-ation. As a result of the conditions in Europe a market for good pure-bred dairy stock may be

opened in Europe. Mr. Stephen concluded that "optimism and patriotism should gohand in hand in stimulating the dairy farmers of Canada to do their best at this most critical time in the history of the British nation."

John Gardhouse, of Weston, Ont., said ina brief address that inall his experience as a breeder of beef cattlethat the future never

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Rosie Posch.

Champion producing cow at the Guelph Winter Fair, 1914. Her record can be learned from the report of the test.

large territory; her rural population is increasing, and the sentiment of the average farmer is keener towards live-stock improvement at present than has been the case for some time past. The numbers and value of live stock are increasing, and there is room for special effort in dairy cattle and sheep. The field in sheep is practically unlimited. The home market in Quebec ranks with the best, situated near Montreal and the larger eastern cities.

OPPORTUNITIES FOR ONTARIO LIVE STOCK.

On Thursday, Dec. 10th, stockmen gathered in the lecture room for a session on the opportunities for Ontario live stock. Robt. Miller, Stouffville, Ont., discussed the horse-breeding outlook. The trade has been dull owing to the slowing up of other lines of industry in the country. For instance, little building is being done, and horses usually engaged in this work are being thrown upon the market. This is also true of railway construction and of expansion in farming in Western Canada, where gasoline and steam power have been used to replace the horse. Also very little work is being done in the woods this year. Mr. Miller drew attention to the fact that large numbers of horses have been bought in Canada for the war, but that recently the British Government has been buying in the United States where they can get a more uniform class of horses at from \$15 to \$40 less per head than they can in this country; besides they are available in larger numbers. Mr. Miller predicted that horses would soon he in good demand in Canada, that all the activities now sufering because of the war must

try. He urged that every farmer should improve and increasehis live stock, while the breeder of purebred cattle should not

abate his efforts.

R. H. Harding, of Thorndale, commented upon the decrease of sheep in Ontario. We now have less than 1,000,000 sheep, and have suffered a decrease of 25,000 in Ontario during the last year. During the last four years sheep have decreased 135,000 head. Prices are not responsible for this condition, for they are now nearly double what they were thirteen years ago. Mr. Harding recommended that every farmer, whereconditions were at all favorable, should keep a small flock of sheep upon his farm, and that he and all other sheep breeders should raise their standard and put a more finished article upon the The shearing for each sheep should also market. be increased. The average in Ontario is approximately three and three-quarter pounds per sheep, whereas it might as well be made five or six pounds per sheep. This is why Ontario isnow importing wool, a condition which seems absurd for a province so well suited to sheephusbandry. In order to raise the quality of the sheep and wool, breeders should look to the selection of their sires and choose only those which are grown and matured. In this way the crop of lambs will be made stronger, and the apnual shearing will be very much increased

The following Ministerial order went into effect on the 14th inst. "During the period of" six months from the fourteenth day of December the importation or introduction into Canada of any hay, straw, fodder, feed stuffs, or litter accompanying horses from Continental Europe isprohibited." often t feet ar is foun must s dales with n breeds. good (which horse a that s strong any c vastly little poor h try and ing mo

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THE FARMER'S ADVOCATE.

A Year of Plenty and Quality at the Guelph Winter Fair

abroad, when business is not so good, when other exhibitions have not ventured to stage their snow or have been withheld on account of contacious diseases it is pleasing to report the Guelph Winter Fair. This has long teen a show of the farmers, by the farmers and for the farmers and although they do not always make phenominal strides they are reliable and the success of the Winter Fair now closed manifests the security of any enterprise favored with the good will and patronage of Ontario's rural population. They look forward to the event of meeting annually with others of their own occupation and viewing together the result of a year's efforts in the production of seeds, live stock and all animal kind. The feeder finds it a pleasant and a profitable place to exhibit his handiwork in the form of a finished animal while horsemen can display their fine specimens of their chosen kind of stock, before an admiring and appreciative audience. This widespread patriotism to the Provincial Winter Fair coupled with an efficient and pains-taking management is sure to anchor the event in the minds and hearts of Ontario's farmers and exhibitors. Necessity long ago did away with any reasoning regarding the accommodation for the Fair. We must wait for better times when we are sure such a worthy institution will be favored with liberal grants and enlarged until it is, to a certain degree at least, commensurate with its requirements and importance.

It is vastly more pleasing to report that the Provincial Fair was again this year a recordbreaker in many respects. Some classes of horses were not so strong numerically as in some former years but there was slight decrease and in the cattle stalls and, in fact in many corners, were animals of the best kind. The fat cattle department of the exhibition was superior to that of former years and in quality alone the most cassual observer could see a great improvement over last year's entries. The stock was well fitted and well brought out.

The lectures, an important feature of the Fair, were well attended. The efforts of the management to compile a time-table for judging and lecturing so no events would conflict were rewarded with a good attendence at the different sessions and unprecedented interest.

Horses.

CLYDESDALES .- A patron of the Clydesdale breed examines a horse from the ground up more often than from the top down. They must have good body and when a is found on pleasing under-pinning, he'll do. They must show their shoes, and somehow the Clydesdales have the faculty of turning the steel up with more dexterity than any other of our heavy breeds. For fitting, quality, conformation and a good Clydesdale turnout the Guelph Winter Fair, which has been known for a long time as a good horse show, has never seen anything superior to that staged this year. The open classes were strong, and the home-bred stuff were a credit to any country. The Canadian-bred horses were vastly superior in numbers, and there appears little reason why breeders should make use of poor horses with so many good sires in the country and the possibilities so promising for producing more. There is one place that history does not always repeat itself, and that is in the show-ring. The aged stallion class was interesting from many view points-one being the presence of Baron Ian, last year's champion horse. Another was the number of horses sired by Baron's Pride, and yet another was that the class was made up of fourteen of as class was made good Clydesdale stallions as any one should wish to look upon. Subsequent judging showed there were better horses at the Fair, but as a class it was one of the best ever seen in the arena at the Winter Fair. R. S. Starr, of Port Williams, Nova Scotia, who judged the open classes, had type, conformation and quality to consider in placing these horses, for each one of the first seven or eight had distinguishing points that made him a hard individual to place when the good points of the others were considered. After winning the championship last year it was thought that Baron Ian must go first. He had the outstanding quality of a good horse and a good top, but Baron Minto was so massive and so rigidly coupled that he could not be turned down. Although his bone was not quite so flat as that of Baron Ian yet it was flinty and plenty, and on the whole he was considered worthy of first honors. The next horse consistent with this type was Scotia's Pride, an animal with substance, quality and conformation indicative of strength. Third came Baron Ian with pronounced quality, good action, and the bearing of a good Seldom, is his flat, flinty bone and fine feather excelled in any ring, but in comparison. with Raron Minto he may lack a little in depth of hour and in the nice manner in which the knee

and cannon bone join in the latter house. It was splitting mairs, so to speak, in the placing of these three horses, but the judgment as a whole looked most consistent. Ardyne Blend was given the fourth place on account of a well-turned and nicely-muscled body, but he did not possess the quality manifest in the three above him. Next came three good horses sired by Baron's Pride, Baron George, Kircudbright Baron and Baron's They were the nice type of Clydesdale Hope. that we want in this country, combining substance, quality and proper action. Four out of the first seven winners were sired by Baron's Price, showing the wonder influence of the King of Clydesdale horses.

The two winners at the Canadian National maintained their position in a class of nine threeyear-olds. Barrington stood first and Prince of Brougham second as they did at Toronto, but a new fellow came third. On this occasion it was Fressilian, sired by Sir Hugo, and bred by one of Scotland's good horsemen. Only a very critical person could find fault with his action, and he carried, a good top on a set of limbs to match The fourth individual was Baron Senwick, another good son of Baron's Pride, and out of the Rose of Upper Senwick. He was right in every way, but extremists might wish for him a little larger set of feet. Baron o' Buchlyvie's contribution to this class was the candidate for fifth place, Dunure Lucky Star. He was not quite so ucky as some of his class-mates, but moved straight and was worthy of the place.

The outstanding figure in the two-year-old class was Baron Ascot. For quality, the right kind of a body, and the ability to show the shoes to suit horsemen this animal was given the red ribbon. He was furthermore honored with the championship of the Clydesdale breed and upremacy over all horses in the show, male or Baron's Blend was second in this class, female. and Thorndale third, while fourth stood Lord Malcolm. The fifth place was allotted to Prince Wright, and the five made up a quintette which the breed has no right to be ashamed of.

The class of aged mares fortold some good Canadian-bred classes in the future. There were eight in all, making a class of females difficult to surpass; such names as Royalette and Ella Fleming are familiar to all Clydesdale admirers, but Bloomer came into the ring and wrested the laurels from them. This massive, well-coupled mare was supreme in fit and bloom, but she did not show her best on account of being heavy in foal. Royalette, an older mare, that is still one brood mares in the country lacked a little of the freshness she once possessed, but with it all stood out as a female worthy of any honors. Ella Fleming, the recipient of the white ribbon, showed as well in action as any candidate in the ring. She could do it on account of one of the best set of feet and limbs usually seen on a mare, but she lacked the substance of the two above her. In fourth place was Lady Sangster, and, like the mare above her, she had many good points, especially her quality and action, but she could not measure up to the winners for conformation and substance. It was a good class, and fifth in it was Boghead Darling a good individual sired by Sir Humphrey. Bloomer was made champion Clydesdale mare, and later grand champion female of the breed. The winning three-year-old mare at Toronto, Lassie of Petty, took second place in her class to Laura Dee. It was a close contest, but the winner is a little more reliable in her movement, never to go wrong. Popular Polly was popular with the judge and secured third honors, while fourth went to Iris of Petty, and fifth to Black Queen.

Fressilian by Sir Hugo; 4, Boag & Sons, on Baron Senwick by Baron's Price; 5, Bender & Walter, on Dunure Lucky Star by Baron o' Buchlyvie. Stallion foaled in 1912: 1 and 4, Graham Bros., on Baron Ascot by Baron's Pride, and Lord Malcolm by Mendel; 2 and 3, Smith & Richardson, on Baron's Blend by Baron's Pride, and Thorndale by High Honor; 5, Jones, on Prince Wright by General Miller. Stallion foaled in 1913 : 1. Smith & Richardson, on Everard by Everlasting; 2, Graham Bros., on Cedric King by Cedric's Baron; 3, Barton & Sons, on Knight Elderslie by Elderslie Patriot. Aged mares: 1, Graham Bros., on Bloomer by Benedict; 2, Hogg, on Royalette by Royal Edward; 8, Watson Sons, on Ella Fleming by Sam Black; 4, Smith & Richardson, on Lady Sangster by Baron Roths-child; 5, Murray, on Boghead Darling by Sir Humphrey. Mare foaled in 1911 : 1, Smith & Richardson, on Laura Dee by Baron O'Dee; 2, Graham Bros., on Lassie of Pettie by Farmer's Counsel; 3, Boag & Sons, on Popular Polly by Sir Hugo; 4, Hogg on Iris of Petty by Bonnie Buchlyvie; 5, Goodfellow Bros., on Black Queen by Everlasting. Mare foaled in 1912: 1, Boag & Sons, on Solway Duchess by Title Deeds; 2, 8, 4 and 5, Smith & Richardson, on Mandoline by Mendel, Black Jewel by Bydand, Black Maid by Fyvie Baron, and Beauty of Bucklet by Harviestown Baron. Mare foaled in 1913 : 1, Smith / Richardson, on Lady Lochfergus by Signet; 2, Boag & Son, on Lady Ascot by Ascot Chief; 8, Wilson, on Ruby Land Champion Ulyuosaan Houson, on Royal Mary. Champion Clydesdale

CANADIAN-BRED CLYDESDALES-The aged stallions representing Canadian breeding were lined up with Lord Ronald first; Glen Rae second, and Royal Marquis third. The white-ribbon horse was strongly topped, but none too springy in his action; Lord Ronald was best in this re spect, and Glen Rae was good but did not move too straight.

Four three-year-olds were placed in the order of Maconbie first, Peerless Ascot second, Orla's Boy third, and Special Royal Favorite fourth. They were a strong, well-built lot.

Nine contestants responded to the call 'for two-year-olds, and from these Montrave Envoy was chosen for first place. The distinguishing features of this horse were his sloping shoulders and pasterns and good quarters, while International, the second prize horse, stood out as a deeper and better ribbed animal than the winner. Prince Roderic, which carried out the white ribbon, was a compactly-built horse with quality throughout, and Stratford Gay Bay looked well enough to occupy most any place in the ring. Acme's Favorite, sired by the old horse Acme, was given fifth honors, and Charming Scotchman stood sixth. The yearling class was one of the best line-ups of the Canadian-bred stallions. Prince Carruchan, winner of his class at the Canadian National and London, was obliged to take second place to Ivory's Joy, a young horse by Black Ivory. This young stallion compared very favorably with anyhing bred in this country or in the Old Land. He was a dark brown or black in color, and possessed quality and substance. He was later made champion male of the Canadian-bred classes. winning honors from the older horses and the young foal, Duke Carruchan. Prince Carruchan cannot be faulted for lack of quality for he has plenty of it with excellent feet and limbs, but he did not show quite as good action as Ivory's Joy neither did he show the weight. Marquis Own, coming third, was well put together and firmly coupled, but from the body down was not on a par with Prince Carruchan or Ivory's Joy. Dunure Ivory gave an exhibition of good action, but he was a smaller horse than those which Ton of Gold was given fifth stood above him. place in this class of good horses on account of a fine quartette of feet and nice quality.

Six two-year-olds and four yearlings made up the remainder of the female classes.

Exhibitors-Graham Bros., Claremont': W. W. Hogg, Thamesford, J. F. Husband, Eden Mills; Goodfellow Bros., Bolton; T. H. Hassard, Markham; G. W. Saunders, Jerseyville; Hugh McLean, Wvoming; W. Woodley & Son, Dundas; T. D. Elliott, Bolton; B. Bryson, Wyoming; John A. Boag & Son, Queensville; Smith & Richardson, Columbus; Bender & Walter, Cowanstown; Colin McKeighan, Strathroy; McKeighan & Watson, Strathroy; Robert Cox & Sons, Todmorden; W. A. Jones, Caledonia; J. T. Barton & Sons, Beeton; Chas. Gilstorf, Mount Forest; H. I. Bernhardt, Oro Station; W. H. Murray, Avonton; Fewster, Fred I. Wilson. Riverbank: Joseph Brampton; Albert Houson, Malton.

Awards.-Aged stallions : 1, Graham Bros., on Baron Minto by Baron's Pride; 2, Smith & Richardson, on Scotia's Pride by Crossrigg : 3. Poag & Sons, on Baron Ian by Baron's Pride: 4. Elliott, on Ardvne Blend by Hiawatha; 5. 6 and 7, Goodfellow Bros., on Baron George by Baron's Pride, Kirkcudbright Baron by Baron's Pride, and Baron's Hope by Baron's Pride. Stallion foaled in 1911 : 1 and 2, Graham Bros., on Barrington hy Cedric's Baron, and Prince of Brougham by Baron Burgie; 3, Smith & Richardson, on

Out of four stallion foals Duke Carruchan was given first place, Avonton Royal Hero second, Punch of Glamis third, and Scottish Favorite fourth.

The champion female of the Canadian-bred classes was found in the aged mare class Charm, by Lord Charming, was given first honors in her class and later champion female. Lady Favorite stood second and Black Bess third. Trim of Oro which has been seen often in the ring before went down to fourth place, and Scottish Queen stood fifth.

Four candidates came out in the three-year-old class, and six in the two-year-olds. In the former class Princess of Atha, a mare with good action and proper conformation, went first, and Flora Tangy secured like honors in the class for two-vear-olds.

The yearling females made one of the best classes seen throughout the entire show. Fifteen lined up and first place went to Nora Carruchan, but it was no easy winning. Scotland's Charm, the candidate for second place, put up very strong arguments for the first position. Perhaps she did not show quite the outstanding quality possessed by Nora Carruchan, but she had a little more substance, a little more bone, and was on the whole a strong contestant for the highest place. Molly of Burreldells secured the white ribbon on account of good quality and fair action, but she could have gone a little closer behind. Rose of Glanris, in fourth place, was a stout and well-built filly with plenty of substance and proper action. Minnie Favorite was fifth, and Hillside Pearl sixth.

A class of five filly foals gave promise of something good to come later on, especially the little, grey, Ivory Margaret, which won first place in the class.

Exhibitors .-- Thomas McMichael & Sons, forth; B. D. Turnbull, Branchton; Graham Bros., Claremont; William Woodley & Sons, Dundas; R. C. Rogerson, Fergus; Joseph Telfer, Milton; James Spier, Brussels; J. F. McKenzie, Woodstock; T. H. Hassard, Markham; W. J. Taylor, Grand Valley; John W. Pinder, Sharon; Geo. Gropp, Milverton; John Arbogast, Stratford; Vipond, Brooklin; Jas. A. Milne, Fergus; John R. M. Holby, Port Perry; J. T. Barton & Son, Beston; Jas. H. Hall, Orton; Alex. Clayton, Grand Valley; W. F. Batty, Brooklin; Isaac Weylie, Caledonia; Peter Christie, Manchester; A. Watson & Sons, St. Thomas; Fred. J. Wilson, Riverbank; Jas. Bowman, Guelph; W. H. Murray, Avonton; John D. Campbell, Palmerston; Geo. Miller, Black Heath; Geo. W. Reist, Floradale; Charles Gilstorf, Mount Forest; Geo. Clayton, Grand Valley; Jas. A. Brander, Elora; Robert Duff, Myrtle; H. I. Barnhardt, Oro Station; Michael Richl, Stratford; Elijah Wray, Schomberg; Jas. Nichol, Hagersville; Robert R. Watt. Blyth; Frank W. Bradley, Seagrave ; Joseph Fewster, Brampton; William Jacob, Stratford ; John D. Mc Gibbon, Milton; Wm. French, Mitchell; Robt. Clarke, Carlingford; Smith & Richardson, Columbus.

Awards .- Aged stallions : 1 and 2, McMichael Sons, on Lord Ronald by Baron's Luck, and Glen Rae by Great Britain; 3, Turnbull, on Royal Marquis by Moncreiff Marquis. Stallion foaled in 1911: 1, Graham Bros., on Maconbie by Mc-Queen; 2, Rogerson, on Orla's Boy by Prince Orla; 3, Woodley & Sons, on Peerless Ascot by Prince Ascot; 4, Telfer, on Special Royal Favorite by Monteith Favorite. Stallion foaled in 1912: 1, Milne, on Montrave Envoy by Montrave Magnus; 2, McMichael & Sons, on International by Prince Romeo; 3, Vipond, on Prince Roderic by Royal Roderick; 4, Arbogast, on Stratford Gay Boy by Nigel; 5, Holtby, on Acme's Favorite by Acme. Stallion foaled in , Smith & Richardson, on Ivory's Joy by Black Ivory; 2, Batty on Prince Carruchan by Gallant Carruchan; 3, Alex. Clayton, on Marquis Own by Moncreiff Marquis; 4 and 5, Christie, on Dunure Ivory by Dunure Soutar, and Ton of Gold by Homestake. Stallion foaled in 1914: 1, Batty, on Duke Carruchan by Gallant Carruchan; 2, Murray, on Avonton Royal by Royal Consort; 8, Gropp, on Punch of Glamis by Knight of Glamis; 4, Campbell, on Scottish Favorite by Scottish Yoeman. Aged mares : 1, Miller, on Charm by Lord Charming; 2, Campbell, on Lady Favorite by General Favorite; 3, Gilstorf, on Black Bess by Castle King; 4, Watson & Sons, on Trim of Oro by Baron Gartley; 5, Geo. Clayton, on Scottish Queen by Scottish Celt. Mare foaled in 1911: 1, Duff, on Princess of Atha by Bay Ronald; 2, McMichael & Sons, on Spring Beauty by Glen Rae; 3, Milne, on Rose Marquis by Montrave Marquis; 4, Reist, on Maud Fashion by Rozell. Mare foaled in 1912: 1, Riehl, on Flora Tangy by Ronald of Tangy; 2, Nichol, on Walpole Lady by Commodore; 3, Gropp, on Lady Blend by Highland Blend; 4, Wray, on Lena Baron by Celtic Baron; 5, Arbogast, on Bonnie McGregor by Edward McGregor. Mare foaled in 1913 : 1, Batty, on Nora Carruchan by Gallant Carruchan; 2, Miller, on Scotland Charm 'by Kinburnie; 3, Brander, on Molly of Burreldells by Kings Seal; 4, Gropp, on Rose of Glamis by Knight of Glamis; 5, Bardley, on Minnie Favorite Clan Favorite. Mare foaled in 1914: 1. by Smith & Richardson, on Ivory Margaret by Black Ivory; 2, French, on Primrose by Mucius; 3, Batty, on Nellie Carruchan by Gallant Carruchan; 4, Watt, on Flora Dora by Glen Rae; 5. Clarke, on Fanny C. by Mucius. Champion Canadianbred Clydesdale stallion, Ivory Joy. Champion Canadian-bred Clydesdale female, Charm.

THE FARMER'S ADVOCATE.

ning first place on Irade a large grey sire, with proportioned and set on a good set of limbs which are controlled in a pleasing manner. Kavaignac, one of old Romancier's get, came second and made Irade show well to win. The former horse moved straight, but he did not show as good Following hock action as the winning entry. these two greys came Jet, a black with Etudiant blood, and lots of courage in his movement. Kakiz was fourth and Komb fifth. They were not so adept in the operation of showing their steel as those in the high places, but for conformation and style they were worthy winners.

For quality, honors went to the three-year old class. From a noble lot, Lenoir was selected to receive the red ribbon and ultimately the championship. Substance, quality, limbs and expression are all pronounced in this shiny black stallion which rightly won the highest honors for Hodgkinson & Tisdale. Luth, the secondprize winner gave as good an exhibition of action as any horse in the ring and was only beaten by Lorrain was third and Longtemps small odds. fourth. If the latter horse were consistent throughout, that is if his action were as good as his massive body and muscular make up he would be a hard horse to beat. Lancastrien, a fair mover and a good limbed and a good bodied horse was fifth.

Four stallions foaled in 1912 came forward and went out in the order of Miroton first, Mardi second, Diplomat third and Molotor last. For general fitness to win a class, Miroton was best prepared. He was in prime condition, possessed a good carriage and lots of substance. Mardi was much the same type as the winner, while Diplomat showed the best action of any horse in the ring but was not in proper fit to show in such a class.

The female classes had three candidates each. Lacune won the aged class with honors and was awarded the championship. Mela, by the dead Imprecation, was considered best of the young females but she could not win any higher honors from the more elderly matron.

The awards in the Percheron classes were made by Rolprt Graham, Toronto.

Exhibitors.—R. Hamilton & Son, Simcoe; Milton Porter, Simcoe; J. B. Hogate, Weston; Noble Johnson, West Toronto. Hodgkinson & Tisdale, Beaverton; T. D. Elliott, Bolton; M. Dyment, Brantford; Cheyne & Steen, Brampton; A. F. Mc-Niven, St. Thomas; Joseph Telfer, Milton.

Awards.—Aged Stallions: 1, Elliott on Irade Sahara; 2, Hamilton on Kavaignac by Romancier; 3, Cheyne & Steen on Jet by Etudiant; 4, Hogate on Kakiz by Galop; 5, Porter on Komb Felot. Stallion foaled in 1911: 1 and 3, Hodgkinson & Tisdale on Lenoir by Moulinet, Lorrain by Hanneton; 2, 4 and 5, Hamilton on Luth by Hommage, Longtemps by Fernand, and Lancastrien by Flenicyele. Stallion foaled on or after January 1st, 1912: 1, 2 and 4, Hodgkinson & Tisdale on Miroton by Harenguet, Mardi by Isaac, and Molotor by Imposant; 3, McNiven, on Diplomat by Pink Borodina. Mare foaled previous to January 1st, 1912: 1, Hogate, on Lacune by Gogel; 2, Hodgkinson & Tisdale on Leste by Zanzarbar; 3, Telfer on Kaille by Ermite. Mare foaled on or after January 1st, 1912: 1 and 3, Hodgkinson & Tisdale on Mela by Imprecation, and Marquette by Hidalgo; 2, Elliott on Maline by Incitatus. Champion Stallion: Hodgkinson & Tisdale on Lenoir. Champion female: Hogate on Lacune.

Guelph; Hodgkinson & Tisdale, Beaverton; Geo Clayton, Grand Valley; J. A. Milne, Fergus; Sam Hastings, Tottenham; Wm. Argo & Sons, Eden Mills; J. D. Campbell, Palmerston; Herbert Matthews, Meadowvale.

Awards.—Gelding or mare in single harness: 1 and 4, Crake, on Pat, and Mack; 2, Mournahan, on High Degree; 3 and 5, Sayles, on King Ravenna and Queen Buttress. Gelding or mare foaled previous to January 1st, 1912, on line: 1 and 3, Crake, on Pat, and Mack; 2, Mournaham, on High Degree; 4, Clayton, on Daisy Moncreiff, 5, Hillis, on Joe. Gelding or mare foaled on or after January 1st, 1912, shown on line: 1, Hast. ings, on Silver Lion; 2, Matthews, on Maud; 3, Argo & Sons, on Queen of Everhill; 4, Campbell, on Jessie. Team in harness, geldings or mares: 1, Crake, on Pat and Mack; 2, Sayles, on Queen Buttress and King Ravenna; 3, Mournaham, on Saugeen Pride and High Degree; 4, Hodgkinson & Tisdale, on College Queen and Lady Bain.

HACKNEYS .- As usual the Hackneys were a splendid exhibit. Some excellent horses came forward, and at times the enthusiasm was very pronounced as they performed up and down the arena. In the aged class De Wilton and Spartan were perhaps the closest contestants, but the former horse was superior in nerve and action. Colorito came third and Anticipator fourth. Brookfield Laddie, the winner of the class under 15.2 hands high and later champion of the breed, was indeed an excellent horse. He was a bold, fearless mover and apparently set on springs, so lightly did he touch the ground. This breed as well as the remaining light breeds was judged by Dr. J. A. Sinclair, Cannington.

Exhibitors.—Graham Bros., Claremont; James Semple, Milverton, Tilt & Cheyne, Brampton; D. A. Graham, Wyoming; Henry Douglas & Co., Meaford; J. R. Thompson, Guelph; J. F. Husband, Eden Mills; A. Watson & Sons, St. Thomas; Moses Forsyth, Mitchell; W. C. Quickfall, Glen Allan; W. W. Hogg, Thamesford; Joseph Telfer, Milton; James Tilt, Brampton; Harcourt Blackstock, Thornton; W. F. Batty, Brooklin; R. C. Rogerson, Fergus.

Awards.-Stallion foaled previous to January 1st, 1912, 15.2 and over: 1, Semple, on De Wilton, by Drumlanrig; 2, Tilt & Cheyne, on Spartan by Polonius; 3, Graham Bros., or Colorito by Rosador; 4, Douglas & Co., on Anticipator by Rosador; 5, Graham, on Guelph Performer by Square Shot. Stallion foaled previous to January 1st, 1912, under 15.2: 1. Husband, on Brookfield Laddie by Smylett Swell; 2, Forsyth, on Autocrat by Garton Duke; 3, Quickfall, on Income by Rosador; 4, Watson, on Wenona Jubilee by Jubilee Chief. Stallion foaled on or after January 1st, 1912: 1 and 2, Telfer, on Paderewski by Vanguard, and Harry Lauder by Warwick Model; 3, Watson, on Wenona Performer by Guelph Performer; 4, Hogg, on Oscar by Terrington Semaphore. Mare, two years old or over: 1, Husband, on Princess Winyard by Warwick Model; 2, Telfer, on Princess Eudora by Vanguard; 3, Watson, on Dainty's Maid by Guelph Performer; 4, Tilt, on Miss Derwent by Derwent Performer; 5, Thompson, on Quickstep Fairy by Commodore. Mare foaled in 1912: 1 and 5, Blackstock, on Peggy Thornton by Blanch Surprise, and Daisy Thornton by Blanch Surprise; Thompson, on Dixie by Warwick Model; 3, Rogerson, on Dainty Model by Warwick Model; 4, Batty, on Madge by Spartan. Champion stallion, Husband, on Brookfield Laddie. Champiop female, Husband, on Princess Winyard. STANDARD.BREDS.-Standard-breds did not possess heavy classes, that for aged stallions being the largest and containing eight entries. Jim Todd, a horse that has won many times in the show-ring in this country and the neighboring Republic, was placed first, but it was a surprise to a good many onlookers to see Mograzia and Bonn take second place to Jim Todd. True it is, he gave an exhibition of speed, but to the general run of breeders the horses Bonn and Mograzia look good. This was ring-side opinion, however, and the horse which won may be quite worthy of the position. The female championship went to Mary Regina, belonging to the Cruickston Stock Farm

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PERCHERONS.

This breed made a more imposing exhibition than they did last year. Some of last season's winners came back and repeated their victories. while intermingled throughout the different classes was some imported blood that spelt defeat for winners of former years.

Numerically the aged stallion class was twice as strong as last year, lacking one. Eleven lined up and the beautiful head and neck coupled to a Percheron body of each one beside ten others of its kind made a sight worth seeing. The awards begin similar to last year's report, Elliott win-

SHIRES.

This breed is never strong in entries at the Guelph Winter Fair, but each year a few good individuals come forward and keep themselves before the people as a large serviceable horse. Johnson Bros., Croton and John Guardhouse & Sons, Highfield, were the two exhibitors. King Junior, the aged entry was given the championship over Watnall King, Gardhouse's two-year-old and champion at Toronto. The former is a massive horse with strong limbs and good action. Watnall King showed to good advantage and when he adds more substance on top of his excellent quality of feet and limbs he must be heard from in the keenest competition.

Three mares, Gray Fuchsia, Denstow Fuchsia and Hattie Kitchener competed. The former two for Johnson Bros., and the latter for Gardhouse. Hattie Kitchener was placed first and Gray Fuschia second. Nicousis Queen, Gardhouse's twoyear-old gained preference over the other females, and was given the ribbon of honor in the filly classes.

HEAVY-DRAFT HORSES.—Four classes were devoted to geldings and mares for work purposes. The winning team was an immense pair of geldings, well fitted and nicely brought out. King Ravenna and Queen Buttress, which have shown formerly as Ravenna King and Ravenna Queen were in good show shape and put up strong competition for first place. They were second, however,followed by two good teams shown by Mournaham and Hodgkinson & Tisdale.

Exhibitors.—Arthur Savles, Paris; John Hillis, Grand Valley; R. N. Crake, Bradford; Geo. Mournaham, Grand Valley; Andrew Acheson, Exhibitors.—A. C. McMillan, Erin; Smith & Richardson, Columbus; The Cruickston Stock Farm, Galt; P. J. Farrell, Woodstock; W. H. Grosch, Milverton; M. P. Barry, Rockwood; Thos. Skinner, Mitchell; D. Douglas & Sons, Mitchell.

Awards.—Stallion foaled previous to January 1st, 1912: 1, Cruickston Farm, on Jim Todd by Todd; 2, Farrell, on Mograzia by Moko; 3, Smitb & Richardson, on Bonn by Bingara; 4, McMillan, on Alnared by Allerine; 5, Barry, on Michael Bals by Steel Arch. Stallion under two years old: 1, Grosch, on Gilbert Patch by Dan Patch; 2, Skinner, on Dothan by Moko; 3, Cruickston Farm, on Jim Elden by Jim Todd. Mare foaled previous to January 1st, 1912: 1, Cruickston Farm, on Mary Regina by Mograzia. Mare foaled on or after January 1st, 1912: 1, Cruickston Farm, on Sheena Todd by Jim Todd; 2, Douglas & Sons, on Topsy Pointer by King of Monbars. a show the bre the aw

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THOROUGHBREDS .- Some well-known horses and a few new ones came forward in the class for aged Thoroughbred stallions. Joe. Nealon, a fleety horse which has raced his way from Vancouver to Guelph was chosen for first place. Nasbaden and Selwick, as usual, were close contestants. On this occasion Nasbaden was given preference over his competitor and Selwick went third.

Exhibitors.-A. E. Burrie, Guelph; John Coventry, Woodstock; F. V. Parsons, Guelph; Ronald Thayer, Aylmer; Wm. Lowes, Drayton; D. McCrae, Guelph; James Bovaird, Brampton; James Mc. Burney, Toronto; D. A. Boyle, Woodstock; E. B. Clancy, Guelph.

Awards .- Stallion foaled previous to January 1st, 1912: 1, Bovaird on Joe. Nealon by Kismet; 2. Thayer on Nasbaden by Nasturtium; 3, Mc-Burney on Selwick by Knight of the Thistle; 4, Currie on Charlie Gilbert by Masetto; 5, Lowes on Glimmer by Martimas. Mare foaled previous to January 1st, 1912' 1 and 3, Clancy on Carrillon by Chuctawunda, and Miss Morgan by St. Blaise; 2, Boyle on Cast Steel by Pontiac; 4, Coventry on Lady Roseberry Coventry by Cruicklade.

PONIES.—Coming as it did on Children's afternoon, the exhibition of ponies was very much appreciated by the juvenile audience. There is always considerable interest taken in these pet horses, while their diminutiveness makes them very attractive. In the Shetland stallion class two horses came forward, father and son, the elder being eighteen years old, the latter six months. Out of respect, perhaps, preference was given the aged horse. R. R. Ballagh & Son, Guelph, who exhibited these horses also showed the champion stallion which happened to be a cross between Shetland and Welsh pony.

Cattle.

BEEF CATTLE.

In the report of these classes last year we spoke rather disparagingly of the fit and fleshing of the entries but the classes as a whole were so well qualified to appear at any exhibition that we are obliged to commend the breeders, feeders and exhibitors on the high-class exhibit this year. The parade of beef cattle was perhaps the best ever seen at the Fair and no one could do otherwise than speak in appreciative tones of the cattle exhibit at the Guelph Winter Fair in 1914.

SHORTHORNS.

As usual the Shorthorns outnumbered other pure-bred classes, neither was their quality any less on account of numerical strength. The ani-60.8.1s w well fitted and the strong clas a showing quite in keeping with the popularity of the breed. Capt. T. E. Robson, of London, made the awards in all cattle classes.

THE FARMER'S ADVOCATE.

one year and under two. In the class for heifer, under one year, Lowe secured the first and second prizes and Bowman third. The champion animal of the breed was exhibited by Bowman.

GALLOWAYS.

This breed was represented by entries from the herd of Col. D. McCrae, Guelph. There being no competition, the prizes were awarded to the one exhibitor.

GRADES AND CROSSES.

These classes gave a strong impression of beef production from a broad view-point. It was not the breed that won, but the type, and onlookers could see as either Shorthorn, Angus or Hereford neared the honored end that type, and skillful care and feeding were responsible for quality rather than breed character. Hector, a junior yearling steer of Angus breeding which won honors as the champion butcher call for Lowe at the National Live Stock Show, at Toronto, last year developed into a steer good enough to win the championship of the grades and crosses, but he went down to defeat before Pritchard's Shorthorn. It was close, however, and at the Toronto Stock Yard show immediately after, the decision The entire show of grades and was reversed. crosses was good and the classes were well filled with numbers and quality.

Exhibitors.-T. A. Russell, Downsview; D. A. Graham, Wyoming; Adam A. Armstrong, Fergus; A. Barber, Guelph; John McLean, Seaforth; J. W. Duncan, Caledonia; Fred Armstrong, Rockwood; Kyle Bros., Drumbo; John Brown & Sons, Galt; H. E. Alton, Jr., Everton; Peter McLaren, Hillsburg; Henry Larter, Rockwood; Frank W. Smith & Son, Scotland; John Lowe, Elora; John Dickieson, Rockwood; James Leask & Sons, Seagrave; D. H. Jones, Elora; Daniel Wright, Ariss; J. P. Henderson, Guelph; Wm. Aitchison, Guelph; J. Elmer Woods, Lucknow; Geo. Ferguson, Salem; Chas. Mighton, Elora; Gardiner Wood. Rockwood; James Leslie, Acton; Jas. Page, Wallacetown; Jas. Cleghorn, Elora; John Wright, Elora; Geo. Amos & Sons, Moffat; Jas. Barbour Sr., Lucknow; Alex. Farquar, Elora; Wm. Fear, Blyth; Robert McQueen, Arthur; Thomas Forest, Guelph.

Awards.-Steer, two years and under three : 1, Russell; 2, 3 and 4, Barber; 5, Adam Armstrong. Senior yearling steer: 1, Kyle; 2 and 3, Barber; 4. Adam Armstrong; 5, Brown. Junior yearling steer: 1, Brown; 2 and 4, Leask; 3 and 5, Adam Armstrong. Senior steer call: 1, Leask; 2, Armstrong. Senior steer calf: 1, Leask; 2, Ferguson; 3, Adam Armstrong; 4, Henderson; 5, Lowe. Junior steer calf: 1, Cleghorn; 2, Adam Armstrong; 3, Wright; 4, Leask; 5, Page. Heifer, two years and under three: 1. Alton; 2, Kyle; 3, Adam Armstrong; Henderson 4. Farquar Yearling heifer: 1, Barber; 2, Leask; 3 and 4, Henderson; 5, Barbour. Heifer calf : 1, Lowe; 2, Leask; 3, Fear; 4, McQueen; 5, Forest. PURE-BREDS OR GRADES AND CROSS .-(Open only to amateurs).-Exhibitors.- Jas. Mc-Pherson & Sons, Dundalk; Wm, Argo & Sons, Guelph; Henry Larter, Rockwood; J. W. Duncan, Caledonia; Fred. Armstrong, Rockwood; J. & E. Ford, Fergus; Peter McLaren, Hillsburg; Jack Sullivan, Elora; J. W. Duncan, Caledonia; John Dickieson, Rockwood; Wm. Snell, ondesborough; A. R. Wood, Fergus; D. H. Jones, Elora; Wm. Aitchison; J. Elmer Woods, Lucknow; Wm. R. Hamilton, West Montrose; Chas. Mighton, Elora; Gardiner Wood, Rockwood; Jas. Leslie, Acton; Jas. Cleghorn, Elora; John Wright, Elora; Alex Farquar; Herb. Matthews & Sons, Meadowvale; Robt. McQueen, Arthur; Wm. Fear, Blyth; D. H. Jones Elora. Awards .- Two-year-old steer : 1, McPherson. Senior yearling steer: 1 and 2, Argo; 3, Larter; 4, Fred. Armstrong; 5, Duncan. Junior yearling Steer: 1, Wood; 2, McLaren; 3, Jones; 4, Sullivan. Senior steer calf: 1, Aitchison; 2, Snell; 3, Wood; 4, Mighton; 5, J. Woods. Junior steer calf: 1, Cleghorn; 2, Dickieson; 3, Wright; Two-year-old heifer : 1, Farquar. 4. Aitchison. Yearling heifer : 1, Dickieson. Heifer calf : Matthews; 2, Fear; 3, Cleghorn; 4 and 5, Mc-Queen.

Drummond cup winners in five Southdowns exhibited by Robt. McEwen, Byron, and three of them captured the Prince of Wales prize which this year was donated to the sheep department. John Kelly & Sons, showed the champion wether, a thick and firmly-fleshed sheep.

COTSWOLDS .- Exhibitors-G. H. Mark & Son, Little Britain; E. Brien & Sons, Ridgetown; Jas. A. Campbell, Thedford; Sam Dolson & Son, Nor-val Station; J. Lloyd-Jones, Burford.

Awards.-Ewe, under one year: 1 and 2 Campbell; 3 and 4, Brien. Three ewes under one year: 1 and 4, Campbell; 2, Brien; 3, Mark; 5, Dolson. Wether, one year and under two: 1, Dolson. Wether, one year and under two. 1. Mark; 2 and 4, Brien; 3, Dolson; 5, Campbell. Wether, under one year: 1, 3 and 5, Mark; 2 and Three methers under one year: 1, 4, Campbell. Three wethers under one year : 1, Mark, 2, Campbell; 3, Brien; 4, Lloyd-Jones; 5, Dolson. Champion Wether, Mark.

LINCOLNS .- Exhibitors .- H. Lee, Highgate; 1. Parkinson, Guelph; Peter A. McIntyre, Parkhill; John S. Gosnell & Sons, Highgate; Jos. Linden,

Denfield; John Kelly & Son, Shakespeare. Awards.—Ewe under one year: 1 and 4, Lee; 2, and 5, Gosnell; 3, Linden. Three ewes under one year : 1, Lee; 2, Gosnell; 3, Linden; 4, Park-inson: 5 McInture, Wather one year : 1, Lee; 2, Gosnen; 3, Linden; 4, Linder inson; 5, McIntyre. Wether, one year and under two: 1, Lee; 2 and 5, Linden; 3, Kelly; 4, Gos-nell. Wether under one year: 1, 8, and 4, Linden; 2, Parkinson; 5, Lee. Three wethers under one year : 1, Linden; 2, Lee; 8, Parkinson; 4, Gosnell. Champion wether, Lee.

LEICESTERS.-Exhibitors.-John Kelly & Son, Shakespeare; A. & W. Whitelaw, Guelph; Jas. Clark & Son, Morriston; Jas. Roy, Mitchell.

Awards .-- Ewe under one year : 1 and 4, White law; 2 and 3, Kelly; 5, Clark. Three ewes under one year : 1, Kelly; 2, Whitelaw; 3, Clark; 4, Wether, one year and under two: 1, Roy; Roy. 2 and 5, Kelly; 3 and 4, Whitelaw. Wether un-der one year: 1 and 4, Kelly; 2 and 5, White law; 3, Roy. Three wethers under one year': 1, Kelly; 2, Whitelaw; 3, Roy. Champion wether, Roy.

OXFORDS. - Exhibitors. - Glenn W. Witham, Villa Nova; Karl Broadfoot, Allenford, E. Barbour, Erin; J. A. Cerswell, Bond Head; Peter Arkell

Sons, Teeswater; W. E. Wright Sons, Teeswater; W. E. Wright Worth; A. T. Stevenson, Atwood. Awards.—Ewe under one year: 1, 2 and 4, Arkell; 3, Barbour; 5, Witham. Three ewes un-der one year: 1, Arkell; 2, Barbour; 3, Witham, A Cerswell; 5, Broadfoot. Wether, one year and A Cerswell; 5, Broadfoot. Wether, one year and 4, Cerswell; 5, Broadfoot. Wether, one year and under two: 1 and 2, Arkell; 8, Wright; 4, Steven-son: 5. Barbour. Wether under and son; 5, Barbour. Wether under one year : Barbour; 2 and 8, Arkell; 4, Stevenson; 5, Cers well. Three wethers under one year : 1, Arkell; 2, Barbour; 3, Cerswell; 4, Stevenson. Champi

The champion Shorthorn steer and grand champion fat animal of the show was exhibited by Pritchard Bros., Fergus, in the yearling class. The winner is a blocky steer, fairly low-set and evenly fleshed. He was sired by Royal Archer, and out of the Shorthorn cow, Molly.

Exhibitors.-T. A. Russell, Downsview; D. A. Graham, Wyoming; Jas. McPherson & Sons, Dundalk: Adam A. Armstrong, Fergus; John Brown & Son, Galt; A. Barber, Guelph; John McLean, Seaforth; R. F. Duncan, Caledonia; Wm. Argo & Son, Guelph; Henry Larter, Rockwood; Frank Smith & Son, Scotland; J. & E. Ford, Fergus; Pritchard Bros., Fergus; J. W. Duncan, Caledonia; Daniel Wright, Ariss; A. F. & G. Auld, Guelph; Kyle Bros., Drumbo; Herb. Matthews & Sons, Meadowvale; G. & W. Parkinson, Guelph; David Smith, Carluke; Wm. James Beatty, Guelph.

Awards.-Steer, two years old and under three 1, Barber; 2, Russell; 3, Brown; 4, McPherson; 5. Armstrong. Steer, one year and under two: 1, Pritchard Bros.; 2, Russell; 3, Barber; 4, Duncan; 5, Argo. Steer under one year: 1, Wright; 2, Duncan; 3, Smith; 4, Brown; 5, Graham. Heifer, two years and under three: 1, Kyle; 2, Auld; 3, Smith. Heifer one year and under two: 1, Auld; 2 and 3, Kyle; 4 and 5, Smith. Heifer under one year: 1, Parkinson; 2 and 3, Auld; 4 and 5, Smith.

HEREFORDS.

The representatives of the Hereford breed were aot so numerous as the Shorthorns but they were well prepared for the Show and made a far The stronger exhibit than they did last year. three exhibitors were James Page, Wallacetown; Adam A. Armstrong, Fergus; and Henry Reed, Orton.

Awards .- Steer or heifer, two years and under three: 1, Armstrong; 2 and 3, Page. Steer or heifer, one year and under two: 1 and 2, Page. Steer, under one year' 1, Page; 2 and 3, Reed. Heifer, under one year' 1, 2 and 3, Page. Champion animal: Page on a yearling heifer.

ABERDEEN-ANGUS.

Only two competitors brought forward any doddies. Jas. Bowman, Guelph, and John Lowe. Elora, exhibited in three classes. Lowe had the only steer one-year and under two, while Bowman secured the money in the class for steer or heifer.

EXPORT STEERS .- Five trios of export steers lined up for inspection with many good individuals amongst them. John McLean, Seaforth, was honored with the red ribbon on three fresh steers just in prime. A. Barber, of Guelph, had two entries, one set of which were considered for first place, but they were not so strong nor considered to possess all the requirement of export steers seen in prize winners. T. A. Russell. Downsview, had the fourth prize trio, and Adam Armstrong the fifth.

Sheep.

The sheep exhibit at the Guelph Winter Fair has never surpassed that put up this year, and it has not been equalled for a good many years. There was an excellent exhibit of Oxfords, which made a stronger showing than usual. Hampshires were good, Leicesters on an average with other years, while the Lincolns made a strong show. uniformity and quality the Southdowns probably put up a stronger exhibit than any other breed. This class of sheep contributed the For

wether, Arkell & Sons.

SHROPSHIRES. - Exhibitors. - J. & D. J. Campbell, Woodville; Ernest Fleming, Tara; John B. Kelsey, Woodville; J. E. Brethour & Nephewark Burford; J. Lloyd-Jones, Burford; J. W. Spring stead & Sons, Abingdon; Peter Arkell & Sons, Teeswater; W. G. Wright & Son, Glanworth.

Awards.—Ewe under one year: 1, 3 and 4, Campbell; 2, Brethour. Three ewes under one year: 1 and 3, Campbell; 2, Brethour; 4, Flem-ing; 5, Kelsey. Wether one year and under two: Wright; 2, Arkell; 3, Springstead; 4, Campbell; Kelsey. Wether under one year: 1, Lloyd-5. Kelsey. 1, Lloyd Jones; 2 and 3, Brethour; 4, Campbell; 5, Kelsey Three wethers under one year : 1, Brethour: 2 Lloyd-Jones; 3, Campbell; 4, Kelsey. Champion wether, J. Lloyd-Jones.

SOUTHDOWNS.-Exhibitors.-Robt. McEwen, Byron; J. W. Springstead & Sons, Abingdon; Hampton Bros., Fergus; Geo. Baker & Son, Bur-ford; J. Lloyd-Jones, Burford; D. A. Graham, Wyoming; S. Lemon, Kettleby; Peter Arkel Sons, Teeswater; Geo. L. Teller, Paris.

Awards.-Ewwe under one year : 1, 2 and 8, McEwen; 4, Hampton Bros. Three ewes un one year: 1, McEwen; 2, Hampton Bros; Three ewes under Springstead; 4, Baker; 5, Lloyd-Jones. Wether one year and under two: 1, 4 and 5, McEwen; 3, Springstead; 3, Arkell. Wether under one year: and 3, McEwen; 2 and 4, Hampton Bros; Springstead. Three wethers under one year: 1 McEwen; 2. Hampton Bros.; 8, Springstead ; Telfer; 5, Baker. elfer; 5, Baker. Champion wether, McEwen. DORSET HORNS.-Exhibitors.-W. E. Wright

Son, Glanworth; Jas. Robertson & Sone, Hornby.

Awards.-Ewe under one year: 1 and 3 Robertson; 2, 4 and 5, Wright. Wether one year Wether one year and under two: 1, 2 and 4, Wright; 3, Robertson; Wether under one year: 1, 2 and 4, Robertson; 3 and 5, Wright. Three wethers under one year: 1, Robertson; 2, Wright. Champion wether, Wright.

HAMPSHIRES AND SUFFOLKS .- Exhibitors. -Geo. Henderson, Guelph; John Kelly & Son, Shakespeare; Geo. L. Telfer, Paris; Jas. Bowman;

Awards.-Ewe under one year: 1, 2 and 5, Kelly; 3 and 4, Telfer. Wether one year and un-der two: 1, Kelly; 2, Bowman; 3, Henderson. Wether under one year: 1, 4, and 5, Kelly 2 and 3. Bowman. Three wethers under one year : 1, Kelly. Champion wether, Kelly & Son.

GRADE OR CROSS .-- Exhibitors .- E. Brien &

Son, Ridgetown; John Kelly & Son, Shakespeare; A. & W. Whitelaw, Guelph; H. Lee, Highgate; John S. Gosnell & Son, Highgate; Jos. Linden, Denfield; L. Parkinson, Guelph; Jas. A. Campbell, Thedford; Jas. Roy, Mitchell; J. Lloyd-Jones, Burford; J. & D. J. Campbell, Woodville; John R. Kelsey, Woodville; W.E. Wright & Son, Glanworth; S. Lemon, Kettleby; J. A. Cerswell, Bond head; Geo. Baker & Son, Burford; D. A. Graham, Wyoming; Geo. L. Telfer, Paris; J. W. Springstead & Son, Abingdon; Jas. Robertson & Sons, Hornby; Jas. Bowman, Guelph; Peter Arkell & Sons, Teeswater.

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Awards .- (Long Wooled Breeds) .- Wether one year and under two: 1, Linden; 2, Gosnell; 3 and t, Lee; 5, Whitelaw. Wether under one year: 1 and 3, Parkinson; 2, Kelly; 4 and 5, Linden. Three wethers under one year : 1, Parkinson; 2, Linden; 3, Kelly; 4, Whitelaw; 5, Lloyd-Jones.

Champion wether, Linden. (Short Wooled Breeds).-Wether one year and under two: 1, Kelly; 2, Lloyd-Jones; 3 and 5, Campbell; 4, Kelsey. Wether under one ; 8 and 5, Arkell; 2, Telfer; 4, Robertson. Wether under one year : 1, Three wethers under one year : 1, Arkell; 2, Campbell; 8, Kelsey; 4, Lloyd-Jones; 5, Wright.

Champion wether over all-breeds, grade and cross, Kelly & Sons.

Dressed Carcasses.

COTSWOLD.-Wether one year and under two: L and 2, Brien; 3, Dolson. Wether under one year: 1, Jas. Campbell; 2, Lloyd-Jones; 3 and 6, Brien; 4, Dolson.

LINCOLNS .- Wether one year and under two : 1 and 2, Linden; 3, Lee. Wether under one year: 1, Parkinson; 2, Gosnell; 3, Linden; 4 and 5, Lee.

LEICESTERS.-Wether one year and under two: 1, Whitelaw. Wether under one year : 1, Kelly; 2, Roy; 3, Whitelaw.

OXFORDS.-Wether one year and under two : Cerswell; 2 and 3, Stevenson; 4, Barbour; 5, Wether under one year: 1 and 2, Wright. Stevenson.

SHROPSHIRES .- Wether, one year and under two: 1, Springstead; 2, 3 and 4, Lloyd-Jones; 5, Kelsey. Wether under one year: 1 and 2, Brethour; 3 and 5, Kelsey; 4, Lloyd-Jones.

SOUTHDOWNS .- Wether, one year and under two: 1 and 2, McEwen; 3, Baker & Sons; 4, Lemon; 5, Lloyd-Jones. Wether under one year: 1, McEwen; 2, Springstead; 3, Baker; 4, Telfer; 5. Llovd-Jones.

DORSET HORNS .- Wether, one year and under two: 1, 3 and 4, Wright; 2, Robertson. Wether under one year: 1 and 3, Wright; 2, Robertson.

HAMPSHIRES AND SUFFOLKS .- Wether one year and under two: 1, Henderson. Wether under one year: 1, Kelly; 2, Henderson.

Grades or crosses were exhibited by Wm. Murdock, Jos. Featherston & Son, John Duck, A. Stevenson, D. De Coursey, D. Douglas & Sons. Sam Dolson & Son, J. S. Cowan, Pritchard Bros., and D. Lerch, Preston. The awards in the various classes were placed by D. C. Flatt. Hamilton, on Yorkshires and Grades or Crosses: H. B. Jeffs, Bond Head, on Berkshires; J. C. Nichol, Wilton Grove, on Tamworths; J. D. Brien, Ridgetown, on Chester Whites; and S. Dolson, Norval Station, on any other pure-breds.

Awards.-YORKSHIRES-Barrow, 6 months and under 9: 1, Featherston; 2 and 3, Duck; Stevenson. Barrow under 6 months: 4. 1. Featherston; 2, Brethour; 3, Stevenson 4, Wilson. Sow, 9 months and under 15: 1, Featherston; 2 and 4, Stevenson; 3, Duck. Sow, 6 months and under 9: 1 and 3, Brethour; 2 and 4, Duck. Sow under 6 months: 1, Murdock; 2, 3 and 4, Brethour. Litter of 3: 1 and 3, Brethour; 2, Duck. Champion barrow, Featherston; champion sow, Featherston; best barrow and best sow exhibited by an amateur, both went to A. Stevenson.

BERKSHIRES .- Barrow, 6 months and under 9: 1, McEwen; 2, 3 and 4, Dolson. Barrow under 6 months: 1 and 2, McEwen; 3, Cowan; 4, Dolson. Sow, 9 months and under 15: 1, Dolson; 2, McEwen; 3, Thompson; 4, Cowan. Sow, 6 months and under 9: 1 and 3, Thompson; 2, McEwen; 4, Cowan. Sow under 6 months: 1 and 2, Cowan; 3 and 4, McEwen. Litter of 3: 1 and 3, McEwen; 2, Cowan. Champion barrow, McEwen; champion sow, Thompson.

CHESTER WHITES .- Barrow, 6 months and under 9: 1 and 3, Wright; 2 and 4, De Coursey. Barrow under 6 months : 1 and 2, De Coursey; 3 and 4, Wright. Sow, 9 months and under 15: 1 and 3, De Coursey; 2, Wright. Sow, 6 months and under 9 : 1 and 2, Wright; 3 and 4, De Coursey. Sow under 6 months: 1 and 4, De Coursey; 2 and 3, Wright. Litter of 3: 1, Wright; 2 and 3, De Coursey. Champion barrow, Wright; champion sow, De Coursey.

GRADES OR CROSSES .- Barrow, 6 months and under 9: 1, Duck; 2, Dolson; 3, Featherston; 4. Stevenson. Barrow under 6 months: 1, Dolson; 2, Douglas; 3, Pritchard Bros.; 4, Murdock Sow, 6 months and under 9: 1, Douglas; 2, Dolson; 3, Featherston; 4, Lerch. Sow under 6 months: 1, Cowan; 2, De Coursey; 3, Dolson; 4, Murdock

SPECIALS for best barrow of any breed and best sow of any breed, offered by the Caldwell Feed Co., of Dundas, went, on barrow to John

Duck, and on sow to Jas. Featherston & Son. SPECIAL from Waterloo County for best bacon hog shown by an amateur, was won by D. Lerch, of Preston; and same special from mbton County went to P.J. McEwen, of Wyoming

general quality of the exhibit pleased poultrymen greatly, and credit must be given the Secretary, the Directors representing the poultry interests and those donating special prizes, for the high quality of the exhibition. It was a good object lesson in dressing and packing fowl, and visitors were shown what a really well-finished bird should look like, and how they should be prepared and packed for market either close by or remote.

FOUNDED 1866

To give our readers some idea of the comparative size of the exhibits of the different breeds and classes, we may say that in White Wyandottes there were 44 cocks, 43 hens, 66 cockerels, and 63 pullets; in Barred Rocks there were 39 cocks, 38 hens, 47 cockerels and 52 pullets; in Rose Comb Rhode Island Reds there were 22 cocks, 20 hens, 21 cockerels, and 42 pullets; in single Comb Rhode Island Reds there were 15 cocks, 21 hens, 28 cockerels, 29 pullets; White Rocks were strong with 18 cocks, 22 hens, 23 cockerels and 24 pullets; in single comb White Leghorns there were 26 cocks, 35 hens, 48 cockerels, 42 pullets, while in Brown Leghorns, single comb, there were 19 cocks, 25 hens, 27 cockerels and 28 pullets; Buff Orpingtons were weak, only 8 cocks, 12 hens, 8 cockerels, and 8 pullets being forward. The black and white varieties of Orpingtons were just a shade stronger numerically than the Buffs. Rose Comb White Leghorns were a weaker class than usual, but Anconas were good, 12 cocks, 15 hens, 20 ccckerels, 26 pullets being forward; Minorcas, single combed black, had 18 cocks, 28 hens, 26 cockerels, and 23 pullets, while Andalusians had 40 birds.

All the Asiatic breeds of poultry were well represented and fully up to last year's show.

Turkeys and water fowl made an especially strong exhibit. There were about 80 turkeys in the crates and 56 geese. In Indian Runner Ducks alone there were 54 entries.

Taken all around the poultry breeders were exceedingly well pleased with the outcome of this year's exhibition.

Judges-H. Schwab, Irondequoit, N. Y.; Geo. Henderson, Hamilton; Jas. A. Tucker, Concord, Mich.; Richard Oak, London; Geo. Robertson, Ottawa; Jos. Bennett, Toronto; Wm. McNeil, London; W. C. Baldwin, Ottawa; L. G. Jarvis, Grimsby; C. F. Wagner, Toronto.

Toronto Junction Fat Stock Show.

To demonstrate to producers and shippers of market cattle, sheep and swine, that it pays to breed the kind of stock the market demands, and to give them the best care and feed so as to com-

DECEMP

\$50.00 (Toronto champion

> This load of won firs der 1,25 for "Car weighing Blackwel horns, w won priz unusual

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Armstro 4, J. A. steer, on Bros. F can Bros steer un Ouncan] land: 4. fat heifer Armstron der one David Sn two yea: Russell: Barber. and unde Jas. Le **Kyle Bro** under on strong; § H. Wade years an ton; 2, 1 Centralia years and A. Wh Grade or der two : Cross; 4 heifer, un & Sons; steers, 1 2 and fifteen st Son; 2, 1 Special, horns, we & Son. weighing Son. steers or ach: 1, Ca don. M. Thom Black. without] White. and unde J. D. Fe Stanley. one year son, Guel fifty fat s lot, fifty Ferguson J. D. Fer dago; 3, ewes, one Baker, Bu of three W. Spring ville; 3, 1, John H lot, fifty guson & R. Cowa Special : Baker; 3, bacon typ ston, Str 4, C. B. Competiti 170-225 m A. Gooda lar. Far type, 170 . Boynte 225) Ibs. Special, I exhibitor, Downsview Pefferlau. lbs.: 1, G Jones, E Wade, Pi average 1 carload fi Weights load fifty weights : At the onto June was bourt 10., others cwt.

or Cross sired by ram of long-wooled breed .- Wether, one year and under two: Brien; 2, Gosmell; 3, Linden; 4, Whitelaw. Wether under one year: 1, Whitelaw; 2, Linden; 3, Whitelaw; 4, Lloyd-Jones; 5, Roy.

Grade or Cross sired by ram of short-wooled breed.-Wether, one year and under two' 1, Lloyd-Jones; 2, Baker; 3, Wright; 4, Lemon; 5, Cerswell. Wether under one year: 1, Wright; 2, Graham; 3 and 5, Kelsey; 4, Telfer.

The judges of the various breeds were : Cotswolds, Chas. Jas. Douglas, Chas. Shore, Glanworth; Leicesters, Jas. Douglas, Caledonia ; Lincolns, Harry Gibson, Denfield; Oxfords, W. H. Beattie, Wilton Grove; Shropshires, Hampshires and Suffolks, H. Noel Gibson, Far Hill, N. J.; Southdowns, J. C. Duncan, 'Lewiston, N. Y.; Dorset and Short Wooled Grades, R. H. Harding, Thorndale; Long Wooled Grades, Jas. Douglas; Sheep, Carcasses, Geo. Morris, London.

Swine.

Taken as a whole the exhibit of swine left tittle to be desired. In numerical strength it was about up to that of several former years, and the quality generally was never better. Yorkshires were out in greater numbers than probably ever before, the exhibitors being, Wm. Murdock, Palmerston; Jos. Featherston & Son, Streetsville; John Duck, Port Credit; A. Stevenson, Atwood; J. E. Brethour & Nephew, Burford, and Matthew Wilson, Fergus.

Berkshires have been out in considerably larger numbers than this year, but were never better in modern type and quality. They were exhibited by J. S. Cowan, Atwood; Sam Dolson & Son, Norval Station; P. J. McEwen, Wyoming, and Adam Thompson, Stratford.

Tamworths were exhibited by D. Douglas & Sons. Mitchell, without competition. Interest at the judging ring was not much in evidence, although the entry was one of exceptional merit.

Chester Whites were exhibited by D. De Coursey, Mitchell, and W. E. Wright & Son, Glanworth: two breeders whose entries have for several years past fought for subremacy at all the leading Ontario shows, and always with welldeserved interest owing to the close decisions their judges have to make.

Any other pure breed was represented by an extensive and high quality exhibit of Hampshires from the herd of Hastings Bros., Crosshill.

EXPORT BACON HOGS .- The entry in both the pure-bred and grade classes was a large one, and while the quality all through was up to a fair standard, some previous years have seen an all-round better finish and uniformity. Some easy tops very much lightened the task of the Flatt and J. C. Nichol. The judges, D. C. awards for two pure-breds were: 1, 4, and 8, Brethour; 2, 3 and 9, Duck; 5, Stevenson; 6, Douglas; 7, Murdock; 10, Featherston. Two grades or crosses: 1 and 3, Duck; 2, Brethour; 4 and 6, Cowan; 5, Wilson; 7, Featherston.

Poultry.

The Ontario Provincial Winter Fair is the final round-up of poultrymen, particularly for Western Ontario. It is always a strong show, but we are safe in saying that never before has this year's show been equalled. There have been larger numbers, but not so high quality. The entry list comprised this year close to 5,000 birds, and the general average of quality was higher than it has ever been at this or any other exhibition of its kind held in Canada. feature of the general-purpose classes was the strong exhibit of White Wyandottes, over 200 birds of this class being in the crates. They The most striking were the strongest class of the show, and from their number came the champion bird over all breeds and ages, being a cockerel shown by Sid. Saunders, of Ingersoll. He was truly a wonder-ful bird, but he must have been closely pushed for the highest award by the most phenomenal female of the feathered tribe we have ever been privileged to look upon, this being a Buff Cochin hen from the Holmhurst Poultry Yards, Whitby, She was the biggest, most uniform and best all-round hen we have ever seen. Barred Rocks were as usual a very strong class, both numerically and qualitatively. White Leghorns made their usual strong showing. There was a falling off in Rhode Island Reds and Orpingtons. The exhibit of dressed poultry was a feature of the show. While there were very few more entries than a year ago the quality was very markedly in advance of the showing made at that time. Particularly was this true in the cases, pairs, and special classes for untrussed birds, the latter being a new feature at the fair this year. There were approximately 230 entries in dressed poultry alone, 78 being forward in the pairs. The

mand the highest price when sold, was the object that actuated the management of the Union Stock Yards at West Toronto and decided them to action in the inauguration of the Toronto Fat Stock Show five years ago, a show that in the short space of five years has far outstripped all competitors in the matter of number of entries, and is already recognized as the final battleground of the year where the finished products from the hand of the master fitters and feeders meet in the last great struggle for supremacy. Stronger, bigger and better than ever before, with an entry showing a better balance of fleshing and quality, was the unanimous opinion voiced by many of the large attendance this year. One thing noticeable in the awards of the judges that would appear to be of more than passing interest to farmers generally, was the marked preference shown to a lighter class of cattle. The trade of to-day does not favor the heavy-weight steer, and excepting for export purposes, he is a thing of the past among Canadian dealers. Another feature of the show that is becoming more popular every year is the Poultry Division, its popularity and interest increasing as the object for which it is held becomes more generally known. It is strictly an amateur show, and is confined to entries of employees of the Stock Yards, the Abattoirs and the Railway employees whose services are in and around the Stock Yards. The show this year was a most creditable one. The entry was larger and the quality high. This feature of the show looks like developing into one of the most important poultry shows of the Province. The total entry this year for competition was, cattle, 1,099; sheep, 722; swine, 850; of single entries in the cattle classes there were 179; of these 37 were pure-breds and only 7 of them females.

The grade steer "Hector," owned by John Brown & Sons, of Galt, Ont., was the winner of the grand championship over "Dandy," the purebred Shorthorn which was champion at Guelph. "Hector" is a cross-bred steer, bred by John Lowe, of Elora, and was champion butcher's calf at the big National Show held in Toronto in the fall of 1913. His weight is 1,510 lbs., calved January 20th, 1913, sired by "Hundred," a registered Polled Angus bull-dam, a grade Shorthorn cow.

This steer's winnings at the Toronto Fat Stock Show amount to \$120.00, as well as a

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\$50.00 gold watch, which was presented by the **Toronto World to the herdsman** feeding the grand **champion** steer—in this case John A. Brown, Jr.

This firm of feeders also exhibited a mixed toad of pure-bred and grade Shorthorns, which won first in class—"Carload of fifteen steers under 1,250 pounds," also Harris Abattoir Special for "Carload of fifteen steers, without horns, weighing under 1,300 pounds," and Matthews-Blackwell Special for "Ten best steers, without horns, weighing under 1,150 pounds." This lot won prize money amounting to \$700.00, a most unusual showing.

Awards .- Grand champion steer, John Brown & Sons, Galt. Pure-bred steer, two years and under three: 1, A. Barber, Guelph; 2, A. A. Armstrong, Fergus; 3, T. A. Russell, Downsview; 4, J. A. Ferguson & Sons, Mapleton. Pure-bred steer, one year and under two: 1, Pritchard Bros., Fergus; 2, Jas. Bowman, Guelph; 3, Duncan Bros., Caledonia; 4, T. A. Russell. Pure-bred steer under one year: 1, A. White, Guelph; 2, Duncan Bros.; 3, Wm. Marquis & Sons, Sunderland; 4, Alex. Young, Mount Hope. Pure-bred fat heifer, two years and under three : 1, John Armstrong, Belgrave. Pure-bred fat heifer, un-der one year: 1, R. J. Black, Fergus; 2 and 3, David Smith, Carluke. Grade or Cross-bred steer, two years and under three: 1 and 2, T. A. Russell; 3, J. J. Reid, Teeswater; 4 and 5, A. Barber. Grade or Cross-bred steer, one year and under two : 1, John Brown & Sons; 2 and 5, Jas. Leask & Sons, Seagrave; 3, A. White; 4, Kyle Bros., Drumbo. Grade or Cross-bred steer, under one year: 1, R. J. Black; 2, A. A. Armstrong; 3, D. Munroe, Pickering; 4, A. White; 5, H. Wade. Grade or Cross-bred fat cow, three years and over: 1, F. C. Willmott & Son, Milton; 2, M. Thomson, Chesley; 3, B. E. Hicks, Centralia-Grade or Cross-bred fat heifer, two years and under three : 1, H. R. Cross, Beeton; 2, A. White; 3, Kyle Bros.; 4, A. A. Armstrong. Grade or Cross-bred fat heifer, one year and under two: 1, A. White; 2, A. Barber; 3, H. R. Cross; 4, A. White. Grade of Cross-bred fat heifer, under one year: 1, A. White; 2, Jas. Leask & Sons; 3 and 4, Andrew Hicks. Carload fifteen steers, 1,250 lbs. and over : 1, A. Barber, Guelph; 2 and 3, J. D. Ferguson & Sons. Carload 2 and 3, J. D. Ferguson & Sons. fifteen steers, under 1,250 lbs. : 1, John Brown & Son; 2, R. J. Black; 3, J. D. Larkin, Queenston. Special, best carload fifteen steers, without horns, weighing under 1,300 lbs. : 1, John Brown & Son. Special, ten best steers, without horns, weighing 1,150 lbs. or under: 1, John Brown & Son. Special, carload twenty feeder cattle, steers or heifers, without horns, under 1,050 lbs. ach: 1, R. J. Black, Fergus; 2, John Hall, Lon Carload fifteen heifers, average weight : 1, M. Thomson, Chesley; 2, A. White; 3, R. J. Black. Special, carload fifteen butchers' heifers, without horns, each 1,100 lbs. and under: 1, A. White. Pen of three, wethers or ewes, one year and under two: 1, John Houston, Chatham; 2, J. D. Ferguson & Sons; 3, C. F. Jackson, Port Stanley. Pen of three, wethers or ewes, under one year : 1, J. W. Elliott, Varna; 2, L. Parkinson, Guelph; 3, J. D. Ferguson & Sons. Car lot, fifty fat sheep: 1, John Houston, Chatham. Car lot, fifty lambs, wethers or ewes: 1, J. D. Ferguson; 2, A. Barber. Farmers' Special: 1, J. D. Ferguson & Sons; 2, Geo. Simpson, Onondago; 3, L. Parkinson. Pen of three wethers or ewes, one year and under two: 1 and 2, J. S. Baker, Burford; 3, J. Lloyd-Jones, Burford. Pen of three wethers or ewes, under one year : 1, J. W. Springsted, Abingdon; 2, D. Ranley, Cains-ville; 3, J. D. Ferguson. Car lot, fifty fat sheep: 1, John Houston; 2, J. D. Ferguson & Sons. 'Car lot, fifty lambs, wethers or ewes: 1, J. D. Fer-guson & Sons; 2, C. F. Jackson, Port Stanley; 3, R. Cowan & Brown & Son, Galt. Farmer's Special: 1, J. W. Springsted, Abingdon; 2, J. S. Baker; 3, E. Burt, Paris. Pen, three barrows, bacon type, 170-225 ibs.: 1 and 3, J. K. Featherston, Streetsville; 2, Leo. Chard, Lambton Mills; 4, C. B. Boynton, Dollar. Boys Hog Feeding Competition, pen of three barrows, bacon type, 170-225 lbs.: 1, Geo. Williams, Streetsville; 2, J. A. Goodall, Jr., Belwood; 3, C. B. Boynton, Dol-lar. Farmer's Special, pen three barrows, bacon type, 170-225 Ibs.: 1, J. A. Goodall, Jr.; 2, Boynton. Special, pen three barrows, 170-225 nos. : 1, Farmer's J. K. Featherston. Special, pen of ten hogs, bred, fed and owned by exhibitor, 170-225 Ibs.: 1, W. B. Harrison, Downsview; 2, J. K. Featherston; 3, J. T. Broad, Pefferlau. Pefferlau. Carload, fifty bacon hogs, 170-225 bs.: 1, Graham & Merrick, Pefferlau; 2, D. H. Jones, Elora; 3, W. Revington, Lucan; 4, H. Wade, Pickering. Carload, fifty bacon hogs, Wade, Pickering. average 170-225 : 1, Graham & Merrick. Special, carload fifty bacon hogs, 160-190 lbs., individual weights: 1, Graham & Merrick. Special, car-load fifty bacon hogs, 170-200 fbs., individual weights: 1, Graham & Merrick.

THE FARMER'S ADVOCATE.

The Maritime Winter Fair.

The fourteenth annual Maritime Winter Fair was held in Amherst on Dec. 7, 8, 9 and 10, and was a great success. In many respects the exhibits were superior to any former show.

The Dairy Test has always been a strong feature of the Maritime Fair, but this year's show was far ahead of any former exhibit. There were ninety-nine cows in the test, and scarcely any in the lot but what a dairyman would be proud to Samuel Dickey & Sons, of Onslow, N. S., own. are justly proud of their Holstein cow "Miss Sa Handa," a cow of their own breeding a cow of their own breeding and a typical Holstein in form; her yield of milk in the three days was 273.8 lbs., containing 10.51 lbs. of fat, making a score of 332.57 points, which beats the world's records of three day tests by about 16 points. The great achievement of this cow makes all Maritime Province dairymen proud of her, and shows the world that we have not been wrong in claiming that the provinces by the sea are well suited for successful dairying, and that we are getting some of the best stock that money can buy. Messrs. Dickey also won first on three-year-olds and championship for best three-year-old of any breed on "Cobequid Polly Lass' with 195.8 lbs. milk. 7.10 lbs. fat, and a score of 227.58.

Wm. Harding, of Welsford, N. B., showed four young Holsteins, all of which are good workers, winning third on three-year-old cow, and second, third and fourth on yearlings.

T. W. Keilor, of Amherst Pt., N. S., showed one Holstein three-year-old and a fine lot of grade Holsteins, and won first on grade cow in he aged cow class, making 250.6 lbs. milk, 6.83 Ibs. fat, total score 228.20; and also second in same class, there being only three onethe hundredths of a point between the first and second- prize cows. Courtney Sushy, of West Amherst, a young man and a new exhibitor, showed a good large two-year-old grade Holstein, and won fourth in a hard class; second and third in this class were won by W. N. Boomer on Holstein heifers. Lee & Clarke, of Victoria, P. E. I., showed three Holsteins. all of which are good workers. R. S. Hicks, of Delhousie Jct., N. B., has four young Holsteins, winning third on three-year-old, and second, third and fourth on yearlings. Stanley A. Logan, of Amherst Pt., showed two Holstein cows and two yearlings, winning first and third on yearlings; the first yearling making 162.4 lbs. milk, 5.44 lbs. fat, and a score of 175.3 points.

Guernseys were shown by H. A. Dixon, of On-slow, and D. G. McKay & Son, of Scotsburn. Dixon winning third on cow, first on yearling with 83.9 lbs. milk, 3.58 lbs. fat and 112.09 points; first on two-year-old Guernsey with 126.2 lbs. milk, 6.6. lts. fat and a score of 184.53, also third on Guernsey cow and first on grade two-year-old, with a high-grade Guernsey making 112.7 lbs. milk, 4.84 lbs. fat, and a score of 151.6 points. D. G. McKay & Son, of Scotsburn, N. S., showed five Guernseys, and won first in the aged cow class on "Ruby," making 143.7 Tbs. milk, 7.3 lbs. fat and a score of 214.15 points; also winning second in this class on "Flora's Heiress." Messrs. McKay also won first in the three-year-old class with "Rosie," making 120.8 lbs. milk, 4.98 lbs. fat and scoring 156.78 points. H. S. Pipes & Son, of Amherst, showed a beautiful string of fourteen Jerseys, most of which were winners at the fall shows, thus demonstrating the fact that a typical Jersey can be a producer. J. E. Baker & Son, of Barronsfield, N.S., won first on aged Jersey cows, making 107.6 Ibs. milk, 5.86 lbs. fat and scoring 174.42 points, also first on three-year-olds, making 103.8 lbs. milk, 5.14 lbs. fat and scoring 156.88 points, and first on two-year-old Jersey, making 98.8 lbs. milk, 4.92 lbs. fat and scoring 151.5 points. J. R. Semple, of Brule, N. S., showed two grades and three Jerseys, winning first on yearling grade making 67.5 lbs. milk, 3.82 lbs. fat and scoring 114.4 points. Mr. Semple also won three second prizes on his Jerseys. A. McRae & Sons, of Charlettetown, P. E. I., showed a fine string of Ayrshires, most of which were prize winners at the fall shows, and the cow that won first place in the test as a three-yearold was also first in her class at St. John and female Ayrshire, champion at Charlettetown. She made in this test 144 lbs. milk, 5.84 lbs. fat, scoring 188.8 points. McRae also won first on twoyear-old, making 104 lbs. milk, 4.57 lbs. fat and scoring 141.67. John Retson, of Truro, N. S., showed an aged cow and a two-year-old of the good, deep-bodied, heavy-milking kind; George Retson, of Brookside. N. S., an aged cow, a two-year-old, and a threeyear-old, all of which made good records. Mc-Intyre Bros., of Sussex, N. B., won first on aged cow, with "'Mona D." making 163.8 lbs. milk, cow, with 6.5 lbs. fat, and scoring 205.86, and first on yearing making 98 lbs. milk, 3.67 lbs. fat and scoring 117.43. Shorthorns were shown by J. McCully Pipes, Nappan; Alfred Johnson, Truro; Geo. M. Holmes: Amherst; Arthur Etter, Westmorland Point, and Charles Etter, of Westmorland Point.

In the beef cattle class the exhibits were superior to last year, both in number and qual-Forrest Bros., of Amherst Point, showed a ity. fine row of Herefords, Shorthorns and grades that were a credit to any stockman and were brought out in good condition. In the class for Herefords, Polled Angus and Galloways, Forrest Bros. won the majority of the red ribbons, divid-ing honors with J. M. Laird & Son, of Kelvin Grove, P. E. I., who showed a really good lot of Polled Angus, low-set, thick-fleshed and brought out in splendid fit. In aged cows Laird won first and third, Forrest second and fourth; in twoyear-olds Forrest won first and third, Laird second; in senior yearling the order was the same, and in junior yearling heifer Laird won first and In the grades of any breed Forrests won second. a large share of the prizes.

Shorthorns were shown by Harold Etter, Hazen Etter, C. H. Angus, of Carrington, N. S.; R. A. Snowball, Chatham, N. B.; Geo. M. Holmes, Amherst; Demont Freeman, Amherst, and Geo. A. Black, of Westmorland Point. The sweepstakes for best Shorthorn any age went to R. A. Snowball, on a beautiful roan two-year-old heifer, with Harold Etter's cow a good second. Harold Etter showed seven Shorthorns, two Herefords and three grades, and won first on aged Shorthorn cow, first on senior yearling heifer, and second and third on two-year-old heifer.

Arthur Etter and Hazen Etter, of Westmorland Point, were among the exhibitors of grade beef cattle, and carried away a goodly number of the red ribbons and the special given by the Shorthorn Breeders' Association for the best steer sired by a Shorthorn bull.

Edward Anderson, of Sackville, N. B., showed Herefords and grades, and had some really good stock. Geo. A. Black, of Westmorland Point, a beginner, showed a good Shorthorn cow and a junior yearling.

The show of sheep was ahead of last year, both in numbers and quality. The principal exhibitors were I. J. Stewart, of Amherst Point, with Shropshires and grades, winning a big share of the ribbons and the specials for best four lambs, the N. B. Fence Co's. special for best four wethers, and the Royal Bank special for best lamb, shearling and two-year-old ewe. J. E. Baker & Sons showed a fine flock of Oxfords, and a few good Southdowns. George Boswell, of P. E. I., showed Shropshires and grades; C. W. Pugsley, of Barronsfield, showed Lincolns, some extra good ones, and brought out in good condition. Oliver Saunders, P. E. I., showed Southdowns; Albert Boswell, of P. E. I., showed a splendid flock of Leicesters brought out in very

At the sale of fat stock exhibited at the Toronto Junction Show, Hector, the winning steer, was bought by the T. Eaton Co., at 25 cents per b., others sold at from \$12.50 to \$16.00 per cwt. good form.

The show of hogs was, from a bacon hog standpoint, the best ever put on in the Maritime Provinces; most of the classes were well filled and required the greatest care on the part of the judge to determine where the awards should be placed. A large proportion of the entries were from P. E. Island, though J. R. Semple, Brule; J. I. Stewart, Amherst Point; the Messrs. Etter, of Westmorland Point, and others gave their Island competitors all the competition they wanted in some of the classes. The dressed competition was not quite as large as former years, but the quality, especially of the hog carcasses, was the best ever shown.

The show of poultry was immense, there being about two thousand birds of all classes. Wyandottes and Plymouth Rocks predominated, but there was a large show of Leghorns, Dorkings and Rhode Island Reds. The show of ducks, geese and turkeys was fully up to former years, and the display of dressed poultry, while not up to the last two years, made an interesting part of the show.

The exhibit of the Department of Agriculture, showing the right and wrong way of candieing and marketing eggs, added to the interest of the show, and gave a good deal of valuable information to exhibitors and spectators.

The exhibit of seed grains and potatoes was very much larger and better than ever before. The past season was a good one for Maritime farmers, and the quality of the grain showed it:

The display of fruit was not quite so large as in former years, but the quality of what was shown was extra good.

The wool exhibit put on by the Department of Agriculture was interesting and instructive.

The evening addresses were of high order, especially those of Dr. C. C. James and Prof. Cumming.

The attendance from outside points was better than ever, but that of the people of the town of Amherst was not quite so large as usual, and although the weather was generally fine and the roads good the total attendance was rather below that of some former shows. C. H. B.

The grain exhibit at Guelph was one of the best ever seen at the Fair. Space does not permit of a resume of the classes this week, but a full account will be given next week in our Farm Department.

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Toronto, Montreal, Buffalo, and Other Leading Markets. Toronto.

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Receipts at Union Stock-yards, West Toronto, on Monday, Dec. 14, were 176 cars, comprising 3,789 cattle, 911 hogs, 788 sheep and lambs, 229 calves, and 38 The supply of cattle was far horses. greater than the demand, and prices were fully 25 cents per cwt. lower. Choice steers, \$8 to \$8.50; good, \$7.75 to \$8; medium, \$6.50 to \$6.75; choice cows, \$6.50 to \$6.75; good cows, \$6.25 to \$6.50; canners and cutters, \$3 to \$4.50; bulls, \$5 to \$7; stockers, \$4 to \$5.25; feeders, \$5.75 to \$6.50; milkers, \$65 to \$95; veal calves, \$4 to \$10. Sheep, \$5 to \$6; lambs, \$7 to \$8.25. Hogs, \$6.90 f. o. b. cars at country points; \$7.25 fed and watered, and \$7.50 weighed off CATS.

REVIEW OF LAST WEEK'S MARKETS

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

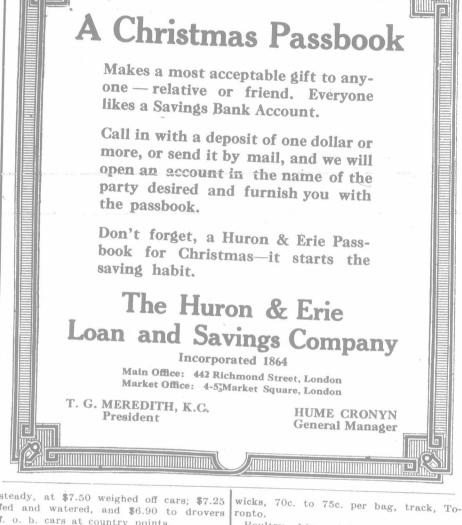
	City.	Union.	Total.
Cars	85	656	741
Cattle	1,022	9,325	10,347
Hogs	1,250	13,734	14,984
Sheep	1,865	6,986	8,351
Calves	32	568	600
Horses		19	19

The total receipts of live stock at the two markets for the corresponding week of 1913 were

	City.	Union.	Total.
Cars	25	508	533
Cattle	436	7,989	8,425
Hogs	73	7,957	8,030
Sheep	522	4,874	5,396
Calves	24	555	579
Horses	59	11	70

The combined receipts of live stock at the two markets for the past week show an increase of 208 carloads, 1,922 cattle, 6,954 hogs, 2,955 sheep and lambs, and 21 calves, but a decrease of 51 horses, compared with the corresponding week of 1913.

Receipts of live stock outside of those exhibited at the Fat - stock Show were again liberal. The quality of the cattle was much the same as it has been for deveral weeks past, a few good to choice, with the bulk composed of medium, halffat steers and heifers, and canner cows and bulls. Trade as a rule was active anything choice and heifers, as well as the canner cows and bulls, but slow for the medium and common steers and heifers offered in the butchers' classes. One choice load of eteers weighing about 1,050 lbs., sold at \$8.75, but they were the best seen here in many weeks. In all other classes of live stock there was an active trade, at steady prices, excepting hogs, which sold at lower values. Butchers' Cattle .- Prime steers. \$8.50 to \$8.75; choice steers and heifers, \$8 to **68.40:** good steers and heifers. \$7.75 to \$8; medium, \$7 to \$7.75; common, \$6.50 to \$6.75; common light steers and heifers, \$5.75 to \$6.25; choice cows, \$6.75 to \$7.25; good cows, \$6.25 to \$6.50; medium cows, \$5.50 to \$6; canners and cutters, \$3.75 to \$4.65; bulls, \$5 to \$7.25, and a few of prime quality at \$7.40 to \$7.70.



fed and watered, and \$6.90 to drovers f. o. b. cars at country points.

TORONTO HORSE MARKET. There is little or no demand for horses excepting for war purposes, and so exacting are they in regard to inspection that many are rejected. Those selected and bought ranged in price from \$145 to \$190 each.

BREADSTUFFS

Poultry.-Live-weight prices : Turkeys, 12c.; ducks, 10c.; hens, 7c. to 10c. per lb.; spring chickens, 8c. to 11c.; geese, 8c. per lb.

Montreal.

The quality of stock was not choice, but the best stock on the market sold at 7c. being for steers; good sold this at $6\frac{1}{2}c.$, and medium at $5\frac{3}{4}c.$ to 6c., while common steers sold down to 5c. Cows ranged generally from 41c. to 61c. per lb., and bulls from 41c. to 51c. Canners cattle sold as low as 3¹/₂c. per lb. Lambs were scarce, and prices slightly higher. Best Ontarlo stock sold at Sc. per lb., while Quebec stock ranged from 7c. to 74c., with occasionally slightly more. Sheep were 41c. to 5c. The market for calves was fairly firm, at \$3 to \$6 for common, , and up to \$15 each for best. The tone of the hog market was firm, and selects sold at 71c. to 7%c. per lb., with heavies at 7%c., weighed off cars. Horses.-Good general - purpose horses sold at about \$150 to \$175 each. Dealers quoted heavy draft horses weighing from 1,500 to 1,700 lbs., at \$225 to \$300 each; light draft, weighing from 1,400 to 1,500 lbs., at \$150 to \$200 each, and lighter horses from \$125 to \$150. Broken - down, old animals were quoted at \$75 to \$100 each, and fancy saddle and carriage animals at \$300 to \$400 each. Dressed Hogs .- The market for dressed hogs was slightly firmer all round. Abattoir - dressed, fresh-killed hogs were quoted at 101c. to 101c. per lb. Counry-dressed were firmer also, at 9c. to 9½c. for heavyweights, and 9½c. to 10c. for light. Poultry.-Receipts of poultry have been held off somewhat lately on account of the decline of a couple of weeks ago. Supplies were moderate, and prices continued about the same. Quotations were 14c. to 15c. for turkeys; 12c. to 15c. for chickens; 11c. to 14c. for ducks, and 9c. to 11c. for geese and old fowl. Potatoes .- The market was rather on the easy side, but prices were much the same as last week. Choice Green Mountains were quoted at 60c. per bag, carloads, ex track, single bags being 70c.

was 9c. to 10c. per lb. White - clover comb honey was 161c. to 171c. per lb. extracted, 12c. to 13c.; dark comb, 141c to 15c., and strained, 7c. to 8c. per lb.

Eggs.-Best eggs were quoted at 48c to 50c. per dozen, but these were only nominally new laid. Selected cold-storage stock were quoted at 31c. to 32c. per dozen. No. 1 cold-storage stoch were firm, at 29c. to 30c., and No. 2 25c. to 26c. per dozen.

Butter .- The market for creamery was about steady, and dealers look for no change just now. Choice stock was quoted at 27c. to 271c. per lb. here, while fine was 261c. to 27c., and seconds 251c to 26c. Ontario dairy was 25c. to 26c per lb., and Manitoba 24c. to 25c.

Cheese .- No change has taken place in the cheese market. September Ontario cheese still sold at 15%c. to 15%c. per fb. for either white or colored, and October makes were {c. below these figures September Eastern cheese was 151c. to-15%c., and Octobers a fraction under.

Grain .--- Oats were in good demand Canadian Western were quoted at 601c for No. 2; 59c. for No. 3; 584c. for No 1 feed, and 571c. for No. 2 feed, ex store. Ontario and Quebec No. 2 white oats were 54c. per bushel; No. 8 were 53c., and No. 4 were 52c. Argentine corn was 831c. to 84c.

Flour .- Demand for flour was fairly active, and prices were unchanged. Ontario patents were \$6 per barrel in wood, and straight rollers were \$5.50 to \$5.60, bags being \$2.70. Manitoba first patents were \$6.70; seconds being \$6.20, and strong bakers' \$6 in jute.

Millfeed .--- The market showed no change last week, but the tone was firm. Bran was \$25 per ton in bags; shorts, \$27; middlings, \$30, including bags. Mouille sold at \$35 to \$36 per ton for pure, and \$31 to \$32 for mixed.

Hay .--- There was a fair demand for hay at steady prices. No. 1 pressed hay Montreal, ex track, \$20.50 to \$21 per ton; No. 2 extra, \$19.50 to \$20, and No. 2, \$18.50 to \$19.

Hides .- Beef hides were unchanged, a) 16c., 17c. and 18c. for Nos. 3, 2 and 1, respectively. Calf skins were 16c. and 18c. for Nos. 2 and 1 respectively. Sheep skins were \$1.20 each and horse hides, \$1.50 for No. 2, and \$2.50 each for No. 1. Tallow was 6c per lb. for refined, and 2c. to 24c. for crude.



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Stockers and Feeders .- The demand for stockers and feeders, which was moderate, was not greater than the supply, and prices remained steady. Good to choice steers, \$6.25 to \$6.50; medium steers. \$5.75 to \$6.25; stockers sold from \$4 up to \$5.50.

Milkers and Springers .- There was a steady demand for choice fresh cows and forward springers, at \$65 to \$107 each, the bulk of these selling from \$70 to **\$90 each.** Late springers sold from \$40 to \$55 each.

Veal Calves .- Receipts of calves were light, but prices remained steady. Choice veals sold from \$9 to \$10; good at \$8 to \$9; medium, \$7 to \$8; common, \$6 to \$7; inferior, Eastern, grass calves, \$4 to \$5.50.

Sheep and Lambs .- Receipts were fairly Sheep, light ewes, \$5 to \$6: large. heavy ewes and rams, \$3.50 to \$4; cull sheep, \$2 to \$3; lambs sold all the way from \$7 to \$8.75. Choire Southdown and Shropshire lambs, 80 to 90 lbs. each, sold from \$8 to \$8.75; heavy lambs, from \$7 to \$7.75, and slow sale at these latter prices; cull lambs, \$5.50 to \$6.50.

Hogs .- Prices were lower, and ruled

Wheat.-Ontario, No. 2, \$1.10 to \$1.12, outside; Manitoba, at bay ports, No. 1 northern, \$1.241; No. 2, \$1.211; No. 3 northern, \$1.16%, new crop. Oats.-Ontario, No. 2 new, white, 50c.

to 51c., outside; Canadian Western oats, N. 2 new, 60c.; No. 3 new, 584c., track, bay ports.

Rye.-88c., outside.

Buckwheat.-71c. to 73c., outside. Barley .- Ontario, No. 2, 68c. to 70c., outside. Manitoba barley, 66c. to 70c., lake ports.

Corn .- No. 2 yellow, old, 81c.; new No. 3 yellow, 71c.; Canadian corn, 82c., Toronto.

Peas.-No. 3, \$1.60 to \$1.65, car lots, outside.

Rolled Oats .- Per bag of 90 lbs., \$3.10 to \$3.25.

Flour.-Ontario winter wheat, 90 per cent., \$4.70 to \$4.75, seaboard, Montreal or Toronto freights. Manitoba flour-Prices at Toronto were : First patents, \$6.70 in cotton, and \$6.60 in jute; strong bakers', in cotton, \$6.20; in jute, \$6.10.

HAY AND MILLFEED.

Hay.-Baled, car lots, track, Toronto, No. 1, \$16 to \$17; No. 2, \$13.50 to \$14.50.

Straw.-Baled, car lots, \$7.50 to \$8. Bran .- Manitoba, \$25 to \$26, in bags, rack, Toronto; shorts, \$27 to \$28; middlings, \$29 to \$30.

COUNTRY PRODUCE.

Butter .- Receipts have remained about steady; prices steady. Creamery prints, 28c. to 31c.; creamery solids, 28c. to 29c.; separator dairy, 27c. to 28c. Cheese .- New, 16c. for large, and 164c.

for twins. Eggs .- New-laid, 50c, per dozen, by the

ase; cold-storage eggs, 28c, to 29c. Honey.-Extracted, 11c. to 12c. per lb. combs, per dozen sections, \$2.50 to \$3. Beans.-Primes, \$2.75 to \$2.80; Juandpicked, \$2.90 to \$3.

Honey and Syrup.-Prices showed no change, and demand was light. Maple Potatoes.-Canadian, car lots, per bag, syrup was quoted at 60c, in small tins, track, Toronto, 60c. to 65c.; New Bruns- and up to 80c. in 11-lb. fins. Sugar

Buffalo.

The past week the best Canadian ship ping steers sold from \$8.85 to \$9, . good kind from \$8.50 to \$8.60, with plain and less desirables from \$7.50 to \$7.85. Few handy butchering steers were good enough to bring \$8, and about the best handy heifers offered ranged from \$6.85 to \$7.50. Heavy, fat cows. which have been bringing from \$6 to \$6.50, are down to \$5.75. Receipts for the past week were 5,030 head, an against 4,125 for the previous week, and 6,375 for the corresponding week a year ago. Quotations. - Canadian shipping steers-Choice to prime, \$8.75 to \$9; fair to good, \$8.25 to \$8.60. Butchering steers-Choice, heavy, \$8.25 to \$8.50; fair to good, \$7.75 to \$8; yearlings, \$8 to \$9. Cows and heifers-Prime weighty heifers, \$7.75 to \$8; best handy butcher heifers, \$7.25 to \$7.50; common to good, \$6 to \$7; best heavy fat cows, \$6.50 to \$7; good butchering cows, \$5.75 to \$6.25; medium to good, \$4.75 to \$5.50, cutters, \$4 to \$4.25; canners, fair to best, \$3.50 to \$3.80. Bulls-Best heavy, \$7 to \$7.25; good butchering, \$6.25 to \$6.75.

Week started with an \$8.25 market for Western and Canadian hogs, and before the week was out, prices on Westerns dropped to \$7.40, with Canadas selling at \$7.35 Two loads of Winnipeg pigs sold Thursday at \$7.55, and a load out of this section went Friday at \$7.50. Two decks of Canadian hogs went to the quarantine division Friday to enable a buyer, whose plant did not have Federal inspection, to use them, and they sold up to \$7.80. Roughs the latter part of week ranged from \$6.25 to \$6.40, and stags, \$5.50 to \$6.

See the advertisement in this issue of the Southern Counties Ayrshire Club sale to be held at Ingersoll Dec. 30

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WHAT EA TOWAR PI

An insti-Uttawa wł effect upor district, a duence, gr of rural even the] the organ growing a third year brought to ber 21, w at a publi The world

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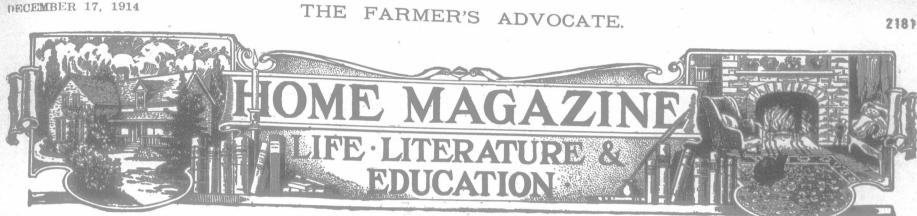
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Prospice.

By Alan Sullivan, in the Globe. The ancient and the lovely land Is sown with death; across the plain Ungarnered now the orchards stand, The Maxim nestles in the grain. The shrapnel spreads a stinging flail Where pallid nuns the cloister trod, The air-ship spills her leaden hail; But-after all the battles-God.

Athwart the vineyard's ordered banks, Silent the red-rent forms recline, And from their stark and speechless ranks There flows a richer, ruddier wine ; While down the lane and through the wall The victors writhe upon the sod, Nor heed the onward bugle-call ; But-after all the bugles-God.

By night the blazing cities flare Like mushroom torches in the sky; The rocking ramparts tremble ere The sullen cannon boom reply, And shattered is the temple-spire, The vestment trampled on the clod, And every altar black with fire ; But-after all the altars-God.

And all the prizes we have won Are buried in a deadly dust; The things we set our hearts upon Beneath the stricken earth are thrust; Again the Savage greets the sun, Again his feet, with fury shod, Across a world in anguish run ; But-after all the anguish-God.

The grim campaign, the gun, the sword, The quick volcano from the sea, The honor that reveres the word, The sacrifice, the agony-These be our heritage and pride, Till the last despot kiss the rod, And, with man's freedom purified, We mark-behind our triumph-God.

Lating competition amongst the boys. In the first place, it will cover not merely one year, but a three-year period. In the second place, it will involve competitions in both gardening and housekeeping. In the third place, it will form a part of the educational system in the rural schools of the county, and prizes will be given, not to scholars only, but work may make Carleton County the leader in the rapidly-developing work of teaching agriculture and horticulture in the schools.

This series of competitions has been made possible primarily by the generosity and public spirit of one man, MI. R. B. Whyte. Mr. Whyte is known to horticulturists not only in Canada, but throughout America, as one who has given a life-time to the science and art of gardening, and who, in his own specialties, is among the most eminent authorities. Not only does he manage a garden which is one of the show places of Ottawa, but he has made most successful and useful experiments in the propagation of small fruits, espe-

movement that gives promise of aiding in the development of Canadian agriculture. The Provincial Government also, through its Departments of Education and Agriculture, is glad to assist in such work. In the potato-growing competitions, Mr. Whyte has had the ablest possible assistance. The Secretary of the movement is Mr. L. H. Newman, one of to \$4, besides a silver medal, any refusal the leading officials of the Dominion De- of co-operation on the part of parents partment of Agriculture and Secretary of the officially-recognized Canadian Seedgrowers' Association. Mr. Newman is not only a specialist in the biology of seeds, but also an administrator of rare capacity. Realizing from the first the the potato competitions have been possibilities of the competitions, he has magnificent success. And they grow given time and effort unstintedly to the laborious details of correspondence and compilation. Professor W. T. Macoun, Dominion Horticulturist, who has given years of study in field and library to the growing of potatoes, is another member of the committee. At the beginning of the competitions he prepared a bulletin into which was condensed all the practical knowledge about growing potatoes in the Ottawa district which has been accumulated. The results attained in the competitions go to show that if the farmers of Ontario generally were to pay as close attention to Professor Macoun's advice as do the competitors for Mr. Whyte's prizes, the potato crop of the Province would be at least doubled. Another member of the committee is Mr. W. D. Jackson, representative in the County of Carleton of the Ontario Department of Agriculture. Mr. Jackson is a young man, and live. It is his business to come in contact with the

to help in any reasonable way every needs to be explained-assuming it to be correct. The experience is that the boys in this competition, with any kind of luck, are able to raise more potatoes on one-tenth acre than the average farm raises on a quarter-acre. So, there need be no waste of land. And, as the boy has his crop anyhow, and runs a chance of gaining a prize of anywhere from \$15 seem a good deal like a refusal to buy dollar bills at fifty cents apiece.

Notwithstanding the small number of competitors, and regardless of what may be the cause of the existing condition. more successful and useful every year, for, with the careful and elaborate records kept by Secretary Newman, the committee is accumulating a body of facts with regard to the cultivation of potatoes, and the still more important cultivation of boys that will be of inestimable value in many ways.

There is a marked tendency for this work to spread. The literature of the competition is often asked for by those who realize the possibilities of the work, and desire to carry it on in their own localities. This will be much more easily done a year or two later when the experience marks out more definitely the exact lines that should be followed. Several of the Provinces of the Dominion have under consideration the inauguration of competitions in every county or district.

Modern Warfare.

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Housekeeping and Gardening Competitions for Girls.

WHAT EASTERN ONTARIO IS DOING TOWARDS HELPING THE YOUNG PEOPLE TO BE MORE EFFICIENT.

By A. C. Campbell.

An institution has been growing up in Uttawa which is certain to have a great effect upon agricultural practice in the district, and may, by example and influence, greatly improve the conditions of rural life throughout Ontario, and even the Dominion at large. This is the organized competition in potatogrowing among the farm boys. The third year of this competition was brought to a close on Saturday, November 21, with the distribution of prizes at a public meeting in Ottawa City Hall. The work was at first confined to the County of Carleton, but, after one year's experience, was extended to the County of Russell, within whose limits part of the city of Ottawa lies. The results over all have been so satisfactory to those who are doing the work and providing the money, that it has now been decided to adapt the idea to provide a competition amongst farm girls. This, as anybody can see who will consider the matter for a moment, is by no means so simple as the potato-growing competition among the boys. To cultivate In girls the ability to carry on a garden is not enough, for, when these girls become farmers' wives they will be housekeepers rather than gardeners. After long consideration, and the rejection of plan after plan, a scheme has been evolved which, it is hoped, will be completely successful.

more ambitious institution than the ex- enthusiasm and official duty incline them



Mr. R. B. Whyte, Ottawa. A horticulturist known throughout America, and a friend of the boys and girls.

cially raspberries and gooseberries. He is the founder and active head of the Children's Flower Guild of Ottawa, an educational movement of the very highest value. All the money needed for the boys' and girls' competitions has been and will be supplied by Mr. Whyte. The prizes alone will amount to over \$200 a year. Printing and other expenses also represent a considerable sum. Having retired from business after a successful career as a wholesale merchant, Mr. Whyte is proceeding to enjoy himself by giving his money, his experience and his energy, which is as great as ever, to helping the coming generation to an understanding and love of the rural life, which is at the base of Canada's prosperity.

Working by himself, however, Mr. Whyte could not have succeeded in accomplishing what has thus far been accomplished. He has the advantage of residing in the Capital City of the Dominion. The Federal Department of Agriculture has collected in its offices and on the Central Experimental Farm, many of the most eminent specialists on farm subjects to be found in the world. Each of these men has become a specialist by being The girls' competition will be a far first an enthusiast, and both personal

farmers and to extend to them the benefits of the knowledge and experience in agriculture of the Province as a whole. The potato - growing competition he regards as an opportunity for better and wider work in his own proper line. His work in advising and encouraging the young competitors has been invaluable.

It is a noteworthy fact that some of the boys who entered the competition for the first year are in it still, while others are now barred by age, eighteen years being the limit. Mr. T. G. Raynor, of the Dominion Department of Agriculture, who has judged all the boys' exhibits at the county fairs-the showing of one bushel of the competitor's own crop being one feature of the competition-says that there is a distinct improvement in the results achieved by these young farmers in growing potatoes. Not only is the product large in proportion to the average of the Province, and not only are practically all the potatoes free from disease, but the competitors are showing a wiser understanding of the demands of the market, and so the potatoes tend to grow more uniform in size, shape, color, and quality.

The only suggestion of dissatisfaction with this whole competition comes from those who are most directly responsible for it, Mr. Whyte and his colleagues. They are disturbed in mind because so few boys enter. Last year only sixteen boys from Carleton, and only fifteen from Russell, carried the contest through to a finish, while this year the numbers were fifteen and thirteen, respectively. Considering that these counties together have a population of about seventy thousand, with a larger proportion of farmers than in the average Ontario county, and considering the advantages offered to the boys in this competition, it certainly does seem strange that less than thirty boys between twelve and eighteen years of age are found willing to comply with the terms laid down. The only explanation attempted so far is that the farmers of the counties are unwilling to allow their sons to take one-tenth acre of ground and the time needed for its proper cultivation. But this explanation also

Everyone is reading war news, but it is safe to say that a considerable proportion of those who read, through lack of understanding modern systems of fighting, fail to grasp a very clear mental perception of the battlefield of to-day. Old conceptions gained through study of the history of the past, die hard, and, before the mind's eye, solid formations, "hollow squares," and brilliant charges loom large as characteristics of every engagement. As a matter of fact, these are comparatively seldom resorted to in modern warfare, and the uninitiated onlooker of a battlefield to-day would likely be much surprised to see a comparatively deserted area, to all appear-ance, from which even the smoke has been largely eliminated by the use of smokeless powder. In case of emergency there may be still the desperate onrush, when men run forward in long, thin lines, making use of every moment between fires to run, then lying down to shoot, then up and on again, but more generally the soldiers fight from burrows varying from the shallow rifle-pit hastily thrown out, in half an hour, and in which man can only lie down, to the deeper one in which he can stand, and which has taken three or four hours or more to construct,-""the trenches," sometimes protected by sandbags, which afford a harborage for the men for such time as they hold, or wish to hold, a locality.

Above the trenches during action sounds the whistle of rifle balls from a mile or more away, the heavier whirring of cannon balls from a distance of fifteen to eighteen miles, and the shriek of shrapnel, this last one of the agents of destruction most dreaded. Shrapnel, by the way, was invented by a British army officer of that name, and consists of shells filled with bullets and supplied with a small charge inside which will cause them to burst at any time, sending a shower of leaden rain on all sides.

Modern fighting, it appears then, must be waged largely against machines, machines dealing their missiles often the soldier knows not whence.

▼ <u>↓</u>]∃.!

It was Napoleon who said, was it not? that "God is on the side of the heaviest battallions." To-day, were he alive, he might affirm, with his fine irony, that "God is on the side of the forces possessing the most 'advanced' weapons, the most powerful and insidious contrivances for the wholesale murder of men."

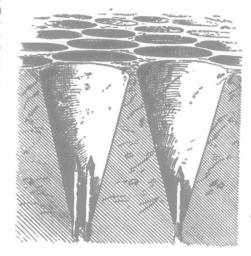
Among these, in field warfare, the machine-gun holds a place, high from a military point of view. In "The Human Slaughterhouse," by Lamszus, one of the most striking passages deals with the working of one of these instruments. "Two hundred and forty bullets and more to the minute ! What a marvel of mechanism one of these machine-guns is. You set it buzzing and it spurts out bullets thicker than rain can fall, and the automaton licks its lips hungrily and sweeps from right to left. It is pointed on the middle of the body, and sprays the whole firing-line with one sweep. It is as though Death had scrapped his scythe for old iron; as if nowadays he had graduated an expert mechanic."-Such the machine-gun, which turns on a swivel to send its deadly hail over the largest area possible, some kinds of which are small enough to be easily carried, in parts, usually by automobile or motor-cycle, and are simple enough of construction to be hastily set in position when necessary. The modern "automatic" gun is so arranged that the loading, firing, extracting and ejecting, are all performed automatically by the gun itself.

Of a different quality in deadliness are those of the heavy artillery, which throw huge missiles to great distances, and are especially effective in battering down walls. Among these, the Krupp 16-inch "Surprise," first used at Liege, has excited much interest. The gun part alone of this huge cannon, as described by an observer in a recent issue of Collier's, weighs 40 tons, and the carriage is fitted with caterpillar wheels to facilitate transportation over soft ground. The projectiles are of two weights, 2,000 pounds and 2,600 pounds, and the range is such that a target 12 miles away can be accurately struck. When it is known that each shell costs \$970, and that, for instance, an average of 3,000 shells per day were dropped into Namur during the siege, some comprehension of the cost of modern warfare may be vaguely arrived at.

Wire nglements which, at tim may be charged with electricity; deadly mines hidden underground and exploded at the opportune moment; aeroplanes to drop bombs from above; wolf-holes for crippling cavalry; chevaux - de - frise; the telescope and telephone; telescopic attachments for guns; extension ladders for taking observations,-these are but a few of the mechanical servants of modern field warfare, the machine-and-man warfare of 1914.

THE FARMER'S ADVOCATE.

scopically and propelled by a small special engine outside of the torpedo, it was but a step to the more modern species, the fish-shaped "Whitehead," for instance, which travels under water at a high rate of speed, propelled by two screws driven by compressed air, the fly-wheel caused to rotate by a spring wound up on the outside of the torpedo. A 30-knot torpedo will travel at the rate of 1,000 yards a minute, and explodes on reaching any resistant body. Discharged from a submarine, which, travelling under water in broad daylight can approach to close range, the aim presents no great difficulty. To-day, the above-water torpedo-boat is practically obsolete, having been quite supplanted by the submarine.



"Wolf Holes."

With sharp stakes, in them to impede attacks against fortresses,-particularly effective against cavalry.

Making way with little but its periscope visible, and that a mere pinhead on the blue water, the latter is at all times practically invisible, and possesses the power of being, at will, entirely so. Warned by the periscope, it can at any time dive, and travel with considerable speed entirely submerged.

Related, somewhat, to the torpedo, is the submarine mine, of which there are two species, the electrical and the mechanical, the former controlled from the shore and discharged at will by an electric current, the latter fitted with a

small electric battery or suspended weight inside, which causes it to go off when anything bumps against it. Mines were used by the Americans in 1777, but the first application of electricity in discharging them was made by Sir Charles Pasley in 1839, in destroying wrecks in the River Thames. The first military use of electrically-fired mines was made during the American Civil War of 1862, when several vessels are extensively used in war-time for the thee, Wherefore sighest thou? that thou protection of channels and harbors, as shalt answer, For the tidings; because well as for the destruction, when possible, of enemies' vessels.

A few months ago it was the opinion of many that war among the most advanced nations could never occur again. The inventions of to-day, it was pointed out, must preclude all thought of such a culmination to any dispute, and so arbitration must reign. Nevertheless has come the autumn of 1914, and with it the most widespread war the world has ever known.



Be Not Anxious.

Be not therefore anxious for the morrow : for the morrow will be anxious for itself. Sufficient unto the day is the evil thereof .- S. Matt. vi.: 34, R. V.

"O, child ! there is summer forever, Here under the wintry sky,

Where the Lord is the light and the glory, And His sheep in His pastures lie. Where the snow and the wild sleet are

driven, Far over the lonely mere,

There is summer beyond all the summers, Where Jesus the Lord is near.' -From the German.

"Made in Germany !" How that word is hated in our land to-day ! But weif we claim to be servants of Christhave no right to hate anybody. Our orders are to love even our enemiestherefore I am glad to remind you that many of the sweetest hymns in our language were made in Germany. When the black clouds of war are swept aside-God grant that it may be soon-and we can see the blue sky of love again, how gladly we shall clasp hands with our fellow-Christians who are now separated from us. Even now the gulf can swiftly be bridged over, for "when an enemy is wounded he is no longer an enemy, but a friend," to be tenderly cared for and protected from danger at all costs.

I did not intend to start off in this

FOUNDED 1866

DECEN

it cometh : and every heart shall melt, and all hands shall be fleile, and every spirit shall faint, and all knees shall be weak as water : behold, it cometh.' Contrast with that despairing attitude of one waiting for tidings, the brave words of the Psalmist, who says : "Unto the upright there ariseth light in the darkness. . . . he shall not be afraid of evil tidings : his heart is fixed, trusting in the LORD. His heart is established, he shall not be afraid."

If we really obeyed our Lord's command, how very few nervous breakdowns there would be. We have often heard of the man who said he had a great many troubles in his life and "most of them never happened." We can't afford to throw stones at him for his folly in weighing down his heart with imaginary burdens, for we live in glass houses ourselves.

Nerve specialists tell us that worry is not only useless and foolish, but most injurious to mind and body. Can we cure ourselves of worry by making up our minds to give it up? I don't know. One thing 1 do know, however, that real trust in God can and must drive out anxiety. If you study the passage from which our text is taken you will see that our Lord did not put in the word "therefore" without good reason. The whole command-which is really an invitationrests on the truth to which the word "therefore" refers. Your Father knoweth what you need, He says, therefore it is quite unnecessary for any of His children to be anxious. We are to be as children--- "little" children---or we cannot enter into the kingdom of heaven (S. Matt. xviii.: 3). Little children do not spoil to-day's happiness by forecasting to-morrow's sorrows. They eat the food provided for them, confidently expecting their father to provide for the future. On the last night of His earthly life the Master not only called His disciples His "friends," but He also addressed them tenderly as "little chil dren."

How happy we should be if we accepted our position as little children in our Father's house. It is not easy to watch every day for tidings, fearing nothing because we know that our Father is the King of kings and Lord of hosts. is not easy, but it is possible. . Prayer is our best way of holding up the strong shield of faith, and it is well for us if we have learned the art of prayer in days of peace; so that we have not to go out against this giant Anxiety with unproved weapons. David dared not face Goliath except with the ever-ready weapon which he had proved by long practice. He had confidence in his power to hit any mark with a stone from his sling, but he refused Saul's offer of weapons because his hand was untrained in the use of sword or spear. Before we open the daily paper, seek ing eagerly for news, yet dreading possible evil tidings, let us always kneel down and place ourselves and the cause so dear to us in God's hands. When trouble comes - fresh trouble, I mean-God can make us strong enough to endure it without selfish and cowardly whining. In the meantime we can trust the future in our Father's hands, knowing that He will make all things work together for the good of those who love Him. are His little children, and He is able to control and overrule the madness of warring nations. No child of God is ever refused an audience. He may be watching over world-problems, but He is never too busy to give undivided attention to one of His little children.

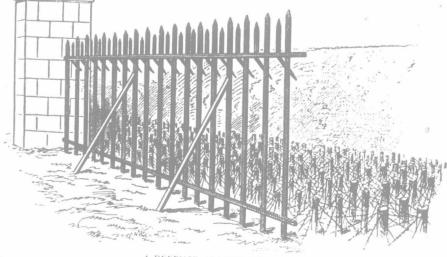
And the sea only serves to increase the long list,-Dreadnought and armored cruiser and destroyer, submarine and torpedo and floating mine, all enlisted for the destruction of life.

Perhaps to-day the submarine torpedoboat is the factor most to be reckoned with in naval warfare, indeed so much so that to the minds of more than one naval expert it has suggested that henceforth even the day of the great Dreadnought may be over.

The history of the torpedo has been a comparatively long one. Nearly one hundred years ago Robert Fulton demonstrated that ships might be destroyed by exploding a large charge of gunpowder against the hull under water, but the difficulty of getting the charge into proper position proved a problem that took years to solve. After some years the "spar torpedo" was conceived, an explosive at the end of a long pole projecting from the end of a small boat. and set off by an electric battery in the boat. The adventure was, of course, one of peculiar danger; all attacks had to be made at night, and the blowing up of a vessel was likely to entail the loss of the small attacking one also; nevertheless, during the American Civil War, the spar torpedo was frequently resorted to. Later, the addition of electric lights to the equipment of ships, rendered it practically useless, but inventive minds kept busy, and finally a torpedo was evolved that would wend its own way to any desired goal. From the "Howell" type, discharged from a tube, and driven by a fly-wheel inside of it, acting gyro-

but the lovely ver "from the German'' captured my pen.

Our Lord's command comes home to us to-day and fills us with amazement. It is so easy to look forward hopefully to the morrow when all is going well; but we know instinctively that the command, "Be not therefore anxious for the morrow," is intended for dark days. How is it possible to have "summer forever" under the wintry sky? How is it poswere sunk. Since then most of the sible to have "summer beyond all the



A DEFENCE AGAINST STORMING Barbed Wire Entanglements.

European nations have experimented with them, and they were used during the Franco-German War in 1870, the Russo-Turkish War in 1878, the Spanish-American in 1898, and the Russo-Japanese in 1904-05. Mines and torpedoes were first introduced into the English service about 1863.

The floating mechanical mine, submerged to the required distance, is a small body, usually spiked, a knock upon one of the spikes being sufficient to explode the charge, which is heavy enough to blow up a vessel. Mines of all kinds

summers' where the snow and the wild sleet are driven ? Let our German poet answer that question. The sheep find their sunshine in their Shepherd's face, and we can brave the storm joyously if we feel the warm clasp of our Master's hand in the darkness.

Now is the time for us to prove that we are not fair-weather Christians. If we are only able to trust in God when no danger threatens, we are not really trusting Him at all. Then it shall be with us as the prophet Ezekiel found, it : "And it shall be, when they say unto

- " My Father's house has many rooms, And each is fair
- And some are reached through gathered glooms
- By silent stair :
- But He keeps house, and makes it home,

Which ever way the children come."

Newell Dwight Hillis divides mankind into two classes-the people who live in shadow, and those who live in sunshine He says that the melancholy people always send their shadow on before them that they are so busy looking down for painful things on which to step that they do not even know there are stars in the sky. "These folk live on the wrong side of the street. And yet it is



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D 1866 **DECEMBER 17, 1914** THE FARMER'S ADVOCATE. nat thou because ll melt, d every shall be ometh." attitude e brave : ''Unto in the afraid Try this Thirsty Flour , trusts estab-'s com-A very thirsty flour. Absorbs a lot of water. kdowns heard Because it contains so much gluten. great Manitoba wheat is wonderfully rich in nost of sturdy gluten. t afford folly in And, think of it, FIVE ROSES is milled aginary exclusively from the very cream of the es our-Manitoba wheat berries. So FIVE ROSES must be awfully thirsty, orry 1s t most don't you see. Can we In your mixing bowl it greedily absorbs ing up more water. t know. at real So you get more loaves than usual without ve out using more flour. You use less. e from Your flour lasts longer, doesn't it ? ee that "there-Less trips to your dealer's. whole That's how FIVE ROSES saves money. ationword Actually saves YOU money. know-Use this economical flour. fore it s chilbe as cannot en (S. lo not asting t the r the arthly is diso ad-

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ordinary time, but in the shadow of the greatest calamity the present generation has ever experienced. Light and care. less optimism is utterly out of place now. If the war has not touched us very nearly, it has certainly brought sorrow into millions of other homes. Unless we are very callous we cannot help feeling the pain. Christ Himself wept over the woe which He knew was coming on the city He loved. We cannot expect to escape all pain-we should be ashamed to desire such a thing. We do not pray that God will ward off all sorrow from our lives, allowing us to enjoy selfish ease while our comrades are enduring hardships. Is that the kind of prayer a woman offers when the man she loves is bravely enduring life in the trenches ? Such prayers would be an insult to a loving heart. She turns away from anxiety about herself, and is scarcely conscious of her own ease or discomfort, for all her thoughts are concentrated on "news from the front." Is it possible to be anxious for noth-

only twenty feet across to the other

Those words are true enough of ordi-

nary times, but we are not living in an

ddewalk, where sunshine always lies."

ing, to cast care for the safety of others -who are dearer than life itself-on God ? It is possible, for others have done it-'looking unto Jesus." The life of faith is not an experiment, it is not on trial. It is we who are on trial. We can trust the future in our Commander's hands, enduring present sorrow bravely, never doubting that clouds will break and right will triumph in the end Sorrow shall be changed into joy.

We have no need to question our duty for the King's orders for this time of severe testing cannot be mistaken. He says: No shall hear of wars and rumors of wars; see that ye be not troubled : for all these things must come to pass, but the end is not yet." Our



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orders are clear-and a soldier's first duty is obedience. Like the king of Belgium, our King stays with His army. Others may question doubtfully :

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Peace, perfect peace, with loved ones far away ?''

Let us answer :

'In JESUS' keeping we are safe and they.'

DORA FARNCOMB (HOPE).

Gifts for the Needy.

I acknowledge gratefully two domations of \$5.00 each, and one of \$1.00, sent by readers of the Quiet Hour "for the needy.'' HOPE.

The Windrow.

The great reduction of crime in Russia since vodka was banished from the land a few weeks ago, already shows the wisdom of the Czar in taking this unparalleled temperance step. In the precincts of the city of Moscow alone during the first half-year of 1914, there was an average of 896 criminal cases a month; during the first "sober" month there were only 406. A similar story is told of all parts of Russia.

. . . .

The following Prayer for Horses on the Battlefield is taken from the Russian Liturgy for use in war time : "And for those also, oh Lord, the humble beasts. who with us bear the burden and heat of the day, and offer their guiltless lives for the well-being of their countries, we supplicate Thy great tenderness of heart. For Thou hast promised to save both man and beast, and great is Thy loving kindness. Lord have mercy !"



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The Ingle Nook.

[Rules for correspondence in this and other De-partments: (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 en-closing 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∳o questions to appear.j

In the Ingle Nook

Drama in one place. Turn to another and you find Literary Clubs in full force. cozy home reading clubs, perhaps even a Chautauqua reading circle established on systematic lines.—A "club" can never read trash, and so the banner of good literature is kept waying.

Perhaps there is heither a dramatic nor a literary club, but there is sure to be a Women's Institute. Take a peep at its programmes and see what a vast range of subjects afforded-housekeeping with the rest, but also everything else connected with the public weal, from public-health problems to the establishing of public works,-everything except woman suffrage(!)

But there are suffragists a-plenty, too, both within and without the Institute, and it is not straining a point to say that the vast majority of women who would like to vote wish to do so, not for the mere sake of doing what men do, not with any desire to supplant or shoulder aside men in any way, but out of a sincere wish to let woman's voice be heard in all things that affect the welfare of women and of those peculiarly dependent upon them, the children.

. . . .

Yes, there is a restlessness, an outreaching everywhere in feminine ranks, woman striving to assist herself, not in vainglory, but as a human whose destiny it is to climb, and who cannot climb so well as long as there are shackles about her feet.

. . . .

There are still a few old fogies on the face of the earth who declare "Woman's place is in the home. If she attends to her housework right, she will not have time for any of this outside nonsense."

Now, the first of these statements is absolutely true. The home certainly is woman's best sphere—and every true woman recognizes the privileges and opportunities of such a spot.-The old fogeydom consists in believing that the home is shut in by four walls and a roof.

Four walls and a roof ?---Why, the home reaches out everywhere, especially if there are children in it,-to education, to the broadening religious conceptions of the Twentieth Century, to government of the country-all for the sake of the child.

That a woman shall understand this old drudge and a homemokar And 'that brings up another question, one, reader, for you to think out for yourself: Is it true that "the most successful housekeeper is often the poorest homemaker''?

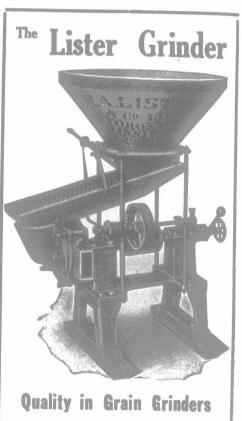
fuss over her housework ? asks someone. We have talked over this question in the Ingle Nook, you and I and all of us, many a time, have we not ? and if I remember rightly have come to the conclusion that the farm woman, who has so many, many things to do, should weed out the "fuss" altogether. A pretty house with plain, smooth furniture, which can be easily dusted, should be hers; tacked-down carpets should be taboo, as they are in practically all city houses, and so should a superfluity of bric-a-brac, "dust-traps"; curtains should be sash length, not trailing about the floor to be soiled; a vacuum cleaner. dustless mop and duster, a good washing-machine and wringer, and cans of patented "cleanser," or even ashes and salt mixed together, for pots and pans, should make the work of keeping clean comparatively easy; meals should be appetizing and well planned, but not elaborate: useless frills, which mean tedious ironing, should be given a long leave of absence, aod cotton crepe, which does not need ironing at all, should be substituted for cotton for nightdresses and all thin underwear.

Such a scheme, endlessly added to by every woman capable of thinking out problems, with a house contrived to save every step possible, should give most women time to spare to devote to other things-the mental make-up that is, after all, the real Us. Baking, scrubbing, ironing, sewing, may, indeed, express us to some small extent, but they do not constitute Us; only what and how we think can do that .- And this brings us to another question : What sort of mental pabulum is the housekeeper, as a rule, giving herself ?- An important question, because, without food, the mind cannot grow.

Those of you who were at the Women's Institute Convention in London this year, will remember one of Mrs. Courtice's (Wallaceburg) pithily put statements : 'Some people think more of scrubbing the last inch of dust out of their houses than of sweeping the dust out of their brains." The observation reminded one of what Hellen Keller-the wonderful blind, deaf girl-also said, that in talking with people she found that the great majority were in a comparatively 'infantile state of development." That sounds sweeping, and yet perhaps every truth makes all the difference between a one of us, in honestly considering her wn mind and the endless of mind as it may be, must confess that Miss Keller spoke absolute truth. Now, surely this should not be. We should, at least, be on the upward track and so we should look to our "pabulum." Books, magazines, and lectures, of good quality, worth - while people, service for others even at inconvenience to ourselves,-these are the things that make us grow, the real Us. And for those of us who are on farms, the winter, with its long evenings, is the best growing season. We are economizing this winter, perhaps, that we may be able to send more to the soldiers and the Belgians, but let us not economize too much on good books and magazines. There are some good books' in every local library, and the best magazines do not cost so very much. Why not coax the good man to read aloud while you knit or make shirts for Johnnie Canuck or Tommy Atkins away at the front? A delegate from somewhere said at the London Convention that her Institute was taking up, this winter, a study of the countries involved in the war. There is a suggestion in that. For one of the delights of reading is that it ever causes one to branch out to all correlated subjects; for instance, a study of the European countries - their peoples, customs, etc.,-very naturally leads on to a study of their literature, their art, their great men and women. So it is with other things.

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topic - drawer, repository into which drifts all the flotsam and jetsam of floating ideas and odds and ends that may "some day become useful," there came to the top to-day a clipping evidently taken from a etory somewhere, a tale woven about a journalist : "A Woman's Page ought to be for WOMEN," she replied. "A11 women are not housekeepers, and no housekeeper ought to be merely a housekeeper. Most housekeepers are interested in other things besides housekeeping,fortunately ! I want to write for them about some of these other things."

And now, let's talk about it.

Considering the question fairly on all eides, don't you think the little journalist spoke absolutely true? Don't you discern among women everywhere a sort of restlessness reaching out past just housekeeping ?

If you can't answer "yes" right off the bat, just stand still and look about for a moment. . . Here in one little district, country and village have united to "put on" a Dickens' play for Christmas. "Where can we get theatrical clothes to rent ?" they write, and the Ingle Nook mays reverently, "God bless you !" as it burrows about to find out the information. "A Christmas Carol" this year, and a classic is introduced. Next year the standard must be kept up, and, thanks be, there are good playwrights enough to choose from; Goldsmith and Sheridan, Ibsen and Galsworthy, may be none too remote for the rural dramatists of the future .- Just here, I do hope you read Miss Orvis's article in the "Christmas Advocate." We must agitate and agitate, and never rest until every rural district in Canada has similar advantages to those secured by the farmers of Wisconsia; what has been done in one place with a good University as its center, can surely be done in others.-The particular association that has brought this reflection up is that the University of Wiscenson keeps on hand a supply of plays, forwarded for a trifle to any part I the State.

Now, to the second statement : "If a woman attends to her housework right she will not have time for anything outside of it."-Here, again, there are questions to be answered. Of course, it is conceded that there are some women so overrun and burdened down with housework as to have positively no time to read or to go out to meetings and lectures; but take the majority of women. Could not the most of them "navigate," by using brain - work enough, to arrange time for something more than baking, scrubbing, and all the rest of it? Is the one who accomplishes most in the long run the one who keeps bright and happy, through being interested in outside things, and who learns of best and quickest methods of work through keeping in touch with up-to-date methods? Or is she the one who moils away in the same rut year in, year out? It is nerve-racking, that muddling along in a rut, and because of it a good many women have had to pay the piper sooner or later. System is good, but let system be the slave, not the master. "The greatest Discovery I have made during fifteen years of housekeeping," says a writer in Good Housekeeping, "is that the earth revolves on its axis, and all other important events take place just the same, whether I iron on Tuesday or Thursday, or clean on Friday or Satur-

it is, of course, necessary that the housekeeper be a "good housekeeper," that the house be kept clean, sanitary and comfortable, and that the meals be wholesome and well balanced; the point thing, and that neither work nor time be expended upon things that serve no good hurpose.

* * * *

Just in how far, then, should a woman

Won't you write and tell us about any experience you have had in regard to any of these questions ? JUNIA.

FROM A SHUT-IN FRIEND.

Dear Junia,-Here comes the Lankshire Lass again to greet you all.

As the Christmas season is near us, and the glad New Year, too;

write to send my best greetings to each one of you.

How fast Father Time has hurried on.

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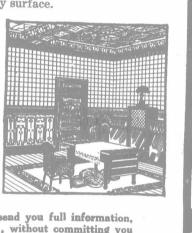
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Just drop us a card—We send you full information, illustrated catalogues, etc., without committing you in any way. Cut prices also made on the famous "'Eastlake'' Shingle, Rock and Brick-face Siding, "'Empire'' Corrugated Iron. Address:







feel as if I must write again; give my instead of sugar for those who care for visit before Christmas in this way, for maple syrup. About keeping cookies I cannot go and call on you any other way. I wonder what you all intend doing or are going for Christmas. Whatever you do, make somebody glad, dears, -not in giving presents or doing for those who have plenty, and many pleasures-they do not need it. Go and search out those who need cheer; there are so many, perhaps nearer than you think. Yes, and do not forget the dear old peo-Ple. They may not see another Christmas, and a little cheer will do them good. Just try it, and see the glad look on the dear old faces. Let them eee and feel they are wanted and welcome

There are sad times now this dreadful War is on. Oh, that it may soon be over! Someone in the Nook asked where one could get a Belgian child. There was word of some coming to the Children's Shelter in Guelph a while ago, but I am not sure whether they came or not. One could find out by writing them.

By the way, "Aronacle," I do not see maple syrup would not do to sweeten pies or put in cakes. If you could get the right amount needed in some kind could just see the good Junia and Hope of cakes, especially the dark ones. I are doing. What helpful writings they

to be into another new year! I should think it would be nice in them crisp, you can if they are kept in airtight cans, so I have found, for years. Do not let it stand open at all; take out cookies, and close at once. If you have good cream, no other shortening is needed in cakes. Try one teaspoon soda to one quart of flour. It has never failed me yet. Always add a pinch of salt to all baking; it makes it nicer. Did you ever try the cookie and fruit cake recipe I gave once made with sour cream ? They are always good. I prefer cream to any other shortening when it can be had.

I used to love baking and putting up tasty meals; had lots of it to do in my day of usefulness, and sorry to be laid aside now; it gives so much pleasure doing for others. It makes one more lonely not to be able to do it now, and to be always at home. Wouldn't I enjoy a peep into the stores at Christmas ! Even that would be a treat, but I have other ways of pleasure, and feel happy knowing there is far better laid up for me, so I keep trusting all the way, why your maple sugar grated, or the nearing the glory land day by day. The synth would not do to sweeten While I wait, I long to do so much to pice brighten others' pathway. If only I

give us. Wishing all a most joyous this way. To "transplant" a geranium Christmas season and a bright New Year, thanking one and all who have shown me any kindness, your shi friend, LANKSHIRE LA Wellington Co., Ont.

[Don't you think, Ingle Nook friends, that it would be nice to give "Lankshire Lass'' a letter-party for Christmas Day ? I, for one, will write her. How many will follow? All letters addressed to her, in care of me, will be forwarded at once. Be sure to leave plenty of room for re-addressing on the envelope.-Junia.]

TRANSPLANTING GERANIUM.

Dear Junia,-I have been a silent reader of your Nook for a long time, and received much help from it. Now, like many others, I have come for help. Can you tell me how to transplant a geranium so the leaves will not wither and fall? Also, do you know of any firm to which untanned muskrat skins could be sent to be turned into readyto-wear furs ? GRAY EYES. P. E. I.

When starting geraniums by "slips," some of the leaves often fall off, but this will do no harm, as the plant quickly revives. Geraniums, inděed, are among the easiest of plants to propagate in

(do you mean to move it to a larger pot ?) turn the pot on its side and knock it gently on some hard surface to loosen the ball of soil, then place your hand over the surface and invert. Soil, plant and all will come out together, without disturbing the roots, and may be readily transferred to a larger pot and packed about with rich fresh earth. Water well. Shifted in this way the leaves should not fall off.

Write to the nearest fur manufacturer in regard to your furs.

STAIN ON DRESS.

Dear Junia,-Will you kindly mention something to take a tea stain out of brown dress goods ?

We have taken "The Farmer's Advocate'' for about five years, and find it a very valuable paper. Wishing you all GERANIUM. success.

Peterboro Co., Ont.

I can find no method for taking out the stain. Am afraid you will have to dye the whole dress a darker brown. A professional dyer could probably do the work satisfactorily.

We'll Build Your Barn

Don't worry your head over plans. Wehave over two hundred plans of barns actually built for Canadian farmers which you can pick and choose from. We'll make any alterations to suit your needs, or we'll get up entirely new plans for you. If you want to remodel or make any changes, we have experts who can do your planning for youtell you what the change will cost and do the work if you want them to.

In all our plans we pay particular attention to light and ventilation and to the most modern and convenient layout of every foot of space. Our Steel Truss Barn which we have been erecting for farmers for the past two years is giving the best satisfaction. Owners tell us that if they had other barns to build they would be Steel Truss.

These men told us the size barn they wanted and gave us an idea of the layout. Our men then gave them working plans for the stable and foundation. When the foundation was up we had our builders on the job to put up the balance of the building in eight to ten days' time.

There was no worry or fuss to get men to do the job-no cutting timber in the bushno hard work for the womenfolk feeding a large crew of men. We furnished all the material for the barns we erected and the Steel Trusses, the Acorn metal covering, the hardware, lumber, etc.

We made the barns fire and lightning proof, and can supply our Acorn Lightning Proof Ridge, approved by Prof. Day, of the O. A. C.

For those who want a lighter and cheaper wood construction, we are prepared to erect the latest type of Plank Frame Barns.

We have letters from those for whom we have erected Steel Truss Barns, telling us of their satisfaction. We want to put these letters and our entire set of plans before you, so that you will know just how we can serve you.

Send your name to-day for plans. They are free. Our entire plan service is free to those who are going to build.

THE METAL SHINGLE & SIDING CO., Limited, Preston, Ontario Factories at MONTREAL, TORONTO PRESTON, WINNIPEG, SASKATOON **CALGARY and REGINA**



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VILLA VIEW AND FAIRMONT HOLSTEINS (The Home of King Segis Alcartra Calamity) For Sale—Ten bull calves nine months old, one ready for service; all nicely marked and well grown, from record of merit dams with records up to 22.11. Prices from \$50 to \$100. Arbogast, Bros., Sebringville, Ont. P. S. Arbogast, Mitchell, R.R. No. 2. P. S. Arbogast, Mitchell, R.R. No. 2. FOUNDED 1866

all the arches in the mouth of the tunnel are finished; the tracks have been laid and the first train has crawled out on the newly-tracked road where it haggled, snorted and stopped, only to crawl back and be swallowed by The-Beast.

And with the first warm day came-Miss Felicia. "When your wretched abominable roads, my dear, dry up so that a body can walk without sinking up to their neck in mud-" ran Mise-Felicia's letter in answer to Ruth's invitation, - "I'll come down for the night," and she did, bringing Ruth half of her laces, now that she was determined to throw herself away on-"that good- for nothing- Yes, Jack, 1 mean you and nobody else, and you needn't stand there laughing at me, for every word of it's true; for what in the world you two babes in the wood are going to live on no mortal man knows;" Ruth answering with her arm tight around the dear lady's neck,-a liberty nobody,-not even Peter, ever dared take -and a whisper in her ear that Jack was the blessedest ever, and that she loved him so sometimes she was wellnigh distracted-a statement which the old lady remarked was literally true.

And we may be sure that Peter came too-and we may be equally positive that no impassable roads could have held him back. Indeed, on the very afternoon of the very day following the receipt of the jogful telegram, he had closed his books with a bang, performed the Moses act until he had put them into the big safe, slipped on his coat, given an extra brush to his hat and started for the ferry. All that day his face had been in a broad smile; even the old book-keeper noticed it and so did Patrick, the night-watchman and sometimes porter; and so did the line of depositors who inched along to his window and were greeted with a flash-light play of humor on his face instead of the more sedate, though equally kindly expression which always rested on his features when at work.

But that was rothing 'o the way he hugged Jack and Ruth-separatelytogether - then Ruth, then Jack-and then both together again, only stopping at MacFarlane, whose hand he grabbed with a "Great day! hey? Great day! By Cricky, Henry, these are the thing? that put new wine into old leather bottles like you and me." And this was not all that the spring and summer had brought. Fresh sap had risen in Jack's veins. This girl by his side was his own-something to work for-something to fight for. MacFarlane felt the expansion and put him in full charge of the work, relieving him often in the night shifts, when the boy would catch a few hours' sleep, and when, you may be sure, he stopped long enough at the house to get his arms around Rutb before he turned in for the night or the morning, or whenever he did turn in. As to the injury which McGowan's slipshod work had caused to the "fill," the question of damages and responsibility for the same still hung in the air. The 'fill' did not require rebuilding-nor did any part of the main work-a great relief. The loss had not, therefore, been as great as MacFarlane had feared. Moreover the scour and slash of the down-stream slope, thanks to Jack's quick work, required but few weeks to repair; the culvert, contrary to everybody's expectation, standing the test, and the up-stream slope showing only here and there marks of the onslaught. The wing walls were the worst; these had to be completely rebuilt, involving an expense of several thousands of dollars, the exact amount being one point in the discussion. Garry, to his credit, had put his official foot down with so strong a pressure that McGowan, fearing that he would have to reconstruct everything from the bed of the stream up, if he held out any longer, agree to arbitrate the matter, he selecting one expert and MacFarlane the other; and the Council-that is, Garry-the third. Mac-Farlane had chosen the engineer of the railroad who had examined McGowan's masonry an hour after the embankmant had given way. McGowan picked out .

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ing it office who, v Garry verned tion, might o invaria in anyl position This down pendent Garry envelop official mittee when a tions a be drav a majo week, t It wa pened r the one official quite a Jack's justable self ac young gathere violet v low rel in ligh fumes, sniffed aothing postal-c and, th This from an at, or] of unus per left the wor

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boarder

Condensed advertisements and addresses are counted. this heading at 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 for any advertisement under this heading. Parties having good pure-bred poultry and eggs for sale will find plenty of customers by using our advertising columns. No advertisements inserted for less

BRONZE turkeys—Extra good color and bone; weight from 25 to 29 lbs. each; also good pullets, 16 to 18 each. Chas. Gould, R.R. No. 1, Glencoe, Ont.

BARRED Rocks, Silver Campines, Silver Span-gled Hamburgs, White Leghorns, Mammoth Pekin ducks. L. J. Gibbons, Iroquois, Ont.

BREEDER of high-class Barred Rocks and Pekin ducks. Two hundred cockerels at reasonable prices. Leslie Kerns, Freeman, Ont.

MAMMOTH Bronze turkeys—Fine, heavy birds; bred from prize stock. R. G. Rose, Glanworth, Ont.

MAMMOTH Bronze Turkeys bred from prize winning stock. Good healthy birds. W. K Ritchie, Elmvale, Ont.

MAMMOTH Bronze turkeys, bred from prize winners; good healthy stock. Toms, 24 to 28 Ibs., \$7; hens, 15 to 17 lbs., \$4. W. W Hodgins, No. 4, Denfield, Ont.

MAMMOTH Bronze turkeys, both sexes, choice birds. D. Ashworth & Son, R.R. No. 2 Denfield, Ont.

O.A.C. Bred to lay Barred Rock Cockerels for eggs from Prof. Graham's famous bred-to-lay strain. R. Schuyler, Paris, Ont.

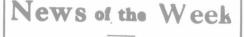
PURE BRED Bronze Turkey's, Fine, hearthy strong, heavy-boned birds. Bred from Bell's Gould's and Snetsinger's famous toms and hens Satisfied customers, everywhere. W. T. Ferguson Spencerville, Ont.

PUREBRED Rouen Pekin and Aylesbury ducks Embden geese, Bronze turkeys. C. Maier & Son, Riverview Farm, Delaware, Ont.

Stone and Stump Pullers Capable of lifting 18,000 lbs. **SNOW PLOWS**

For Township roads-for lumber camp roads-for sidewalks. **BOB SLEIGHS**

A. LEMIRE, Proprietor Wotton Oue



During the week important news has come from two wide apart zones. In the first place, Vice-Admiral Sturdee, in command of a British squadron, succeeded in sinking the German vessels, Scharnhorst, Gneisenau, Leipzig, and Nurnberg, near the Straits of Magellan. In the second, North Servia has really succeeded in accomplishing a great victory over the Austrians, capturing great numbers of men, horses, and field-pieces.

. . . .

Less spectacular victories have been won in South Africa, where De Wet has been taken prisoner, and at Korna, near the Persian Gulf, where 1,100 Turks under Subhi Bey, surrendered. It is also reported that on the Western battle-ground, Roulers and Armentieres have been captured by the Allies.

* * * *

Russia has refused to accede to the Pope's suggestion that a truce be neld or Christmas Day.



A Novel of Which He is Not the Hero

By F. HOPKINSON SMITH.

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Summer has come: along the banks of the repentant stream the willows are in full leaf; stretches of grass, braving the coal smoke and dust hide the usly red earth. The roads are dry again; the Please mention "The Farmer's Advocate." slopes of the "fill" once more are true,



Advertisements will be inserted under this heading, such as Farm Properties, Help and Situatio Wanted and Pet Stock.

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 ad-vertisement inserted for less than 50 cents.

F^{ERRETS}—Rid your place of rats, drive **rab**. bits. Calvin Jewell, Spencer, Ohio.

FARM to rent—First class farm, clay loam, 166 acres cleared land, buildings, fences, etc., the best. Lots 11 and 12 Edgeware Road, Varmouth. 4 miles from St. Thomas, Ont. None but first class man with means need apply. For particuclass man with means need apply. For particu-lars address R. W. and M. G. Ballah, R.R. 8, St. Thomas, Ont.

I DESIRE position: on fruit or grain farm on shares; have had several years experience on both; age 28; married. James F. Thomas, Oak-land, Ont.

WANTED a. good farm not less than 100 acres-with stock and implements to work on shares. Western Ontario preferred. Apply Box R, Farmer's Advocate, London, Ont.

WANTED to rent, with option of buying in three or five years, 100 acres of good land, well built on, close to school, church and station. Apply Box V. Farmer's Advocate, London, Ont.

FARM FOR SALE

John Fisher & Co., Lumsden Bldg., Toronto Kingston Road farm, west of Bowmanville, 11; acres, fronting on Kingston Road, mile from town clay loam soil, seven-roomed dwelling, good bank barn (36:50), driving-shed and piggery, good springs, twenty acres maple bush, orchard. Price \$70 per acre. Easy terms.

John Fisher & Co., Lumsden Bldg., Toronto

Maplewood Herd Aberdeen - Angusheifers for sale; no bulls. Address A. W. McEWING, R.R. No. 1, Blyth, Ontario C. P. R. or G. T. R.

"Granger's Notice" -Cedar Fence Posts 8 ft. long, 5½ inches to 6½ inches at small end, 10c. each. Car lots only; 500 to car. Anchor posts 7 inches up to 9 inches, 22c. each. F.O.B. Gooderham. BOX 52, - GOODERHAM. ONT.

Please mention "The Farmer's Advocate."

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DECEMBER 17, 1914

brother contractor and Garry wrote a personal letter to Holker Morris, following it up by a personal visit to the office of the distinguished architect, who, when he learned that not only Garry, MacFarlane, and Jack were concerned in the outcome of the investigation, but also Ruth-whose marriage might depend on the outcome,-broke his invariable rule of never getting mixed up in anybody's quarrels, and accepted the position without a murmur.

This done everybody interested sat down to await the result of the independent investigations of each expert, Garry receiving the reports in sealed envelopes and locking them in the official safe, to be opened in full committee at its next monthly meeting, when a final report, with recommendations as to Mability and costs, would be drawn up; the same, when adopted by a majority of the Council the following week, to be binding.

It was during this suspense-it happened really on the morning succeeding the one on which Garry had opened the official envelopes-that an envelope of quite a different character was laid on Jack's table by the lady with the adjustable hair, who invariably made herself acquainted with as much of that goung gentleman's mail as could be gathered from square envelopes sealed in violet wax, or bearing family crests in low relief, or stamped with monograms in light blue giving out delicate perfumes, each one of which that lady sniffed with great satisfaction; to say nothing of business addresses and postal-cards,-the latter being readable, and, therefore, her delight.

This envelope, however, was different from any she had ever fumbled, sniffed at, or pondered over. It was not only of unusual size, but it bore in the upper left-hand corner in bold black letters the words:

ARTHUR BREEN & COMPANY, BANKERS.

It was this last word which set the good woman to thinking. Epistles from banks were not common, never found at all, in fact, among the letters of her boarders.

Jack was even more astonished. "Call at the office," the letter ran, the first time you are in New York .the sooner the better. I have some information regarding the ore properties that may interest you."

THE FARMER'S ADVOCATE.



People-thousands who believed themselves completely deat-are hearing again, clearly and pertectly, with the aid of a remarkable, new scientific invention. Will you try the-



Valuable' Book FREE!

Write for valuable book on deafness-mailed free-explains all the causes of deaf-ness; tells how to stop the progress of the malady and how to treat it. Write at once -now-for this FREE Book and our Special Introductory Offer. Send to-day-now. 1

Dupuis Frères LIMITIC Dept 101 MONTREAL, CANADA

Please mention "The Farmer's Advocate." **OTTAWA WINTER FAIR** OTTAWA

GRAND TRUNK SYSTEM **DOUBLE TRACK ALL THE WAY Toronto - Chicago Toronto-Montreal** properties. **Unexcelled Train Service**

Highest Class of Equipment

WINTER TOURS to CALIFORNIA, FLORIDA and SUNNY SOUTH

The Grand Trunk Railway is the most direct oute from all points East through Canada, via Chicago, Detroit or Buffalo. FAST TRAINS—CHOICE OF ROUTES

Full particulars and berth reservations at G. T. R. ticket offices.



and MacFarlane, in explanation of his enforced absence for the day, and kept on his way to the station. The missive referred to the Morfordsburg contract, of course, and was evidently an attempt to gain information regarding the proposed work, Arthur Breen & Co. being the financial agents of many similar

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"I will take care of him, sir," Jack had said as he left his Chief. "My uncle, no doubt, means all right, and it is just as well to hear what he saysbesides he has been good enough to write to me, and of course I must go, but I shall not commit myself one way or the other-" and with a whispered word in Ruth's ear, a kiss and a laugh, he left the house.

As he turned down the short street leading to the station, he caught sight of Garry forging ahead on his way to the train. That rising young architect, chairman of the Building Committee of the Council, trustee of church funds, politician and all-round man of the world-most of which he carried in a sling-seemed in a particularly happy frame of mind this morning judging from the buoyancy with which he stepped. This had communicated itself to the gayety of his attire, for he was dressed in a light-gray check suit, and wore a straw hat (the first to see the light of summer) with a green ribbon about the crown,-together with a white waistcoat and white spats, the whole enriched by a red rose bud which Corinne had with her own hands pinned in his buttonhole.

"Why, hello! Jack, old man! just the very fellow I'm looking for," cried the joyous traveller. "You going to New York?-so am I,-go every day now,got something on ice,-the biggest thing I've ever struck. I'll show that uncle of yours that two can play at his game. He hasn't lifted his hand to help us, and I don't want him to,-Cory and I can get along; but you'd think he'd come out and see us once in a while, wouldn't you, or ask after the baby; Mrs. Breen comes, but not Breen. We live in the country and have tar on our heels, he thinks. Here,-sit by the window ! Now let's talk of something else. How's Miss Ruth and the governor? He's a daisy;-best engineer anywhere round here. Yes, Cory's all right. Baby keeps her awake half the night; I've moved out and camp upstairs; can't stand it. Oh, by the way, I see you are about finishing up on the railroad work. I'll have something to say to you next week on the damage question. Got all the reports in last night. I tell you, my old chief, Mr. Morris, is a corker! What he doesn't know about masonry isn't worth picking up;-can't fool him! That's what's the matter with half of our younger men; they sharpen lead-pencils, mix ink, and think they are drawing; or they walk down a stone wall and don't know any more what's behind it and what holds it up than a child. Mr. Morris can not only design a wall, but he can teach some first-class mechanics how to lay

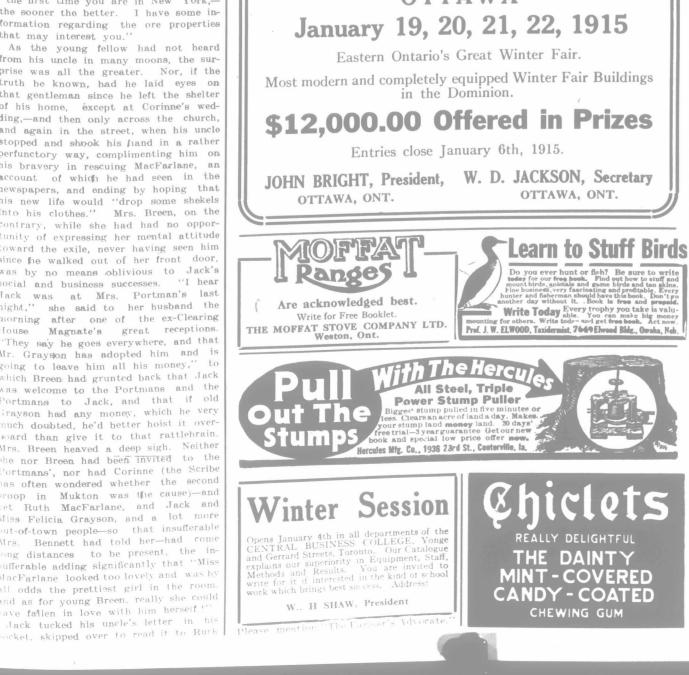
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As the young fellow had not heard from his uncle in many moons, the surprise was all the greater. Nor, if the truth be known, had he laid eyes on that gentleman since he left the shelter of his home, except at Corinne's wedding,-and then only across the church, and again in the street, when his uncle stopped and shook his hand in a rather perfunctory way, complimenting him on his bravery in rescuing MacFarlane, an account of which he had seen in the newspapers, and ending by hoping that his new life would "drop some shekels into his clothes." Mrs. Breen, on the contrary, while she had had no opportunity of expressing her mental attitude toward the exile, never having seen him since he walked out of her front door, was by no means oblivious to Jack's social and business successes. "I hear Jack was at Mrs. Portman's last night," she said to her husband the morning after one of the ex-Clearing House Magnate's great receptions. "They say he goes everywhere, and that Mr. Grayson has adopted him and is to going to leave him all his money," which Breen had grunted back that Jack was welcome to the Portmans and the Portmans to Jack, and that if old Grayson had any money, which he very much doubted, he'd better hoist it overhoard than give it to that rattlebrain Mrs. Breen heaved a deep sigh. Neither she nor Breen had been invited to the Portmans', nor had Corinne (the Scribe has often wondered whether the second scoop in Mukton was the cause)-and vet Ruth MacFarlane, and Jack and Miss Felicia Grayson, and a lot more out-of-town people-so that insufferable Mrs. Bennett had told her-had come long distances to be present, the insufferable adding significantly that "Miss MacFarlane looked too lovely and was by all odds the prettiest girl in the room. and as for young Breen, really she could ave fallen in love with him herself !"



Jack looked out the window and watched the fences fly past. For the moment he made no reply to Garry's long harangue-especially the part referring to the report. Anxious as he was to learn the result of the award, he did not want the facts from the chairman of the committee in advance of the confirmation by the Council.

"What is it you have on ice, Garry?" he asked at last with a laugh, yielding to an overpowering conviction that he must diange the subject-"a new Corn Exchange? Nobody can beat you in corn exchanges."

"Not by a long shot, Jack,-got some thing better; I am five thousand ahead now, and it's all velvet."

"Gold mine, Garry?" queried Jack, turning his head. "Another Mukton Lode? Don't forget poor Charlie Gilbert; he's been clerking it ever since, I hear.

"No; a big war(house company; I'11 get the buildings later on. That Mukton Lode deal was a clear skin game, Jack, if it is your uncle, and A. B. & Co. got paid up for it downtown and w You ought to hear the boys uptown. You ought to hear the boys at the Magnolia talk about it. My scheme is not that kind; I'm on the ground floor, got some of the promoter's stock. When you are through with

your railroad contract and get your money let me know. I can show you a thing or two;—open your eyes! No Wall Street racket, remember,—just a plain business deal."

"There won't be much money left over, Garry, from the 'fill' and tunnel work, if we keep on. We ought to have a cyclone next to finish up with; we've had about everything else."

"You're all through, Jack," replied Garry with emphasis.

"I'll believe that when I see it," said Jack with a smile.

"I tell you, Jack, you are all through. Do you understand? Don't ask me any questions and I won't tell you any lies. The first thing that strikes you will be a check, and don't you forget it !"

Jack's heart gave a bound. The information had come as a surprise and without his aid, and yet it was none the less welcome. The dreaded anxiety was over; he knew now what the verdict of the Council would be. He had been right from the first in this matter, and Garry had not failed despite the strong political pressure which must have been brought against him. The new work now would go on and he and Ruth could go to Morfordsburg together! He could already see her trim, lovely figure in silhouette against the morning light, her eyes dancing, her face aglow in the crisp air of the hills.

Garry continued to talk on as they sped into the city, elaborating the details of the warehouse venture in which he had invested his present and some of his future commissions, but his words fell on stony ground. The éxpected check was the only thing that filled Jack's thoughts. There was no doubt in his mind now that the decision would be in MacFarlane's favor, and that the sum, whether large or small, would be paid without delay,-Garry being treasurer and a large amount of money being still due Mc-Gowan on the embankment and boulevard. It would be joyous news to Ruth, he said to himself, with a thrill surging through his heart.

Jack left Garry on the Jersy side and crossed alone. The boy loved the salt air in his face and the jewelled lights flashed from the ever-restless sea. He loved, too, the dash and vim of it all. Forcing his way through the crowds of passengers to the forward part of the boat, he stood where he could get the full sweep of the wonderful panorama: The jagged purple line of the vast city stretching as far as the eye could reach; with its flat-top, square-sided, box-like buildings, with here and there a structure taller than the others; the flash of light from Trinity's spire, its cross aflame; the awkward, crab-like movements of innumerable ferry-boats, their gaping alligator mouths filled with human flies; the impudent, nervous little tugs, spitting steam in every passing face; the long strings of sausage-linked canalers kept together by grunting, slow-moving tows; the great floating track-yards bearing ponderous carseight days from the Pacific without break of bulk ; the slinny, far-reading fingers of innumerable docks clutching prey of barge, steamer, and ship; the stately ocean-liner moving to sea, scattering water-bugs of boats, scows and barges as it glided on its way:--all this stirred his imagination and filled him with a strange resolve. He, too, would win a place among the masses-Ruth's hand fast in his.

not be hard. But, alas! the good lady reckoned not upon the magnetic power of attraction of all those lovely objects in detail. She saw them only as a mass of wonders which, in all probability, would so dazzle his vision as to leave him incapable of movement; but Little Billee was not so indifferent as all that.

When a phonograph at the other end of the shop began to rattle off melodious tunes and funny jokes, in spite of the instructions he had received, off he pattered as fast as his little legs would carry him to investigate. After that, forgetful of everything else, finding himself caught in the constantly moving stream of Christmas shoppers, he was borne along in the restless current until he found himself at last out upon the street—alone, free, and independent.

It was great fun at first. By and by, however, the afternoon waned; the sun. as if anxious to hurry along the dawn of Christmas Day, sank early to bed; and the electric lights along the darkened highway began to pop out here and there, like so many merry stars come down to earth to celebrate the gladdest time of all the year. Little Billee began to grow tired; and then he thought of his mama, and tried to find the shop where he had promised to remain quiet until her return. Up and down the street he wandered until his little legs grew weary; but there was no sign of the shop, nor of the beloved face he was seeking.

Once again, and yet once again after that, did the little fellow traverse that crowded highway, his tears getting harder and harder to keep back, and then-joy of joys-whom should he see walking slowly along the sidewalk but Santa Claus himself! The saint was strangely decorated with two queer-looking boards, with big red letters on them, hung over his back and chest; but there was still that same kindly, gray-bearded face, the red cloak with the fur trimmings, and the same dear old cap that the children's friend had always worn in the pictures of him that Little Billee had seen.

With a glad cry of happiness, Little Billee ran to meet the old fellow, and put his hands gently into that of the saint. He thought it very strange that Santa Claus's hand should be so red and cold and rough, and so chapped; but he was not in any mood to be critical. He had been face to face with a very disagreeable situation. Then, when things had seemed blackest to him. everything had come right again: and he was too glad to take more than passing notice of anything strange and odd.



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WOMAN'S SOAP, MADE IN CANADA

Please mention "The Farmer's Advocate."

(To be continued.)

Santa Claus and Little Billee.

By John Kendrick Bangs.

Copyright, The Frank A. Munsey Co. He was only a little bit of a chap, and so, when for the first time in his life he came into close contact with the endless current of human things, it was as hard for him to "stay put" as for some wayward little atom of flotsam and jetsam to keep from tossing about in the surging tides of the sea.

His mother had left him there in the big toy-shop, with instructions not to move until she came back, while she went off to do some mysterious errand. She thought, no doubt, that with so many beautiful things on every side to delight his eye and hold his attention, strict obedience to her commands would Santa Claus, of course, would recognize him at once, and would know just how to take him back to his mama at home—wherever that might be. Little Billee had never thought to inquire just where home was. All he knew was that it was a big-gray stone house on a long street somewhere, with a tall iron railing in front of it. not far from the park.

"Howdidoo, Mr. Santa Claus?" said Little Billee, as the other's hand unconsciously tightened over his own.

"Why, howdidoo, kiddie ?" replied the old fellow, glancing down at his newfound friend, with surprise gleaming from his deep-set eyes. "Where did you drop from ?"

"Oh. I'm out !" said Little Billee bravely. "My mama left me a little while ago while she went off about something, and I guess I got losted."

"Very likely," returned the old saint with a smile. "Little two-by-four fellers are apt to get losted when they start in on their own hook, specially days like these, with such crowds hustlin' around."

"But it's all right now," suggested Little Billee hopefully, "I'm afound again' ain't I?"

"Oh, yes, indeedy, you're found all right, kiddie!" Santa Claus agreed.

"And pretty soon you'll take me home again, won't you ?" said the child.

"Surest thing you know!" answered Santa Claus, looking down upon the bright but tired little face with a comforting smile. "What might your address he?"



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"My what ?" asked Little Billee.

"Your address," repeated Santa Claus. "Where do you live ?"

The answer was a ringing peal of childish laughter.

"As if you didn't know that !'' cried Little Billee, giggling.

"Ha, ha!" laughed Santa Claus. "Can't fool you, can I? It would be funny if, after keeping an eye on you all these years since you was a babby, I didn't know where you lived, eh ?"

"Awful funny," agreed Little Billee. "But tell me, Mr. Santa Claus, what sort of a boy do you think I have heen ?" he added with a shade of anxiety in his voice.

"Pretty good-pretty good," Santa Claus answered, turning in his steps and walking back again along the path he had just traveled-which Little Billee thought was rather a strange thing to "You've got more white marks do. than black ones-a good many more-a hundred and fifty times as many, kiddie. Fact is. you're all right - 'way up among the good boys; though once or twice last summer, you know-"

"Yes. I know," said Little Billee meekly, "but I didn't mean to be naughty."

"That's just what I said to the bookkeeper." said Santa Claus. "and so we gave you a gray mark-half white and half black-that doesn't count either way, for or against you.'

"Thank you, sir," said Little Billee, much comforted.

"Don't mention it; you are very welcome, kiddie." said Santa Claus, giving the youngster's hand a gentle squeeze.

"Why do you call me 'kiddie' when you know my name is Little Billee ?" asked the boy.

"Oh, that's what I call all good boys," explained Santa Claus. "You see, we divide them up into two kinds -the good boys and the naughty boysand the good boys we call kiddies, and the naughty boys we call caddies, and there you are."

Just then Little Billee noticed for the first time the square boards that Santa Claus was wearing.

THE FARMER'S ADVOCATE.

That's more than my little boy is able to do.' Santa Claus shivered slightly, and

Little Billee was surprised to see a tear glistening in his eye. "Why, have you got a little boy?" he

asked. "Yes, Little Billee," said the saint.

"A poor white-faced little chap, about a year older than you, who-well, never mind, kiddie-he's a kiddie, too-let's talk about something else, or Lill have icicles in my eyes."

"You didn't tell me what those letters on the board spell," said Little Billee. "' 'Merry Christmas to Everybody !' " said Santa Claus. "I have the words printed there so that everybody can see them; and if I miss wishing anybody a merry Christmas he'll know I meant it just the same '

"You're awful kind, aren't you?" said Little Billee, squeezing his friend's hand affectionately. "It must make you very happy to be able to be so kind to everybody !"

II.

Santa Claus made no reply to this remark, beyond giving a very deep sigh, which Little Billee chose to believe was evidence of a great inward content. They walked on now in silence, for Little Billee was beginning to feel almost too tired to talk, and Santa Claus seemed to be thinking of something else. Finally, however, the little fellow spoke.

"I guess I'd like to go home now, Mr. "I'm tired, and Santa Claus," he said. I'm afraid my mama will be wondering where I've gone to."

"That's so, my little man," said Santa Claus, stopping short in his walk up and down the block. "Your mother will be worried, for a fact; and your father, too-I know how I'd feel if my little boy got losted and hadn't come home at dinner-time. I don't believe you know where you live, though-now, honest ! Come ! 'Fess up, Billee, you don't know where you live, do you ?"

"Why, yes, I do," said Little Billee. "It's in the big grey stone house with the iron fence in front of it, near the park."

"Oh, that's easy enough !" laughed Santa Claus nervously. "Anybody could say he lived in a gray stone house with a fence around it, near the park; but you don't know what street it's on, nor the number, either. I'll bet fourteen wooden giraffes against a monkey on a stick !"

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"What are you wearing those boards for, Mr. Santa Claus?" he asked.

If the lad had looked closely enough he would have seen a very unhappy look come into the old man's face, but there was nothing of it in his answer.

"Oh, those are my new-langled backand-chest protectors, my lad," he replied. "Sometimes we have bitter winds blowing at Christmas. and I have to be ready for them. It wouldn't do for Santa Claus to come down with the sneezes at Christmastime, you know-no, This board in front keeps the sirree ! wind off my chest, and the one behind keeps me from getting rheumatism in my back. They are a great protection against the weather."

"I'll have to tell my papa about them," said Little Billee, much impressed by the simplicity of this arrangement. "We have a glass board on the front of our ortymobile to keep the wind off Henry-he's our shuffler-but papa wears a fur coat, and sometimes he says the wind goes right through that. He'll be glad to know about these boards."

"I shouldn't wonder," smiled Santa Claus. "They aren't very becoming, but they are mighty useful. You might save up your pennies and give your papa a pair like 'em for his next Christmas."

Santa Claus laughed as he spoke, but there was a catch in his voice which Little Billee was too young to notice. "You've got letters printed there," said the boy, peering around in front of his companion. "What do they spell ?" You know I haven't learned to read

"And why should you know how to read at your age?" said Santa Claus. You're not more than-

"Five last month," said Little Billee proudly. It was such a great age !

"My, as old as that ?" cried Santa "Well, you are growing fast ! Why, it don't seem more than yesterday that you was a pink-cheeked baby, and here you are big enough to be out alone !

"No, I don't," said Little Billee frankly; "but I know the number of our ortymobile. It's-'N. Y.' "

"Fine!" laughed Santa Claus. "If yoù really were lost, it would be a great help to know that; but not being lost, as you ain't, why, of course, we can get along without it. It's queer you don't know your last name, though."

"I do, too, know my last name!" blurted Little Billee. "It's Billee. That's the last one they gave me, anyhow'

Santa Claus reflected for a moment, eying the child anxiously.

"I don't believe you even know your papa's name," he said.

"Yes, I do," said Little Billee indignantly. "His name is Mr. Harrison.'

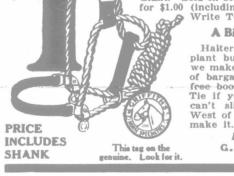
"Well, you are a smart little chap," cried Santa Claus gleefully. "You got it right the very first time, didn't you? I really didn't think you knew. But I don't believe you know where your papa keeps his bake-shop, where he makes all those nice cakes and cookies you eat '

Billee began to laugh again.

"You can't fool me, Mr. Santa Claus." he said. "I know my papa don't keep a bake-shop just as well as you do. My papa owns a bank."

"Splendid ! Made of tin, I suppose with a nice little hole at the top to drop pennies into ?" said Santa Claus. "No, it ain't either !" retorted Little "It's made of stone, and has more than a million windows in it. I went down there with my mama to papa's office the other day, so I guess I

ought to know." "Well, I should say so." said Santa Claus. "Nobody better. By the way, Billee, what does your mama call your



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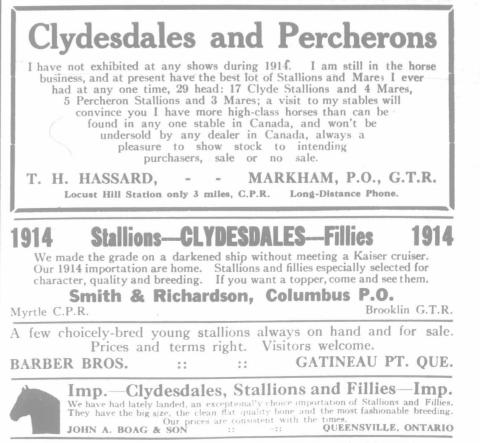
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THE FARMER'S ADVOCATE.

apa? 'Billee,'' like you ?'' he added. ''Oh, no, indeed,'' returned Little papa? returned Little Billee. "She calls him 'papa,' except once in a while when he's going away, and then she says, 'Good-by, Tom.' '' ''Fine again !'' said Santa Claus,

blowing upon his fingers, for, now that the sun had completely disappeared over in the west, it was getting very cold. "Thomas Harrison, banker," he muttered to himself. "What, with the telephonebook and the city directory, I guess we can find our way home with Little Billee."

"Do you think we can go now, Mr. Santa Claus ?" asked Little Billee, for the cold was beginning to cut through his, little coat, and the sandman had started to scatter the sleepy-seeds all around.

"Yes, sirree !" returned Santa Claus promptly . "Right away off now, instantly at once! I'm afraid I can't get my reindder here in time to take us up to the house, but we can go in the carshum ! I don't know whether we can or not, come to think of it. Ah, do you happen to have ten cents in your pocket ?" Santa added with an embarassed air. "You see, I've left my pocketbook in the sleigh with my toypack; and, besides, mine is only toymoney, and they won't take that on the cars."

"I got twenty-fi' cents," said Little Billee proudly, as he dug his way down into his pocket and brought the shining silver piece to light. "You can have it if you want it."

"Thank you," said Santa Claus, taking the proffered coin. "We'll start home right away; only come in here first while I telephone to Santaville, telling the folks where I am."

He led the little fellow into a public telephone station, where he eagerly scanned the names in the book. At last it was found-"Thomas Harrison, 7654 Plaza." And then, in the seclusion of the telephone-booth, Santa Claus sent the gladdest of all Christmas message over the wire to two distracted persons: "I have found your boy wandering in the street. He is safe, and I will bring him home right away."

III.

Fifteen minutes later there might have been seen the strange spectacle of a foot-sore Santa Claus leading a sleepy Fifth Avenue to a crossstreet, which shall be nameless. The boy vainly endeavored to persuade his companion to "come in and meet mama."

Harrison will wish to thank you for bringing our boy back to us. We have had a terrible afternoon."

"That's all right, sir," said Santa Claus modestly. "It wasn't anything, sir. I didn't really find him-it was him as found me, sir. He took me for the real thing, I guess."

Nevertheless, Santa Claus, led by Little Billee's persistent father, went into the house. Now that the boy could see him in the full glare of many electric lights, his furs did not seem the most gorgeous thing in the world. When the flapping front of his red jacket flew open the child was surprised to see how ragged was the thin gray coat it covered; and as for the good old saint's comfortable stomach-strange to say, it was not !

"I-I wish you all a merry Christmas," faltered Santa Claus; "but J really must be going, sir-"

"Nonsense !" cried Mr. Harrison. "Not until you have got rid of this chill, and-"

"I can's stay, sir," said Santa. "I'll lose my job if I do."

"Well, what if you do? I'll give you a better one," said the banker.

"I can't-I can't !" faltered the man. "I-I-I've got a Little Billee of my own at home waitin' for me. sir. If I hadn't," he added fiercely, "do you suppose I'd be doin' this ?'' He pointed at the painted boards and shuddered. "It's him as has kept me from-from the river !" he muttered hoarsely; and then this dispenser of happiness to so many millions of people all the world over sank into a chair, and, covering his face with his hands, wept like a child.

"I guess Santa Claus is tired, papa," said Little Billee, snuggling up closely to the old fellow and taking hold of his hand sympathetically. "He's been walkin' a lot to-day."

"Yes, my son," said Mr. Harrison ravely. "These are very busy times gravely. for Santa Claus, and I guess that, as he still has a hard night ahead of him. James had better ring up Henry and tell him to bring the car around right away, so that we may take him backto his little boy. We'll have to lend him a fur coat to keep the wind off, too, for it is a bitter night."

"Oh," said Little Billee. "I haven't these boards he wears. old you about He has 'em to keep the wind off, and they're fine, papa !'' Little Billee pointed to the two sign-boards which Santa Claus had leaned against the wall. "He says he uses 'em on cold nights," the lad went on. "They have writing on 'em, too. Do you know what it says ?"

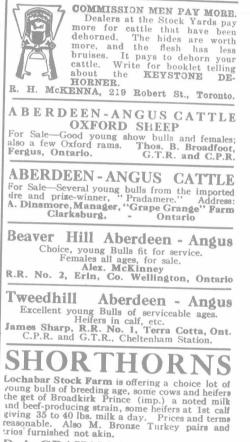
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"No, Billee," the old man replied sadly, "I must hurry back. You see, kiddie, this is my busy day. Besides, I never go into a house except through the chimney. I wouldn't know how to behave, going in at a front door."

But it was not to be as Santa Claus willed, for Little Billee's papa, and his mama, and his brothers and sisters, and the butler and the housemaids, and two or three policemen, were waiting at the front door when they arrived.

"Aha!" said one of the police, seizing Santa Claus roughly by the arm. 'We've landed you, all right! Where have you been with this boy ?"

"You let him alone !" cried Little Billee, with more courage than he had ever expected to show in the presence of a policeman. "He's a friend of mine."

"That's right, officer," said Little Billee's father; "let him alone-I haven't entered any complaint against this man.'

"But you want to look out for these fellers, Mr. Harrison," returned the officer. "First thing you know they'll be makin' a trade of this sort of thing."

"I'm no grafter !" retorted Santa Claus indignantly. "I found the little chap wandering along the street, and as soon as I was able to locate where he lived I brought him home. That's all there is to it."

"He knew where I lived all along," laughed Little Billee, "only he pretended he didn't, just to see if I knew." "You see, sir," said the officer, "It won't do him any harm to let him cool

"It is far better that he should warm them, officer," said Mr. Harrison kindly. "And he can do that here. Come in, my man." he added, turning to Santa Claus with a grateful smile, "Just for a minute, anyhow, Mrs.

"Yes," said Mr. Harrison, glancing at the boards. "It says, 'If You Want a Good Christmas Dinner for a Quarter, Go to Smithers's Cafe.'''

Little Billee roared with laughter.

"Papa's trying to fool me, just as you did when you pretended not to know where I lived, Santa Claus," he said, looking up into the old fellow's face, his own countenance brimming over with mirth. "You mustn't think he can't read, though," the lad added hastily. "He's only joking."

"Oh. no, indeed, I shouldn't have thought that !" replied Santa Claus smiling through his tears.

"I've been joking, have I?" said Lit-tle Billee's papa. "Well, then Mr. Billiam, suppose you inform me what it says."

"''Merry Christmas to Everybody,' " said Little Billee proudly. "I couldn't read it myself, but he told me what it said. He has it printed there so that if he misses saying it to anybody they'll know he means it just the same."

"By Jove, Mr. Santa Claus," cried Little Billee's papa, grasping the old man warmly by the hand, "I owe you ten million apologies ! I haven't believed in you for many a long year; but now, sir, I take it all back. You do exist, and, by the great horn spoon, you are the real thing !" IV

Little Billee had the satisfaction of acting as host to Santa Claus at a good luscious dinner, which Santa Claus must have enjoyed very much, because, when explaining why he was so hungry, it came out that the poor old chap had been so busy all day that he had not had time to get any lunch-no. not even one of those good dinners at

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Fletcher's Shorthorns. Imp. stock bull, Royal Bruce = 55038 = (89909) 273853, for sale or ex-change. Royal Bruce is a choicely-bred Bruce Mayflower: was imported by Mr. Arthur Johnston for his own use. Young stock of either sex for sale. Geo. D. Fletcher, Erin, R.R. No. 2. Long-Distance Telephone. Erin Station, C.P.R.

1854 Maple Lodge Stock Farm 1914

We have sold all the sheep advertized. Have now for sale three young bulls of fine quality and nicely bred for both beef and milk. Come and see our herd. Miss C. Smith, - Clandeboye, R. R. 1

6 SHORTHORN BULLS

25 females, reds and roans, servicable, best type and quality, size: cows milking up to 50 lbs Prices easy. **THOMAS GRAHAM** R. R. No. 3, Port Perry Ont.

Spruce Lodge Shorthorns and Leicesters. Have always on hand to offer a good selection of young bulls and heifers trom the best milking families; also a choice selection of Leicesters of both sexes, including a choice imp 3-year-old ram, suitable for show purposes. W. A. Douglas, Caledonia, Ont., R.R. No. 2

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Smithers's cafe, to which Little Billee's father had jokingly referred. And after dinner Henry came with the automobile, and, bidding everybody good night, Santa Claus and Little Billee's papa went out of the house together

Christmas morning dawned, and Little Billee awoke from wonderful dreams of rich gifts, and of extraordinary adventures with his new-found friend, to find the reality quite as splendid as the dream things. Later, what was his delight when a small boy, not much older than himself-a pale, thin, but playful little fellow-arrived at the house to spend the day with him, bringing with him a letter from Santa Claus himself ! This was what the letter said : "Dear Little Billee :

"You must not tell anybody except your papa and your mama, but the little boy who brings you this letter is my little boy, and I am going to let you have him for a playfellow for Christmas Day. Treat him kindly for his papa's sake, and if you think his papa is worth loving tell him so. Do not forget me, Little Billee. I shall see you often in the future, but I doubt if you will see me. I am not going to return to Twenty-Third Street again, but shall continue my work in the Land of Yule, in the Palace of Good-Will, whose beautiful windows look out upon the homes of all good children

"Good-by, Little Billee, and the happiest of happy Ciristmases to you and all of yours. Affectionately, 'SANTA CLAUS."

When Little Billee'e mama read this to him that Christmas morning a stray little tear ran down her cheek and fell upon Little Billee's hand.

"Why, what are you crying for, mama?" he asked.

"With happiness, my dear little son," his mother answered. "I was afraid yesterday that I might have lost my little boy forever, but now-"

"You have an extra one thrown in for Christmas. haven't you ?'' said Little Billee, taking his new playmate by the hand. The visitor smiled back at him with a smile so sweet that anybody might have guessed that he was the son of Santa Claus.

As for the latter, Little Billee has not seen him again: but down at his fa bank there is a new messenger, named John, who has a voice so like Santa Claus's voice that whenever Little Billee goes down there in the motor to ride home at night with his papa, he runs into the bank and has a long talk with him, just for the pleasure of pretending that it is Santa Claus he is talking to. Indeed, the voice is so like that once a sudden and strange idea flashed .across Little Billee's mind.

THE FARMER'S ADVOCATE.

Ontario will be presented at the forced sale of the herd of Collver V. Robbins, on Wednesday, December 30, 1914. The sire of these richly-bred young things is King Korndyke Inka De Kol, a son of Pontiac Korndyke. He cost Mr. Robbins a great deal of money, but the highclass standard of his herd on the lines of official backing in their breeding, official R. O. M. and R. O. P. records, and superior individual excellence, made it an imperative duty to purchase a sire with breeding of a producing standard high enough to ensure his being capable of transmitting his ancestral qualities to his offspring, and now, after all these years of intelligent effort to get together a herd of Holsteins second to none, circumstances over which he has no control compel him to sell the result of his lifetime's work. It is a sore ordeal, but the breeders generally will get the benefit. The sale will be held at the farm. Conveyances will meet all morning trains at Fenwick, T., H. & B.; Perry, M. C. R., and Marchville, G. T. R., on the day of. sale. Write for catalogue to Collver V. Robbins, Wellandport, R. R. No. 3.

R. W. WALKER & SONS' HOLSTEINS. R. W. Walker & Sons, whose R. M. D. address is now Port Perry instead af Utica as formerly, and whose large herd of 4-per-cent. Holsteins (we say 4-percent. Holsteins because almost every one of them that has been in the R. O. M. and R. O. P. tests has showed a butterfat test of 4 per cent. and over), and the great cow, Madam B. 3rd's Alma 2nd, that won championship honors in the dairy test at the Toronto November show last year has freshened again, and her tests this year run from 4-per-cent. to 5-per-cent. butter-fat, and all her daughters in milk have a test of 4 per We started out to say that the cent. herd are going into winter quarters in grand condition, and show their capabilities in their splendidly - balanced and developed udders. With their usual appreciation of using only the best in highclass sires on the herd, the Messrs. Walker have lately purchased a halfinterest in the great bull, King Segis Pontiac Duplicate, whose thirteen nearest dams have records averaging 26.88 lbs. a son of King Segis Pontlac, with 30 A. R. O. daughters, he by King Segis, daughters

Make Your Stock Profitable

2191

How? By using CALDWELL'S STOCK FEEDS. These guaranteed, highquality feeds have raised many a dairyman's margin of profit. We print and publish the analysis of each product, besides guaranteeing the ingredients to the Government

WELL'S **MOLASSES MEAI**

(84% Purest Cane Molasses and 16% Edible Moss) A complete balanced ration—unequalled as a builder of cattle, horses, sheep and hogs. Contains food elements of great value that are lacking in the most expensive straight diet of cereals. Cuts down feed bills; makes ordinary feed more palatable and more beneficial. CALDWELL'S MOLASSES MEAL gives better results and saves money as well. Send for booklet.

Cream Substitute CALF MEAL

contains Linseed, Wheat, Oat, Corn, Locust Bean, Pea and Molasses Meal in correct proportions to ensure highest results. Fully equal to whole milk for rearing calves. Enables you to sell your milk and yet raise just as good calves. Tests prove it without an equal for "vealing-up" purposes. Send for booklet.

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A high protein, carefully-proportioned cow ration for the production of milk. Prepared from carefully-selected materials thoroughly recleaned, guaranteed free from mill sweepings, oat hulls or other cheap "fillers." Will get you bigger milk yields and keep your herd in prime condition. Send for booklet.

The Caldwell Feed & Cereal Co., Limited Largest Feed Mills in Canada **DUNDAS. ONTARIO**

Angus Bulls and Dorset Rams For Sale-Young bulls of the best Aberdeen Angus type They are unexcelled for crossing in grade herds. Dorset Horn Ram Lambs at a low figure for immediate delivery. They are good. Write for prices. FORSTER FARM. OAKVILLE, ONT.

Choice young bulls that have won their colors. Choice cows and heifers that have done the same. Suffolk flock headers of highest quality, also shearling and ewe lambs. Come where the best is bred for your breeding stock. JAMES BOWMAN, GUELPH. ONTARIO

SUFFOLK

SHEEP

100

"Have you ever been on Twenty-Third

messenger, scratching his head as if very

rather vaguely.

said John, "I ve heard tell of Twenty-Third Street, and they say it is a very beautiful and interesting spot. But, you know. I don't get much chance to travel. I've been too busy all my life to go abroad."

"Abroad!" roared Little Billee. grinning at John's utterly absurd mistake. "Why, Twenty-Third Street ain't abroad! It's up-town-near-oh, near-Twenty-Second Street."

'Really ?'' returned John, evidently remendously surprised. "Well, well, well! Who'd have thought that? Well, if that's the case, some time when I get I week off I'll have to go and spend my acation there !"

From which Little Billee concluded that his suspicion that John might be anta Claus in disguise was entirely thout foundation in fact.

Gossip.

RANDSONS AND GRANDDAUGHTERS

OF THE GREAT PONTIAC KORN-

uction to the highest bidder absolutely

ithout reserve. This unparalleled op-

DYKE BY AUCTION.

Street, John ?" he asked. "Twenty-Third Street ?" replied the much puzzled. "What's that ?" "Why, it's a street," said Little Billee "Well, to tell you the truth, Billee,

with R. King of the Pontiacs, with 89 A. R. O. daughters, he by Pontiac Korndyke, with 86 A. R. O. daughters. This is the best breeding the breed produces. He is thus three-quarters brother in blood to the \$50,000 King Segis Pontiac Alcartra. Assistant in service is Pontiac Hengerveld Pietertje, a grandson of Hengerveld De Kol, with 116 A. R. O. daughters. His dam is a daughter of Dutchland Sir Hengerveld Maplecroft, a brother of De Kol Ormelle, with a R. O. P. record of 29,591 lbs. All the younger things, including the several young bulls for sale, are the get of Imperial Pauline De Kol, whose fifteen nearest dams' records averaged 26 lbs.

Trade Topic. FAST MONTREAL-TORONTO-DETROIT-

CHICAGO TRAIN SERVICE.

These solid de luxe trains, carrying buffet - library - compartment-observation cars, electric - lighted standard sleepers, together with standard dining - car service between Montreal - Toronto - Detroit-Chicago, via Canadian Pacific and Michigan Central railroads, are known as "The Canadian," and operated daily through the Michigan Central twin tubes between Windsor and Detroit.

Westbound: Leaving Montreal 8.45 a.m., arriving Toronto 5.40 p.m.; leaving Toronto 6.10 p.m., leaving London 9.33 p.m., arriving Windsor 12.10 a.m. arriving Detroit 11.35 p.m. (central ing Chicago 7.45 a.m.

Eastbound : Leaving Chicago 6.10 p.m. (central time); arriving Detroit (M. (M.C.R. Deput) 12.43 a.m.; leaving Detroit (Fort street) 11.40 p.m., leaving Windsor (C. P. R.) 1.20 a.m. (Eastern time), leaving Windsor (M.C.R. Depot) For the first time in the history of 2.10 a.m., leaving London 5.15 a.m.; lolstein sales in Canada, grandsons and arriving Toronto 8.30 a.m.; leaving Franddaughters of the breed's greatest Toronto 9.00 a.m., arriving Montreal

re, Pontiac Korndyke, will be sold by 6.10 p.m. Full particulars from Canadian Pacific ticket agents, or write M. G. Murphy ortunity for the Holstein breeders of District Passenger Agent, Toronto.

From 1909 to 1914 our herd has maintained their supremacy as Canada's Champion Herd. We have several 20-months' old bulls bred in the leading herds of the United States, and others got by our noted champion, Refiner, all of high class quality. Females all ages. Get the best when selecting a herd-header. L. O. Clifford, Oshawa, Ont. **ESCANA FARM SHORTHORNS** 00 For sale, 25 Scotch bull calves from 6 to 12 months; 25 Scotch heifers and young cows bred to Right Sort, imp., and Raphael, imp., both prize-winners at Toronto. MITCHELL BROS., Props., Burlington P.O., Ont. Jos. McCrudden, Mgr. Farm ½ mile from Burlington Junction. PLEASANT VALLEY FARMS SHORTHORNS Herd headed by Imp. Loyal Scot. Have for sale, 10 high-class young bulls of herd-heading quality and several of the milking type. Also females of the leading families. Consult us before buying. Farm 11 miles east of Guelph: GEO. AMOS & SONS. Consuit us before buying. GEO. AMOS & SONS, MOFFAT, ONTARIO. C.P.R., 1/2 mile from station. 10 Shorthorn Bulls, 9 Imported Clydesdale Mares Our bulls are all good colors and well-bred. We also have Shorthorn females of all ages. In addition to our imported mares, we have 7 foals and yearlings. Write for prices on what you require. W. G. PETTIT & SONS, Freeman, Ontario Bell Telephone. Burlington Junction, G.T.R., 1/2 mile. Scotch—SHORTHORNS—English—If you want a thick, even fleshed heifer for either show or breeding purposes, or milker bred to produce milk; remember I can surely supply your wants. A. J. HOWDEN Myrtle C.P.R.; Brocklyn, G.T.R. COLUMBUS, P.O., ONT. Belmont Farm Shorthorns Herd headed by "Nero of Cluny" For Sale—a number of young bulls and heifers, also young cows sired by "Massie Marquis" with calves at foot. R. R. No. 2, - SCOTLAND, ONTARIO - Long-Distance Telephone

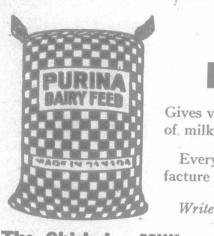
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SALEM STOCK FARM HOME OF THE CHAMPIONS Special prices of Twenty Shorthorn Bulls during Winter Fair Week. Many of them are good enough to head the best herds. Others big and growthy that will sire the best kind of steers. Elora is only thirteen miles from Guelph. Three Trains daily each wity. J. A. WATT. Woodholme Shorthorns and Berkshires Young bulls, cows and heifers of choicest Scotch breeding and high-class quality. Also young sows bred and ready to breed. G. M. FORSYTH, - Claremont, P.O. and Stn., C.P.R.

HAY P.O., ONT. H. SMITH 12 SHORTHORN BULLS and as many heifers for sale Write your wants. You know the Harry Smith Standard.

HIGH-CLASS SCOTCH SHORTHORNS

We have a choice selection of richly-bred young herd headers, the thick, mellow, good doing kind. Visit our herd and make your own selection. RICHARDSON BROS., - COLUMBUS, ONTARIO Myrtle C.P.R.; Oshawa, C.N.O. and G.T.R.; Brooklyn, G.T.R. Sts.



Dairy Feed Gives very satisfactory results in tests

Purina

of milk production.

Every ingredient used in its manufacture is a staple feed. No filler used.

Write us for circulars and prices.

The Chisholm Milling Co., Limited, Toronto

ROSEDALE STOCK FARM SHORTHORN BULLS Some of them fit to head the best herds in the country.

Some are from heavy milking dams. Six are from imported dams. G.T.R. C.P.R. J. M. GARDHOUSE Street Railway and Long-Distance Telephone

SHORTHORRNS I have 15 young Shorthorn bulls, some fit for service now. Part of them are bred and made so that they are fit to head the best herds in any country; some of of them are bred from the best-milking Shorthorns, and the prices of all are moderate. I have SHROPSHIRE and COTSWOLD rams and ewes of all valuable ages. Write for what you want I can suit you in quality I can suit you in quality and price. Robert Miller, Stouffville, Ontario

Poplar Hall Shorthorns If you want a herd-header of the highest possible individuality and richest possible individuality and richest possible most breeding, visit our farm; sired by the great Uppermill Omega, Imp.; we have C. Butter-flys and Lovelys, Marr Roan Ladys and Cinderellas, from 7 to 18 months of age. MILLER BROS., R.R. No. 2, CLAREMONT, ONTARIO Claremont C.P.R. Pickering G.T.R. Greenburn C.N.R., Sta

BULLS AND FEMALES At greatly reduced prices, as my sale had to be called off on ac-count of the weather. Herd must be reduced, as I am short of feed and stabling. Low prices for quick sale. Myrtle, C. P. R. and G. T. R. John Miller, Ashburn, Ont. IRVINE

DALE SHORTHORNS Herd is headed by Gainford Select (a son of the great Gainford Marquis). A number young bulls of choice breeding and out of good milking strains. Also a few heifers. J. Watt & Son Elora Station :: :: Salem, Ontario

SHORTHORNS and CLYDESDALES We have a nice bunch of bull Sept., and are offering females of all ages; have a choice lot of heifers bred to Clansman = 87809 = One stallion three years old, a big, good quality horse, and some choice fillies, all from imported stock. A. B. & T. W. Douglas Long-Distance 'Phone Strathroy, Ontario

Questions and Answers.

1st—Questions asked by bona-fide subscribers to The Farmer's Advocate'' are answered in this

department free. 2nd—Questions should be clearly stated and must be accompanied by the full name and address of the writer. 3rd—In veterinary questions, the symptoms especially must be fully and clearly stated, other-wise satisfactory replies cannot be given. 4th—When a reply by mail is required to urgent veterinary or legal enquiries, \$1.00 must be enclosed.

Veterinary.

Lump on Shoulder.

Mare has a lump on her shoulder. When she is used for work it enlarges and becomes sore. It has been blistered without results. D. R.

Ans.-This is a fibrous tumor, and local applications will do little or no good. It must be carefully dissected out, the wound stitched, and then dressed three times daily until healed with an antiseptic, as a five-per-cent. solution of car-bolic acid. It will be wise to get a veterinarian to operate.

Lumps on Fetlock.

A year and a half ago a soft lump appeared on the front of the near fore fetfock of a colt now rising three years of I lanced this and pus escaped. age. The lump then became hard, and is now the size of a hen's egg. She is not lame. What can I apply to remove it permanently ? W. S. S.

Ans .- It is not probable that any application will remove it. It can be reduced to a greater or less extent by rubbing well once daily with the following liniment, viz .: Four drams each of iodine and iodide of potassium, mixed with four ounces each of alcohol and glycerine. It is probable that it could be removed by an operation by a veterinarian, but as it is so close to the joint none but a veterinarian should operate.

Inversion of Vagina.

Heifer calves last January, and after calving she inverted the neck of the womb. My veterinarian treated her and applied a truss, and we placed a platform under her hind legs, and she got all right. She will be due to calve again in February, and is again inverting the neck of the womb. C. J.

Ans .- It is not the neck of the womb, but the vagina that is inverted. Build purpose, or what would you advise? I a false bottom in her stall (the stall must be a narrow one with the sides running well back so that she cannot turn her hind part off) one foot higher behind than in front. Wash the inverted portion thoroughly with one part laudanum to ten parts water, then replace it and tie her in the stall. If she continues to press, inject a little of the solution of laudanum into the vagina occasionally. If this does not check the inversion, apply the truss again. The truss will not cause trouble, but, of The course, must be removed when parturition commences. It will be wise not to breed her again, as the trouble will probably recur.

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Warts.

Mare is troubled with warts, especially one between her hind legs, just posterior to the mammæ. This has been removed three times, once by a knife, and twice by a cord tied tightly around it. It looks as though it might return. The mammæ is slightly swollen.

R. M. A.

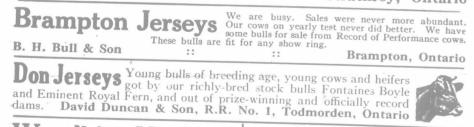
Ans .- Apply butter of antimony to the raw surface where the wart has been taken off once daily, with a feather. Pick off the scab occasionally in order to allow the dressing to reach the remains of the wart. If this does not check the re-growth, she must be cast and firmly secured, and all diseased tissue carefully dissected out. In some cases these growths are malignant, and the re-growth cannot be prevented. We do not think the swelling of the mamme will be serious unless it be involved with the growth.

Miscellaneous.

Sweet Clover.

I have seen considerable in the papers this fall re sweet clover, and should like some information about it. The articles referred to seemed to take it for granted that everyone knew it. Now, I confess my ignorance in regard to it. I don't know as I ever saw it. My reasons for asking about it are : From what I saw about it, it grows a crop the first year. My land that I seeded the past season was a failure owing to the prolonged drought, and I, will be short of hay and pasture grass another year, besides having my rotation upset. Would you advise sowing sweet clover for pasture or hay? I also had intended sowing a piece of poor land with peas and plowing down for manure. as I am short of manure, but as peas have taken to soaring, I was wondering if sweet clover would do instead. What time would it require to be sown, and quantity to the acre, to be fit to be plowed in for fall wheat? Is it hard to kill? Would once plowing be sufficient to kill it? What would it cost per acre to seed it? Is crimson clover the same as sweet clover ? Would it be of any use for my

3. What gest for wi have a flock and one Ba bred. 'The they are no of oats in half quarts and water. a week, and they move scratch. 4. I had a growth womb abou and three-qu called a ve this ring h there was n The cow did have her. good cow. breed her a Ans.-1. J high-class d advise cross to handle p one of the steins, Ayrs get them, 1 horns will possible for best breed. you get, and ment given. 2. We wo breeds.



Woodbine Holsteins Young bulls and bull calves, sired by Duke Beauty Pietertie; sire's dam's record 32.52 lbs. butter, and his two granddams are each 30-lb cows, with 30-lb. daughter with 30-lb, granddaughter. Three generations of 30-lb. cows. If you want a bull that will prove his value as a sire, write: A. KENNEDY & SON, R.R. No. 2, Paris, Ont. Stations: Ayr, C.P.R.; Paris, G.T.R.

Holstein-Friesian Association of Canada

Application for registry, transfer and membership, as well as requests for blank forms and all information regarding the farmer's most profitable cow, should be sent to the Secretary of the Association,

W. A. CLEMONS, St. George, Ontario Maple Grove Holsteins

Do you know that Tidy Abbekirk is the only cow in the world that produced three sons who have each sired 30-lb butter cows, and two daughters with records greater than her own ? She was bred, reared and developed at Maple Grove. Do you want that blood to strengthen the trans-mitting power of your herd, at live and let live prices then write:—H. BOLLERT, TAVISTOCK, ONT. R.R. NO. 1

Great Yearling Holstein Bull For Sale **Ureal learning Holstein Dull For Sale** out of the cow Victoria Burke with the wonderful record of 100 Da. milk in 1 day, 686.6 lbs. in 7 days, 2,538.2 lbs. milk in 1 day, 686.6 lbs. in 7 days, 2,538.2 lbs. of butter in 30 days. This cow ranged fourth in 1913 Records, 30 day class. The bull is sired by Fairview Korndyke Pontiac with ten sisters all with records over 30 lbs. butter in 30 days. Come and see or write: FAMES A. CASKEY. - MADOC. ONT.

JAMES A. CASKEY, - MADOC, ONT. BUY THE BEST 4 Holstein Bulls

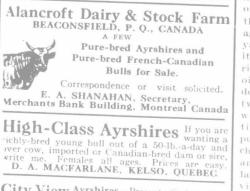
BEST T ALLOYCEAR ALLOYCEAR ALLOYCEAR ready for service and several calves. Females all ages, cows in R.O.P. and R.O.M. milking up to 19,000 pounds. Bulls in service—"King Segis Pon-tiac Duplicate" and "King Fayne Segis Clothilde." R. M. HOLTBY, R. R. 4, Port Perry, Ont. Manchester, G.T.F. Juyr'le, C.P.R.

The Maples Holstein Herd offers sons of Prince R. O. M. and R. O. M. sisters and dam of Duchess Wayne Calamity 2nd, Canadian champion 2-year-old for butter in R. O. P. test, 16,714 lbs. milk, 846 lbs. butter. These fellows are ready for ser-vice. Write for prices to WALBURN RIVERS, R.R. No. 5, Ingersoll, Ont.

Holsteins, Yorkshires and Cotswolds. For R.O.P. and untested females, bred to and calves of both sex sired by Ourville Sir Abbekerk, whose 4-year-old dam gave 19,375 fbs. milk in 310 days. Also Yorkshires of both sex. Write: Richard Also Yorkshires of both sex. Write: Richard Honey & Sons, Minster Farm, Brickley, Ont.

Lakeside Ayrshires The herd is headed by the well-known Auchenbrain Seafoam (Imp.) = 35755 =. A few young bulls for sale from Record of Performance Dams, imported and home-bred.

Geo. H. Montgomery, Proprietor Dominion Express Building, Montreal. D. McArthur, Manager, Philipsburg, Que.



City View Ayrshires—Present offering: Two young bulls fit for service. One two-year-old test. James Begg & Son, R. R. No. 1, St. Thomas

Partial Paralysis.

Calf was kept in stable all summer and fed on skimmed milk, bran, oats and oat chop, and nice hay. When three months old I had to tie it, and I let it out three times weekly for exercise. It was fat and well until about 41 months old, when it became lame or stiff. It is now 6 months old, and is very poor, and so stiff that it has great difficulty in rising. It eats well, and I am feeding one-half pail pulped turnips daily, with good hay, and a little molasses. L. G. M.

Ans .- It is suffering from partial paralysis, no doubt caused by too high feeding and too little exercise. If, instead of being tied and allowed exercise only three times weekly after three months of age, it had been kept in a box stall or yard, or allowed plenty of exercise daily. it is probable it would have done all Give it one-half pint raw linseed right. oil, and repeat in twelve hours. If this does not cause purgation, repeat every twelve hours until it does. Follow up with twenty grains nux vomica three times daily. Continue giving it the pulped roots, good hay and bran, and chopped oats with the hulls sifted out. and keep in a comfortable box stall, as large as possible, or make some provision under which it can take regular exercise. If it will not exercise voluntarily, force it to exercise, and give a dose of raw oil whenever the symptoms indicate that it is needed. 1.

buckwheat. but much in it. ENQUIRER.

have tried

Ans .- We have from time to time during the past year published a great deal of information about sweet clover. This past summer we tried a small plot of it at Weldwood, and the results were very gratifying. The cattle ate it readily, and it seemed to be especially good feed. and that which was made into hay is indeed very good hay. One of the strongest points in favor of sweet clover is its value for plowing down. It may be sown with a nurse crop of barley early in the spring, or as we did, sow it alone twenty pounds per acre alter seeding. It must be sown thick in order that it does not grow a rank. woody plant. It should suit your purpose for plowing down very well. You should, however, plow it down before it seeds, or just about the time it shoots to flower. The crimson clover is not the same plant. It costs about 20c. to 25c. per 1b.

LAST CALL FOR E. C. GILBERT'S HOLSTEIN SALE.

Long before this every one interested will have received a catalogue giving full particulars of the breeding and official backing of the Holsteins to be sold at E. C. Gilbert's sale at Talbotville, on Tuesday, Dec. 22nd. The large number, 45 head, to be sold, is a guarantee that among the lot will be found something to suit the ideal of any one attending, no matter how high his standard may be. The cattle will be sold and will be offered in right nice field condition. An electric car leaves London and St. Thomas every hour, passing through Talbotville, where conveyances will meet every car from 10 a.m. to 1 p.m. Arrange to attend the sale.

The Reason .- Mrs. Whittler-"What delightful manners your daughter has !"

Mrs. Biler (proudly)-"Yes. You see. she has been away from home so much." -Smart Set.

3. For wi better than Rocks, Whit Reds. or Bu get a laying mer layers, class by her you feed the about six in This will in should also rolled oats. get green fee mangels, or grit and oys 4. If the ing well, we should not better const

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Ouestions and Answers. Miscellaneous.

Engineers License.

1. Where can engineers' license papers' trustee? be obtained in Ontario to run and operate steam boilers ? 2. What are the fees for same?

H. C. J. tion? Ans .- 1 and 2. Write the Secretary, Department of Agriculture, Toronto.

Retail Journal.

able paper, the names, addresses and ing in said section ? subscription prices of the Canadian journals devoted to the retail mercantile 2. Yes. and grocers' interests ? G. Ans .- Write the Canadian Grocer, Macdean Pub. Co., Toronto.

Sweeny.

Please give treatment for three-yearold colt that was sweenied this fall, but but some time later the agent called and not lame. W. G.

Ans.-Do not work. Get a blister made of two drams each of biniodide of mercury and cantharides, mixed with two ounces of vaseline. Clip the hair off the parts, and rub well with the blister once daily for two days, and on the third day wash off and apply sweet oil. The animal should be tied so that it cannot bite the parts. When applying the oil, let loose and oil daily until the scab comes off. As soon as the scab is off blister again if necessary.

Cows, Hens, etc.

1. What class of cows would you advise a man to get for dairy purposes?

a Durham and a Guernsey, or Ayrshire? drawn in place of the one due next fall, 3. What class of hens would you suggest for winter and summer laying? I 'have a flock of twenty Barred Rock hens, be released from the others which are and one Barred Rock cockerel, very well believed to be lost. bred. 'The hens are one year old, and they are not laying. I feed two quarts of cats in the morning and one and a colt five months old, without having to

Voting.

1. Can a man owning property in a rural-school section, he not being a ratepayer and living in an incorporated village, vote in said section for

THE FARMER'S ADVOCATE.

2. Can a man owning property in a rural-school section, and a ratepayer of said section, he living in an incorporated village, vote for trustee of said sec-

3. A farmer's son, twenty-one years ol age, and on the voters' list, goes West for two or three months during harvest and returns home. Has he a legal vote Kindly inform me, through your valu- at annual rural-school meeting, he resid-I. X. L. Ans.-1. We think not.

3. Yes, if he is a ratepayer.

Payment for Machinery.

1. I gave two notes for machinery, one due this fall and the other next fall. Not being notified of their maturity, I wrote the company and received no answer; said that the company say they have no notes in their possession and he cannot find them at home, and he thought they were sent in with some other notes. Now he asks for new notes. Should I have given them ?

2. What steps should be taken by the agent or by the writer before doing so? 3. Can the company collect the amount of the notes (the order given for the implement being in their possession), even though they do not be found ?- R. W.

Ans .--- 1, 2 and 3. You should be careful before giving new notes. Of course, the company can collect the acknowledged price for the machinery, but you must be careful not to give them a double hold. Why not pay the note that is due this fall and have your receipt made out so as to make the lost note 2. Would you suggest a cross between null and void, and then have a new note and so worded as to make that note null and void? You should insist before you pay or give new notes that you

Hen Lice, Worms, Black Teeth.

1. What is good to kill hen lice on a



2193

(A short distance from Talbotville Station, on the Traction line between London and St. Thomas, where conveyances will meet all cars both from London and St. Thomas, between the hours of 10 and 1 p.m.). Mr. E. C. Gilbert will sell by auction, 45 head of high-class Holstein cattle. Seven young bulls from nine to eleven months of age; the balance famales before and mature cover. Heavy millers and high testare were

females, heifers and mature cows. Heavy milkers and high testers; very many of them over 4% B.F., richly bred on producing lines and high-class

Terms-Cash or six months on bankable paper with 6%.

For Calalogue, write E. C. Gilbert, R.R. No. 7, St. Thomas, Ontario. MOORE & DEAN, SPRINGFIELD, ONTARIO, AUCTIONEERS.

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half quarts corn at night. Lots of milk and water. I clean their coop out once lura week, and they do not lay, nor will leal they move out from the building to his scratch. f it 4. I had a cow calve last March with erv ed. is the ver

a growth around the outside of the womb about three inches in diameter and three-quarters of an inch in size. I called a veterinarian and he found that this ring had to be cut off entirely, as there was no other way to save the cow. The cow did well all summer, and I still have her. She is five years old and a good cow. Would you advise me to breed her again? C. A. L.

Ans.-1. If you are going into the high-class dairy business we would not advise crossing. If you do not feel able to handle pure breds, get grades of any one of the good dairy breeds, as Holsteins, Ayrshires or Jerseys. If you can get them, heavy-milking grade Short-horns will prove profitable. It is impossible for us to state which is the best breed. It all depends on the strain you get, and upon the care and management given.

2. We would not favor crossing these breeds.

3. For winter layers there is nothing better than a laying strain of Barred Rocks, White Wyandottes, Rhode Island Reds. or Buff Orpingtons. Be sure you get a laying strain of them. For summer layers, the White Leghorn is in a class by herself. We would suggest that you feed the whole grain in a litter of about six inches of rather short straw. This will induce them to scratch. You should also give them a mash, such as rolled oats. and besides this they should get green feed in the form of cabbage or mangels, or sprouted oats, and plenty of grit and oyster shell.

4. If the cow is now healthy and doing well, we see no reason why she should not breed all right. You had better consult your veterinarian, however, and find out whether the operation which he performed would in any way injure her for breeding purposes.

clip the colt?

2. I have a mare which seems to keep very thin. I think she has worms. She is in foal. Would you advise feeding meal? If not, tell me something that is good for worms.

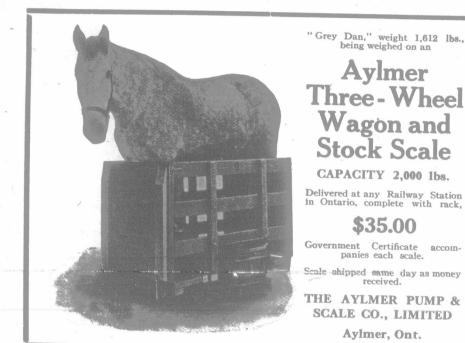
3. At what age should black teeth be taken out of pigs? Do black teeth hurt young pigs when the sow is on grass? A SUBSCRIBER.

Ans.-1. Get some proprietary lousekiller. It is usually effective. Be sure and work the powder well into the animal's hair. Another very good mixture may be made of ordinary cement and hellebore, four of cement to one of hellehore.

2. The meal mentioned would be all right for the horse, but, of course, would not cure it of worms. Try $1\frac{1}{2}$ ounces each of powdered sulphate of iron, sulphate of copper and tartar emetic. Mix and make into 12 powders. Give a powder every night and morning in damp food, or mix in a half pint of cold water as a drench. After the last powder has been given, feed bran only for 8 or 10 hours, and then give 11 pints of raw linseed oil. Give water in small quantities, and often.

3. While many people believe that black teeth are troublesome in swine, it is generally believed that in themselves they do no damage, and swine breeders should not bother much about them. Of course, if it is discovered that hogs have decayed teeth and are suffering from them, they should be removed.

The Provincial Fruit Branch announces its intention of holding apple-box pack-The ing schools again this season. packing school is not a demonstration of how to pack, but an opportunity for those wishing it to learn how to pack by actually doing the work themselves under a competent instructor. The length of the course this year will be only two days, and the work is in charge of the District Representatives. At least ten pupils must be guaranteed



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We are making a Special Offer for 30 days of 50 fine registered yearling ewes, bred to our imported ram to lamb in April. Also 50 ram lambs amongst them, a lot of big, strong fellows for flock-headers. Also a few nice ewe lambs, and a few good Hampshire ram lambs. C.P.R. Guelph and Arkell. Phone: Guelph, 240 ring 2. G.T.R., Guelph St. and Telegraph. Henry Arkell & Son, Route 2; Guelph, Ontario

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Are as good as the best, because they combine the bloods of the following noted sires;—M. G. Cham-pion 20102, Champion boar at Toronto, 1906; S. H. Jack, Imp. 28515, Champion boar at Toronto, 1908, 1909, 1910; and S. H. Romeo 27th, 24653, is the peer of them all. Our brood sows, in view of the above, could not but be of a very high class, combining great size, true type, and easy feeding qualities. For Sale-20 sows in farrow, 10 boars fit for use. A grand lot of young stock. Write us today. H. S. McDIARMID. - FINGAL, P.O., ONT

Ouestions and Answers. Miscellaneous.

Setting Aside Will-Landlord and Tenant-Live Stock Inspectors.

1 Is the failure of one party to accept terms of a will all that is necessary to break it, or what? 2. Could a widow who has been left a

certain amount per year as long as she lives, out of her husband's estate, which was willed to another person, break the will, or cause the property to be sold if she considered she did not get her third, or would the will stand as a decision to this ?

3. A rents farm from B, and B allows him so much for repairing barns. (a) Would a clause stating this above agreement if placed in the lease, give A a just claim on property for repairs? (b) Would it spoil validity of lease in any way ?

4. What are the license fees for a (a) County, (b) Provincial Auctioneer, or (c) does the former vary ?

5. What qualifications are necessary, and how could a person become a Government Inspector of Live Stock ? About what salary do they receive ?

6. How would metal - sheeting siding compare with lumber for a barn as to cost and durability ? L. T. Ontario.

Ans.-1. No. It depends upon a variety of circumstances.

2. The will would not be set aside for the reason suggested alone. Other and much stronger grounds would be required. But the widow is not compelled to accept the provisions in her favor contained in the will. She may elect to take, instead, her dower, that is to say, her estate for life in one-third of her husband's lands, if any.

8. (a) We think not. (b) No. 4. (a) These are fixed by by-law of the Municipal Council of the particular County. (b) We do not find any statutory provision for Provincial auctioneers, or the licensing of such. (c)

5. Write the Department of Agriculture (Live-stock Branch), Ottawa, for the desired information.

6. Quite favorably

Miscellaneous Enquiries.

1. My neighbor, who is going to build

FOUNDED 1866

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2. B accepts the mortgage as security for the balance due him. The house and lot do not enter into the transaction at all, and can not be appropriated for that purpose.

3. The trustees should report this matter to the inspector, who will deal with it as occasion demands.

4. The neighbor may gather the applesand cut the limbs off even with the line fence.

* 5. This sojourn there does not entitle you to ownership of the property.

6. Yes. 7. No.

8. This is a matter which will depend on judgment. If one wilfully puts hives of bees where they are a menace to neighbors or public, he is endangering his own position.

9. The time starts when the man and team leave home. Where people are interested in their roads, they are usually at the pit at 7 a.m.

10. Write the Secretary of the Do minion Temperance Alliance, Toronto. 11. Write him.

Soft Water.

1. Is rainwater out of a cement cistern as good for horses as hard water? 2. Will lime improve soft water for heaves ? J. A. P.

Ans.-1. If it is clean and pure, yes 2. No.

Where Calendars are Made.

Would you kindly let me know where h could get calendars made, and what they would cost me by the hundred? W. G.

Ans .- The London Printing and Lithographing Co., of London, Ont., have a department devoted to this work. Write them, stating the class of calendar you wish made, and procure prices from them

Mating Turkeys.

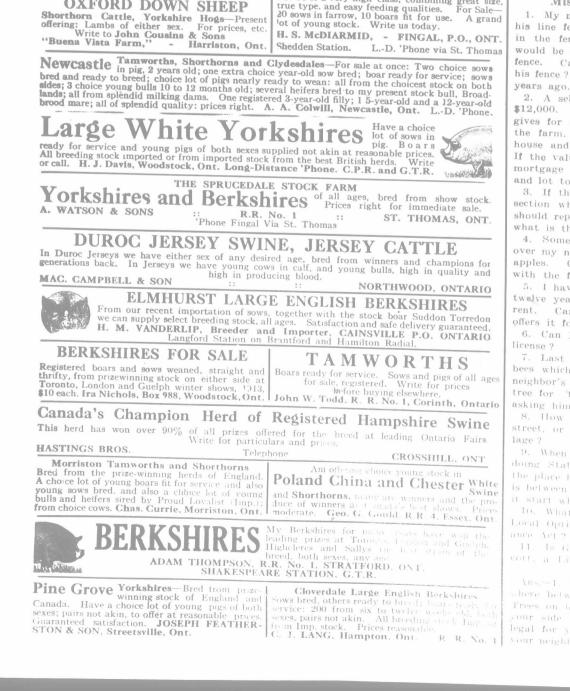
Last spring I had a young turkey hepthat failed to mate with the male bird, and eggs were not fertile. Can you tell me, through your paper, if it might be possible she would mate next spring? Hen is a fine, big bird, and I would like to keep her. D. E. S.

Ans .- We cannot say. A big, healthy bird, should be a breeder.

Eczema.

Kindly inform me, through the columns of your paper, if there is anything that I could get to cure eczema ip





fence, said all trees which were in the fence corners were his, as they would be on his side when he built the fence. Can I cut them before he builds his fence ? He cut all on his side a few

2. A sells his 200-acre farm to B for \$12,000. B pays \$2,000 down, and gives for the remainder a mortgage on the farm. B at the same time has a house and lot in town clear of debt. If the value of the farm falls below the mortgage value, can A take B's house and lot to make up the mortgage value? 3. If there are children in a school section who do not go to school, who should report them to the inspector, and what is the penalty ?

4. Some limbs of my apple trees hang over my neighbor's fence, who claims the apples. Can he cut off the limbs even with the fence ?

5. I have lived in my uncle's house for twelve years, paying the taxes, but no rent. Can he claim the house, as he offers it for sale?

6. Can I buy and sell fowl without a

7. Last summer I lost a swarm of bees which I followed to a tree in my neighbor's woods. Can I cut down the tree for 'the honey in the fall without asking him ?

8. How far must bee hives be from a street, or a neighbor's fence in a vil-

9. When does a farmer's time start in doing Statute Labor, when he gets to the place he is putting the gravel, which is between his place and the pit, or does it start when he gets to the pit?

10. What is the difference between Local Option and the Canadian Temper-

11. Is G. Evantural, M.P.P. for Prescott, a Liberal or Conservative?

T. H.

Ans.-1. There is an actual line somewhere between you and your neishbor. frees on his side belong to him, and on your side they are yours. It is not legal for you to cut trees belonging to horses ? They are dry in the hair, hide is full of dust, have itchiness all over body, head, mane, and tail. Veterinary calls it eczema. A. M.

Ans .-- Your veterinarian is doubtless correct. Eczema in horses is often very hard to treat. Unless the animal's hair is very short, have him clipped. It will be necessary at this season of the year after clipping to keep in a warm place or blanketed. Give each horse a thorough washing with strong, warm, soft-soap suds, well applied with a scrubbing brush. After this, dress thoroughly every second day until cured with a warm, five-per-cent. solution of Creolip in water. Give each horse one ounce of Fowler's Solution of Arsenic mixed with a pint of cold water and then mixed up with chop or bran, or as a drench, twice daily every second week for six weeks.

Potato Digger.

Three farmers, A. B and C. buy potato planter and digger in partnership, onethird share each, with the understanding that nobody but themselves are to use them. C sells his share to D without asking A's and B's consent. A and ${\mathfrak B}$ refuse to accept D as partner, and offer to buy his share at a price which all agree to. 1) refuses to sell, and wants to buy A's and B's shares.

1. Has C any legal right to sell his share without consulting or getting the consent of A and B?

2. Can A and B compel D to sell to them at agreed value, or can I' compel them to accept him as partner or sel M. R. H.

Ans.-1. We see nothing in the agree ment as far as indicated in the question to hinder C from selling his right of share in the potato-digger, but it would have been wiser to have consulted A and B first

2. We think A and B cannot compel D to sell to them at agreed value. We see no reason why D cannot insist upon being a partner in the deal if he has bought C out, but D cannot compel A and B to sell to him.

DECEMBER 17, 1914

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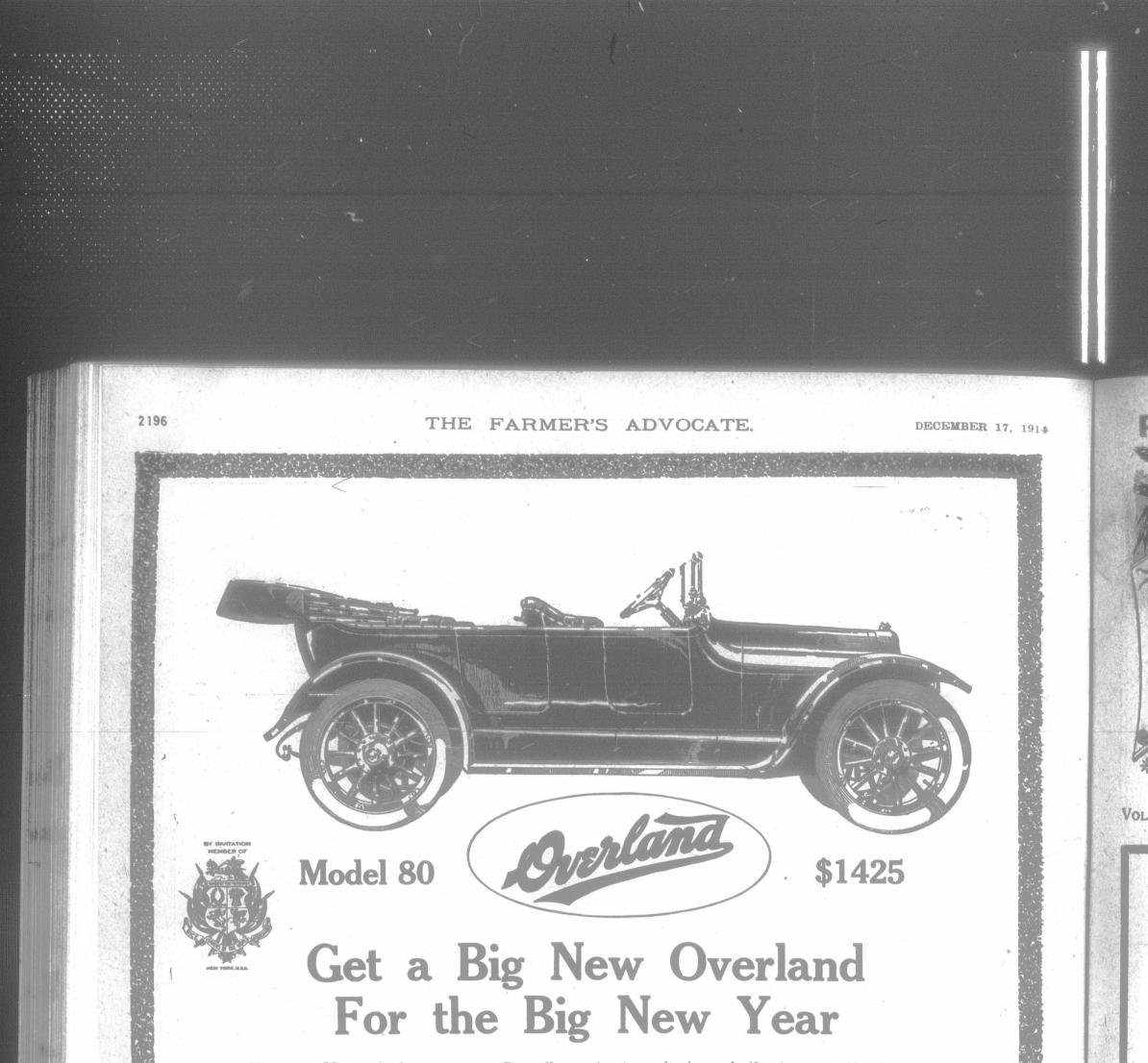
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