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F. J. Hearti do OO.,


Go West and settle on the line of the
Canadian Pacific Railway, and profit by the good markets,

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## TREES

Fruit and Ornamental
SPLENDID ASSORTMENT Actually first hand. Why pay intermediate profits when you can buy for price list and catalogue at once to Whona Nursery Co.

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is made to work in rows of corn, potatoes, etc., or to
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feet and 16 feet. $\begin{aligned} & \text { Arar or five floating sections. Cuts } 12\end{aligned}$
Teeth can be clamped in any desirgd position.
Uneven ground is always cultivated to an even depth Our Catalogue " $F$ " tells why. Ask for it.



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# Che <br> Farmer's Xidvocate ruamenmonacara and Home Magazine. 

Vol. XXXIX

## EDITORIAL.

## Outlook for Canadian Trade.

While the British market is, and doubtless will continue to be, the principal outlet for the surplus produce of Canadian farms, and is well worth wisdom nor reason in being content with but one string to our bow, as in that market we have to string to our bow, as in that market we have to
compete with similar commodities from many nations. Should Britain generously conclude to give her colonies a preference over foreign countries in her markets, by admitting orig products free, while taxing those of foreign countries, we shall still meet vigorous competition from the other colonies, as we do in many lines at present, and our enterprising neighbors to the south will employ their characteristic ingenuity to the will employ their characteristic ingenuity to the
fullest extent in the matter of transportation fullest extent in the matter of transportation
facilities and freight rates to overcome the lacilities and freight rates to overcome the
obstacle of a British tax, of which they cannot reasonably complain, since it will be only administering to them a dose of the medicine they pre scribe for others. That our neighbors regard this possibility seriously may be inferred from words of that shrewd business man, Mr. J. J. Hill, the allway magnate of the western States, uttered it a recent meeting of Minnesota farmers. In an exceedingly uble address, he said, in part: "Mr Chamberlain a year ago took a leaf out of our political economy, and started a political camraign in Great Britain in favor of a preferential arin which would admit the agricultural products of her colonies while imposing a tariff on the im-
ports of every other nation.
Great Britain and her colonies buy from us aboat 70 per cent. of fll our exports. Suppose they put a tax on our wheat of ten cents a bushel. Remember that the furplus wheat we export fixes the price on the en ire crop, that which we sell among ourselves and hat which we sell to go abroad. If our wheat is taxed 10 cents a bushel on $180,000,000$ bushels raised in our three north-western States, it would amount to $\$ 18,000,000$. That you will have to
Mr. Hill further stated his belief that these conditions are not far distant; that Mr. Chamberfiin is winning his way, having made more progreas in the first year of his agitation than he exwestion to in the first three years. That is ing unanimity of opinion, and the probability is Chat Mr. Chamberlain will find that it will re quire more than three years before his propaganda is comipieted. Under present conditions our products are every day strengthening their hold and popularity uion that mighty market of Great Let the means of access to it be im
Mr. Hill, in the same address, pointed out the showed that by good management his company hald succeeded in establishing a profitable market Wheat and flour in the Orient, by which the
wheat of the West, which two years ago was Nling for the West, which two years ago was T5 to 80 cents, no less than $4,320,000$ bushels of Anierican wheat and $1,550,000$ barrels of AmerMan flour having found a market in that direction
Curring the fiscal year, ending June 30th, 1903. Ullring the fiscal year, ending June 30th, 1903 .
By. taking advantage of all the conditions enteriny taking advantage of all the conditions entercars in the question of directions, to and from the Pacific 'oast, they had been able to give a rate from

Minneapolis to Hong Kong of 40 cents a hundred for 8,000 miles-" $\$ 8$ a ton, or a mill a ton a mile-the lowest transportation ever worked out on the face of the earth." It is 2,000 miles of rail transportation to the Coast, and 6,000 by water.
The question of interest to Canada in this statement is why cannot we, with all our natural advantages, our vast wheat-growing territory and favorable Pacific ports, secure a fair share of the trade for wheat and flour with Japan, China, and Australia. Our wheat is the best in the world, and while the people of the Orient are not yet educated to an appreciation of the best quality of flour, they will learn, and in the meantime the lower grades of our product may find an outlet in that direction, ald some has already done. The visit of our Minister of Agriculture, Hon. Mr. Fisher, to Japan, and the appointment of our Railway and Transportation Corhmissions, should bear fruit in the near futhre, as 'our new trans continental lines get in working order, in the opening and extension of markets in that and other directions, so that we may share in the trade wherever our products are suitable. And the sooner effective action in this matter the bet-
ter.

## Manuring Problems.

Succass in farming is primarily dependent upon the intelligence, enterprise and industry with which its operations are conducted. Foremost among these is replacing the fertility taken out of the soil by growing crops. This is done by manuring in some form or other. Thorough tillage, moisture and warmth will cause the soil to give up to growing plants the fertility which it contains, but this must be supplemented either by manures produced on the farm or purchased. Feeding animals for the production of energy (such as horse-power), food or clothing for man is the way in which crops are profitably utilized and at the same time manure manufactured upon the farm. The stable is a manure us well as a food factory. How to make the most of it; how to save it; how and when to apply it with the least outlay of labor; whether to apply in the fall and plow down as for roots; to spread upon the fields in winter, as many of our corn-growers do o plow under deeply, or work in by surface culf ation, the comparative advantages or otherwis hought to be essential in and rotting, once lements availeble thll re deserving of ion, both by our most study and close observa he bour by he pror rinciples chichar, Here are certain eneral principles which govern, but the same plan will not give equally good results for all purposes, and under different conditions. The erucible of extended experience will ultimately de lernine for every man what is best in his case. F armen ". Wiscussion in the Farmer s Advocate by those who have given uose consideralion, and whose observation has laught lessons hat wourd be helpful to others under similar circumstances.

Now is the time to make sure of securing choice seed for sowing if you have not already but the plumpest and cleanest to sow anything

The Dairy Industry.
Western Ontario, Eastern Ontario and Quebe dairymen have all held their annual conventions and in each meeting the prevailing note was progress and confidence in the dairy business. The growth of the dairy industry in these three sec fions represented by the three annual conventions as been phenomenal. In twelve years dairying and its associated industry, bacon-producing, rose rom eleventh place in the list of Canadian industries, until to-day there are only two greater in the whole Dominion, and have also carried with them in their ascendency prosperity to every other branch of Canadian agricultural industry In 1903 Oanada's dairy exports amounted to about thirty millions of dollars, and, mieidentally assisted in producting as large an expoftt bacion trade. In 1892 we exported a little more than one million dollars' worth of butter, and eleven and a half millions of cheese. Since then our butter exports have increased to over seven millions, and our cheese to twenty-two million dollars' worth. In connection with the growth of our dairy exports, it is interesting to note the decline of those from the United States. In 1892 that country exported seven and a hali millions' worth of cheese, and two and one-half millions' worth of butter. Ten years later the cheese exports had declined to two and a half millions and the butter advanced only one-hale million, the cause being due to the increasing demand of the home market.
What is the significance of this growth of the dairy industry? In every farming community throughout Canada to-day there is evidence of a marked degree of prosperity. The sixty millions derived last year from the bacon and dairy in dustries have been distributed more evenly than A similar amount derived from any other industry, and have been or will be expended more judiciously, because controlled by a more careful class than any other similar amount. In short, dairying may truthfully be said to have been the salvation of the country. Not only has it brought direct returns, but indirectly it has been the means of increasing the fertility of the land, of improving the type of cows kept and of hogs fed. By demanding a large supply of fodder to carry the herd over the year, it has created a demand for larger ylelding crops, and the consequent general adoption of silos for storing corn, and in some parts the growth of alfalfa clover.
Hitherto the advancement of the dairy industry has meant more particularly the increase in the production of cheese, but in the future butter may be expected to be more largely produced. By selling butter from the farm scarcely any of the valuable fertilizing materials are disposed of and the finished product is in the most concentrated form possible to transport agricultural produce. Such being the case, farmers and middlemen should do all in their power 'to oster this industry. The former must endeavor to reduce the cost of production by increasing the average usefulness of his cows, and the latter must endeavor to manufacture the best possible article from the material on hand, and both must work hand in hand for improved transportation and marketing facilities
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the leading agricultural journal in the DOMINION.

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## The Farmer First.

.. The nation always has and always will de-
pend for everything that goes to make the country worth living in, upon the men who cultivate the soil. There is more intelligence, more patriotism more of everything that goes to make good citi-
zenship, on the farms than anywhere else in the country. (Applause.) It has always been so from the early days to the present. Many of us here can remember what, a few years ago, we called the late unpleasantness.' The nen left field, to follow the flag of their country, and the
farmers' sons were the men who most distinfarmers' sons were the men who most distin-
guished themselves. Country life is better fitted to guished themselves. Country life is better fitted to
develop a man than is the city. It gives him betdevelop a man than is the city. It gives him bet-
ter opportunity, if he will take advantage of it; and I want to impress upon the fathers and mothers, if they are here, that their children in growing up on the farm should not look forward
to the tinie when they can leave it, when they can have their hair banged and soaked down, and come to the town to look for a job. Better men and better women live in the country. The time will never come when this country can afford to
lose sight of the interests of the people who live on the land."-[Jas. J. Hill, President of the Agricultural Soclety meeting.

## Superintendent of Institutes.

The new Superinteudent of Farmers' Institutes or Ontario is George A. Putnam, B.S.A. Mr
Putnam was born in the County of Elgin in 1869 and spent his early life on his father's dairy farm near Aylmer, and also spent some time at prac-
tical work in the cheese factory on this farm. tical work in the cheese factory on this farm.
His early training was received at the Aylmer
Hiwh School and the Forest and chool and the Forest City Business Col 1 College as Secretary to the farmers' institute work was then Putnam's duties required
with all its details. The work in a num-
rovince was also e was also
00 he co -1 duated B.
tion of Secretary of the City Dairy Company,
Toronto. In all of Mr. Putnam's work he has Toronto. In all of Mr. Putnam's work he has thoroughness of detail. In taking charge of the Institute work he brings with him a thorough knowledge of his subject and a capacity to carry his work through.


Mr. Geo. A. Putnam, B. S. A.
Newly-appointed Superintendent of Farmero' Institutes

## HORSES.

## Mange in Horses.

A Quebec subscriber writes us, saying An expert was sent from out among our horses and has pronounced it mange. Several then horses were quarantined, but in spite of all pre Eautions the disease is still spreading. Every-
one is employing his own method of treatment with varying success. Would you kindly give us some information about the disease, how long it specific that can be obtained and applied by any
farmer ?"
Mange is a contagious disease, caused by the resence of a small insect. The most common covered with long hair. The punctures made in the skin by this variety give rise to an eruption of pimples, which at first are of the nature of blisters. When these blisters burst a discharge of
pus and serum keeps the affected parts in a moist pus and serum keeps the affected parts in a moist
condition, which distinguishes this kind of mange from sarcoptic mange. The insects of the sarcoptic form generally commence their attack on


American Jack
The chammion trenting stallion of England Owneal hy
Mr: Win. Lucas Marton. Blackporl, Eingland.
or near the withers, from which they spread ove The blisters from this variety are algramulaint In the later stages of the comAnothe of mange confine their engagements commence it theack very slowly. They usually upward
knee.
during summer. The symptoms are itching, racks, sores, formation of crusts, thickening of Mange, in all the different forms, shows ni endency to recovery without thorough treatment. Its attacks are seldom fatal, except in old horses,
which sometimes become debilitated, and, conse-

quently, die. | TREATMENT.-The first object is to destroy |
| :--- | The insect. Where practicable, clip the hair over

the affected parts. Where the coat is short this may not be necessary. In every case guard parts thoroughly with a good soap suds and a stiff brush. Add a quarter of an ounce of carbonate of potash to each quart of the wash
water. Rub on the affected part a lotion comwater. Rub on the affected part a lotion composed of one ounce of creolin to a pint of water. Any stable in which the disease breaks out should be thoroughly disinfected. Burn all the bedding and disinfect the harness, brushes, and other atensils by immersing them in a solution of
creolin, one, to six of water. Thoroughly wash the floors, walls and ceilings, and apply a thick coat of whitewash. Diseased animals should be

Diseases of the Digestive Organs of Horses.
Enteritis, or inflammation of the bowels, is one of the most rapidly fatal inflammatory diseases to which the horse is liable, often destroying life in
a few hours. Many of the diseases of the digesa few hours. Many of the diseases of the diges-
tive organs, some of which have already been dealt with in these columns, result in inflammation of the bowels, but at present we propose
treating with it as a primary affection. Any treating with it as a primary affiection. Any
portion of the intestines, either the small or the portion of the intestines, either the small or the
large, is liable to be attacked, and ir some cases the greater part of both is involved. The inner or mucous coat is usually first attacked, but the inflammation extends and involves the middle and external coats also, and there is often an extravasation of blood into the
ture of the small bloodvessels.
CAUSES.-The principal causes are overfatigue, exposure to cold, and washing with cold water when the animal is heated, but like other well-marked cause. SYMPTOMS. - The first well-marked symptoms
are generally those of abdominal pain, evidenced by uneasiness, stamping of the feet, whisking of the tail, looking around towards the flank, a doally preceded by some degree of constitutional disturbance, such as riggors (shivering), acceleration of the pulse and respirations, repeated evacuation of small quantities of semi-fluid feeces and general depression; the mucous membranes
soon become deeply congested, the mouth dry the tongue contracted, and sometimes of a brownish color, and the appetite of course is lost; the pulse is hard, wiry and frequent; the belly is tender upon pressure; the abdominal muscles more or les ${ }^{3}$ noticed. In a variable time the symptoms is dullness and depression give place to those of pain and excitement; he stamps with his feet, strikes at his belly, lies down, but much more
carefully than in spasmodic colic. He will probcarefully than in spasmodic colic. He will prob-
ably make several attempts or feints to lie down ably make several attempts or feints to lie down,
and then go down very carefully ; will probably
endeavor to lie on his back, turn his eyes towards his flank, pant, blow and sweat with pain. There are no sharp paroxys of pain, with
periods of ease, as in colic, the pain is constant periods of ease, as in colic, the pain is constant,
distresaing and agonizing, and the hody is usually covered with perspiration. In some cases he will stand for hours with his head in a corner and paw persistently with one or both feet. In other
cases he will walk around the stall $n$ circle, apparently almost blind, knocking his necircle, apparently almost blind, knocking his first hard, full, frequent, ranging from 80 to 120 per minute, gradually decreases in strength and fullness, becomes thready or imperceptible. He
sighs or groans with sighs or groans with pain, and perspiration rolls
off the body. time hot and at another cold ; the countenance becomes haggard, the eyes expressive of delirium, with the pupils dilated. He may now throw himself about in a dangerous manner, but usually stand, balance himseif as he will fall and die with a few convulsive strue gles. In other cases the symptoms of pain subside, when he will stand quict, and even drink a litlle or endeavor to eat, and his breathing beto think or less tranquil. This leads the owner symptoms indicate that mortification has set in the haggard expression remains, the pulse continues inperceptible, cold sweats bedew the body
the belly becomes tympanic (hloated), he trembles legs and ears are cold mic (bloated), he trembles and even foetid, the lips drop pendulous, the eyes
last. If, however, in three or four hours the the commencement of the attack, there is some abatement of the symptoms; if the surface of the
body become dry; if there be a passage of feces or gas, the pulse becoming softer and less fresion disappear, a favorable termination may looked for.
owels is inflamed, treatment must be directed inflammatory to prevent peristaltic action until the is usually an inactive condition of the bowere, purgatives must on
ment must tend to re
should be administered
early stages, when the pulse is doses. In the
and dopression in general be not well marked is good practice to take
blood from the jugular
> drs. of powdered opium

doses repeated every
toms are relieved. Clothours, until the smalle
water should be applied to the alidomen con laken to clothe the horse well afterwards must be vent reaotion. If, after the abatement of the
svmptoms, the bowels remain symptoms, the bowels remain torbid (as they usu-
ally do), the removal of this torpedity ally do), the removal of this torpedity must not
be attempted by the administration of drastic purgatives. Very small doses of raw linseed oil, say 4 -oz. doses, with 2 drs. nux vomica, may be
given every eight hours, and the contents of the rectum removed by injections of warm water occasionally. When the appetite returns, the most
easily-digested food, as scalded bran and boiled
linseed, should linseed, should be given, and the eating of dry mence to act, and then solid food must be give in very small quantities for a few days. "WHIP."

## Breeding to a Blood Horse

you reader puts this question to us: " Would sired by a Clydesdale; dam an ordinary Canadian the mare herself not being a heavy-limbed ani When we answer the above in the negative, we do not ask anyone to take the advice on the edge of horse-breeding. We do so fimply knowl it is a violation of one of nature's laws to mate a mare of heavy-draft breeding with a Thoroughbred or trotting sire. In actual practice, if this mating were carried out, it would be just pos-
sible that a most serviceable horse would be the result, and it is just as probable that the offspring would be a veritable weed. The mischief
of this unsystematic method of breeding is not that it always produces inferior animals, but that might give an instance similar good ones. We correspondent. A farmer becane enamored of an unusually big, active Clydesdale, and was deermined to breed his driving mare to him. The esult of the first mating was a carriage horse a fashionable heavy carriage horse. The second mating gave nothing but huge disappointment The explanation is this, that in breeding animals of diverse types the type of the offspring is fixed ancestors, and as the characteristics of different in the ancestry of animals of mixed breeding, the type of the offspring is all the more variable. stock. Pure-bred parents are vpe, hence in their blood there of one distinct ery antagonistic influences that tend to produce nimals of nondescript type. But since everyone next best thing to be done is to breed to pure next best thing to be done is to breed to pure-
bred sires of the type most closely resembling the females in the harem.
Our correspondent is in the same position as mare of mixed breeding has raised a filly by fure-bred Clydesdale sire. The filly then has one oward securing a definite There is a start made more such crosses would result in an animal that Clydesdale. Then such an animal could be detrue to type, and to produce offspring that would be chance in breeding would be to a large extent climinated. On the other hand, if this mare sired by a Clydesdale were bred to a trotting or
other light horse, the offspring, if used for breeding purposes, would contain in its blood-lines still rould produce horses of a from a source tha "are bred, and, consequently, the resulting off ring would be more of a mongrel than the dam
grandam. To closely adhere to type in horse-
lows this business, and while it is frequently de to secure something of a different stock on hand case of our correspondent, the practice will in the crease the number of nondescripts and lower tho

## STOCK.

## Pork-producing in P. E. Island.

## Hog-raising has taken great strides on P

 of the rise in the price of pork and account cause the Dominion Packing Company has an tablishment here, which will take all the hogs the is declining produce. But now that the price better go out of the business, as there is no money in them. Is this right? No. Why ? rise again, and because if we followed that sys tem through all our farming we would be in hot water all the time. What we as farmers should do is to follow a mixed line of farming and stick cast from hundred-acre furm should market dollars worth of pork a year. There are several reasons why we should stick to hog-raising. Now which takes up the smallest part of our time and at the same time enriches our farm, and gives a good return in cash. It takes about the does amount of time to feed a dozen pigs as it product from the cows would not be worthe the than about fifty dollars for six months, that the pigs would be worth about one hundred a fifty. Another reason in favor of the hog is his ability for making manure. Provide him witha large pen, and into this throw all the straw, seaweed, or any kind of litter that you can get and he will tramp and work it up fine, which will make as good manure as that of cows or
fattening animals; also his freedom from disease ompared with other animals is worth mention to have a pure-bred female; better have a grade with good form and thriftiness than a pure-bred not so well litted for a breeder. However, if a thoroughbred can be got and suitable, all the
vetter. One should be selected lengthy shouldered, strong-backed, standing well on strong limbs, and mated to a pure-bred boar of good
type and breeding. She should produce her firs type and breeding. She should produce her first
litter when about a year old, preferably in April or May, so the young ones may be marketed be strong and healthy order that the offispring may ample exercise in the open air. $A$ great man farmers make a mistake in this respect, and the result is weak pigs. The principal diet should be parturition, when a sloppy and lighter ration should be fed. About ten days before farrowing provide a pen. With a basket of cut straw for
bedding, also a piece of scantling nailed to the wedding, also a plece of scantling nailed to the in order to protect the little ones from being crushed against the wall. It is necessary that an attendant be on hand to remove the pigs to the fire or cover with a blanket if the weather be mother can feed, they may be fed cow's milk mixed with water, in the proportion of milk milk to two of water, with enough sugar to sweeten. This can be put in a shallow pan and eight weeks old they is eating. When seven or eight weeks old they may be weaned and fed on
shorts, mixed with skim milk; a few hoiled pota toes may also be added. It is well to imitate nature in feeding the pigs, and feed them about The times a day until two or three months old. rapidly, and never allow a setback to occur. Feed all they will eat up clean, but no more. beed to keep a little hungry than overfeed. Barley, oats, wheat crushed and soaked in water. from six to twelve hours, with the addition of some
skim milk, should be the principal feed. This should be fed five times a day in small feeds. POINTERS
Give the little pigs plenty of exercise
Make friends with the brood sow.
Don't disturb the mother
Don't disturb the mother and her little ones
Feed lightly for a week after farrowing
(iive the brood sow the run of the barnyard.
ed frozen victuals.
Plant some early potatoes for the growing
JAMES STAVERT.
East Prince, P.E.I.

## Keeping Colts in Cattle Stables.

 a stable with about fifteen head of cattle. There is just ordinary ventilation, and he would like to know if such co The worstThe worst we can say of such treatment is may thrive and turn out this particular animal horse. In fact there is no be a most useful should not. But the ill-effects of keeping why he in catle bat the their cattle stable are incipicnt, and they make trouble begins with a diminishing of powers The resistance to the variations of climatic wers of due to the atmosphere of the climale extrenes, being the most conducive to the building up of rugged constitution. Suppose that it is a filly that is being kept in the cattle stable. The conditions there tend to weaken her constitution. In her offspring there will, in all probability, be a further tendency to weakness, and so on. Animal life is so constituted that injuries or weaknesses once sustained remain in the family until eliminated by some remedial influence, such as the
infusion of new blood from a souce questionably rugged, or by the continued is unof beneficient treatment, and the effects action able conditions. With all young sock the wisest and safest plan is to make conditions a rugged constitutions and powerful development of rugged constitutions and powerful bodies, and to
this end abundant exercise and fresh air are sentials.

## Why not Keep Sheep?

No class of stock is neglected by so large a the cost of keeping, the are sheep. Considering rate of increase, and the annual dividend of wool declared, no class of farm stock is more profit able, and if well managed none as prolitable. No meat is more wholesome nor more generally in help keep the farm clean, at good prices. Sheep that would otherwise , by eating many weeds while the sheep in summer pick up most of their living in the lanes-and by-places of the farm, from grass that would otherwise be wasted A short nibble suits them better than grass to their sides. No great skill is required to manage a flock, and yet no stock will pay better for intelligent care and management. A little attention at the proper time, and that not very often, keeps then in good health and brings out the best that is in them. Their winter care is simple and inexpensive, being nearly paid for by their fleece of wool, and in summer if given half a chance they will find for themselves. No elaborate or costly buildings are required for theno. Open sheds are year, and treated twice for ticks, they oned once a increase, and make money for their owner.
rape in June or July fall, sow a fow acres of velopment in winter, an acre or two of turnips though these are not essential if a light ration of oats and bran is substituted. Attend at the proper time to the docking and castration of the
lambs. Wean at four months old, and have field of fresh clover or early rape for the lambs o keep them going on, and they will feed themdays go by

## Care of the Dars

Deafness is a great affliction, but many persons are very careless in guarding against it. Wet hair and cold plunge baths are bad for any one with a tendency to deafness. The extremities must be kept warm and drafts avoided by No cold liquidishould touch the inner ear No ils should be poured into the ear with the sidea of rel
tion.
So

Some people have a perfect dread of getting insects in the ear, and even the common getting fy fills them with terror if it buzzes too near hem. In reality there is little danger in the matter. The secretions of the ear are bitter, poured in will kill it and bring it to the surface. Boxing a child's ears is barbarous, and likely o permanently affect its hearing. Sometimes in the strong breeze of an electric fan. This is
in unction carelessmess as regards the ear and its

## Free Pigs and Bulls.

President Jas. J. ("Jim") Hill, of the Great Northern Railway, gives an amusing account of his fatherly efforts in furnishing the Minnesota and Dakota farmers with free breeding stock. Evidently, it would have been better to have left the business to the intelligent enterprise of those engaged in it-the farmers and breeders themselves.
" There was a time-let me see-twenty years last spring, in this State (Minnesota), and particularly in the northern part of it, when no rain fell from seed-time until the 1 st of July. The grain stood green in the fields, barely living. In July some copious showers fell, and they made a little more than half a crop. I didn't know as less experience. I thought I would help the farm less experience. I thought $I$ would help the farmof the state, so that they would not depen on one crop. I thought I would help them to some good sto (ander) and hogs. And in they had the opportunity they would take advan tage of it. I got together some excellent herds of beef and dairy cattle for myself, and I brought out within two years, mainly from the north of England and Scotland, about 800 thoroughbred bulls. Something over 600 of them were distributed in this State, and less than 200 in North Dakota. I want to say that the people of North
Dakota derived more benefit from less than 200 than the people of Minnesota did from 600. What did they do ? Most of them sold them. (Laugh-
ter.) I gave them pigs and they killed them in ter.) I gave them pigs, and they killed them in the fall-and they were good winter pork
(Laughter.) This is actually what they did with the pigs that I brought from the Old Country, or with the stock which was bred from this stock and for which I paid prices as high as $\$ 300$ for a single animal

## Breeding and Feeding Pigs.

We give the following extract from a leaflet issued by the Department of Agriculture for Ire-
land, where bacon production is very successfully
To produce pigs having the qualities jus enumerated, the first consideration must be the selection of the boar. his power of reproducing his like. It is, there fore, all-important that a boar possessing the particular points described should be obtained. At present the improved Large White Yorkshire quired points, and a sire of this breed she re quired points, therefore be selected
The pig that commands the highest price is an animal which, when well finished, and not over fat, weighs 170 dead, or about 220 living.
good pig ought to arrive at this weight at age of seven months from birth. In selecting sow there are a few points which a good specimel should possess, in addition to those mentioned for the boar. The sow should be docile, and should have at least twelve teats, of an equal size, and
evenly placed well forward on the belly having large flat teats generally secrete very little milk, and on this account prove bad mothers The fineness of the hair, skin and bone, all indi-
cate a good quality of flesh, and an animal that cate a good quality of flesh, and an animal that
is Iikely to become a good mother. Pigs should be well fed, but not overfed It be well fed,
fed regularl
results to the feede
During the first half of the sixteen weeks which a sow goes in pig she should be allowed to run
on grass if possible, and should receive a limited amount of other food. For the last eight weeks
she should be treated more generously, so that she may be in good condition, but not too fat, at the time of farrowing. During the time the sow is rearing her litter she should receive as
much good food as she will take, consisting of much good food as she will take, consisting of
boiled potatoes, Indian meal porridge, pollard, bran, and skim milk.
At three weeks old the young pigs begin to eat, and at this time should be supplied with
skim milk, separated milk, or fresh buttermilk, which may be mixed with, a little pollard, bran
and boiled potatoes, and given twice or three and boiled potatoes, and given twice or three
imes daily. Care should be taken to prevent times daily. Care should be taken to prevent the
young pigs having access to the sow's fond. The cow may be permitted to eat up the food which sow may be permitted to eat up the food which
the young pigs may have left; but if the young s food they are almost certain
eight weeks old the young pigs sight weeks old the young pigs
after weaning they should re-
or barley meal. After the pigs have eaten a much as they appear to require, a small quantity
of buitermilk, skim milk, separated milk or kitchen refuse should be added, to induce them $t$ clean up all the food given them. The quantity of food which a pig should receive is just what nips and mangels are sometimes used instead potatoes, but potatoes give by far the best re potato
sults.
Whe
When being fattened pigs should be fed three Limes a day. The food ought to be brought to or by the aid of hot water. By so doing much of the food is saved in the animal's body for the production of flesh.

## FARM.

## Notes of Sugar-Beet Meetings.

## ames King, of North Dumfries, Waterlo

 County, who has grown sugar beets for the Ber farmers at Inglewood, spaid: "/ I received $\$ 50.12$ off the acre for my beots in 1903 which is the price of the land wour whey which is the price of the a crop the farm. $\# \#=1$ like the work of growing sugar beets, and it pays me well.In answer to a question put to Mr. Fránk Shuh, of Waterloo, who grew seventeen acres of sugar beets last year for the Berlin factory, he satisfied with the sugar-beet crop. It pays then well and makes them money fast. For my crop off seventeen acres I received over one thousand dollars, some nine hundred Dllars of which is
now lying on deposit in thed Molson's Bank. Sugar now lying on deposit in then
beets will pay off mortgages.
Dr. Shuttleworth, Agricultural Superintendent of the Ontario Sugar Co., Berlin, is now in re ceipt of several hundred new contracts for 1904 which comprise a good acreage. From every from Berlin, ceived daily, sugar beet contracts are being re anticipate a very large acreage for its 1904-5 campaign, now that sugar beet growing is recomcounty, but also by those of Ontario, Durham. lork, Simcoe, Peel, Perth, etc
growing when it was first introduced here beet made a success of the your beet growers have ontracts," said an honest man at a Pickering sugar beet meeting.
Average sugar in beets delivered at Berlin for and ten cents per tonA well cultivated beet crop will yield more tons than a turnip crop, ${ }^{\text {a }}$
cleans and improves the land.

## Cistern Under Barn Driveway

$\qquad$
more water. The space under driveway of mane arns is left vacant, when it could be turned into a cistern, and save all the barn water. A de-
scription of our own might help those intending building. Under our approach we built a wall解 fd with good Portland cement. The first cear had joists and plank, laid over this, and the space $i_{n}$ between filled with straw, but whenever we happened to be drawing in when a shower caught so we made an improtement here We got some run from one side tol the other, and supported in the center by a beam. On this we laid siding to prevent the dirt from sifting through. Then on
this we laid the largest flass we could procure. Wi. Srace "ith dirt, till it came to top of barn quired be improwed. a cistern like this will great-
ly aid to shy the wants oi cattle, and by run-
ning a hose iros. will prove a
when one has adrantage over filling a tank

## The Mound Builders.

presence of mounds in the Canadian Wes has been subject or great interest to the set in the prairies and woodlands of Manitoba and the adjoining territory. Investigators have found not less than forty mounds, and there are probably many more. Of those known, about twenty have been opened more or less thoroughly. which have been examined. These are: (1) Red River (2) Rainy River; (3) Souris River. While the last of these regions was visited by Professor Hind in 1857, and a few of its mounds were opened, yet he was most

RED RIVER MOUNDS
The writer and other members of the Historical Society of Manitoba made the first scienlifed Piver, about seventeen miles north of winipeg, in the parish of St. Andrew's, in October 1879. The mound had been partly carried away by the falling in of the bank of the Red River. still left by the greedy river. he mound being sisted of the black alluvium for which the Red River valley is famous, and this had been plain$y$ dug up around the site of the mound, and caried to the elevation. Probably the mound had meen much higher, but flattened down by the eleabove the surface of the prairie. A trench had been dug from the river bank for a few feet into the mound, but had been refilled

## THE LEGEND.

The native owner of the mound was somewhat unwilling to allow the party of seventy or eighty persons of the Historical Society to dig into the uperstition, others said of a fear of smallpox, but a silvered paln facilitated the purpose of the ociety. An old woman, a Saulteaux haifbroed,

Many years ago," said she, " my people told ne our tribe was living at Nettley Creek-a creek unning into Lake Winnipeg-and the mound was selves 'Mandrills.' They were cave dwellers, and belonged to a race very few in number. One of my tribe visited them and found them dying of smallpox. The enquirer fled from the dreaded scourge, and on returning from his hunt a fow trace of a Mandrill has since been seen on Red River." THE EXCAVATION.
Nevertheless, the society went on with its Eging. A foot or two below the surface three of the river were laid one above the other bunk first, keeping the legend in view, these were thought to be a fallen chimney, but were, no digging up the dead. This covering stripped off, a circular row of a dozen skulls with faces downward was found. One of these was painted red a blunt weapon on the back of the skull. Beside them were bundles of thigh bones. It was concluded that these were skulls and bones of warriors killed abroad, and brought home to the mound for burial. Going still deeper, skeletons
were found. One of these of a sitting position, and beside the bones were a number of trinkets, while underneath were bits of some purpose. This fire had been employed for some purpose. This seemed the chief skeleton of
THE MYSTERY

No traces of smallpox were found, nor edy
dence of hasty departure. It was plainly a buffitid mound, and its commanding position on the high servation as well it useful for the purpose of obIndian legend of Mandrills meant the Mandans, a Mandan tre Missouri, who lived in caves. The the Assiniboine. Moreover from the Missouri to dans, some seventy years ago, ufissouri Man from the smallpox. No traces of the Red River ever. It was plainly a ling were found, howparty returned to Winnipeg confused myth. The spoil from the mound, which we may quantity of describe on a later page. Several other mounds along the Red River were afterwards opened. RAINY RIVER MOUNDS.
In the year 1884, when the British Association commission from the Fistorical Society, went to Indian relics Woods and Rainy River to secure archerological collection. Several mounds were archaological collection. Several mounds were
found on the Canadian side of Rainy River, but

FEBRUARY 11, 1904
FARMERS ADVOCATE.
opened. There was one at Coutcheching, at the same amount of digging generally produces the (Mirabile dictu) as a milkhouse. This mound results from these mound regions of the West wert seen about it A it had been a sacrificial mound. was made that
men the great mound.
Provented from examining the Canadian
ounde, the writer crossed nesota side. Here, where the river to the Minor Bow String river emptied into Rainy River,
was an en was an enormous mound-the largest yet found in und 45 feet high. It feet long, 90 feet across, heavy hardwood forest, trees skintingst of the Completely covering the top of the the river. heavy growth of trees. The mound stood was a elm, yassswood the river's edge. The manlc elm, basswood and poplar trees, some of them
sixty feet high on the mound island in the forest. One or two slight like an had been made to excavate the mound attempts tunnelling.
arme writer engaged six sturdy settlers, who, tumnel the mound, through the short diank to Though the mound was of the black soil from the exposure and drying out. The hard as brick, by exposure and drying out. The excavators worked
hard for two deys-on one side the tunnel was in twenty feet, on the other side thirty. on beginning the exccuation a few trinkets were found
and skeleton bones deta and skeleton bones detached; farther in, even the
bones had turned to dust Seeing the little chance of securing objects of ing. terest, and fearing that the mound might fall inunless timbered, the writer, on August 22nd, re
moved the men moved the men to the to of the mound, cut
down the largest tree to down the largest tree to soe the age, found it a century and a half old, and began to dig in the
crest. Immediately bones were met, then a ber of weapons, ornaments of the usual kinid, and othor articles belonging to the life of a savage
race. Suddenly plete pottery cup (see cut) this, and the excitement was of pottery were found, but none unbroken. considerable amount of booty being secured. the writer returned, and the labor of the despoiling
of the city of the dead for of the city of the dead for the being ceasod. SOURIS MOUNDS.
In September, 1886, the writer journeyed by
rail south-westward from Winnipeg to white rail south-westward from Winnipeg to white
water, and thence by wagon thirty or forty miles water, and thence by wagon thirty or forty miles
on the old ". Boundary Commission Trail" to the
River Souris fiver Souris. This was the point where Promounds about thirty years before. The wide, deep valley of the Souris is at this point impress-
ive.
Here two enter the Souris valley. These are the apart, of the "Antler Creeks,"" He-ka-pu-we mouths "Head and Horns Creeks ${ }^{\text {" }}$ of the Soux.
tween these streans is a high tongue of land which in ancient days served the purpose of fortress to its inhabitants, who were morndbuilders.

## EARTHWORKS.

To the south of the South Antler lay a series way. This had evidintly been higher, and was
warther
made of made of portions $125,150,100$ and 70 yards re-
spectively in length. spectively in length. Near these was another
embankment 200 yards
long, with moun ont end of it. These seem to have been used the fortifications south of the citadel, between the legend of the inederesting in connection with the the South Antler by the name "Mandan Creek," The writer was present at a Mandan Creek. the settlers. After refreshments, gathering o oratory, and many introductions, the party, led by the writer, selected one out of the twenty-one Thounds found within the limits of four townships. of Rainy River, not wexceeding smaller than those in diameter, and not higher than from four to ten

## A RICH MOUND.

After three or four hours' hard work, on what sermed the most likely mound, the party found
itself thoroughly successful in what might seem ${ }^{10}$ some a rather gruesome work in al akeleton ordinary Indian type. From the skuli seemed of the
was rais fill foll, as it was raised, two flattened-out pieces of native copper, which had been used as a chaplet. The copper, on boing subjected to the microscope,
slowed the silver streak characteristic of the Iahe Superior copper. Pottery cups, ornaments,
shells, tubes, etc Indian pipes from the celebrated Pipestone quarry sung of by Longfellow in Hiawatha.
the relics.
The results obtained hy the writer in opening
umerous mounds have been very steady. The
are: STONE,-1. Pipes from the Red Pipestone quarry, which were largely from the Red Pipestone
2. Spherical game by the Indians. 2. Spherical gaming stones. ${ }^{\text {a }}$. Stode the Indians.
4. Tubes (promably 4. Tubes (probably for smoking) hommers.
scrapers and flint arrowheads.
Elint scrapers and flint arrow-heads. 6. Fossil bacu-
lite (shiny nacre). B. BONE AND HORN. 1 . Whistle, from bird's
leg bone. 2. Bone crackers. ments. ${ }^{\text {4 }}$. Bone crackers. 3. Tanning instru-
Boads. 5. Conjuror's tube Bone implement (purpose unknown). 7. Horn Cishing spear, with barbs.
$\begin{array}{ll}\text { 2. Naticas from ocean. } & \text { Large seashells from tropics. } \\ \text { 3. Unio or musel shell }\end{array}$ from river. 4. Wampum beads. ${ }_{5}$. . Collumellils, a seashell, used as sinker for fishing.
breast-ornumental
6. Shell D. WOOD AND EARTH.-1. Burnt chips.



Rev. Prof. Bryce, LL. D.
Manitoba University.

## Now <br> Contents of Mounds.


knives. 3. Copper needle. 4. Iron pyrite lumps (shiny) POTTERY, AIR-DRIED - 1 Cups, Frag ments of large dishes. 3. Elaborated ornamentation on pottery

## INFERENCES.

From observations of all the mounds, their 1. The mounds were it seems pretty clear: servation, (3) occasionally for sacrifice. (2) ob2. The smallpox tradition seems to
them, pointing to the Mandans. 3. No European manufactured articles are 4. Seashells
4. Seashells and copper implements, brought ing characters of their builders wandering or tradIng characters of their builders.
burnt Evidences of fire in charcoal, ashes and 6. Except in superficial interments, it seems unlikely that the remains are those of Ojibways, rees
turists, as the mounds are almost probly agricul ound in fertile districts. 8t The last of them seem to have passed away at
9 . Probably they belonged to the peaceful tecan race, which about the seventh century be gan to come up the Mississippi, one-half going up the Ohio, and building their mounds there; the
other half coming up the Mississippi and its tributaries and neighboring rivers, occupyin them as tillers of the soil.
century to have swept up the Mississippi valley, Iroquois, sections, one up the Ohio river as the Sioux, to have by the up the Mississippi as the exterminated these peace-loving firteenth century Their mounds, their bones and a few of their possessions alone remain.

THE LOST RACE.
Oh ! silent mound ! thy secret tell
God's acre gazing toward the sky,
'Mid sombre shade, 'neath angel's eye
And is this all? An earthen pot
A broken spear: A copper pin!
Earth's grandest prizes counted in
A burial mound -the common lot.
Yes ! this were all; but o'er the mound
The stars, that fill the midnight sky,
Tre eyes from heaven that watch on high
Till domesday's thrilling life-note sound

## Farm Accounts

Wany of our best farmers now keep strict is to be feared that many more keep no , but it whatever. The advantages of the practice are
very evident. very evident. Very often it is worth something
to know how much time ago, and what the price was as got some has been put down in black and white , except it can be certain about it. Or a farmer may be charged with non-payment of some goods after he has paid, but if passed, and he may think effect then he can be sure, and the entry to that likely to question his statement, as he otherwise might. Again, how satisfactory it is to know eggs or butter sale of fat cattle, hogs, the factory, or from the of a pencil and a book in which these thing have been noted down, it is a very simple matter to find out to a cent. Without such an aid we treacherous. One very important Memory is very plain to anyone who keeps record of all money transactions, and that is the worth of little mak a muckle," but saying is, "Mony littles mak a muckle," but its truth is realized in a way that generally surprises when making up fenditure. We well remember a hired man exaving kept strict account for a year of all his spent in a foolish way the at the amount he had keep no more books, the could protested he would at some entries. He certainly profited, however by the lesson he had learned.
Many no doubt would keep accounts if
thought they could do so, and were not also afraid of the work and so, and were not also True, a system both and lime would involve. might be adopted, but such is not necessary. One that will serve all purposes may be both simple
Jears is so rudimentary and simple the seventeen almost ashamed to speak of it as that $\mathbf{I}$ am but as it has proved useful and is neither expensome may get at least hints from it hope that be helpful. When in our from it which may that contributions for religious and benevolent purposes should be proportionate to yearly inwas had means of knowing what the income since followed was it that it is impossible for a farmer to know have what his income is. Difficult it may be, but certainly not impossible, and an approximate idea known just how and in what and that it may be prospering is the main advantage the business is bookkeeping, an advantage as real to the farme as to any other business man.
books, as business has are recorded in our books, as business has been so far as possible
done on a cash basis. Each transaction amount concerned great or small, is recorded under one of four headings. These are "Personal Expenses, "Business , Expenses," " Contribupage of about eight inches in lenoth hese has a which accounts for a month are kept. to itself, in columer month begins fresh pages are started. The column of personal expenses is the only one that Under this heading space allotted for a month. groceries, meat, etc.; wearing sums spent for furnishings, pleasure trips, entertainments, eto in short, living expenses, and those that are purependiture for hired business expenses comes exrepairs on outbuildings and implem, horseshoeing. stock purchased, etc. Under contributions is placed what is given for church or charitable purreceived. Receipts covers the entries of all moneys
which do not come properly under any of these headings, and for these a separate account has to
be kept. Such are sums spent in permanent improvements and those given or received in repayment of principal of loans. These belong not of entries may be given
1895
Feb

> | 1.69 |
| :--- |
| 2.25 |
|  |

1895
Feb.
..
1-Insurance ..................................... $\$ 6.00$ 5-Oats, rolled weeks' labor 860
80
8 10-Hardware

1895
Feb.
7-To missions Contributions. 7-Sabbath collections
$\qquad$ 57
75

## 1895

 4-10 lbs, Recipes. 1-3 dozen eggs at 30 c .
$4-1,800 \mathrm{lbs}$. oats at 90 8-6 hogs, weight 1,140 lbs.................... 16.20 At the end of the year, which with us doe not end December 31st, but at a time when all surplus has generally been sold, accounts are
lotalled up. There are only 48 columns to add cotalled up. There are only 48 columns to add, the purpose, thus

Amount saved …..... $\quad \frac{\$ 1,119.00}{\$ 387.00}$

Total receipts ..
$\$ 1,506.00$
559.00

Net income .................................. $\$ 1,104.00$

## Total Rec Cheese checks <br> Cheese

 es.$\$ 501.00$
480.00

Etc.
At a glance can be seen the kind of financial
ar it was, and where the money came from. year it was, and where the money came from,
Business transactions do not orcur every day on Business transactions do not orcur every day on
the farm, and when they do take place the necesthe farm, and when they do take place the neces-
eary entries can be made in a very few minutes.

Note.-We would be glad to hear from other aders who can shed additional light on this subject from their own experience.-Editor.

## Demand Free Delivery.

To the Editor " Farmar's Advocat
Sir, -I enclose a slip showing the systematical way with which our U. S. cousins press their
what the people desire of the postoffice.
o the Honorable Senate and House of Representatives
We, of the Congress of the United States:
oters in the locality indicated against our respective names, do hereby respectfully but earnestly petition your mast honorable body to immediately provide for he following reforms in the postoffice department : into e percels post, to be carried-one pound or less axtreme weight of a package to be eleven pounds.
2. Provide a simple and efficient postal currency far rely by mail.

## Names. Postomice. Occupation.

They have forced rural delivery, and now urge further concessions. These slips come to me
through various sources. At present the seed through various sources. At present the seed on large sheets and signed by long lists of voters. Signatures are got at farmers' meeting
and in every way practicable. These petition and in every way practicable. These petitions
are all sent to Congress and local representatives. The rural Canadian would be satisfied litled to it. It is not a question of begging, but a question of demand. We pay a majority of the taxes, and we are entitled to all the privileges that accrue to one living within the
torders of tosns or cities. We don't ask two or (u): Cehne: a day, but we demand one. Take that that twelve miles from London, and two muils duily (i. IR only three miles
ing to the U. S., when our Government still peraway when there is a railway within three miles? Thing is no doubt we are too slow. Print some every Farmers' Institute ought to be furnished with similar slips, and we can get rural delivery, to which we are entitled

RICHARD GIBSON.

## A Simcoe County Barn.

In your issue of January 14th you give a barn plan which is much the same as one which I have a special dislike to a square basement, on the ground that it is diffcult to arrange the stabling properly.
The plan that I send you herewith is a frame


## Driving Shed

o! inplements
ning through stables, and all stables cloan into this, acluding box stall. The gutters are 2 f. Wide, have gentle slope for 2 ft . back, so it is not just necessary to clean out stable every day, as gutter will not flood. The root cellar is long, but is fllled at three places from barn floor. South end is intended for mangels.
Some may object to this plan of stable, because of long Some may object to this plan of stable, because of long cart is used all this will be done away with. The floors are all cement, except in the 10 ft . drive and the horse-stable stalls. The latter is two-inch maple plank,
divisions are two-inch pine. The windows at west side divisions are two-inch pine. The windows at west side
are 13 ft . apart. The granary is $18 \times 24 \mathrm{ft}$., having are 13 ft . apart. The granary is $18 \times 24 \mathrm{ft}$., having
a 6 ft . passage. The doors to east of barn have window above, which often comes handy when threshing. The barn is $\mathbb{E 5} \times 84$ ft., outside measurement,
$51 \times 80 \mathrm{ft}$. inside. The ventilators are teu in number $51 \times 80 \mathrm{ft}$. inside. The ventilators are ten in number,
being 6 -in. tile, laid in wall close to celling avoiding being 6 -in. tile, laid in wall close to celling, avoiding
any draft.
A SUBSCRIBER. any draft.
Ontario

## Barn Plans.

During the past few weeks we have received a
large number of stable plans, each containing large number of stable plans, each containing
some commendable feature. With very few exsome commendable feature. been oblong in ex ceptions, these plans have been oblong in shape,
provided with silos, sufficient box stalls, and other convenient arrangements. Few, however, make provision for cleaning by horse-power, un-
less we consider a six or eight foot passage behind stock wide enough through which to drive a
jumper or wagon. This we consider of the jumper or wagon. in stable-building. Modern stables, if anything, should be easily cleaned, and to be that they should, unless equipped with overhead steel track and litter carrier, be provided with passages behing the stock wide enough to
drive a wagon or, at least, a sleigh through They should also have a silo conveniently near the stock, and as near the feed-room as possible,
for if ensilage is not already being fed for if ensilage is not already being fed, it will probably be only a matter of a short time until
it is. Nearly all the plans submitted are of stables on a level site, with plenty of windows, and this is right. Stables built partly into a bank cannot be kept as dry, as well ventilated or as light as those built on the level.
Obviously, we cannot publish all the plans received at our office, but from some of those on hand we selected a few ideas. In Mr. Johnston's
W. W., Perth Co., says : In plan, January 14th, there is no passage to the end row of stals, the mangers in box stalls are better to have roots outside of the stable except in cases for early feeding. Otherwise, I think Mr. Johnston's plan a good one. w. L., Elgin Co., prefers a long, narrow stable, with two rows of cattle facing, and a wing for a
horse stable and driving-shed. He has two silos at the end, and box stalls under the approaches at rear of one of the rows of cattle. His stable has wide manure passages, with doors at both T. W., Elgin Co., has a stable $45 \times 70$, with a row of box stalls at one end and a row of
cattle stalls at the other, having a passage at each end of the latter. Between these two rows,
eassage at
Ben running lengthwise of the plan, is a row of horse stalls and a row of cattle stalls, with a feed-
room $10 \times 30$ between. The plan is very compact, fairly easily cleaned, and the feed-room convenient to all the stock, but there is no silo nor root-house-very serious defects.
$45 \times 66$., Norfolk Co., has a plan of a stable, There is a row of cattle stalls at one end and horse stalls at the other, with root-house, feedroom, box stalls and cow stalls in the center. Feed-
ing and cleaning arrangements ing and cleaning arrangements are fairly conthe passage behind the cattle, so as to drive straight through the stable to clean it out. There should also be a silo in connection.

What a Clover Sod will do.
In the fall of 1899 I plowed three and a half acres of rather poor pasture land. In 1900 it was seeded to oats and clover, sowing twelve seed to the acre. In 1901 it produced a fairly good crop of clover hay, which was cut quite
early, and the aftermath allowed to grow and not pastured off. This was turnicd under in the
fall of 1901, and in 1902 it was thoroughly cultivated and had a fair dressing of barnyard manure, and planted to potatoes and turnips $-1{ }^{\frac{3}{2}}$ acres to potatoes, $1 \frac{1}{2}$ acres to turnips, and $\frac{1}{2}$ acre to mangels. The turnip land received in addition
to the manuse 400 pounds per acre of Bowker's Vegetable l'hosphate. The jield was 175 bushels of potatoes per acre, 200 bushels of mangels $\frac{1}{2}$ acre, and 1,450 bushels of turnips on $1 \frac{1}{2}$ acres. In 1903 it was sown two acres to wheat, which yelded $68 \frac{1}{2}$ bushels, and $1 \frac{1}{2}$ acres to mixed grain
(oats, barley and peas), which yielded 95 bushels or over 63 bushels per acre. The field was sown
to clover with a little timothy, and we hope for nother clover sod to turn under in 1904 .
Cuinterland Co. N.S.

Opening and Closing Stanchions. Every up-to-date farmer of to-day secures his
attle by the "stanchion system." ever, know about this new, handy lever all, ho The old way is to have two openings (1 and in diagram) in each of the horizontally (1 and vlaced sclipped as the stanchions are opened or bolt is
closed Thus, when the cattle are to be secured the lever. (a sort of handle made from a piece of wood and
bolted to scantling (c. in diagre) from you past the oriening No. 11 ; the bolt it

slipped from opening No. 1 and slipped into open-
ing No. II.: then slipped when the cattle are to be turned out. lalking, "I have found that in order to secure my cattle in this way, I would have to be sure all the cattle's heads were in their proper places, the lever pushed and the bolt place work to get position before any of the cattle chance firmly in their heads and push the securing stanchion parts back between openings 1 and 2 .
tried it to be quite a considerable ing who have and also more convenient. All that is neement, a piece of two-inch lumber, about $4 \frac{1}{3}$ or 5 feet in length, and $\frac{1}{3}$ foot or more in width (d. in diagram), cut out and bolted at one end, as shown. olted securely to the part marked ( F ) one end in old plow-handle, or something of alout the same proportions, is slid through the opening marked ( $F$ ), and one end bolted somewhat loosely to the ceiling, so that it may be allowed to move The only other thing necessary is a is pushed. mall mall opening at each end. One end is boltes $t$ the carried from that place to where of twine, tied and a staple placed in the ceiling and on to another taple in the post marked (H), where after being At the lower end of the iron bar (G) a deep
notch is cut in the horizontal scantling (A), in

closed-in end of bar rests while stanchions are
stanchions closed. Thar is what holds the
the stanchions are Worined something like this: The ptanchions are tringe, pulls downward and pres and on the the part (G). He then seizes the handle and
gives it a slight pull towards him, and the securgives it a slight pull towards him, and the secur-
ng stanchions will slide open ; the iron bar ( G )
will of scintling (A), as in Fig. II. To close the
stanching stanchions he places his hand on the close the
pust han it far enough from him for the iron bar to rop into the position shown in Fig. I. This
plan is very simple, and will secure any number
of cattle, from one to twenty-fiee at Quite, a number of the farmers in this part of
the country are using this plan of closinge their stanchions, and find it to lee very
conveniment inded. So if, as Mr. D. Lawrence
states in his letter on "f post-graduate courses states in his letter on "Post-graduate courses
for on sons," farmers at from fifty to one hun-
perhaps they may have different ways of farming,
of securing their cattle, and, knowing ther ways
Creds of farmers' hocate" finds its way into hun--thought this article might some farmers in other parts, if allowed to benefit Culloden, Ont. $\qquad$ E. ROCKETT.


## An End Drive Barn Plan.

We have been constant readers of the "Farmer s Advocate," and take a great interest in the we have an end-drive barn that we find very convenient we submit it to the consideration of your readers. We think there is plenty of room for loose cattle, and we clean it out with team an wagon.
Valens, Ont.


## Success with Potatoes

Sir, - Perhans -
Richardson, is not aware that the potato M. M. caused a famine in Ireland nearly sixty years ago, and it is certainly a fact that it was not caused by Paris green, as the potato bug has never existed in the Emerald Isle.
It has been claimed that Paris green will in the directions potatoes, but, at the same time, the use of Bordeaux mixture is and is feared; so it is at ance appartsed in blight against Paris green is intended to boln the of some other bugkiller In the year 1893 .
badly, owing to the a patch which rotted man we had, thinking to save his, and the hire and had a total loss ; while we left ours in the ground as late as possible before digging, as to give the affected ones a chance to a a without contact with those that were still sound the result being that when dug we had no trouble with them spoiling in the cellar.
Our method of growing potatoes is fairly suc cessiu, the yield averaging two hundred bushels field in one year with another. We plow a sod too old will do-and follow, but any sod not spring, using a disk harrow or cultivats in the pare a good seed-bed, and sowing the oats thick enough to keep weeds in check. After harvest the ground is plowed shalliow with a two-furrow plow, and thistles. The last thing seens and kill grase good plowing, so as to let the frost have a chance at it. In the spring, go over the patch with cultivator and harrows, as soon as you have of manure, to be plowed in. After dheavy coat ground well harrowed and rolled to keep the moisture and start odd seeds growing. This apof May, or when the ground is About the 24th cultivator over the patch as deep warm, run the harrow and roll, and we are ready to make the drills in any way desired, but not less than thirty-two inches apart. The seed should not be cut till one is ready to plant, and is best cut nembering that "like begets like" in this as well as in other things. Plant at least fifteen inches apart in the drill, and cover to a depth of four nches, leaving the surface as nearly level as
possible. Keep the surface well stiryed with weeder or light harrows until you cirred with a scuffler going, and it should gou can get the to keep a crust from forming, until the tops get too large, throwing the earth to the rows the last couple of times through, but do not hill with the
plow, as that will throw the water away from them, and they may get too dry. It also cuts the side roots too much. It is best to pick the old bugs if you can do it at all, but be sure you poison out three or four times but get your not to use more than half a teaspoonful to ten quarts of water, as an excess of Paris green will We use tops almost as fast as the bugs would. and two of us canger plaw the potatoes out, a day easily.
We have had no experience with Bordeaux mixthan five per cent loss from rot in 1902 was less cent. ; while other growers reported rot as bein very bad, one patch in 1902 within half a mile being ninety per cent. bad. GEO. A. SMITH.

## Self-cleaning Mangers.

A self-cleaning manger for the horse stable way we made by having the bottom inclined towards the stall, and leaving a
space of an inch at the bottom space of an inch at the bottom
of the front. I have used this kind of manger for a number keep perfectly clean without
wasting any feed. INote.-This suggestion is
puite ingenious, but we do not see the advantage of the projecting front. It utilizes room in the feed passage, and the angle projecting orer the manger is
a continual annoyance to the horses. We would prefer a straight front.-Ed.]

Where there usually is a wide stretch of open water now but a glare of ice, the ake oring there is completely over. At points on the western side, immense icebergs have been piled up, reaching, it is said, to a depth of from forty feet under water to an equal

THE FARMERS ADVOCATE.

## Applying Manure to Wheat.

 A query from a Welland County reader opens the whole question of the handling and application of manure. What he would like to know iswhether it would be better to draw manure out once a week through the winter and spread it on wheat, or to leave it in the-yard to be drawn out the following summer and put on a summerfallow. Without any hesitance we wayd say apply it in winter, rather than to summer-fallow is difficult to apply manure in fall and winter, especially where the soil is a stiff clay and the weather soft and open. Then it is sometimes found necessary to draw the manure out when the land is dry. In such cases one must exercise his ingenuity to arrange to get the manure out
without missing a crop. When wheat is grow it is quite a common practice to put the manure on as soon as a crop of clover is taken off and prepare the land for wheat. In other instances it might be better to get the manure out in winter and spring for root, corn and rape crops
to follow these with a crop of oats or barley seeded to clover, then wheat after one cutting of the clover.
The result
The result of all experiments go to show that manure depreciates very much in value when left
in the vard during summer. in the yard during summer. Practical experience
also proves that the green manure spread on in the winter gives much better returns in crops and covers much more ground than if applied in summer. In putting manure on wheat, care should plied in such a manner that a very large proportion is directly six tons to the acre would be enough. After the land had dried off in the spring it would be well to go over the field with the harrows to spread
the manure and also improve the condition of the the manure a
surface soil.

## Chop-box Improvement

In the January 14th number of the "Farmer's Ad for holding chop that was built from the upper floor to the lower one, but to those that do not do their own grinding and have one of the old style of boxes, I give
this plan to make it very convenient. Put about one third this plan to make it very convenient. Put about one third
of the front of the box on hinges, and fastening the of the front of the box on hinges, and fastening the
door up to place by two hooks at each top corner. When the meal gets low in the box, this door can be let down, by which means the chop can easily be
reached. This improvement has been quite a convenience to
Grenville

## GARDEN AND ORCHARD

## Insects in a Garden.

 A subscriber writes, saying: "Our carrots andparsnips are infested with ${ }^{\text {e grub }}$ or worm, which is parsnips are infested with a grub or worm, which is
similar in size to a pin, and about as long. Tomatoes similar in size to a pin, and about as long. Tomatoes a gray grub about an inch long, shortly after plants are
put out. Have tried salt, but no use. The onions put out. Have tried salt, but no use. The onions
are also troubled with a white grub, about half an are also troubled with a white grub, about half an
inch long, which attacks the roots near the surface of ripening? This ground has been used as a bearden
since farm was cleared, and onions always put in same
s. Owing to this land being so long used for garden
crops, the insect enemies common to these crops have become quite numerous in the soll. Those affecting the
carrots, onions and parsnips are the maggots of flies of different species, but all resemble each other. Radish The remedial
application of about five hundred pounds per acre of a
fertilizer of the following proportions: nitrate of soda, seven parts; ground rock phosphate, ten parts; foots are nicely up, and before a rain. The grub that They are exceedingly hard to exterminate. One of the best methods is to poison bran with Paris green, and ay it in small heaps about the plants. The mixture
hould be sweetened with a little sugar, and made should be sweetened with a little sugar, and made
moist.
Where the garden is infested with so many pests, it would probably be well to use another piece of land
The infested soil could then receive treatment and cropping that would not be so favorable treatment and cropping that would not be so favorable
to the insects. Old fence rows should be broken up croy many of the larve. The tomato rot is the work of a fungus that usualppearance when the fruit is more than
can be kept in check by spraying with an be kept in check by spraying with
or ammoniacal copper carbonate, but
ply the material to untrained plants. tukes and well pruned can easily be
apm,ars to be less on plants so

## Apple Growing in Ouebec.

## The sego be a few waves of

 of apple blossoms in this Province may waves of Iffume are just as sweet wafted from the flower-laden trees. It is a wholesome sweetness the the hum of bees, is a gather their her that the fruit may attain perfectionGranted that an orchard is planted with healthy trees, that are thirty-six feet apart each way, the land in good heart, and varieties suitable to the climate, it
is only the A, B, C of successful apple-culture. The


Spraying in Quebec
apple has many enemies that it takes time and patience to subdue.
Many mistakes are made as to choice of varieties o suit the market, and a great deal depends upon the
locality and soil. If there is a near local market, and early apples can be, sold to advantage, we may grow Yellow Transparent, Duchess and Tetofsky, but if there is no demand the market is not certain, for these
varieties soon paisd their best as to flavor and appearvarieties soon pass their best as to flavor and appear-
ance. If the market is better suited to a late apple, ance. If the market is better suited to a late apple,
the St. Lawrence and Alexander are fine, showy fruit, and bear well and quickly after planting.
But the queen of the orchards of this Province is
the beautiful Fameuse, white-fleshed and tender the beautiful Fameuse, white-fleshed and tender, growing
so hardily, bearing so faithfully, and ruling the Christso hardily, bearing so faithfully, and ruling the Christ-
mas market; while one of its numerous seedlings, the McIntosh Red, now shares its honors for quality and fine coloring, and is being largely planted. For winter ruit, Baldwin, Grimes' Golden and Russets are standfully stored. Young trees should have superfuous shoots rubbed off as soon as they appear, to form a head as wanted,
and although July is the best season for pruning, beand although July is the best season for pruning, be
cause wounds heal quickest then, it is customary to cause wounds heal quickest then, it is customary to
prune in early spring, as the time best spa-ed lefore prune in early spring, as the time best spa
spraying comes on. The disease for which
is most necessary is the apple scab, that is most necessary is the apple scab, that appears
moist seasons and damp situations. Sunshine moist seasons and damp situations. St inshine athe
fungus and the result is the spots that distigure the fruit and lessen its size, besides doing injury to the foliage, and so stunting the growth of the trees. steady horse and a low cart, a coal-oil barrel to con-
tain the mixture, a spray pump, nozzle and extensio tain the mixture, a spray pump, nozzle and extension
rod are the first requirements : also, waterpronf blanket for the horse, and hat, gloves and wacket for The use of the fungicides is as a preventive, rather


Barrelling Apples.
Work. Copper sulphate, at the rate of two pounds to
thirty gallons of soft water, should be applied betore the buds open in the spring; and, as soon as ule
b,unsins fall, let Bordeaux mixture be applied. It is the mmhint up of the solution. The formula is to tuhe
six poumls of copper sulphate, four pounds of and firt , follons of sulphate, four pounds of quicklime
by pissolve the sulphate
and it into a coarse bag, and hanging it in a by puthmy it into a coarse bag, and hanging it in al
vessel vessel comtaining about enough water to cover it, al
ways romarmbering to use an earthen or wooden vessel
Slake the lime in an equal amount of water and nix
gallons. It is ready for use at once, and the work must be thoroughly done to be effectual, the extensionthe foliage a thorough spraying. The third application is when the fruit has set and is about the size of a or the And often a fourth is needesurinkles the apple with a late fungoid growth.
There are so many methods of orchard tillage adbut in the large orchards of R. Jack \&insell Sut in the large orchards of R. Jack \& Sons,
Chateauguay County, the method pursued has been cultivate the land while trees were young, then sow down to clover, and cut the grass each year, leaving
it on the ground to conserve muisture and arive to it on the ground to conserve muisture and give to the trees the advantage of a natural fertilizer. An applica-
tion of wood ashes to an old orchard will infuse new life and productiveness into it. All over the orchard mentioned are placed hollow logs or old kettles, ranged with only a small opening to admit the lesser
birds-this gives them safe shelter from the pursuit the larger ones-where they rear their brood and hel the orchardist by searching for, as food for their young the injurious insects that would otherwise do

## damage.

Apple-picking is in itself a problem of importance easily found in a company of workers hired by the day Fruit may be bruised by handling, as well as by falling, and it is a necessity to employ one vigilant "floorwalker" to go up and down the rows and see that the
fruit is not injured by careless or incompetent hands. Especially is this the case with the more delicate
varieties, that are often, for wint of care, made unfit varieties, that are often, for want of care, made unfit Packing is done to best advantage in the orchard,
with the barrels in rows-No. 1 to the right, and No. 2 with the barrels in rows-No. 1 to the right, and No. 2
to the left, with bags for thirds, that are fed to horses, pigs and cows. The work must be done by
someone able to discriminate as to size, and requires practice. To economize time and employ the hands in
wet weather, the fallen fruit is carried to the wet weather, the fallen fruit is carried to the applebaskets, and with roomy floors. Here, if a shower comes up, or a rainy day, the pickers know they can find employment, and the orchardist feels that the work is not stopped by weather, as this part of the business at once after packing, and find a readier market sped if allowed to remain long on the ground exposed to the Facing, which is setting two rows of apples. stem downwards, at the bottom of the barrel, gives it,
when opened, a neat appearance, but the fruit should not be any larger than the ordinary sample, and the apples are filled in by hand from the picking baskets, that are soft in make, to prevent bruising. The sorting table now recommended has not yet come into gen-
eral use, but has many advantages. After shaking down, which is done by a rocking motion, on a piece of plank, the head is put in and pressed in place by a screw, then nailed, and the barrel put on its side, in the shade. Each barrel is branded with the grade of fruit and the grower's name, and is then ready for

## Potato Rot.

Sir, -1 cannot see that C. M. R. sees (Jan. 14th issue). I think our wet more to do with rot than Paris green off water, hav should teach any man that it is only in extremely wet seasons that there is rot. I don't see how extremely we potatoes can be saved without using poison. The two last seasons have been very wet. In 1902, I had four
good wagon-loads, with about halr good wagon-loads, with about half a pail of rotten
ones. In 1903, rot exists at the bottom of the field where the does not get away. To prepare the field, in the fall,
put on from ten to twelve loads of barn manure plow it in. In spring, about 21 st of May, give it a good, clean plowing, to let down the water. Drill up
from twenty-eight to thirty inches, always drilling so that the water will run off easily. After drilling up pat eight or nine loads of long manure in drills. Pack
it well. Give it a drag with the harrow to put earth it well. Give it a drag with the harrow to put earth
on top of the manure, to raise the seed so the water will get away. Cover seed with plow, roll with land
roller. Before summer are seven or nine inches high, mould up with plow,
are deep enough so that any rain that falls will run away
from the potato. Mr. C. M. R., I think, is like Peter-a little im-
pulsive. If he would call to mind his own observations, he would see that it is mind his own observe duces rot in potatoes, and not Paris green. In the
years $1849-50$, in Scotland here years 1849-50, in Scotland, before there was a bug, or
need of poison to kill it, there was need of poison to kill it, there was a wet season, and
few varieties even were saved; the old kinds were ew varieties even were saved; the old kinds were
about wiped out. We got a new kind from America thers. Fhite, that seemed to stand the wet better than hers. Farmers are not supposed to know the times lare for whatever may come. It is well to keep the practiced that plan for over twenty years, and never ailed of a good crop, wet or dry season. For every
disease in man, beast or vegetable, there is a cause, cure.

## Quebec Dairymen Meet

[Reported for the "' Farmer's Advocate",]
Quebec Dairymen's Association held twenty-second annual meeting in the City of Sher
 l'ro: ince were in attendance.
The President, Mr. C. M. Parmilee, M. sided. In his opening renvirhs he said that ; French and English,
was a good
commodated.
Mr. J. A. Plamondon, Assitumt spector of Cheese Factori
He subnitted a lengthy
port of what had been done during the past He visited 22 syndicates and 281 tactories. Th
chief fault he found in the chiese worn wecthonical holes-the curd was given too much acid-but per
 better if prices are to equal that paid ior Ontarion
cheese. Another fault consisted in the bad boxe
 cheap boxes. There
one-horse cheese factories.
Mr Rarre, of Winnipeg, said he had thain Mr. Barre, of Winnipeg, said he had gained
much information regarding Ontario andl Quebec cheese at the St. Thomas Butter and Cheese Ex-
hibition, nnd it was his ounion that Quebed Should excel in dairying, as the undulating coun-
try was more adapted to the growing of grass try was more adapted to the growing of grass
for dairy herds, and produced richer milk throughout the entire season. Whial tiish the price of
wuebec cheese is its inferior finish of the factories would disappear the quality of cheese would be res
Mr. Robt. Ness renterked that one thing the Trovince or Quecec could Loast of was that if they at least made the largest quantity of butter. He thought that with hard work Quebec should soon be able to produce a cheese second to none.
In the report of Mr. J. D. Ieclair, General Inspector of Butter Factories, he found many factories badly equipped, some too lightly con
structed and others without efficient refrigerators Incompetent buttermakers and badly-cared-for milk were also two very frequent evils met with. Butquantity. To offset the thad effects, and not milk, the speaker strongly advocated pasteurizing
the cream.
Mr. Jubinville. of Montreal, thought that the inspectors should be paid entirely by the Gov partly by the owners of factories. This would cive better results, for the inspector, calling at factory and seeing anything was wrong, would more readily warn the man and report the ci
cumstances withouit being afraid of displeasing man from whom he receives of displeasing salary.
Mr. Parmelee, M. P., in opening the evening
session of the first day, remarked, that but a few years ago almost the whole dairy production is the Trovince was through the home dairy; to-day were not yet pericct, but had made remarkable
progress.
Tlie key to the dairy situation was that we must go on striving to improve wa Prof. Hills, of the Vermont Dairy School, gave
an exceedingly interesting addiess on " Creamery "onumdrums," He referred to the question of tages and disadvantages. some of the advan-
tuges were economy, saving expense in hauling of fat in the skim milk, repairs to machine waste He telieved the hand separator had cone to liness. We thought 2,000
manny fartories were to too could the had from fewer but larger factories. ing extensively from the censis's figures.
Provinces.
Quebeb the dairy industry. It was for the Quelece dairy made the checse trade. Cheese Association, in of Montreal IButter and
encouraged cleanliness. Mdress, especially lest a avantage immediately after milking. He
considlered that the ciations should make arrangements with the rail-
way way companies so as to establish more refriger surmer when a load of buttor was tothat in the shation, it often had to wait in a hot freightcalke wlong. He was in favor of having more in to nsert and their puthors who would not he nfrai
boxes. one thing which in referring to baid boxes, one thing which he could not understand
Wan that foroign countries which imported their
wood from Canada were able to turn Messrs, Wo do here.
Gabriel Henry, O. E. Dallaire, Mor-
tureux; J. H. Grisdale and Mr. TTourchot con tributed to the programme during the cosion-
cession. Mr.
G. A. Gigame Agriculture, gave a splendid, address .Minister of ate of the census figures showed that the dairy


Two Imported Bulls.
In the Shorthorn herd of Thos. Mercer. Markdale, Ont.
to be sold Feb. 24. (See ad., page 216; Gossip, page 214.) herd was not so well selected in Quebec as in On-
tario, and that owing to this fact they had lost \$1,789,032. jear were elected as follows: Hon. Presidents
Hon. S. A. Fisher, Ottowa: Hon. Turgeon Quebec; Mr. J. A. At Vaillancourt, Montreal. Pres ident, Mr. C. H. Parmelee, M.P., Waterloo ; Vice
President, M. C. Milot Ste Mon Treasurer, Mr. E. Castel, Ste. Monique; Secretary year's convention will be held at St. John's, P. P .

## Paying for Cream

investigation into the various has concluded an investigation into the various methods of paying for cream, and has come to the following conThe is surplus,
from fat in cream is "greater "or "churn gain " in milk. A creamery which gives no larger surplus to its cream patrons than it does to its milk patrons is simply handing some of the money due

King of Prairie Home - 16119
Sired by Surprise of Burnside; dam Silver Maid of Howick, by Silver King (imp.).
First-prize Ayrohrie bull under one year at Winnipeg, 1903. At head
clear when it is reasoned out. The churned but ter weighs more than does the fat, because of the which is put into it. This excess in weight the butter over the fat, called the "surplus," grows larger as the sources of loss of fat are diminished, and lessens in proportion to their inrease. Their losses occur in (1) skimming, (2) churning, (3) working, (4) in sundry ways, stich
ing to the pails, cans, separator, ripening vat churn, worker, etc.- the so-called of mechanical


least expense; therefore, are well
to produce a large quantity of good milk during the whole year,
under such conditions as should exist upon every dairy farm. I
hase reason to believe that we have in the Ayrshire the very best
animal for our Cana dian farmers. Being Canagood grazers, active and hardy they do well on our hilly pasture lands; they keep in good condit on and
give a good flow of milk when feeding on some of the other
dairy breeds would al mo t starre, hence they are better fit by nature to adapt themselves to
the conditions and surthe conditions and sur-
roundings of the farmers and dairymen farmthe farmenghtly termed purpose cow, they will roduce the largest will best yield of milk, but-
ter or cheese, at the reason that I adopted the Ayrshire was for this dairy farming. Situated as I am with I started ery and cheese factory at my door, and within cen minutes' drive from the R. $\dot{\mathbf{R}}$. station, I hetter position than with any other breed to in a "11) whichever branch of dairying would be most hofitable. For instance, while building up ast herd we made butter or shipped cream, retaining
the skim milk on the farm for feeding calvea and
run the gauntlet of all these losses except that of livered at a creamery has not only suffered thes mechanical also the loss in skimming and the will usually be found to to separation. Thes farme total loss of fat, since the skim milk cock separators-and factory separators too, Bab-standing-seldom contains less than 0.10 per cent lat, and often carries 0.15 per cent. or more Since the size of this surplus is in part dependent upon the extent of the fat losses, it is easy to see
that the purchase of cream tends to swell, and of milk to shrink this figure, because the latter suf fers more loss of fat after its receipt at the creamery than does the former. The mare the true surplus, the more the money (if the quality
of the butter does not suffer): hence, the more ceam the creamery buys, the higher the surplus and the more money it receives for distribution.
When a creamery separately churns its creamtheired and its milk-delivered fat, and keeps
their accounts separate, the proposition is fectly simple one. This, however, is but rarely one in Verinont creameries. The common cusless of theirge all the creams together, regardess of their origin and method of separation. he same price par pound for butter-fat, is given o all milk patrons and cream patrons alike. This ncreased money means increased checks for everybody, because of this higher churn gain. In other purchases, for they get some benefit by the cream The cream deliverers also benefit-to some extent. They ought, however, to receive every cent of the extra income arising from this extra churn gain, hat obtained over and above the regular surplus asked to share it with their neighbors who be iver milk. Its existence is due to their having at their own expense incurred some loss of fat, whereas their milk-delivering neighbors have in

## The Ayrshire Cow

address by Hon. Senator Owens, at the annual meet-
ing of the Canadinn ssociation.
Permit me to congratulate the breeders of Ayr our cattle on the very prosperous condition of our association. The Secretary-Treasurer's of the past a handsome increase in the business portance is year, but what is of much more imshires. I think the breeders present will Ayrwith me that the demand fors present will agree exceeded that of all former years. It is very gratifying to note what the Ayrshire has is vene at the late Winter Fairs, both at Guelph, Ont., and Amberst, N.S., winning the championships in the forced competition that brings out the qualities
pigs, ahipping milk only when it commanded the when selecting a breed. The Ayrshire no mistake was credited with being able to produce 5,000 to 6.000 pounds of milk yearly, while to-day she i giving 8,000 to 12,000 pounds yearly
modest, and fail to extol the virt breeders are to ites as they should do. They appear to think that because they have the best breed of cattle for Canada they can remain quiet and allow other to do the blowing. I ask you, is that doing
justice to the Ayrshire ? ustice to the Ayrshire
the Ayrshire, it is right and proper that we should make such suggestions and adopt such methods as we consider advisable in the interests of our favor ites, and inquire how can we best breed that cow to
have her constantly produce the largest quantity of good milk at the least possible cost. I have no doubt it is the experience of many of those breeders present who have kept a careful record of the daily yield of each individual cow to find that the cow which stands at the head of the list as a under present conditions. This not only will apply to breeders, but importers, gentlemen who have ondeavored to bring to Canada the very best Ayrshires that could be found in Scotland, and I the best dairy cows in some instances when lo by ing for show animals. Are we breeding for the dairy or for the show-ring? At present there is no distinctive agreement as to the most desirable progress is to be expected be determined, if many of the breeders consider that a change chould be made in the scale of points for the how-ring, with a view of producing a more disinctive dairy Ayrshire. This is the time and he place where action should be tak in the mat
I make these suggestions with a view of having those questions discussed by the practical genlemen present here to-day, who are so deeply Canada.

## Effect of Agitation in Skimming.

 fore skimming, the author found that viotent agitation of the milk at separating temperature causes a division of the fat globules, the minute globules remaining in cherim milk, in the process of separation. Milkchurned for five minutes at 50 C , and afterwards paseurized at 75, gave skim milk, contafning 0.69 per rom milk not previlously churned. When milk ink churned at a very low temperature (5.5) for five minutes, asimilar fat content was obtained again, as in the case of skim milk, from milk not previously churned. of different Protessor Woll says :
team turbine pasteurizer, no increase in the fat content of the skim milk was observed when the stirrer was
turned at a speed of 200 to 250 reser $\begin{array}{llll}\text { minute : but with } 300 \text { to } & 500 & & 250 \text { revolutions per } \\ \text { revolutions an in- }\end{array}$ creased amount of fat remained in the sklm milk, th average percentage in the two cases belng about 0.118 and 0.225 per cent. In trials with milk pumps, no appre skim milk where the milk passed through the pump fifty revolutions or seventeen."-[Ex.

## Guelph Dairy School Notes

SWEET VS. SOUR CREAM.-To test the relative of trials have been made during necember and number teurization of the cream when sweet, or as soon as de
livered by the patron or hauler from .2 to .5 per cent. of acid, and was pasteurized without difficulty. In some cases, the pasteurized rip
cream was cooled and churned immediately. with results in flavor and texture of the butter. So far as
our work has gone, it indicates that good results are likely to be got in our cream-gathering creameries b not, then pasteurize it after ripening or soursibs

PEPSIN IN CHEESEMAKING.
drawn from the experiments made at the New York $F$ periment Station is, that "it is the pepsin contained ing). If this be true, it has been suggested that wi ing). If this be true, it has been suggested that w
use pure pepsin, instead of rennet, for coagulating mill
in the making of Cheddar cheese. A sample lot
 some cheese have been made. While the coagulation
did not appear to be normal, as with rennet, the curd id not appear to be normal, as with rennet, the curd,
fiter dipping, seemed very nice. It will be some time efore we can report on the cheese.
MORE PRACTICAL WORK.-The amount of pracICAL WORK.-The amount of prac-
factory class in cheese and butter-
increased by one-fourth this year. tidnlng the class into three sections,
as 1 n former years. The separator ns in Pormer yeara. The sections,
ik-testing in tho afternoons, Instead
will be given during the last two weeks of the term, while practical examinations are in progress. The arto by two of the students each day, under the superision of a competent instructor
The making of cheese-boxes also forms a part of the instruction now given to the cheese classes. There is own cheese-box manufacturer, at a great saving in cost. He can make them as well and of as strong material as he wishes. If he wishes to do so, he can make a double rim on each box, thus making them very much CHES
CHESHIRE CHEESEMAKING.-We all rememler the nursery rhyme, In which it was told how a mouse
was enticed by "Cheshire cheese of most exquisite smell." A lady graduate of an English dairy school, during the month of February, glves instruction in Cheshire cheese making.

## POULTRY.

## Getting Hens To Lay

The weather this winter has not been the most onducive to good laying. Sunshine, the source absence. Many poultry-keepers have exhauster every effort to induce their feathered friends to writes
"I have been watching the "Advocate" this winter for some good method of making hens lay. Thave done all I can for our hens, but they will are such a high price"

This winter's conditions will at least enforce One principle, namely, that of selecting eggs from all best laying strains for future stock; for afte all has been done to induce hens to lay, and per-
haps they themselves have been made quite willing to do so, there may be in them an entire lack of ability to produce eggs. It's a case of the flesh being weak. The trait of winter egg-laying is a developed one, and is also hereditary. It
should not be surprising, therefore, if some hens have this trait to a greater degree theme hen or that some hens have it not at all. What we should do this winter is to mark the hens that show this trait to the greatest degree and raise next year's pullets from these hens' eggs. Or if
no winter layers can be found in the flock, securd a supply of eggs from someone who has same: and not only this, but all stock that does not show a disposition to do useful work in winter should be disposed of. Of course, they should first have A chance, as our correspondent has given hers. winter, but non-winter layers need hardly be expected to produce winter layers, and the best way to secure winter-laying hens, or any other desired
object, is to start right.

## Turkey Raising.

with reader sends us a few questions in connection quire arkey-raising to answer, which would re ing of turkeys throughout breeding, care and feedcorrespondent has a four-year-old tom a hreo vear-old hen, and three females of last year's things, what we think of his breeding stock Turkeys, unlike hens, can be kept profitably unture until the second year. as they do not maeour years old, rather than of the previous year's latch. By the second year we would have had
time to have tested them for laving purposes, and of have disposed of any that did not prove to he
of proper size or shape. A tom can be kept until Pour or five years of age, and can be mated-
with from fifteen to twenty females. During winhor a small flock of turkevs may occupy the same special shelter, but they require plenty of exercise and a variety of foods. They do not thrive well ill hegin to forage as soon as the snow is of and by the time the ground is well dried will reAbout this time it is well to provide nests in sehegin to lay remove the eggs every day, replacing turkey reges under a hen, reservine a few for the many chiections to this plan, and wee do are
not them then lice. and she cannot forage well for somp the first day feed hread soaked in shorts, aill animed in Ainely-chopper dandelion and al...t tho forithe to mix in the gre
five times Presh and clemp phil give that the food is always
water Keep the coops scrupulously clean, and
move them every day. When the hen is aiven hit move them every day. When the hen is given
liberty, which may be in about ten days or weeks, give only a feed of shorts in the morning and another of wheat at night, but see that thi turkeys are well supplied with water. About the supply, increase the rations somewhat, the insect three weeks before killing, begin to fatten. Fre the birds four times a day, as much as they ca eat. The morning meal may consist of boiled potatoes, carrots or sweet apples mixed with bran and corn meal, whole grain should al diet may be varied by oats, peas and corn. not confine the birds, as their nature is liberty loving, and they will pine if deprived of it. I
given all the food they can eat, they will not give given all the food they can eat, they will not give
much trouble by roving.

## Manitoba Poultry Exhibition.

The annual Manitoba Poultry Show, held this year at Brandon, January 26th to 29 th, proved to be a very interesting and successful event. The birds exhibited were undoubtedly of high merit and they were there from almost every district in the Province. The display was a magnificent one, a delight to the heart of the poultry breeder a spectacle of beauty, and an instructive function all who had the privilege of attending it

The judging was done by Mr. Ben. S. Myers crawfordsville, Indiana, and he made the state ment that the show of birds was above the aver age of those held over the line, and was quite equal to many of the large State poultry fairs nder these circumstances keen competition, high scoring and close catling was to be expected, and such was certainly the case. The breeders each ery als and congratuations the fortunate winnersere unreservedty extended to The placing was a single fudge, and the work occupied energies of a time during which the show was lust of the ably over thousand binds was heonsidervariety of breeds ought to give some ali the ment to those who look to sone enighten as severe and limited in our western climate raising and maintaining of a form the arieties of birds and animals.
The classes showing strongest in nouth reported in last week's issue : the Barred Ply Rocks Rocks, White Wyandottes, White and Buff Rocks, Buff and Black Orpingtons, and Leahorns, was a were also largely represented, and there Cochins and Brahmas, and several and fancy fowl. though not so strong in numbers, were ery best quality, and in the pink of condition A feature of the show which proved highly eresting and popularly attractive was the cat and oogs, rabbits and Belgion included cats, poodle pigs, canaries, and that delight of the children-a real live monkey. The judging of the domestic ets was accomplished by Mrs. Maltby, Manor, ssa., who is perhaps the greatest authority on

## APIARY

## Cellar Within a Cellar

My cellar within a cellar is working finely
an absolutely control temperature secure th.
quisite dryness of atmosphere, and have the course, it requires constant attention-so does my after the temperature of the bees. A thermometer hanging inside gives the temperature, and if I adjust the difficulty ; if the window sufficiently to of the bee-cellar open to let in a little of the ature within five degrees all can keep the temperlating the affaire spent ten minutes a day regicaring for my furnace. There rs no doubt in my a furnace cellar can in this way be better north lated than any other cellar. If I had a large num same inexpensive way I partitioned off a corner for the bees, thus utilizing my whole space for the now use I can not speak at prosent of the ultimate outcome, hut I do know that I am con-
trolling the temperature, and securing conditions which are in harmony with good results. I offer one who may be as perploxed as $I$ was.--IGlean-

## EVENTS OF THE WORID

Wolves, rendered unusually dartng ing the great
 choppera are Anding it neeesearys to ko to and trom their work in bande

Ten submarine bells, costing $\$ 2,000$ each, have bee bought by the Government for the protection of
shipping in the Gulf of St. Lawrence and along Atlantic seacoast. By a new invention, these bells although placed beneath the water, glve unfailing warn-
ing to every vessel passing within a certain limit.

It is, perhaps, an interesting item to know that train bearing important personages in charge of important dispatches sent to the Czar from the rar Enst
passed through Canada recently. The train was passed through Canada recently. The train was
chartered by Lieut.-Col. A. D. Dabovshy, of the Russian charte
army.

The situation in Somaliland is growing more serious Although it is not true that an alliance has been negotiations have been carried on which have changed the Abyssians from active enemies Into passive spec

Baltimore, Md., has experienced one of the greatest fires known to history. One hundred and forty acres
of the business portion of the city was destroved, at of the business portion of the city was destroyed, at
a loss of over one hundred millions dollars. The fire was got under control on the Mcnday night after
raging thirty-six hours.

On January 28th, for the first time in America patients were injected with serum for the cure of tuber-
culosis. The injections were made by Dr. Lemieux in culosis. The injections were made by Dr. Lemieux in
Notre Dame Hospital, Montreal, the serum used belng that prepared by Dr. Marmorek, of l'aris, with whom
Dr. Lemieux was associated last year Dr. Lemieux was associated last year. According to
last accounts, the results seem very satisfactory.首

Great uneasiness is felt in Germany regarding the fate of Col. Luetwein, the Governor of German South-
west Africa, who started from the Wind sest Africa, who started from the Wurmbad region the relief of the beleaguered camps in the north of the feared that he has been besleged of him since. It is some point, and is anxiously waiting for a rescuing
expedition. expedition.

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The long-looked-for crisis in the Far Fast has a
st arrived. Japan had taken every effort to dray ussia out, while the latter seemed to have parleye or time. Naval engagements in the neighborhood of Port Arthur and the landing of. Japanese forces in
orea set loose the dogs of war, whose actions will be the most interesting since the time of the incident in Crimea. According to a dispatch from Vladivostock, the railway between Fusan and Seoul is wholly occupied by Japanese troons, while field guns have been
aken to Seoul for the protection of the Japanese legation. Upon the Russian side, recent operations
have been chiefly confined to the navy.
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Despatches received at Chumbl, British India, from Col. Younghusband, state that he has had a visit from
ine of the five great lamas of Thibet, who warned him one of the five great lamas of Thibet, who warned him
to go back, and threatened him with opposition ti he refused. Large reinforcements of infantry and cavalry are joining the Thibetan camp, and it would not oc-
casion great surprise should an attack be made when casion great surprise should an attack be made when present at Tuna, whence the work of roadmaking is being pushed vigorously forward, a fying column under
Col. MacDonald being held in readiness to go forward at any moment should necessity arise. The weather is
renorted renorted as being intensely cold.

Owing to the scarcity of cotton, the manufacturer in Great Britain are becoming seriously alarmed hours a week during the past month or two, and some firms are discussing the advisability of opening the mills only every second week. With a view to reliev-
ing the situation at as early a date as possible, and preventing its recurrence in the future, a company, which will be known as the British Cotton-growers Assoclation (capital, $\$ 1,250,000$ ) has been formed for Africa and of planting large cotton fields in British been assured that it will receive adequate assistance Prom the Government. British Africa has been de
scribed as affording admirable facilities for cottongrowing, and the establishment of such an industr
that country In his recent speech from the throne, pressed a hope that the efforts put forth for growing
the plant within the British the plant within the British Empire would be attended


Pineapple.
Carling Shorthorn heifer included in dispersion eale of
Thos. Mercer, Martrale, Ont., Feb. i4.
page 216; Gossip, page 214.)

## Preferential Trade.

To the Editor "Farmer's Advocate ": come prominent in public thought, at a time when circumstances seem favorable for its adoption,
Shorn of minor issues, the primary object resolves Shorn of minor issues, the primary object resolves
itself into a scheme to make the Empire mutually itself into a scheme to make the Empire mutually
supporting. This is to be attained by a system supporting. This is to be attained by a systen
of differential duties, discriminating against foreign producers; thereby establishing the food-sup-
ply within British territory, while the colonies ply within British territory, while the colonies shall extend to the manufacturer of the United
Kingdom a similar opportunity for cultivating Kingdom a similar opportunity for cultivating
their markets. Considered on an economic basis their markets. Considered on an economic basis,
the operation of such a policy would undoubtedly be a great boon to the Canadian farmer, in his dual capacity as producer and consumer. Just where we stand as to our ability to assume o


Harding Ram 282
 lume of exports The figures
reat Britain. reason is there to suppose that our advancement
$\$ 114,441,863$, or more than one-half of our total
items for which we may be said to above, a few items for which we may be said to have specia
facilities, and which would be more susceptible to development should our trade with the mother country receive a preference. The annual consumption of imported bacon in Great Britain
amounts to 300,000 tons. What is Canada's proamounts to 300,000 tons. What is Canada's pro-
duction of this commodity? Statistics show our yearly output to have increased from 23,528 tons in 1896 to 68,977 tons in 1903, almost trebling during seven years. It is well to remember in this connection that an attempt to cater to the British of bacon is a newly-organized branch of farming in this country. When our farmers become better acquainted with the merits and requirements of the business we may look for even larger results.
Turning to dairy products, we have every
reason to feel proud of the situation. Britain's average importation of cheese is computed at 139,289 tons. In 1896 canada exported 82,344 tons, and during 1903 were able to stock the larder of John Bull with that article to the tune can supply a little better than 82 per cent of the whole demand. At this rate a monopoly in cheese evidently a awaits us in the near future. In butter we are not doing so well es yet, although
during the same period it has made a far more rapid growth. The exportation of 2,994 tons of butter in 1896 would now be looked upon as a very small matter, but in 1903 it increased to 17,064 tons, or nearly six-fold. Should this coninue for another seven years, Canada will be in a position to furnish one-half of the butter Eng-
gratifying aspect. Whereas in 1896 but a very 42 bushels were exported, it advanced in 1903 to $32,986,745$ bushels. Western Canada is being ooked to as the future source of this staple, and will soon be able to meet the entire requirements of $100,000,000$ bushels, annually consumed in
Great Britain.
These facts show that our poverty in surplus foodstuffs is not so great as the opponents of a of the last decade is to continue? While we are ware that the recent years of fatness have not een confined to this country, and are warned expected, yet it is significant that prior to the existing wave of prosperity we had not established an export market in England, nor had we an dequate system of transportation. In the United States, a cessation of good
times is already noticeable, and a similar con-
dition is comdition is com:
mon to other mon to othe c a ses cannot, however, be cited as analogous, as the countries re
ferred to have outgrown. their visible markets and fluctuations governed by a
variety of cumstances are of ordinary oc currence. A prefer'entifal treat-
ment of colonial ment of colonial sure us against a like experi-
ence, and provide indefinitel irome foreign competition. Not only this, but a steady stream of
emigration
would be attracted to our shores which if a vipplemented by vigorous home velop as in no
ricultural lands is an interesting question. Could we in a reason- other way our vast tracts of agricultural lands a.ble time produce a sufficiency of food-products
to meet Canada's obligation? Traking into thie 0 meet Canada's obligation ? Taking into thie the last seven or eight years, such an achievement s by no means improbable. Beginning with the year 1868, our exportation of farm products was 1896, and last year reached the eplendid ficure in

On lying dormant. cessions by Canada tend to increase the importa-
tion of British manufactures, how then woild we be affected as consumers? Evidently there would be brought into play the doctrine of "comparaa rearrangement of commercial interegta extent

THE FARMERS ADVOCATE.
well known that some parts of a country are ferunproductive, yet may be made profitable from the minerals they contain. Certain localities are suitable for the manufacture of iron and steel goods; others for textiles, paper and chemicals. Great Britain has a dense population, and a vast capital sunk in machinery. With her mines and
industrial skill she is admirably adapted for manufacturing. If we glance at the textile manues, we find her factories employing more than 1,000,000 hands, and providing about one-fourth of the clothing of civilized races. There is all an extensive output. As a result, superior goods are laid down in this country more expeditely than by local firms, and at a minimum cost to and steel wares. Mr. Chamberlain's proposition would encourage this to a considerable degree, and be decidedly beneficial to the farmer. Such a course does not necessarily imply hostility to the industrial enterprise of the colonies, but will have
a somewhat sweeping effect on those interests that a somewhat sweeping effect on those interests that
have been fostered by high protective duties, and whose finished products may not possess sufficient quality to sell on their own merits J. HUGKENNEY.
Elgin Co., Ont.

## NOTES AND NEWS.

" Do not anticipate trouble, or worry about what may never happen. Keep in the sunilght. "- Franklin. " If you would convince a man that he doas wrong.
do right. Men will believe what they see. Let them ee."-Thoreau.
Mr. C. S. Hyman, M. P. For London, was sworn in olio.

The mounted police force for the Northwest Terriwill bring the number up to nine hundred
It is estimated by an expert authority that the alue of the apple crop of South Ontario last year was 200,000.
The U. S. Secretary of the Treasury has ruled that frogs' legs imported from Canada are "dressed poul-
try," and, as such, call for the payment of five cents per pound duty.
The remarkable rise in the price of raw cotton is The remarkabie rise in the price of raw cotton is
affecting Canadian mills serfously. Already some of
the manufacturers have advanced the prices of prints, the manufacturers
Mr. Alexander D. Cartwright, of the firm of Maconald, Cart wright \& Garvey, barristers, Toronto, has Board of Railway Commissioners. He is a son of Sir Richard Cartwright.
". The real difference between men 1s energy. A
trong will, a settled purpose, an invincible determination, can accomplish almost anything ; and in this ies the chief distinction between great men and littleIt has been proposed that, instead of a duty on forelgn. Wheat, a bounty should be given by the British
Government on wheat grown in Great Britain and the colonies, as a proposal less objectionable than a proDon't throw away your wood ashes in a heap which Will be left unused. Wood ashes is a valuable fertilizer, and should be kept safely, under cover, until it
is required to be used for helping crops along next spring.
Over 1,000 farmers assembled at the Iowa Agricul-
tural College to attend the two-weeks winter course in livestock judging. Some of those who came were 65
years old. Why should there not he juct years old. Why should there not be just as many at
the O. A. C. Judging course, Guelph. The Dominion Minister of Agriculture hopes to
cure, this session, the adoption of the bill he had be fore Parliament la and mixing of seeds. He trusts, in this way, to large ly prevent the spreading of nixious weed seeds through-
out the country. Sir Wm. Mulock, during his visit in Mexicn, has hat
an interview with President Diaz, in which means of promoting trade relations between were discussed: meeting, at which Signor Limentar Mr. Thos. Crawford, M. P. P., in the Ontarin I lature, pointed out that a well-bred beef animal
worth at every stage from $\$ 5$ to $\$ 15$ per head than a scrub fed at the same cost. Mr . cattle trade for many years.

Pringle, Counclllor for the Yukon Ter completed a trip over the Territory, havsnowshoes, assisted by a
the mining outlook for the nclined to belleve that
ill rival the Klondike.
would think of throw-
to be absolutely lost. Yet, the man who neglects his adequate food to perform the functions for which
kept, is doing that very thing."-[Jersey Bulletin.

Mr. Alex.' McFarlane, Secretary, advises us that
expects the following to take part in the annual meeting of the Canadian Fairs' Association, in Toronto,
February 17th and 18th: Messrs. G. C. Creelman, February 17th and 18th: Messrs. G. C. Creelman,

## Hodson and others.

## nd take table food.

Browne-How do you know?
Towne-I sat next to him in the restaurant to-day, and when he got his plate of cold corn beef, he absent
mindedly cut up some of it in small bits and passed it over to me.

Illinois farmers are becoming much awakened to the
question of maintaining soil fertility. Are all Canadian farmers paying due attention to this subject, or their farms without giving a thought to it? it should be remembered that the well that is fed little and drawn from much goes dry.
hausted lands in Country Gentleman, referring to the exhausted lands of the Western U. S., says: "Another
thing which will lessen production at a fearful rate is he extravagant system of bonanza farming so univerwheat, year after year, until the land becomes so imwheat. year after year, until the land becomes so im-
poverished that it will no longer produce a paying
crop." Is this curse of bonanza farming wholly uncrop." Is this curse of bonanza farming wholly un-
known in our Canadian Northwest ?

An Imperial edict against the binding of girls' feet has been promulgated in China, all officials being re-
quired to warn people against this practice. This may seem a small matter in China, but it is another sign that that conservative empire is fast becoming permeated with the views and customs of the Occident. China has been a locked land for many ages. When she be-
gins in the forward movement, she will probably make strides.
Seldom has a more quick-witted retort than the fullowing been given. At a certain dinner given ouce in
old London, a noted lawyer sat next to one of the old aristocracy, who, upon this occasion, was distinguishing himself chiefly by the quantity of viands which he was
managing to dispose of. managing to dispose of. Presently, as though in
apology for his excessive heartiness of appetite, he remarked to the lawyer: ". By eating well, I praise the food." " Yes, my dear lord," was the immediate retort, "but you carry praise to the point of llattery."
A waiter in New York City was heavily âned rocently for beating a dog with his fists and with a
knotted leather strap. Occasionally one hars brutal men in the country. $H_{e}$ is a coward, indeed. who will corner up any poor dumb animal and wreak
out his own fiendish temper on it. By the very act he out his own fiendish temper on it. By the very act he
proves himself lower than the animal he attachs Animals may need correction, but it should be given gently. Most animals are extremely sensitive, and
gentle treatment will go much further in making them gentle treatment will go much further in making them
tractable than severe measures ever can. A trough and fountain was erected lately at Bur-
stow, Surrey, England, stow, Surrey, England, to the memory of the horses
sacrificed in the war with South Africa. The inscris tion on the trough is as follows

In memorial of the mute fidelity of the
400,000 horses
killed and wounded at the call of their masters
during the South Afric
This Fountain Is erected by a Reverent Fellow-creature E. A. James, general manager of the Canadian
Northern Railway, states that the Company will luild everything ready for the main line when it gets to that everything reacy for the main line when t gets to that
point. Requisitions have already been received from
companies to erect five grain elevators there. The Canadian Northern will ingtall tracks this summer, so
that these elevators will be in a position to take in

## Road Improvement

An organization, to be known as the Municipal Road
Improvement Association for the united Northumberland and Durham, Ontario, was formed at a
meeting of delegates from the rural municipalities.
The following oficers were electer. The following officers were elected: Presidint, Col
John Hughes, Heeve of Clarke: Viceriresidents for I urham, Thomas Baker and Thomas W. Donaldson ;
for Northumberland, Thomas Davidson and Thomas B Carlaw, of Warkworth ; Secretary-Treasurer, Major Neil; F. Mac Nachtan County Clerk; Executive-M. A.
James, Mayor of Bowmanville ; J. W. Quinlan, Mayor the reeves and clerks of the municipalities.
After the organization, Mr. A. W. Camphell, Provandorn lonatas Commissioner, delivered a a two-hour in ump $\quad \begin{aligned} & \text { He strongly favored the abolition on } \\ & \text { statur }\end{aligned}$
met


Dominion Grange.
At the annual meeting of the Dominion Grange in
Toronto, beginning on February 2nd, the retiiting Toronto, beginning on February 2nd, the retiring
Master, Mr. Jabel Robinson, M. P., insisted on the necessity for combination among the agricultural class to fight against their many grievances and secure an adequate return for their labors. He does not object
to assisting industries to start, but wants the help to stop there. He approved of the building of the Grand Trunk Pacific as opening up vast fertile regions, but he said the road should be owned by the country, in order to protect the people from falling into the hands a wealthy railway corporation. He disecussed the
removal of canal tolls, and the proposed ship canal removal of canal tolls, and the proposed ship canul
from Georgian Bay to the Ottawa River. Regret was expressed that the system of free rural mail delivery is not going to be adopted, and the opinion of the
Master is that Canada will get it when the Master is that Canada will get it when the farmer
wakes up. Mr. Robinson says that the Dominion is cost of transportation M. P.s and Scnators. Thic facturers of the east cannot compete in the Northwest even with a twenty-per-cent. tarif, without a cheap A committee report was adopted, protesting agains armer would be ignored. Mr. H. J. Pettyplece's bill for the taxation of railways
now before the Ontario Legislature was endorsed thy the Committe on Legislation and Cransportation. gestion that a two-cent rate should be enforced on al railroads in Ontario was endorsed on the ground that Tegislation to this end would be in the interest of both of the railway and the public. Gratification at the
creation by the Government of the Railway Commission
The Committee on Education favored special atten tion to the subjects of horticulture and agricultur
the rural schools, and endorsed technical schools. introduction of dehating clubs in schools was suggested as a means of encouraging children in public speaking but endorsed the teaching of temperance, and also Bihl The election of officers resulted in Mr. Henry Grose of Lefroy, heing elevated to the office long held by $\mathrm{Mr}_{r}$
Rotinson, M. T. The other offices were filled as rows: Thomas McMurchy, Toree, Overseer; William خewbridge, Treasurer ; John Cowan, Vinc, Lecturer froy, Steward: Ehen Todd, Lefroy, Walter Ralston, Le William Martin, Innisfil, (iate-keeper:
Geo. F. Frimrose.
A. Fher, Fexecutive Committee:

## Central Canada Exhibition

The annual meeting of the Central Canada Exhibi-
ion Association was held in Ottawa on January 12th. The officers presented a creditable report, which, conthe exhibition, showed that, financially, the Association $f$ years. Attentionting than it has been for a number of years. Attention was called in the report to the
need, very evident to exhibitors, of a railway siding
on which to get now entertained of securing this in the near fore are owing to the permanent location of the Winter Fair
and the Horse Show at the grounds. The dates recommended for this year's fair are from September 16th to September 24th, thus leaving time for London Show
after Toronto. The change is being made chiefly to atter Toronto. The change is being made chiefly to but it should also insure a larger agricultural exhibit, something very much needed at the Central Canada. It experienced annually at thf last of the month will not
interfere with was discussed by several speakers, and, in more room possibility of a Dominion Exhibition leing held at oot-
tawa at some future date, it was consldered advisable that preparatory steps be taken in time. A resolution
was, therefore, passed memorializing the City Council

The Ottawa Winter Fair.
$\qquad$ Coronto, Ont, has arrangements Morvoment fully under way
for the IVastern Ontario Winter Fair of stallions, cattle will gladly furnish prize lists and programme tional event. I Tastern Ontario, and the adjacent por-
tions of Queljec should rally to its suport in

Prof. Robertson.

## P. E. Island

 a reguar belaw zero most of the thme merctury lingers
about or
going as an low sometimes as twenty gonge as There somentues as twenty degrevers telow the
cypher. There is a great depth of snow, und truvelline is difiticult, but we ought, perhaps, to be thankfull that grass and clover should come throuph wrather. The
this snow continues on the fields .
 up coummunication with the mailuand dificulty it heceping
 mails are being drawn across on tce beats, hy the
Capes routes, and are four or tive dayss luter the here than in summer. The boats usect in this secrvide are mounted on rumners and are crawn by the boat
men and passengers, by each man round his chest, fastened to the boat by a rope. They hustic the boat, Ioaded with the mails, along over thy
ice, till tiney come to open water, whien all hands jum abourd and use oaro open waperer, when wall hands jum
the open water to the next fill they get through and pull uway for dear life. This is a prety dangerou
kind of navigation, and kind of navigation, and only sound, healthy, muscular
men have any business to attemult strange way of travelling, too some $\$ 3.00$ for the nine-mile privilege of hauling your ship and lisis and enjoy the and sometimes some of our own females and wenkly or old men, who pay double fare to be drawn across. This
was our only means of communicating with the continnt till a little over twenty years ago, when the
first tenmer since steance was put on the Georgetown-1ictou route
winh, we have had two other modern powerful boats in our winter service, but when the ice
pack from the north comes down. these stenners. ful as they are, are often locked fast in the grip of
the ice floes for weeks were both fast in the ice for about two months, and brohe their propellers. Of course, these boats allord
our only means of shipping treight our only means of shipping freight during about five
months of the winter. to business men and producers alike. Farmers boon chance to ship their produce now in winter-a thing impossible for them to do a quarter of a century ago A great amount of freight is continually going forward Our winter business in shipping beef quarters to run. cass pork has grown to great proportions during the last ten years. Quantities of oats are also forwarded and some live stock, most all of which find a ready
market in Nova Scotia, Cape Breton and New Brunsmarket in Nova Scotia, Cape Breton and New Bruns-
wick towns. What we want, and what we should have, is still more powerful steamers, that will be able to keep up steady communication all through the winter
season, and thus carry out the terms on which the tight little" Isle consented to become part of the on account of the difficulty in getting are a little dull, market. Our winter steamers are doing products to work these last ten days, and will likely not make anything like regular trips during next month. The
dairy companies all over the Island are holding their annual meetings just now, and are reporting a very suc-
cessful season's business.
Clydesdale Association Annual Meeting.
 Unitred breeers present tron all parts of the country. sociation during the year was eminently satisfactory fers and Scotch registrations, an increase of 426 in the The report of the Secretary-Treasurer, Mr. H. Wade,
showed that a great forted, lut only 32 stallions and 57 mares of these Wrreill terorded during the year, which is perhaps a
a
patentage. Sales of clydestales have been satis. Temanuld for stallions all over Canada, they have beent old ut paying prices, and very few have gone to the
nited States. The financial statement showed reA resolution was adopted, asking the Dominion :ownment to place a minimum specific duty of $\$ 30$ on年 be admitted free of duty, when owned and imported by
Briti-h subjecte, bona-fide residents of the Dominion.
 the Amicultural Department of canada. The Associa-
tionn wndorsed the decision of brecders not to exhitit at
St. St. Lowis, the stand taken by the lominion
Lise tonck Commissioner in that connection, and
alson also the proposal to establish a nation-
al lif, stock association. The Association will give
\$7011 to the Toronto Spring Stullion Show, and $\$ 400$ $\$ 101$ the Toronto Spring Stallion Show, and $\$ 100$
to tiln. 'Ottawa Show, to be offered in prizes for Clydes-
dales, and $\$ 300$ to the way Ammittee was appointed to confer with the Rail-

THE FARMERS ADVOCATE
dulygates to the Toronto Industrial, London, Quebec
 Musms. Willian simith, for the Columbus. Daw Exhibition.
 The clection of Otawa in March
Mon. Prosident, of officers resulted as follows nelt, Wrm. Smith, Columbus (re-elected) g ; Vice-presiWent, Uswald Sorby, Guelph. Vice-presidents for Prov-
incers-Untario, Robert Miller, Stouffille; Quebec,
Roblert Vesi Grandon ; Alberta, John Turner, Calgary; Assiniboia, Lictoria; Mutch, Lumsten, British Columbia, Dr. Tolmie,
Mrovinces, Hol. T. R. Black. An Reobert Jivectors - Thomas Graham, Claremont Manchester : John Bright, Myrlle ; Peter Christie Bumonville ; James Torrance, Markham; H. G. Boag,

Central Canada Veterinary Association held its second annual meeting in St. Andrew's Hall, Ottawa, on Wednesday evening and Thurs ay morning, Jan. 27th and 28th. The President A. W. Harris, of Ottawa, was in the chair. roquois new me nbers were elected, M. Galliven, Kingston, 1899): (graduate of Queen's University graduate of Ontario Velerinary College , Ont ario Monk, South March, Ont. (graduate of On icton eterinary College, 1887); R. H. McKinnon ge, 1873). (graduate Ontario Veterinary Col$\mathrm{In}^{\mathrm{In}}$ his address the President mentioned the origin of the association. Starting with only
welve members, there are at the present time orty members in good standing. He commended the appointment of Dr. J. G. Rutherford as Chief idea of securing the American Veterinary Medica Association to hold its fortieth annual meeting in Ottawa, the first held outside the United States since its organization. The veterinary profession in Ontario was awakening, and that there were logether with a desire that the standard of the only existing English-speaking Veterinary of the in Canada be raised, and also that legislation be secured. The President urged that practising vetlation, stating that it in this effort toward legis tion that it would be possible to obtain results The election of officers for the ensuing year re sulted as follows: Honorary President, Dr. J, Q. Rutherford; President, Dr. A. W. Harris; Vice Treasurer, Dr. A. E. James. Additional mem bers, who with the officers form the council : Drs P.J. Lynchke, Carp ; T. Thecker, Renfrew ; W. C.
McGire, Cornwall; Geo. W. Higginson, Rock land:F, Fisher, Carleton Place ; J. B. Hollingsworth, W. W. Boucher, and C. H. Higgins, Ot-
tawa. Dr. C. H. Higgins was elected official reporter for the association.
A cordial invitation was extended to the association to hold a midsummer meeting in Brockville by Dr. T. A. Allen, and supplemented by Dr.
McAlpine, of Brockville.
Dr. Rutherford gave a report of the meeting held in Toronto on the 19th inst., which had as
its object the organization of the profession in


Some of the Cattle Exhibitors at the Western Fair, London, 1903.

Seeretary-Treasurer, Henry Wade: Directore-Robert Miller, Robert. Beith, H. M. Robinson, Dr. Andrew
Smith, Robert Graham, Robert Bond, W. F. Spark, H. Smith, Robert Graham, Robert Bond, W. F. Spark, H.
M. Crossley, George Pepper. $\begin{array}{ll}\text { prizes: } & \text { Association made the following grants } \\ \text { Toronto Industrial Exhibition, } \$ 50 \text {; Winni- }\end{array}$ peg Exhibition, $\$ 50$

## East Peterborough.

The East Peterborough Agricultural Society entered he new year clear of an debt, and with a small and buildings, and have shed-room for part of the cattle. Last year was the first year that they had expert fudges appointed by the Government, and they gave fair satisfaction. This Society has for the last
few years given large prizes for collection of weeds, correctly named, to be collected by the children of a school section, that section making the entry. first board of directors, elected in 1868 , Mr. F.
Birdsall, the present presldent, who has been re-elected for number of years, was the first president, and Mr. W. E. Roxburgh, who was the first secretary-treasurer, and who still holds that office, are all that are now on the board, and, with the eddition of Mr. A. R. Kidd, are all that have not passed over to the great majority. The
Society lost a valuable director in the person of Mr . Thos. Blezard, whose late demise is greatly deplored by the Society
The Board for 1904 are: F. Birdsall, President:
Hugh Neilson, 1st Vice-president: Dan Kelly, 2nd Hugh Neilson, 1 st Vice-president; Dan Kelly, 2nd
Vice-president; $\quad$ w. S. Roxburgh, Secretary-Treasurer ; Jice-president: W. S. Roxburgh, Secretary-1 reasurer Rose, Ed. Hawthorne, Geo. Elliott, H. Dunham, Wi

## Ayrshire Breeders' Annual Meeting.

 Breeders' Association was held in Toronto, Feb. 2nd, Breeders Association was held in Toronto, Feb. 2nd,the President, Hon. Senator Owens, Montreal, presiding. The Secretary-Treasurer, Mr. Henry Wade, presented the financial statement for the year, which ahowed receipts $\$ 2,679.44$, including a balance on hand
at last annual meeting of $\$ 789.89$, and expenditures $\$ 2,679.44$, including a balance on hand of $\$ 724.24$, which, together with the herdbooks
assets of the Association $\$ 3,463.24$
Considerable discussion arose over the question of judging the herds (first or last) at the large exhibitions. It was finally decided, on motion by J. C. Smith, seconded by Mr. Boden (with the ca
of the Chairman), that they be judged first.
A communication was read from Mr. John McKee, urging the adoption of an advanced registry.
The following committee was appointed to deal with the maiter: J. G. Clark, W. F. Stephen (Trout
River), W. W. Ballantyne, R. Ness and F. W. Hodson. One hundred dollars !was donated toward the prize list for Ayrshires at the Dominion Exhibition at Winnipeg, with the following recommendation as to how it should be awarded, viz.: (1) Herd, bull and four females, two
years or over, females bred and all owned by exhibitor, $\$ 40.00$; (2) Herd, bull and four females, under two years old, females bred and all owned by exhibitor, $\$ 30.00$; (3) Three animals any age, get of same
sire, get owned and bred by exhibitor, $\$ 30.00$. Seventy-five dollars was donated to each of the three stakes prizes in the dalry test, providing the sweepstake winners are Ayrshire cows or heifers.
Twenty-five dollars each was donated to Ayrshires
at the exhibitions at New Westminster and Victoria. at th
B. $C$. On motion, it was decided that the members of the
Ayrshire Breeders' Association be made members of the Dominion Cattle-breeders' Association. William Owens,
Officers elected: President, Hon. Montreal; Vice-president. A. Hume, Menie. Directors-
A. Kains, Byron: W. W. Ballantyne, Stratford; Wm Stewart, Jr., Menie: J. G. Clark, Ottawa, J. C
Smith, Hintonburg; John McKee, Norwich. Dele gates to
Wm. Ste tawa-A. Clark, Alex. Yuill; Ottawa Winter Fair-J
G.. Clark, J. C. Smith: Sherbrooke-T. D. McCallum Robt. Ness; Quebec-N. $\begin{aligned} & \text { Lachapelle, Senator } \\ & \text { Dominion Cattle-breeders' } \\ & \text { Association-W. }\end{aligned}$ W. Ballantyne, H. Wade.
W. Ballantyne, A. Kains, (W. F. Stephen, reserve) Ottawa-A. Hume, (D. Drummond, reserve); London-brooke-Jas. Boden, (J. Bryson, reserve): Quebec-N
Lachapelle ; Three Rivers-Thos. Irving, Jr. St
 mond, reserve).
After the question of national live-stnck records
was fully discussed, the following committees were, on was fution, appointed to assist in forwarding the froinct
motion
viz.: for Ontario-W. W. Ballantyne, J. C. Smith an
W. Stewart: Quebec-Hon. Senator Owens, W. Stewart; Quebec-Hon. Senator Owens,
Ness and R. Hunter ; Maritime Provinces-C. A. Ar
bald and Mr. Easton: B. C.-A. C. Wells. Tald and Mr. Easto

Dominion Cattle Breeders' Association. breeders' Association was held in Toronto on Feb. 4th, and was a most representative atfair, dele
gates being present from all over the country Mr. Arthur Johnston, Greenwood, Ont., President was in the chair.

The report of the Secretary-Treasurer, Mr. A. P. Westervelt, showed the society in a prosperous condition. Touching upon the importance of the
live-stock industry, Mr. Westervelt gave some livestock industry, Mr. Westervelt gave some follows: Cattle in Ontario, 2,562,584; in Manitoba, 282,343; in N.-W. T., 591,739; in British
Columbia, P. E. I. and Nova Scotia, 553,593 . Mr. Westervelt, in his address, pointed " that there was a feeling among the breeders o pure-bred stock in Manitoba and the Northwest Territories that they, having built up their herds
and flocks of pure-bred stock through purchases and flocks of pure-bred stock through purchase
from Ontario breeders, should have the benefit whatever trade of that kind there was in the Canadian West, and that Ontario breeders should not make special efforts to extend their trade in that direction.
of the Executive Committee will, at the request dian Pacific Railways for better platform and lighting accommodation at Toronto Exhibition. The association endorsed the holding of the -11 next, and the action of the executive in de clining to exhibit at St . Louis under the existing
 President, F. W. Hodson, Ottawa; President,
Arthur Johnston, Greenwood, Ont.; First Vice Arthur Johnston, Greenwood, Ont.; First Vice tary-Treasurer, A. P. Westervelt, Toronto. Vico presidents: Ontario, Jas. M. Gardhouse, Weston; Manitoba, G. H. Greig, Winnipeg; Northwest TerNess, Howick; Maritime Provinces, E. B. Elderkin, Amherst ; British Columbia, G. H. Hadwen Duncan's.

## Horsemen Banquet.

A large and influential body of horsemen were ciation in the banquet hall of the Walker House hall was beautifully decorated for the occasion
for which the executive deserve commendation.
The addresses given were many and to the point They were given by the following well-known
gentlemen: Columbus; W. S. Spark, Ottawa; Geo. Beardmore and E. Bristol, Toronto : Allan Duff, Guelph Peter Christie, Manchester ; John Bright, Myrtle, McBride Gmith, Brandon; W. Harland Smith, Mr. son, Mr. Craig (New York), Mr. Nelles, Guelph and others. The trend of the addresses was urging greater vigilance by importers and breeders, in selecting only the best sires, and for farmfact that breed only the best mares procurable. The cheaper class of horses from the U. S , was brought to the notice of the gathering by Mr . Robert Miller and others.
isive action by its authorities at Ottawa is immediately necessary if Canada's best interests are
to be protected. The gathering dispersed about midnight, after having spent a very enjoyable by songs by Mr. Bennett and others, and the

Shire Horse Society.
The annual meeting of this society was helf cess of the society, also quoted instances where
chires had chanced hands ,rices, showing a growing popularity of the y in a healthy financial condition, were discuscee and adopted, the following were elected ofsicers
and directors for 1904 : Pres., W. E. Wellington. Toronto ; 1st Vice-pres., J. M. (iardhouse, Wes-
ton; 2nd Vice-pres., Wm. Hendrie, Jr., HamilSpark, Ottawa; Wm. Wilkie, Toronto; Wohn Pardhouse, Highfield; James Henderson, Belton:
$V$. Bawden, Exeter ; E. C. Attrill, Goderich
E. Tice-pres.: Quebec, R, Ness, Howick; N. B, Th,
I. Peters, Fredericton; N. S., Hon. T. R. Black, T. W. Peterson, Calgary; B. C., S. R. Mc
Will, Vom Mepresentatives to Fair Boards Tornato Industrial, John Gardhouse, Jas. Ial
(ecty: London (Vestern), H. Wade, F. C id Morton, Hamilton: appointed Honorary Presidents
John Crosby, Camphellford Gardhouse, Wrim. Wreeders' Wilkie. Judges recommende
for Tomonto Ithustrial, Rolt. Ness, Howick, Que
$\$ 25.00$ be offered at the Ottewa Show. Mr Henry Wade was appointed Secretary ; Mr. F. M three, Assistant Secretary. A committee stock was appointed to attend the National Li

## Canadian Pony Society

The third annual meeting of the Canadian Pony Society was held at the Rossin House, Toronto,
on Wednesday February 3rd. Mr. H. M. Robin son was in the chair, and there were over forty inembers present. Mr. Gerald Wade presented his society to be in good condition. It is a growing ociety to be in good condition. It is a growing
organization, and has a number of enthusiastio nembers. The matter of prizes, etc., was left to the new board of directors.
The members were considerably gratified with the results of their annual meeting. The idea of
the Harness, Hunter and Saddle Horse Socint or a summer show was eagerly taken up, and a special committee, consisting of Messrs. Campbell, T. Hodgson and H. Gerald Wade, wat appointed to co-operate with the committee of the Industrial Exhibition, that in view of the in creased importance of the pony-breeding industry the directors should have the money prizes for the laies raised to the same scale as that offered in the large horse classes. Mr. IR. W. Davies anclass of ponies at the spring show. The trophy will be known as the Copland, and Mr. Davies regift. Officers, $1904: \quad$ President, H. M. Robinson
Vice-president. T. V. Foster - Second Vicopresi dent, R. Miller, Stouffille ; Secretary, H. Gerald Wade: Treasurer, A. Taylor. Directors: Messrs. R. W. Davies, H. G. Wade, E. T. Campbell, T. todgson, E. C. Tisdale, Dr. Mills, Capt. HarbotToronto Representative to the Industrial Exhi bition, Mr. H. M. Robinson ; representatives to the Canadian Horse-breeders' Association, Messra. H. Gerald Wade and H. M. Robinson; delegates

## Holstein-Friesian Association.

$\qquad$ chair Bollert, in the The report of the Secretary, Mr. G. W condition, trade having been unusually brisk, and during the years having been added to the list during the year, as against 27 last year. The
total transfers were 1,035 , as against f 18 . The year, and the total registrations 1.103 ast 618 last 883 in 1902. The finances are in a flourishing condition, there being a balance on hand of $\$ 1$ tered is 7,744 , viz number of cattle now registered is 7,744 , viz., 3,060 bulls and 4,684 cows.
41 cows have been admitted to the reord during the year, as have 4 bulls which were qualified by records of four or more daughters. Officers elected for 1904: President. Jas. Re tie, Norwich: First Vice-presidest, Matt. Michard-
son, Caledonia; Second Vice-president Hallman, Ancaster: Third Vice-president, A Mallory, Frankford: Ed. Adams, Carleton West

Harness and Saddle Horse Society's Annual Meeting.
and Saddle Horse of the Canadian Harness, Hunt February 2nd, Mr. Walter Harland Smith, President. in ood, showed the Soclety to be in excellent working Affer the regular routine of husiness, the following Toronto, 1 st Vice-president, 0 . B. Sheppard: 2 nd Wellington, Dixon. A. Crower, Directors-Messrs. W. F. Robt. Bond, Dr. Hodgins, Rolit. Weters, T. B. Fuller,
son and Myric. H. Wade. Representatives to Fair Boand Treasurer, Mr I.. Smith and Mr. Myrie : Horse-breeders' Association On motion, it was unanimously decided to ask the
Industrial Fair Association to reinstate Messrs. Crow \& Murray to the privileges of exhiblting at their exhibi
pointed to arrange for an open-air horse show and

## Manitoba Grain Growers

Manitoba Grain-growers' convention was the
largest farmers' meeting ever held in Brandon
largest Parmers' meeting ever held in Brandon.
President Scallion, in his opening address, gave a masterly presentation of the various public other things he advocated the extension of the Intercolonial Railway to the Great Lakes, and the

## Read This

As several inquiries have ast two weeks without a signached us within the pportunity of again calling our readers at aticont Answers Column. Will those who hastions and | to co |
| :--- |
| once $?$ |

## MARKETS

Further decline in live-stock values and improvem In grain prices have been the features of the past weak British marketse consignments of Danish bacon on the values for hogs and hog products, for the lower cattle claim that trade in Britain will not warters of prices they have been paying. $A$ rate war warrant the ocean lines began on Tuesday, which may improve prices, but, as yet, its effect is purely problematical.
If it will allow Canadian shippers to undersell Danish bacon dealer, the result would li, to shorten
Canadian supplies, and probally torse Canadian supplies, and probably increase Fnglish con demand still remains, which waits upon improved in
dustrial conditions in Britery weakness in the old Country meat marke, Sesides the ments to Canadian centers, and consequent lack shipsortment prevents dealers making up, market lots, hence the further decline in cattle. Wheat is advancing slowinquiry for potatoes, and it would seem. There is keen to be money in this crop for those who are situated is rot-free localities. In the great potato county of
Aroostook, Maine, they are selling for two dollars per Aroostook, Maine, they are selling for
barrel.
Quotations on Toronto market are Catcle-Exporters-Best lots of exporters, $\$ 4.50$ to 4.75 per cwt.; medium, about $\$ 4.25$ to $\$ 4.50 .50$ to Export Bulls-Choice quality, $\$ 3.75$ to $\$ 3.85$. medium to good bulls, $\$ 3.25$ to $\$ 3.50$.
Export cows, $\$ 3.50$ to $\$ 3.75$
$\qquad$ 1os. each, equal in quality to best exporters, $\$ 4.30$ $\$ 4.50$; good, $\$ 4$ to $\$ 4.25$; fair to good, $\$ 3.60$ to $\$ 3.85$ common, $\$ 3.15$ to $\$ 3.30$ : rough to inferior Feeders-Steers of good quality, 1,050 to $1,150 \mathrm{lbs}$.
each, $\$ 3.75$ to $\$ 4$ per cwt . Stockers-Oneyear to two-year-old steers, 400 to
700 tbs. each, are worth $\$ 3$ to $\$ 3.50$, fer cwt.; offcolors and of poor breeding quality, of same weights,
are worth $\$ 2.50$ to $\$ 3$ of Milch cows and springers are worth $\$ 25$ to $\$ 50$ $\begin{array}{r}\text { each. } \\ \mathrm{S} \\ \mathrm{S} \\ \hline\end{array}$ Shrep-Prices, \$3.75 to $\$ 4.25$ per cwt. for ewes,
and tucks, $\$ 3$ to $\$ 3.25$. Lambs-Yrices ranged from $\$ 5$ to $\$ 5.25$ per cwt.,
and $\$ 5.50$ to $\$ 5.75$ for choice ewes and wethers for 0 . Hogs-Best select bacon hogs, not less than 160 worth $\$ 4.75$ per 200 lbs each, fed and watered, are


Produce
Wheat--Ontario-No. 2 red, white and mixed, firm,
at 85 c . to 88 c . for milling. Spring is steady at 78 c .
for No 1, east. Goose is steady at 75 c . to 76 c . for
No 2. A.

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Events of the World


## Chicago Markets.


 Hoge Mixed and butchers', 4.75 to $\$ 5$; good to choice heavy, $\$ 4.90$ to $\$ 5.10 ;$; rough heavy, $\$ 4.75$ to
$\$ 4.90 ;$ light, $\$ 4.30$ to $\$ 4.80$.
fair to chaice mixed, $\$ 3.75$ to $\$ 4$. $\$ 4.40$ to $\$ 4.50$;

## Buffalo Markets.

Grain-Peas, 71 dc . to 72 c . in store here; rye, 53 c No. 3, 36 me. to 37 c . l . No. $2,37 \mathrm{c}$. to 37 kc . in store One firmn quated 10 c . hatents, $\$ 4.90$; seconds, $\$ 4.60$ 1.90 ; Ontario straight rollers, $\$ 4$ to $\$ 4.10$; in bags $\$ 1.70 ;$ patents, $\$ 4.35$ to $\$ 4.50 ;$ extras, $\$ 1.65$ to Mill Feed-Ontario bran, in bulk, $\$ 17$; shorts, $\$ 20$; Manitoba bran, in bags, $\$ 18$ to $\$ 19$; shorts, $\$ 20$.
Hogs - Fresh-killed abattoir

 to 34 c . ; limed, 28 c . to 30 c . ; $\begin{aligned} & \text { cafdled selected, } 32 \mathrm{c} \\ & 30 \mathrm{c} \text {. }\end{aligned}$ rigerator, 28 c . to
Butter-Winter creamery, 19 cc . to 20 c .; full grass,
21 c . ; western dairy 15 c to 15 $21 \mathrm{c} . ;$; western dairy, 15 c . to 19 ctc to 20 c .; full grass, rolls, 16 cc . to
16 c .
$\$ 5.10$; Yurialo.-Hogs-Heavy and mixed, $\$ 5.35$ to
Lambs-Lambs, $\$ 5$ to $\$ 6.60$ to $\$ 5.85$. Sheep and $\$ 5.50$; wethers, $\$ 4.50$ to $\$ 4.75$; earlings, $\$ 5.25$ to $\$ 4.50$; sheep, mixed, $\$ 2.50$ to $\$ 4.35$ ewes, $\$ 4.25$ to

## British Cattle Market.

for American Live cattle easier at 10 jc . to 11 dc . per lb . Kor American steers, dressed weight ; Canadian steers,
10 c . to 10c. to 11c. per 1b, ; refrigerator beef, 7 fanc. to ste. per
lb. Sheep, 11c. to 12 c . per lb . lb. Sheep, 11c. to 12 c . per 1b. Lambs, 14 c . to 14 tc .,
dressed weight.

## Montreal Markets.

Cattle-Prime steers, $\$ 5.00 ;$ good mediums, $\$ 4.25$
to $\$ 4.50 ;$ commmon, $\$ 2.75$ to $\$ 3.25 ;$ sheep, $\$ 3.50$ to

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We hold there must be love and trust For others' sins the full forgiving If we would taste the joys of living.

A FAIR BARBARIAN.
by frances hodgson burnett
Chapter ix.-Continued. She had diamonds in her ears saw them flash. Ah, how I should like saw hee her without her wraps! I have no doubt she is a perfect blaze

Chapter $x$.
Announcing Mr. Barald. Lady Theobald's invited guests sat in
the faded blue drawing-room, waiting Everybody had been unusually prompt on the ground in time to see Miss Oc tavia Bassett make her entrance. . I should think it would be rather a Crial, even to such a girl as she is said
to be," remarked one matron. . ${ }^{\text {It }}$ is but natural that she should feel that Lady Theobald will regard her
rather critically, and that she should know tnat American manners will hardly e the thing a gentee and conserva"We saw her a few days ago," said
ucia, who chanced to hear this speech, Lucia, who chanced to hear this speech,
.. and she is very pretty. I think I ever saw anyone so very pretty before."
." But in quite a theatrical way "hink, my dear," the matron replied, in a tone of gentle correction. pecuple," Lucia answered sweetly, " that scarcely know what the theatrical way is. dear Mrs. Burnham. Her dress was
very leenuliful, and not like what we "ear in Slowlridge: but she seemed to ay grite new to me, and so just a little "Wd."
"1 have heard that her dress is tmost
extravaram and wate.ful.." mat in Miss Ancher. "hase educational position en- tea like this before," octavia said. "I her murning gouns, which "-- lace on kettle-drum is," Lucia answered. "They Bassett," announced Thobson, throwing have never been to London."
"They have them in New York," said Lady Theobald rose from her seat. A Octavia, ." and they are a crowded sort
slight rustle made itself heard through of afternoon parties where ladies po in the company, as the ladics all turned carriage-toilet, not evening dress. Tecple had so turnad, there were ewdences of a Lucia glanced around the room and Kelinda Bassett advanced with rich ." That is very unlike this ." she re uffles of Mechlin at her neck and wrists, apon her head, her niece following her worth of lace on her dress, and unnis-
 ahout her," Cried Mrs. Burnham under Rut this wes very severe tern use, notwithstanding that it was born of octovin an and


$\qquad$
m afraid you would not be comfortable am afraid y
$\qquad$ retty blonde," she often heard it sald fellow. Bassett, -and lucky fellow ore money than he can count."
So she was not at all frightened when
he walked in behind Miss Belinda. She lanced about her cheerfully, and, catching sight of Lucia, smiled at her as she advanced up the room. The oall of granddaughter had been a very brief granddaughter had been a very brief
one; but Octavia had taken a decided fancy to Lucia, and was glad to see her
again. " am glad to see you, Belinda," said
her ladyship, shaking hands. ". And you also, Miss Octavia."
". Thank you," responded Octavia.
You are very ${ }^{k}$ "I hope you are both well?" said
Lady Theobald with majestic condescen sion, and in tones to be heard all over
the room. - Quite
$\qquad$ deed :" "rather as if this fortunate stace of affairs was the result of her lady-
ship's kind intervention with the fates She felt terribly conscious of being the powered by the novelty of her attire which was plainly creating a sensation. looked at, was entirely oblivious more painful prominence of her position. She remained standing in the middle of the
room, talking to Lucia, who had approached to greet her. She was so much taller than Lucia, that she looked ery wonderfully dressed. Lucia's white muslin was one of Miss Chickie's fifteen, nd was, in a "genteel" way, very
suggestive of Slowbridge. Suspended
trom Octavine suggestive of Slowbridge. Suspended
from Octavia's waist hy a long loop of the embroidered rilhbon, was a litule
round fan, of downy palewe fang ound fan, of downy pale-hlue feathers,
and with this she played as she talked. and with this she played as she talked;
hut Lucia, having nothing to play with.
could coly stand Octavia opened her eyes, as she often
did at Miss Belinda's remarks, and then
suddenly she heg suddenly she began to laugh again. respectiflly. ." Would they turn me out withcut giving me any tea?"
Lucia looked still more frightened. ". Don't let them see you laughing, she said.
are giddy. $\qquad$ giddy here is anything to make me " is they say you are giddy." said Lucia, "your fate will be sealed; and,
if you are to stay here, it really will be better to try to please them a little." Octavia reflected a moment.
"I don't mean to displease them." sho said, ". unless they are very easily dissaid, unless they are very easily dis-
pleased. I suppose I don't think very
much about what people are saying of much about what people are saying of
me. I don't seem to notice., me. I don't seem to notice."
troduce Miss Egerton and her sister? suggested Lucia hurriedly. "Grandmamma is looking at us."
In the innocence of her heart Octavia In the innocence of her heart Octavia
glanced at Lady Theobald, and saw that she was lcoking at them, and with a ". I ${ }^{\text {I }}$ wonder what that's for?" she said to herself ; bur she followed Lucia across the room.
She made the acquaintance of the Alisses Figerton, who seemed rather ivilities, subsided into moncsyllables and attentive stares. They were, in-
deed, very anxious to hear Octavia converse, but had not the courage to attempt to draw her out, unless a sudden
query of Miss Lydia's could be conluery of Miss Lydia's could be con-
sidered such an attempt. ""Do you like England?" she asked. " It is a part of England, of course," almess.
" Then, of course, I like it very much,"
said Octavia. slightly wavin
$\qquad$ smiling. Miss Lydia
Egertorn and Miss Violet
Eegarded her in dubious silence for a moment. They did not er:" but the speech sounded to both as she were, and as if she meant to be
lever a little at thelr expense. uncturally, after that they felt slightly fore: and conversation lagged to such an And it so happened that tea was nct had all just risen from their seats with a gentle rustle, and Lady Theohald was
moving forward to marshal her pro-
cession into the diningroom ession into the dining-room, when Doth Are
 and Mr. Burmistone." lady," he said
$\qquad$
$\qquad$
$\qquad$

$\qquad$ It wasn't civil to her at all.

## " 1 am glad," <br> Ir. Burmistone."

Then she turned to Barold.
"This is very fortunate," she antea, in which I hope you will join us.
Mr. Francis Rarold naturally turned, as her ladyship uttered her granddaughter's name in a tone of command.
It may be supposed that his fret intention in turning was to look at Lucia. but he had scarcely done so, when his attention was attracted by the figure
nearest to her,-the figure of youg nearest to her,-the figure of a ycung
lady who was playing with a iltule blue fan and sriiling at him brilliantly and The next moment he was standing at Dctavia Rassett's side, looking rather congealing, as the significance of the situation was realized. suspense, and her breathless - of awful -

```
Ne wil go gre cea, sle said
``` Mray lask you, Mr. Burmistone, to

\section*{chaptel xi.}

A Slight Indiscretion
During the remainder of the evening, Miss Belinda was a prey to wretchedness
and dispair. When she raised her eyes to her hostess, she met with a glance across the tea table, she saw octavia seated next to Mr. Francis Barold, monn the very best possible spirita only made matters worse, that Mr
Francis Barold Francis Barold seemed to find her redrank very little tea, and now and then appeared much interested and amused.
In fact, he found Miss Octavia even more entertaining than he had found her during their journey. She did not hesitate at all to tell him that she was cular juncture. again at this para ee you don't know huw glad I was to ith the most his rather startled glance ee said. "civil of you to say so," , be true.," you know. It is too gocd rue when it was too good to he nswered cheerfully. "I should have "Well, that," he interposed, " isn't
\(\qquad\)
\(\qquad\) heriousness.
i. Are you a great friend of Lady
\(\qquad\)
 I asked youn!" she proceected, with an


Travelling Notes
After all, we were induced to simend
ur Christmas at our Christmas at Heidelliery,
where we had friends. The Cinners where we had friends. The (iermans
always have their trees and always have their trees and dis-
tribute their gifts on Christines and what house does not have ile and what house does not have formerne but evergone was was ree I believe, none at all. For the inly one of the gift of speech days before the event, it was a very
interesting sight to see tho interesting sight to see the market ull of Christmas trees, hundreds of partmer, well enough content with her which were being carued on hat he not so persistently doctor, ecorated with all sorts of ray and We had enjovanced upon her toes pretty, but, perhaps, in many in- lere, the
stances, somewhat tawdry tha
Garden Each iree must always be well supplied with candles, and at its foot is generally a representation of the west." Nothing we have seen could scene of the Saviour's birth - the well surpass the beauty of the and Mary on either side, adoring the viewed from the surrounding height Christ child-thus reminding the chil- with dotted every here and there dren and everyone that the event its cathedral or church spires wint celebrated is the birthday of Christ.
An old gentleman told me he went see his washerwoman on Christmas its many historical associations, was day. He found her, her old hus- our first and greatest attraction, and band and their four cats each sitting upon all we saw and and heard and read
upon separate chairs gazing at their upon separate chairs gazing at their
Christmas tree. Though without Christmas tree. Though without they had their tree. Pathetic, was it not? The gifts, too, play a large and essential part in a German Christmas. These are usually placed
upon tables, or at the foot upon tables, or at the foot of the
trees. I am afratd our dinners (we had two) were not typically Gerinan, but very womelike, with roast beef, turkey and plum pudding. You may be sure that we land, did not forget those dear to us, either in Canada, Australia, Eng, prised to see that it required the peaked mountains, casting weird land or India. But that goes with- construction of a staircase on either the air was quite halmy but, already, out saying. It was a novelty for us been filled the top. It has only wending our way southwards, ex Germans, Dutch, Russians, Greeks probably, now will remain empty as Germans, Dutch, Russians, Greeks, long as it holds together. Close by atic Sea.
the big tun is the statue of the Court
Fool of Earl Philinp Clemens Perkeo, who according thar tradition, drank, daily, from fifteen to eighteen bottles of strong wine. Surely the fact that at any time in the world's history such a thing whilst, now, excess of any kind meets with merited condemnation, ought to be an assurance to the most pessimissome world to live in thane wholeeven but a century or than it was Well, Christmas over, we bade adieu to the rest of our merry Heidelberg party, and passed on to
Munich, the third largest city in Germany, and a very fine city it is, but so extremely cold that we did but stay long in it. The ice and snow Kangaroos, who both new to the excited in their enjoyment. quite suffering with a bad cold, and perforce had to remain within doors most of the tinie. We slept in real German fashion, sandwiched between Twain and Jerome have so amusingly
described described, and we ate sauerkinaut bologna and other typical dishes o the country. We found most com
fortable quarters, and lived luxur iortale quarters, and lived luxur-
iously at Pension Washeim for four marks ( \(\$ 1.00\) ) each per day.
\[
\begin{aligned}
& \text { We left Munich on the last night of } \\
& \text { the old year, our way being lighted }
\end{aligned}
\]
the old yearich our way the last night of
\[
\begin{aligned}
& \text { by a most lovely moon. At mid- } \\
& \text { night we roused from our slumbers }
\end{aligned}
\]
\[
\begin{aligned}
& \text { night we roused from our slumbers } \\
& \text { to wish each other a Happy New }
\end{aligned}
\]
\[
\begin{aligned}
& \text { to wish each other a Happy New } \\
& \text { Year, looking out as we did so upon }
\end{aligned}
\]
\[
\begin{aligned}
& \text { Year, looking out as we did so upon } \\
& \text { a very beautiful scene, for we were }
\end{aligned}
\]
\[
\begin{aligned}
& \text { in a valley, above which rose were } \\
& \text { peaked mountains, casting weird }
\end{aligned}
\]
\[
\begin{aligned}
& \text { peaked mountains, casting weird } \\
& \text { shadows beneath them, but, already, } \\
& \text { the air was auito }
\end{aligned}
\]
\[
\begin{aligned}
& \text { the air was quite balmy, for we were } \\
& \text { wending our way southwards, ex- } \\
& \text { pecting }
\end{aligned}
\]
\[
\begin{aligned}
& \text { cting to arrive the next day at } \\
& \text { enice, the Quean City of the Adri- } \\
& \text { ic Sea. }
\end{aligned}
\]

MOLLIE.

Beatrice Knighting"Esmond. 7 This scene is taken from Thack eray's well-known novel, Henry Es mond. The hero is being welcomed home, after having distinguished him self as a soldier. This is the story Ladies of Castlewood, the Drom the came forward in great state, with her grand tall head-dress, which she never forsook, and said: 'Cousin we thank you for your noble conduct towards the head of our house.'
Cousin Harry, 'Cousin Harry,' said both the other ladies, ', we thank you for your noble fine sword, with a red velvet scabbard, and a beautifully chased silver handle, with a blue ribbon for a sword-knot. 'What is this ?' says capt. Harry, going up to look at the vanced towards it. 'Kneel down, said she. 'We dub you our knight over his head. 'My Lady sword hath given the sword, and I Dave the riband, and mamma hath sewn on the fringe.' "Put the sword o 'You are our knitght, Her mother. true knight. Take a marry, our hanks for defending her son, my ear, dear friend.' She could say iffected, for a couple Dowager was fears mare a couple of rebellious
mad marks down thos wrinkled old roses which Esmond had just been allowed to salute."

An evening paper stated last week that acking a speech of Mr. Chamberlain's, repelled the allegation, and scorned the alligator." This slip was really mado Commons by Jears ago in the House


Our "Christmas Cover" Essay Competition.

This competition, which closed on tory in every way. There were over one hundred essays to judge, and, with so many very excellent ones,
the task was by no means a light the task was by no means a light
one. One of the most pleasing one. One of the most pleasing number sent in by farmers' wives, who are to be congratulated on the literary character of their articles. note : "I have not written an essay nor over forty years." Her paper was a good one. Here is the re sult: Mary Spafford, Second Prize-Mr. Lawrence Little, Lincolv Third Prize-Miss Margaret Craig, North Gower, Unt.
honorable mention: A. E. Bean, Stephen Furniss, Martin, R. M. Anderson, Mrs, Robt. Curtis, Eva Myers, Thos. Johnso Richards, Uncle Pete, Jas. Stark (aged 11), Beatrice, Stark, Janet
Pritchard (aged 10), Amy Purdy Pritchard
(aged 10),
(aged 10), Amy Purdy
Willie Harding, Lottie (aged 10), Willie Harding, Lottie
Pollock, L. M. K., A. H. Bourne, H. Hancock, John Stuart Muir (aged 10), Ethel Jose, Ethel Pentland, Miss F. Burnem, Maude M. CarsYoung, Mrs. . D. N. Potter, Horner, Mrs. W. C. Hoover, Geo. E. Shannon, Minnie E. McConnell, Mrs.
J. H. Taylor, Mrs. John Williamson, J. H. Taylor, Mrs. John Williamson, Lizzie Campbell, Ada Chisholm, M. W. Shepherd.

A book will be sent Mrs. John Banks, whose essay came next in

\section*{FIRST-PRIZE}

Our Christmas Cover
By Mary Spaffora, Knowito
It was eminently fitting that Canada foremost agricultural paper should bear accurate a representation of Canada as that which adorned the Christmas Every detail in the picture contributes to the perfection of the simile. The central object is the figure of "Young
Canada" herself. Graceful, and fair of form, she seems to be indulging in that cemporary relaxation which is accorded those who have earned the right to
pause in retrospect and to forecast the future.
Her face mirrors self-respecting confidence and gratification in her past is an almost awe-struck prescience of the is an almost awe-struck prescience of the
stupendous possibilities shrouded in the future.
"Young Canada" is clad as befits a
in the picture, the regal colors of red
and purple and gold are subtly mingled. Gold in her crown of maple leaves, and he trimming of her purple gown; gold
lso, in the vista of the sunlit west also, in the vista of the sunlit west,
where one can almost catch the burnished lory of the sheaves of grain.
The touches of red in the picture sug. gest Canadian sunsets; especially winter sharp blood-red; a beautiful sight whe seen through a filter of dull, black tree trunks over a stainless waste of snow.
Purple makes one think of Indian sumpays, when the whole country lies i Niagara district, when the breath of the purple grapes intoxicates
a heavy, subtle sweetness.
Locking through the clef
Lhe vista which undoubtedly forms the subject of ". Young Canada's" reverie subector at once the artist's inten-
one catches
tion. There is the "Purple East,"

n a night. The train depicted in the illumine and to teach their fellowe and
east to west, may be intended to fore shadow the projected transcontinental railroad which will reach from ocean to The beaver, the embodiment of untiring industry, and one of the Canadian em blems, rightly holds a prominent position in the picture, as
dian Coat of Arms
In dealing with so inspiriting a subject as cne's native land, one feels imject as
pelled t
justica.
-/ Canad

Canada-Maple Land! Land of great Canada-map
mountains,
Lake land and
Lake land and river land! land twixt Grant us, as our heritage,
nd the best of all, of the mighty addition to the sum of human comfort and happiness, the spread of peace on earth and goodThe whole design ts aimple and digni led, the drawing and coloring of Mdlle. Canada, and of the cover generally, is
tasteful, harmonious and effective, and i in every way worthy of the best Christ mas number the "Farmer's Advocate" mas number the tormer its readers.

hird-prize essa
Canada's Golden Era.
By M. E. Craig, North Gower, Ont
Canada is represented by the figure of a regally-attired maiden in the ful blush of womanhood. The pose is graceful and dignified, yet natural and easy. The calm, beautiful face, the
arched neck, the low brow with its arched neck, the low brow with its cronet of maple leaves, convey an ex pression of that thoughtful repose and have surmounted all obstacles and achieved great ends. Yet, even in this quiet attitude, there is a suggestion of strength and watchfulness, an ability to
cope with difficulties and to contron with
cumstances.
\(\begin{array}{cc}\text { Her richly-colored dress adorned with } \\ \text { maple } & \text { leaves gives an added elegance, }\end{array}\)


Pownal Bay, P. E. I. -Intercolonial Railway System.
y an list in, syer n this design, Canada is represented as from the shoulder, baring the strong a queenly damsel, gracefully posed and arm and beautifully-shaped hand, gives a
vell drawn, seated on a curtained ba! peculiar expression of
 and crimson, broidered round the bottom pression of the face. The hall-drawn
with maple leaves in the golden tints of curtain behind which she is seated form the Indian summer; while she is crowned a rich background, and serves to bring with a circlet of native gold, also fash- out more clearly the strongly-marked loned from the maple, worn over a head- features. Her patriotism and her lightly on a beaver in the act of gnaw ing a log, and her sandalled feet rest is "supported" by a shield, emblazoned with the arms of her provinces. She is
gazing westward towards the setting sun, over her great forests, lakes and rivers among which are to be seen the towers
and spires of her cities and settlements, and far beyond are her vast fields of golden grain, ripening yor the granary or
a world-wide empire ; . railway trains are passing acruss the comtinent from ocean
to ocean bearing their loads of passengers and of merchandise, and tusy
manufacturing cities and towns are manufacturing cities and towns are
springing up as if by magic, all emblematic of the veritable golden age.
But if the dusign typifies all this, it is
also surgestive of much more. You can-
 ada's position without trying to follow
out the future dostiny of the eldest
daughter of the British Fompire; withbe found for the muillicnis of crowded- of grain, her thriving towns and the cut, underpaid and underfed of our kin rich productions of her forests and mines,
beyond the seas, of the great industries we feel that her sun of prosperity has
to be developed and cstallishiced, of towns indeed arisen, that we are already a

Kind Words About Our Advocate.
\(\qquad\) taken the 'Advocate' for years and the Home Dept. is the part I like best. Much credit is due the
Wm. Weld Co, in thelr efforts, yeer Wm. Weld Co, in thelir efforts, year readers of their valuable paper." Miss M. R., Jarratt's Corners. My father has been a subscriber to the
years.
E. O., Creditonn ng the 'Advon, Ont.-"' By read armers have become noted tillers he soil and famous stockmen.
A. A. Clement, Paris.-" I desire to splendid service you are rendering the farmers of Canada by sending us veritable storehouse from which we can draw something valuable every Mrs. N. A. L., Alvinston.- " We be lieve a great deal in the reading of
the 'Farmer's Advocate, for it is a help in many ways. It gives use ful recipes for many things, ques tions are promptly answered, and in lormation given in everything per taining to the worthy farmers of
Canada. We look forward to the Christmas number as a cheerful book for Christmas. The children love to look through and through it, and
read the stories about Christmas."

\section*{Domestic Economy}

CLEANING THE COFFEE-POT if your tea or coffee pot has become discolored inside, put into it a tea-two-thirds full of water, and fill it boil two hours. Wash and rinse be SECRET OF GOOD HAM The whole secret of having boiled ham or corned beef juicy and fullwater when put on to cook, and when it is done, letting it remain in the pot until cold. The bottle from which baby is fed should ie kept scrupulously clean, by washing
twice a day. hot water at late reast
it should be turned rubber nipple out, and washed after each feeding.
or it will become completely or it will become completely covered
with germs, which may prove diswith germs, which may prove dis-
astrous to the life of the child. Discard the bottle and rubber nipples as soon as he is old enough to drink from a spoon or cup, which are much to clean, and they will save a great deal of work. Hold him in your lap find it a disagreeable and you
FIREQUENT FEEIDING REQUIRED. For the first six months of his life hours. You may then be sure when he cries that it is not because he is
hungry, and he will eat too much, which is likely to cause of sever which is often the After he has passed his eighth month he will relish well-cooked rice, oat-
meal or mashed potatoes, but these things should be added to his regular diet of lactated food very gradually.
He should not have candy, preserves or rich pastiv, and the digestive organs should never be overloaded. "Feed often and a little at a time, at regular intervals," is a famous
nurse's rule for healthy babies. In spite of the best of care children will occasionally have the colic. To cure it, lay him face downwards upon a pillow that is as hot as he can bear it. Give him
two or three drops of peppermint, to which a little water has been added. If he is suffering from a cold, strip the little feet, and hold them out before the fire half an. hour or more Rub his chest with goose grease, little hot milk. When the perspirawoollen blanket and put him to bed. woollen blanket and put him to bed.
The cold will be better in the morn-

FERRUARY 11,190

Domestic Economy


Knives and forks should
dipped in boiltng water, as dipped in boiltng water, as it ing aside steel knives thene. In la slightly oiled, and wrapped in tissuc paper, to prevent rusting.

Tumblers that have milk should never be put into ho rinsed in cold water. The heat drives the milk \(1 n\), and gives a
cloudy appearance to the glass which cloudy appearance to the glass whic

To cleanse bottles, make a lye by boiling equal quantities of soda and the bottles with some small this in and shake well. Set the botiles to drain thoroughly, then warm them, noisture.

TAKE CARE OF YOUR UMBRELLA On coming in from the rain, close the umbrella and let it stand to the other way would cause the wate to run into the metal frame, and make it rust at the starting point of
the spokes. Instead of the water running of at once, some of the
moisture would also be retained for the silk. This would which holds damage the metal, but also only silk to become tender. A silk the brella should never be left open to
dry, for this stretches and spoils the silk. When not in use, an umbrella and should be left loose, for being always rolled up makes the creases in

HOW TO DRINK MILK Many people complain that drink tion. The reason is not that the milk itself is not wholesome, but Milk swallowed at a draught enter he stomach in a mass and ther
orms a solid block of curd, which i most difficult of digestion. If, on th milk were swallowed in sips antity o east three minutes were taken in the up that instead of forming a solid utside of which only the din the outside of which only the digestive
fluid can act, it would consist of
little ittle masses, forming a spongelike
whole, through which the whice can through which the gastric
freely and do its work


The First Writing Lesson

The First Writing Lesson. son of the olden time a writing lesway you learned to write is it the stead of a lot of children sitt? In their desks, with thelrir slates in front them and their eyes on a blackto himself lic has a teacher all nice new pen for him with her a heant aid you know that a penknife You can see that some of the flufl yess has been left on the top of the his chubby little fingers, while his Iother's hand is a great help in forming the letters. He has taken daubed with ink, and is dey not get o succeed, as vou and is determined earnest face. He has not yet found Out that no one can learn writing in one lesson. It is like many other
things. We try and try discouraged, and perhaps think we shall never be pable to do it.
Then we suddenly find

There were two princea long ago Whamed Prince I Wish and Prince I Will great-grandchildren, you must \(A\) Are relgning still.

They ran and played, they drank and They read in books, both old and new. Indeed, they lived just as their great-

But Prince I Wish would never try To learn a lesson as he should, wish I could.

At any 1 I will would ne At any task he might fullil.
And so he wo hhis. way, because
He said, \(I\) I will." Cousin Dorothy

\section*{Teddy's Valentine.}

\section*{Tom held up to the children'} comic valentine, on which was the
these flowers and hearts and-and"ings ?" he asked Ramma, replied Teddy proudI wanted to buy a lot of thos but she said they a cent apiece things, and that yayentinean unkin ways to mean love. So she bough some cardboard and water colors, and showed me how to make so nice to send pretty one it is mean lov When Tom finished addressing the envelopes he put the valentines into to mail them at the up. He was he didem into his pocket. Though he did not know it, they were close beside the one he had bought ashamed. but or which he was now ashamed
Oh, Teddy," he cried to him, and: I'm the carrier, and I'll " let's play houses, leaving the valentines. Then you can sit at the window and see
me by the electric rom house to house -'Twill be just jolly lapped his hands and Teddy hen I'll leave them, and come And Tom did
ook them fro not notice, when he valentine addrossed pocket, that the the very top. But no sooner was he gone than parkled. A valentine for me!" he whisered, joyously one ran into the room, and som some it from his hand. 'Twas Tom wh had found out his mistake, and had ome back for his valentine. gently. "I'm going to to take he said nd get one that means love-for

\section*{Snow Days.}
the children love the snow, and the Md winter smaps, but in their wraps they a laughing, jolly over it
hrough a snow-dritt frrst they stumble Thon a snow-man, like a dough-man They tree really looks like no man Ere he has a chance to crumble. So, hallo! who loves the sno Let him out a-playing go
On the
wheels can't rattle a cushion so the But all the boys in whirls they romp Then the ' girls, both Bring their sleds And a-coasting, chent a grumble Every one of speed a-boasting. With a jounce and bounce and tumg. So, hallo ! who loves the snow, Let him out a-playing go !

\section*{Humorous.}

Who, when a told is that of Lord Mr. Sugden, young man, was opposing Chancellor of England, in a Parliament ary contest. "He's the son of a coun-
try barber., try barber," said the noble lord.
ing afterwards, Mr. Suglen
Reply
RHis Lordship has told you that I am nothing but the son of a country barber; bui he has not told you all, for I have been ather's shop-and all \(I\) wish tod in my that is, that had his lordship been bor the son of a country barber, he would mind is qite cier sin. That, to my

He was a philosopher and a talker She was a woman of action. They
stood together on the bridge and watched a tug that was haullng a long line of Narges up the river
Look there Luok there, my dear,", said he.
Such is life. The tug is like the man working and toiling, while the the bargan
like the women the me. ike the women, are -". brges, His wife gave him no time to finish the
sentence.
al sentence. "I know,", she sald; " the
tug does all the blowing and the tug all the burden.


Is Your Sundayia Holiday or a Holy Day
Brings a week of content
Arings a week or content
And hope for the toils But a Sunday profaned
Whatsoe'er may be gaine
Is a certain precursor of
A great reaction seems to be taking place in these days against the which our fathers obeyed. We may smile when we read how Puritan capta'n was rebuked for kissing his wife on Sunday, although he ad one. Then the numberless rules invented by the Jewish rabbis seem amusing ; and we wonder that any ne should have tried to keep them ng of shoes with nails in the soles, on the Sabbath. Another says that no food can be carried from place to place if it weighs more than a drie dig. Some said that a broken or that day unless the life be in danger We know how the enemies of Jesu ound fault because He healed the jected to the disciples' they also objected to the disciples breaking thel
rules by rubbing grain in their hands, as they passed through the fields on the Sabbath day. Plucking the grain was called reaping, and rubbing
t was said to be threshing. Dr. it was said to be threshing. Dr Palestine, says that many of the Jews there are very strict even now e describes how a profane and is watch to wind, just after sunse on Friday evening. He could not do it himself, because it was the Sab outh.
Our Our Lord showed plainly that h hess on that day, but His statemen that "the Sabbath was made fo nan, and not man for the Sabbath, oes not do away with the necessity or man. He must have known that man needed it, and to cast it away in practice, if not in theory, as so many are doing now, is to defy od's command.
arguments put forward by learne nen as to whether we should keep of the week, or whether the Sabbath
was only one of the Jewish ordi-
a dissenting voice, has set apart the first day of the week as a holy day
in memory of our Lord's resurrecpoints, but, happily, we are almos one in this. But we don't keep the
Jewish Sabbath-on Saturday or Sunday-and we are not very likely don't carry out the law of Moses be put to death. Ye shall kindle n
fire throughout your habitations up n the Sabbath day." Though str
Jews may still engage Gentiles ight their Sabbath fires for them think it wicked to light a fire

But the Fourth Commandment still one of the 'Ten, though it is
ing more and more disregarded these rushing days of business on six
days of the week, and pleasure on
Why don't
o right to spend all our youth for ourselves, intending to give Him live so long.
Nehemiah dealt very severely with
the traders who were determined to the traders who were determined \(t\) buy and sell seven days in a week
He not only shut them out of Jeru salem, but would not allow them to lodge outside the walls of the city on that day. He. like Jeremiah and and captivity had been their punishment because they did not "hallow the Sabbath day, but "profaned" i Isaiah gives the other side, telling of the pleasures and honor which shal on His holy day-" Not doing thing own ways, nor finding thine own pleasures.
In the country, the old-fashioned peaceful Sunday may still be ofte from our cities, although Canada is far superior to most countries in this particular. Six days spent in work and money-making, and one spent in "finding pleasure," or, rather, in
seeking ", it, do not leave much time for thinking of God. We no only owe Him a proportion of our money, we also owe Him a share of our time. In fact, all our time be some as a kind of tribute, to show that we own Him as our King. We don't go to church only to listen to the sermon or the music, we go also praise and thanksgiving." We are told not to forsake " the assembling of ourselves together, as the manner f some is."
If we do get into careless habit
 soul-yes, and in mind, too. Those who meet God in His own house on Sunday start the week with a fresh sapply of strength and vigor, phys ual. Bishop Thomson says you ma safely write over hundreds of graves his epitaph: " He kept no Sun day." He says that strong men are cut down in thelr prime, and the
doctors give a dozen names for the cause of their untimely death-soften ing of the brain, paralysis, heart dis ase, nervous exhaustion-but, sifted the men kill themselves by breaking Sunday. "Business men, statesmen, mention farmers), are all getting in he habit of going out at a moment nown in a way that has never bee A minister once suid to his congre-
gation: \({ }^{\text {. Next }}\) Sunday I shall preach a funeral sermon in this here for the tirst time in twenty
years." The man came-in his neglected God's house for twenty
\(\qquad\) into the grave? It would seem like
the way some chiddren have of just fore the Chrictmas the Sunday be is said to have insisted on giving

\[
\begin{aligned}
& \text { and while } \\
& \text { settled, the } \\
& \text { cood time- }
\end{aligned}
\]

have nearly as many accidents. have nearly as many accidents.
ime to go to
church, because the a "holiday" or a "holy day "
would be their own affair. But you will be begging for a holi-
day, too if \(I\) go on much longer, and day, too, if I go on much longer, and


We are very much pleased and encouraged in seeing the interest which is evidently being taken in our flower readers seemed to have awakened to
the fact that they can help us and the fact that they can help us and
each other along by giving us bits from their own experiences with plants; and the result is that contributions are beginning to come in
right good earnest. This shows that right good earnest. This shows that
we have all "got on the right track", at last, and that we are going to do great work in helping amateurs in their fower-growing attempts, and in inducing many to begin keeping plants who have never heretofore without flowers about our farm homes. I think anyone who ever grew them, with success, will agree may not be possible to have many during the winter-perhaps, in a cold house, only two or three choice ones, which may be covered up at nights with a papered box, as described in should try to have these at least. the summer, there is little excuse for not having more. The presence of dourishing, beautio it which nothing else in the decorative line can give. More influence. One seldom sees a true lover gentleness and refinement in thought and manner. Then, be it palm or azelea, fern or daisy, let us have
our pot of green. The tiniest commonest "' variety may be as ure as the most expensive.
Pansles, lilies, kingcups, daisies,
\[
\begin{aligned}
& \text { Let them live upon their praises } \\
& \text { Long as there's a sun that sets } \\
& \text { Primroses will have }
\end{aligned}
\]

Primroses will have their glory
Long as there are violets,
They will have a place in story;
There's a flower that shall be mine "Tis the little celandine."
To-day, we have two contributions, had a number of enquiries how I make The first of which came unsigned. all at once, through the "Farmer's Admuch pleasure. Contributors to this way. In order to grow these fowers sucdepartment are requested to address cessfully, the bults must be fresh, and fll letters to ferinideaf. ary, 1 take shallow boxes, fill them with " Farmer's Advocate" office, Lou- two parts fine sand and one part bush
don, Ont.
Some Floral Suggestions. If they have good drainage, they may be
watered freely. Kieep the boxes backam glad to see something about may have all the sunlight that can hehope of getting a few wrinkles,
ametmes could give others a few of in preparing pot, first put a few small
I have had the greatest pleasure, for and fill up with one part fine sand and
boxes in cur two large north windows. in each pot; hecp moist, warm, and
The plants grow mcst luxuriantly in them. surply with phen of sunlicht, if possi
Uctober. I made early in May until We. When frost is past in spring, or
f old boards. They are six inches denp the open air, in a sheltered place, where
vindow, which is very wide. When the These plants may be successfully grown保 full of
Wice dark green.
I fill my boxes early in the spring with will continue blooming until the end of
arkeys used to ronst. nud mix sund with These are flowers that are easy to
 Dear Friends,
 to give over the most of our Ingle pine table, six chairs, or even a creek. A
space to the guests who have come of benches, and a soap box or two for
with such good-will to help the Nool furniture with such good-will to help the Nook furniture; small cuppoard for pantry, and
along. First on the list, we have the dishes necessary; a lamp and lantern some recipes sent in by "Cheer-up)- a granite wash-bowl, and and lantern letter (You'll not be very angry at May be the brinte has thought it quite
me for publishing it, will you, Cheer- a matter of amusenat up-odist?), our new \(f\) iend says: " I her chosen helpmate in this simple sity lieve I am looked on as an he- and for a few days takes it all as and maid' by some people, but 1 really dying in despali because 1 fel lik
 long yet. Mr. Right hasn't come Jack finds that it takes money to runat isn't the sole end and aim of a satisfy the Massey-Harris agent. Then "Tenderfoot' has written a very in- served force into play to keep fron teresting letter, and hope he will
come again." Cheer-up-odist.
there aren't any old you know And then are all "Bachelor pirls., along, too. If he doesn't may come of girl who can get just the sort fully without him.
Here are Cheer-up-odist's recipes are sending me in such achors who (Girls, I'll let you read some of woe letters before long.), try Cheer-upodist's recipes-I am sure they are
good by the sound of them-and then y not hunting up you are missing But I'm not going to tell you needn't come to me about it-no! start on a tour through Manitoba perhaps you'll find some other one. the recipes: (1) An economical supper dish, made with potatoes,
onions, milk, salt and pepper. layer of them, and a layer of onions,
sliced, till the dish is nearly full. Xdd salt and pepper; then cover
with hot milk, put in oven, and bake 2. P'otatoes are nice warmed
vith' onions.
Put a litule dripping nd slice from two to five onions int the irying pan. Cook for two
minutes; then add potatoes, and baking-powder can. Sith an empty "alt and pepper.."'
". CHEER-UP-ODIST." Our second letter to-day comes Beginning Life in a Shack.
\begin{tabular}{|c|c|c|}
\hline \multicolumn{2}{|l|}{\multirow[t]{2}{*}{\begin{tabular}{l}
Beginning Life in a Shack. \\
Iny " Resident," Cottonwood, Assa.
\end{tabular}}} & minutes before it can be properl \\
\hline & & which has been kep \\
\hline & nt an easy life with her
has been teaching scho & ps or caul \\
\hline & mg in a store, or otherwi
manner which precludes the & dishing them up ycu may pour vor \\
\hline & learring the alphabet of & huorr with two spoons cod \\
\hline &  &  \\
\hline & mistom of transtorming it it &  \\
\hline & \% & \\
\hline & tor the beneat of your & \({ }_{\text {tak }}^{\text {tam }}\) \\
\hline &  & \\
\hline & enclosed with threo layers & \\
\hline & \%outsido the studing and one inside; the & \\
\hline & conered with boarris and shingles, the & \\
\hline & rs bate inside One outside door & int \\
\hline & 1 may be, and a small & \\
\hline &  & \\
\hline & & \\
\hline
\end{tabular}
one tin, covering with another the same
size, without water or seasoning let
cnok fast for twenty minutes to Crok fast for twenty minutes to each
pound of beef, then uncaver and you will find enough rich juice tc make a good
gravy by adding a spoon of flour, pepper,
salt and boiling water to make the salt and boiling water to make the right
consistence. Shake a little salt over
your rast your rcast before serving. This is the
simplest way, as it requires nc time
spent in hasting As one good turn deserves another will give "Resident" the follow which, perhaps for "baked cabbage," too, would like she and some others head of cabbage, cut it in four into well. Then drop the pieces slightly salted. Boil until tender ake out,and drain; then chop fine more salt, if needed. Beat up two eggs, and add to them half a cup o in well with the cholk. Mix this Turn the whole inopped cabbage. over the top with are dish; smooth with bits of butter, and bake in the "Resident slightly browned. Resident "' has given us the mothers for making peripe of our may be interesting to note, however, in the Domestic Science of porridge new plan is being adopted. It is held that most cereals, being starchy foods, require a very great deal of cooking to render them digestible. wheat, so they say at these schock should be put in boiling water, one cup of the cereal to three and a half of water and one teaspoon of salt,
boifed firteen minutes, and then cooked fifteen minutes, and then double boiler, preferably) for three hours. Some even prefer to put the Of course, it will be seen that with. done this way for breakfast must beals cooked the day before, and simply reheated over boiling water for break

DAME DURDEN. Farmer's Advocate" office, Lon

\section*{Fashion Notes}

Shirtwaist sets this season ar some of porcelain, hand paint while the more expensive ones are of
cut steel and silver. They make very pretty trimming for the plain shirtwaist.

Some of the old fashions of our grandmothers are being revived, and among them appears the fluted waist
frills which are so picturesque becoming.
Bows promise to be very fashionable the coming season. Large bows-almost twice the size of those
last year-will be worn at the front of the stock, the loops and ends be,
The butterfly bow is also shown at the back of the stock. The ribbon
should be of soft silk, and is folded neatly around the top of the collar, and tied in a pretty bow at the back. This was always a very bewill be welcomed back again, and

It is the simple but artistic little touches that count. It is easy ly, but to wear a stock unbecomingdainty style (and, indeed, the neck-
wear adds a great deal to the be coming appearance of the entire costume) takes brains, as well as an

A pretty little fashion in neckwear is the ribbon stock. The ribbon is put around the neck, and the ends
brought to the front and tied in a our-in-hand knot. The long end under the knot. To make directly
of this kind requires about two yards
of ribbon. If fancy ribbon is used a very pretty effect may be had, providing the color harmonizes with
that of the whist with which it is to that of the
s little money is obliged to spens wardrobe will find it economical her ways to have on hand a separate which she can wear with waists and, say, two waists of becoming colors "for good," she may always dressed, provided the skirt hangs well and the waist is carefully fitted
Black blouses of all description are being worn with black skirts. Je as trimming, and do much to

Wht
Separate waist, and is quite for a able, too, for when soiled it may be easily cleaned, and made to look material be silk, wash it in. If the but you must be careful to gasoline, from fire of any kind, as gasoline is very inflammable. The gasoline is not injurious to the silk, and one exhas been cleaned, it does the silk any pressing. All that is required after the washing is to hang it out in the open air, where it will dry and wring the silk.
waists, which material for shirtcalled vesting. It is serviceable, is goods, suitable for either thick cotton laumer wear, and is very easily

It is an excellent idea to make the rate. The lining is fitted sepafinished in something the style of an couple of frills Across the front, a ouple of frills may be sewn, and of muslin or other material in the ront of the waist.
Sometimes difficulty is experienced in sewing and keeping the binding on dress that should be carefully looked after, and always kept neat and tidy, for nothing looks so careless ing worn and ree the skirt bindbraid, velvet or brush binding are all durable, when properly sewn on. edge of the skid along the outside firmly henmed or stitched on with the machine, and turned to the inner side of the skirt, and either hemmed or stitched on. The braid now will be perfectly flat, with one edge showbottom of the dress. Velvet is put on in the same way, but is a little more troublesome than the braid, on account of the edge having to be
turned in.

\section*{Force as a Success-factor.}
ore people fail from lack of force than A man may be well educated, or bril. liant, and yet, for lack of force, be a
complete failure in his vocation. A man or woman may succeed without educacapital, but not without energy -- SucThe
The story is told of a Scotch preacher mong, and his people long, strong serably deliberate manner. One Sunday he occupy his pulpit in the morning him to were you satisfied wi' my preachimg' " from the kirk. "as they walked home Will'm, a fair was a fair Moorse ; but Hiflithithed sae fresh and wide awake. I mistrust twas no sae long nor wae sound as it

\section*{HEALTH IN THE HOME GBy a Traized Nurse e}
[Note- -Miss \(O\) wen's paper this week boiled for half an hour before further
will no doubt be highly appreciated by will no doubt be highly appreciated by handing. Anything brought into In enswer to a letter from a subscriber, or be disinfected thoroughly before
who says: "I was much pleased with being taken out. Anything that can who says : "I was much pleased with
your letter in the "Advocate." It is just what is needed among busy housekeepers, and will result in much good.
venient, will you please give us a paper
on the treatment of scarlet fever ? It is here now, and I would like to know more about the disinfecting, how long the pa-
tients should be kept from others; how tients should be kept from others; how
long they should stay in their rooms, long they should stay in their rooms, and
them in the house ; how to treat books liable to be infected; what to use to pro-
vent taking it, if possible to keep out \begin{tabular}{l} 
of the way of it, etc., and you will great- \\
\hline
\end{tabular}

\section*{The Care of Scarlet Fever.}

There are certain rules which may always be observed in the care cern what may be called the "mechanical " care of the case, and it must be remembered that the doctor's presence is always indispensable, in
the first place, to decide what the the first place, to decide what the disease is, and, secondly, to preparticular individual affected. Scarlet ever is apt to be followed by dangerous after-effects, and is a
thing not to be trifled with. The measures herein mentioned represent the care that
\(\qquad\)
THE ROOM
The patient should be isolated in a ventilated, and one, if possible, that has a cheerful outlook, as he may have to remain in it some weeks. There should be neither carpet nor should be filled, and the floor painted. Of course, this cannot be done at a moment's notice, but since, wherever there are children, and where they are not, for that matter, it is a sensible and far-seeing thing to have at least one floor in the house prepared in this way. A hardnothing but scrubbing. But these be scrubbed all over is best. The mattress can be sewed into a thin oilcloth case, and that will make it
possible to wash it occasionally with a disinfectant. Over this, the usual bedding, including nothing, however, that cannot be washed. There should
be very little in the room in the way of furniture - no curtains, except
muslin ones, and it is better not to
have any . no hangings of any kind. The wisdom of this is more fully appreciate
fecting ar
fort to have a scond room opening into the patients, in which anke bath tub, etc., and even to cook a little if
there can be a small stove in it. the isolation of the patient should and covering the entire person, and a cap under which all the hair can be
tucked. No clothing should be worn hat cannot be washed.
should be a bell in the sick-room for needed brought up and put outsi the door, to be taken in by sheet, wrung out in carbolic acid hung ver the door, as an extra precaution. If one person has to attend to the patient and the house also, she

\section*{THE PATIENT}

The dishes, spoons, etc., used must be kept. in the patient's room, chance by anyone but the patient. He himself must have a thorough
bath, between blankets, with soap bath, between blankets, with soap
and water, every morning and night, and be rubbed all over afterwards with vaseline. He should be kept warm, but not uncomfortably so, and
his bed should be in such a position his bed should be in such a position
that the light does not shine in his eyes, and, until the acute stage is over, it is better to have the room darkened a little. If the eyes are much affected, it must be darkened
more. They must be kept perfectly clean by bathing with boracic acid and water, each eye separately, nothing that has touched one being mouth ought to be often washed out and the throat gargled with whatever the doctor orders for that purpose, and, until you have his author-
ity for doing otherwise, keep the patient on a milk diet. The patient should drink plenty of water. Some-
times the ears are affected, and they also, must be washed out with great care, using boracic acid solution, nozzle or anything hard into the ear. will begine rash subsides, the skin continues to do so long after the patient is out of bed and feeling well bed depends upon his general condition, and the doctor decides that point, but he must be kept in his until the skin has entirely stopped peeling. It is these little particles of skin that carry the infection. The burned on the spot, if possible, be mmediately in any case. It is to ying about that the patient is uhen the patient should go out debends upon the weather. He should cold, though he needs fresh air no He should begin out-of-door life by going out well wiapped up, if it
is winter, for twenty minutes or so
in the middle of the day when the sum in the middle of the day when the sun
is out, and thus gradually return to
his ordinary habits. There is no fear of infecting others if the peeling The patient should take a good bath a dicinfectant before he is released
from his room. Carbolic acid, one part in forty of water, is as strong
as can be used for this purpose. For
the disinfection of hands, the carbolic sheet, and so on, it can be used as water Great care should be ob-
served in its use, as a burn from it
is a wory corious, is a very serious matter. Corrosive
sublimate, sold in tablets, with direc-
tions for use, is a very good disin-
\(\qquad\) poisonoms, and many of them corros-
ive, and kroat care must be taken in
handling thatm, Soap and water will
 thing of the tind of everything be
thoroughly
then boiled Nothing mo
the cheapes the cheapes
disinfection.
\(\qquad\)
thing taken
and washed afterwards with a solu-
tion of corrosive sublimate, one part tion of corrosive sublimate, one part
in one thousand of water. Dírections for mixing it in this proportion will
be found on the bottle. All the woodwork of the room must be treated in the same way, and the walls thoroughly cleaned with bread,
or, if they are whitewashed, then they are whitewashed, then wasive sublimate. Boil all the linen, and leave the room open to air for several days. Books can only be
disinfected by heat-baking in an disinfected by heat-baking in an
oven, or in the fumes of a formalin lamp.
It is well to send as many people as possible away from the house. Those who are obliged to stay there should be out of doors as much as
the weather permits, and observe all the general rules of healthy living. I do not think there is at present any accepted preventive in the way
of medicine. If there is, the doctor what prescribe it. It is to be hoped be found. The mattress in its oil-
cloth case can be well scrubbed, and cloth case can be well scrubbed, and
put out of doors for some days, after which the case can be taken of, and the mattress aired a few days longer
in the open air before being brought n and used again. Other methods of general disinfection should
carried out under the instructions the physician attending the case. Whoever is attending to the patient can protect herself by frequent bathing, regular and wholesome meals, by not sleeping in the patient's room, hands before doing anything for herself. She should also be careful about the ventilation of her own sleeping apartment.
thing in the patient's room except

\section*{Heat-producing Foods.}

\section*{or do not produce in our}
bodies the same amount of heat Hence, our winter fare should differ considerably from that which graces have noticed that during the cold weather we crave meats and enjoy soups and that we can relish hot when we could scarcely abide the thought of them in July. This is just should eat She tellom us what we takes, not even when she tells the Esquimaux to glory in bear's fat her hints has set scientists to the work of discovering which are the
heat-producing foods. They have found that our great foods: (1) the fats, (2) the carbohydrates, or starch and sugar foods.
of these two classes, the fats yield. as has been proven, more than trates. process goes on. The carbon of the
food unites with the oxygen of the air breathed to form a living cell. Hence. the breathing of pure air if we would keep warm.
overlooked.
It must not be imagined that the orm, meat. It refers solely to the fat
of indes besides the
suet, lard, etc., and the milder animal fats contained in butter, cream such as olive or cotron-seed oil, and the oily matter contained in nuts,
oats, corn, etc. Here there is a broad range. If one does not
like the fat of ineat, one can have nuts, salads dressed with olive-oil With cream, oatmeal porridge, corn-
cakes, and many other things.
The matter of heat-producing foond hould not be ovellooked in retting children's The little ones should not
school.
be put off with bread and fam in
cold wuather. They should have
meat containing some fat delicately meat containing some fat delicately new milk, plenty of good butter bits of cheese, oat-cakes, corn bread, etc. Fggs and baked beans, which, however, belong rather to the musclefor children, and much enjoyed on cold days.
The carbohydrates, or starch-andsugar foods, include bread, potatoes,
farina, rice and such things, and the farina, rice and such things, and the
milk sugar and grape sugar, which is the result of the process of ripening different sugars-cane, beet or maple,
in fruits. Starches and sugars, with in fruits. Starches and sugars, with the exception of milk and grape change before being taken into the blood, but milk sugar and grape sugar are directly absorbed, and so Dried fruits, such as raisins, dates and tigs, are of great food value. Milk sugar may be bought by the pound. 1 is quate expensive, but is valuable for invalras nith whom the Starches are cooked in or make them more digestible. Hence, they should be well cooked. Halftoes, or doughy bread should netabe eaten. It should be remembered that all foods, and starchy ones in particular, should be well "chewed " and mixed to a puip with the saliva before being pertisemach. This saliva pass into work of chemical change, which must take place before the starch can benefit the system. Food should hever Tea and coffee contaith any liquid. juices, and the moistening of food with them is a dangerous practice.
While starches require very thorough' cooking, fats, on the other hand, are injured in digestibility by the reason why substances fried a long tine in fat kept at a blue heat disagree with so many people. Fats
should always be lightly cooked. Unshould always be lightly cooked. Uncondiments. firesh milk cream, etc.-are much easier of digestion than cooked fats, and are very Undoultedly,
ood, besides other constituents of are a source of some heat to the body, but the chemical changes of these are not yet fully understood. Suffice it so cursorily above are the two main nost worthy of attention during the THE HOUSE-MOTHER.

Domestic Economy. air, and a proper allowance of
the right kind of food, and yet, with-
out not avail to keen the body in wood tion. "Why do we grow old?" a physical exercise in the get enough are poisuned by microbes which the
phagorytus have not succeeded in de stroying, and, we are depressed by
fear of death." Of the three reasons it will he moted that he gives the exercise. There is nothing else which
\(\qquad\) grow older by cultivating a moderate healthful, \(\begin{gathered}\text { honest } \\ \text { advice. }\end{gathered}\) sport," is solnd advice. juming, rowing, playing rolf, tennis or croquet, or any other
mild form of exercise in the open ir, keeps the muscles supple and prevents the joints from stiffening,
fills the lungs with life-giving oxygen,

\section*{THE FARMERS ADVOCATE}

\section*{Economy}


Aons. Atter the aking good resoll, holiday season, they in naturally the like cutting down expenses, or prac
licing economy.
 should plan to spend it wisely and proitably, and to spend less than
we earn, so as to be all e to east a small amount every waek at month for a rainy day. ery week o housekeeper will see that noth wise
wastod, and will buy her hunge is wastod, and will buy her household
uurplies to the beat supplies to to the best advantage. She
will
not
attend bargain buy articles she does not need, simply because she imazines the, sim-
cheap. Some peonle are invetere
 money they don't appear to teable
to rest unili it is sone, and it wold not be adisisable for them to reas res
long afterwarde,
if they want Keep the woil from the dorr,
heard
a man say not long since, purn a hole in my pocket Ippears to
hand it orer to my wilo.
always Counsellor and my wiffe, she is my now, vou see, some men as well
women as are spendthritts. II the as
 money to here and hands over the out then they will manage all right,
but if the wife is a sendthritt hings will not work so wenl
ould advise younk mon tol
 ng to start on a small scale and do
not want to live above their in
 practised economy years agoo, miagt
havev purchused comfortable homes of
thei be able to restst is a grand thing to on to the money, or spend it wisely Certainly, it is oasy to tot rid oid
 nually spent in buyng socelled
temperance drinks, when pure
 are wasted in cigars, candies, cants amels, and chocolates, There
nutriment is
no nuney used in buying them is simps, the
mity wasted

\section*{economy in the kitchen} The houskeoper should exercise be wasted. If she is living on to farm, every ysrap of meat, crusts of
orread or or any shoud or any vegetables left over,
should pereper for the fowls nother way to econonizz is to cook
only pla in nourishing food, instead of rich indigestime storn, stuch as
pies, cake, doughnuts etc., which are
 groontuls, of sugar in or or thre tea-
swallowed by in wallowed by many people three
limes a day, and they wonder why they don't feel well \(A\) dded to this
they eat tat meat three times a day and opichles, meat carren times a day,
til the pepper, unout or rebels and the victim pays
trequent visits to the doctor and ruggist. There is no doubt what vare that much of the ill-health p
varonty mong the human family
larely latrgely due to errors in diet, and
disergard of nature's laws. This is
certer certainly poor econony, but many
poople who know the right will yet
the
 bersiaded to eat less meat. use lees
spar, and discard altogether rich
foodse
and Toods, condiments and stion rivering
diet, they would have better health aiet, they would have better health
and save more monev.
 Which should be profitably employed. woman who improvitious man and


\footnotetext{
vorss than wing sensational novels is
wasted, for it not only
}
person wrong ideas of life; but good ractical, interesting magazines, such which may be found Advocate," in formation, will repay careful perble Life is too short to waste in

\section*{The Little Maid for Me.}

Whom I always see arrayed in
Silks and ribbons, but she
and petted little elf. is a spoiled For she never helps her But, Sorgetting all around forgetting all around her, lives en-
So she simpers and she sighs,
And she mopes and she cries
ow
let me tell you privately, my little
daring friends
darling friends,
And I fear she's not the little maid

But I know another maiden, Silks and ribbons, but not always a prudent little elf; always; she and she always helps her mother And lives for all around her, quite gardless of herself;
she latighs and And the hours on shappyings, Shower gladness round her pathway Now, need I lee. tell you privately, my dar ling little friends She's as happy as a little maid can be


\section*{How Women Should be} Educated.
quaintance with some branch of natural history, such as plants, birds or insects. such as music, drawing or painting By cultivating an accurate and refined By cultiveaking and writing. By cultivating a taste for history, By special instruction
children.-Charles William Ellot, Presi-
dent of Hervard

\section*{nt of Harvard University.}
cossip.
GLEN ALLLEN STOCK AT AUCTION
The sale is announced of 19 head of
Shorthorn fite


If you would know about
west, read John Canadian North
Ranching with Lords and Commons,
OLOTH, \(\$ 1.25\), POSTPAID.
WILLIAM BRIGGS, Sot


ACNE
 Ig heor henbs,


Consulution invitaod oup od



\(\qquad\)
ir. burnetty sale of short horns, shropshires and CLYDESDALES
Attention is again called tc the date Wedoeaday, Fobruary, 24th, when der Greenbank, Ont., near Port Perry and will sell stations on G. T. R. branches stock of 30 Scotch-bred Shorthcrn entire 0 pure-bred Shropshire sheep cattle number of Clydesdale mares, some o
which are bred oyal Keir his farm, will sell all this stock withoad reserve. His herd of Shorthorns heu ad the beneft of the services of a long ine of first-class imported Scotch-bred aproved present-day type, blocky, the set, thick-feshed, and as Mr. Burnett is liberal feeder will be found in excellent condition. The sire at head of the herd Duthie, Collynie, Sarcasm, bred by Mr. Secret tribe. Many of the young things
are by this bull, and the females breeding age are bred to him
The Clydesdale mares tractive offering, mares will be an at-
paying stock paying stock at as there is no better-
prosent than heavy The Shropshires are bred straight from late in quality and up to the are up-toof this popular breed. See the standard

OUESTIONS AND ANSWERS. Ist--Questions askerl by bona-hide subscribers
to the .Harmer's A doocate" are answered in
this lepartment fhee.



 other wise satisfactory repties cannot be piven.
tin When a reply by mail is requird to
urgent veterinary or legal enquiries, \&1 must
be mdoce

\section*{Veterinary.}

\section*{ABSCESS ON HORSE'S NECK}

Have a horse that, when a co
tracted a swelling on the side neck, about six inches from four years. Last full him for about gan to incrense in size, until now it ex tends down his shoulder to the chest. It follows the muscle of the neck, and is his shoulder.
addow
Ans.-Judging from your description, there is an abscess forming on your ficted there by the collar, or possibly before then. Foment with hot water, and poultice if possible.
carefully examined \(\quad \begin{gathered}\text { Have him } \\ \text { competent }\end{gathered}\) carefully examined by a competent
veterinary surgeon, as he may be able vo locate a puss sack and open it as soon as

\section*{defective digestion.}

Mare, eight years old, has not worked
for three months. A hearty eater, but for three months. A hearty eater, but
feed does not seem to do her any good. Hair is very dry, and comes off in ar häve found none.
Ans.-I think your mare's condition has been brought about by feeding im-
proper food. Would advise ycu to give the following aperient: Barbadoes aloes, 6 drs. : calomel, 1 dr. : ground ginger, 2 drs.; soap or syrup, sufficient to make prepare the animal by feeding exclusively on bran mash for twenty hours, and continue the mash diet until physic has
ceased to operate. After this give, ceased to operate. After this give,
morning and evening, in food, for ten marning and evening, in food, for ten
days: \(\quad\) Sulphate of iron, nitrate of potass. and soda blcarbonate, of each,
1 dr. Feed three quarts of oats, morn1 dr . Feed three quarts of oats, morn-
ing and noon, and bran mash, made by lng and noon, and bran mash, made by cient water to scald four quarts of bran, at night. Groom well with corn-broom

INFLAMED UDDER AND TEATS. Have a heifer calved her first call
about three weeks ago. She seemed all right at first and milked nicely, when suddenly her right front teat and left
hind teat became swollen and hard. I had to use a syphon to get the milk out, and then it came bloody. The two quarters affected seem hard a little, but
the two teats are very much so. What shall I do to soften them? Do you
think they will come all right?
\(\qquad\) Leats will become useless. Give the ani-
 vater, and
Hected pa
```

owing liniment
zs.; fluid extract Camphorated oil,

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WORMS IN COLT.
against fe
crance. Is continua
ash, then gave vermifuge
so condition
inually getting
porders.
Ans.
Artation of bowels and rectum, which may
caused hy worms. Give half a pint
inseed
\(\qquad\)
\(\qquad\)

\section*{Registerrad Holsteins AT AUCTION.} \(\underset{\text { Mr. A. C. Hallman, Soring Brook Stock Farm, }}{\text { Mreslaut. Ont., is offering for tale, without reeerve, on }}\) thursoay, manch 3ril 1 o'clock p.m.
 30 HIGH-CLASS HOLSTEINS. 1 bulks, ready for service. 6 bulle, from 1 to 8 months old; 14 cows and heifers, mill king; 5 heifer
calves, 1 to 10 months old. Among the lot is a number of Toronto and London prizewinhers
 THOS. INGPAM,
A. C. HALLImaN, Breslau, 「nt.

UNRESERVED AUCTION SALE


21 REGISTERED SHORTHORNS high-class imported bull. 7 bulls
ready for spring service, 13 females
(various ages).
7 REGISTERED CLYOESDALES deseended direct from imported
sires and dams Also other stock and
farm implements necossary for



THURSDAY. MARCH 17th, 1904, AT \(10^{\circ} \mathrm{CLOCK}\) P. M.


2nd ANNUANEATM Of Registerad Shorthorn Cattle Glen Allen
Farm,
Allandale, Onti, THURSDAY, MARCH 17th,

\section*{1904,} at \(1.30 \mathrm{p} . \mathrm{m}\). ,
when nineteen head of choice cattle, consisting of fourteen females and five bulls, will be sold by auction. Catalogues will be mailed on application.
CAPT. T. E. ROBSON
S. DYMENT

HIGH-CLASSHEREFORDS
 stook Intending buyers will do well to in-
spect the followius: 18 young bulls. 5 young
heifers Rock cockerels. Correspondence invited. om
A. S. HUNTER, Durlham, Ont.


 The Ontario Veterinary College, Limited Amperance street, Toronto, Canada.
Amliated with the Univeraity of Toronto.
 Catalogue Printing Our Specialty,

condon Printing \& Litho. Company, Lid.,

\section*{Miscellaneous.}

\section*{oabbagas}

Wul you please explain how to pit cabbage to have them for the spring trade. Do you think the Danish Ball.
head the best? If one had more that the could handle in his own town, would it pay to ship to a clty in the spring ?
About what price can be got per 1,000 ? Ans.-Trim off the locse leaves, place with from six inches to a foot of soil Danish Ball-head is a good winter keepr, but there are larger varieties. Woul As for keeping for the spring market, should hardly like to give a definito
Markets vary and other cin cumstances affect the trade. At present abbage sell on the London, Ont., marke
or 40 c. per dozen for Savoy cabbages. seed grain for massachusetts farm. We want to sow oats, barley and corn inderstand that oats rust here and we not mature. The barley and oats are
frown for grain. The corn will be seeded half for silage and the rest for
husking. What variety or varietie would you advise us to use of each? seed ? How early would ycu plant the
corm? R. H. W. Ans.-We would recommend that you
put this question to your experiment station at Amherst, Mass., as they will doubtless be able to give you the most efinite information upon the subject for - Cossip

\section*{GOSSIP}
ehruary 24 th is the date of the persion sale of the entire herd of 54 Shorthatn cathe belonging to Mr . Thos: sercer, at Markdale, Grey Co.. Ont., a The C. F. R. The catalogue shows that the cattle are richly bred along Scotch sented, while the character of the sire hat have been used in building up the pedigrees has been of a higher order, both in breeding and individuality. The which the females of breeding age have been bred, is Imp. Broadhooks Golden Fame, of the excellent Cruickshank Broad-
hooks trite, sired hy the Duthie-bred Golden Fame, and his dam by Abbotsford 2nd males mentioned in the last issue of the
\(\qquad\)
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\(\qquad\)
\(\qquad\)
\(\qquad\)
and are all young or
life, ranging from one
three of them havitig
them her
the imported bull of
y the imported bull. of
vishank
Vill age
fanily
Shank Viltage family
II of breeding age but
apital top crosses of
s , and some due to
sale. There are seven
Kinellar Claret tribe
Scotch sires appearing
breeding age, or yound.
of the Marr Stamfords.
of the Marr Stamfords
Floras, a Kinellar Mina
Floras, a Kinellar Mina,
Matchless, a Pineapple
ted sire and dam, two of
\(\qquad\)
\(\qquad\)
\(\qquad\)


FEBRUARY 11， 1904
QUESTIONS AND ANSWERS Miscellaneous．
miller sekd－Trees girdied． Would Hungarian seed be grood
young calves，in
place of wlo flaxseed or cill cake？
trees that have been gircled all （rees that have been girded all aroun
by the rabbits？
A SUBSCRIBER． Ans．－1．Millet－meal seed of Hungarian grass，or the ground been fed to
horses with good results， horses with good results，being particu
larly adapted to the develon larly adapted to the deevolopment o
muscular strength．
We have no report muscuar strength．We have no report，
oo it being used as sood tor calves，bu
as its composition ts very similar to as its composition 18 very similar to
oats，is should give very good results
when grcund fine． oats，
when grcund fine．Mixed with bran or
ground some kind of fat to take the place the cream that is removede trom their
natural food，for this reason，when thkim natural food，for this reason，when skim
milk is used，before the calves learn to
 milet－meal，und should be biiled to a
jelly，and ted in modenation with the
mik．Starting with half a cuptol，and milik．Starting with half \(a\) cuptor）and
increasing to a cupful at \(t w o\) or three increasing to a cuppul at two or three
weeks old．This may be discontinued when the calves soann to eat oin cake．
2．If the girding was done in late summer so that the tissue about the wound became dried out，it is quite
probable that the tree suming that such is not the case，pare
away all loose bark and make the wound away ull loose bark and make the wound
smooth．II it is not more than an inch
 maxure and a coating of grafting wax
made by mixing one part tallow，two parts beeswax and four parts resin， worked until soft．If the wound is of
considerable width，it may bo necessary considerable width，it may be mecessary
to bridge it．\({ }_{\text {This }}\) is done by taking scions，such as are used for grating， and inserting the ends under the bark，
atove and below the wound．to cond the plant food from above the conduct be three or four inches apart，and must
bee cions may
be caratuly be carefully inserted so apart，and must bium layers or inner barks may cor
respond with that of the trunk tree．They should be wedgunk of the shaped incision．\({ }^{\text {and }}\) pressed into a similarly
The whole
wound and scions is then wrapped with cotton and
covered with wax． barn plans．

 reet．Would you give me a basement
plan for my barr．I raise mostly pure－
bred catte． the calves suck their straw shed，also henhouse．Could I I use
a feed cooker in a feed cooker in pigpen ？ 0 old Subscriber． Ans．－By reducing the basement plan
the
Oxford
County barn published our last issue，to to \(40 \times 70\) ，pubished
have a pould
han than that would suit your couse This can be done by leaving out the in－
ide tow of cattle stalle side row of cattle stalls，and by thekin－
little of one side．We would not
cone sit advise you to have the piggery under not the
straw shed．
It would be better to have a separate building facing ter to souve
＂here plenty of light could be intro－
luced anced，and where yards for exercising hed the pigs either will pot under the
sun or else the piggery will geot deogh
 unlight in in stock－raising ate the value of it would nct be wise the to under the shed， cluse to the barn，exccept when every－
thing would be covered with snow．Cook－
 improve the digestibility of foods ex－
cept po tatoes，but it does make some
kinds deserving charities．
\(\qquad\)
\(\qquad\)
\(\qquad\) Armye and Infants＇Home，Solvant＇s

 Charity Organization Society，Joseph，
Hosictul Hossital and St．Joseph＇s Hospital．The
tho last would．not be be classed by some
strictly as charities．

THE FARMERS ADVOCATE

\section*{PAGE FENCES Wear Best \\  \\ THE PAGE WIRE FENCE OO．LIMITED}
\(\stackrel{201}{\stackrel{2}{2}}\)
Our Parlor Brands
KING EDWARD
HEAD LIGHT
EAGLE
VICTORIA
LITTLE COMET

\section*{British Columbia Farms．}




 ach al fun down，give also one dram for a week：Sulphate of iron，gentian， of soda，in a ball．
2．Yes，it would pay to sell a certain amount of the wheat，in order to have a mixture of grains．Barley and wheat，
mixed，should give better results than
either either grain fed alone．
3．
dersupply of with this land was an ocd ingredients．©ertain available plant－ rain，these will have become dissemi－ crop will be increased．Would sow a
mixture of peas，oats and vetcheo art of the plot，and and vetches on
when the first crop the rest； sow rape on it also．The crop，would
thould


ANY FARMER GEAT START
 WE GURMITTE





\section*{Lammitits．}
brain fever
My mare is six years old，and has
been sick for three weeks symptoms were apparently sore kidneys and sore throat or head，accompanied by
keeping her head in feed box and preso ing on manger，and when turned out of
stall perfectly．If faced for an object，she
would go straight contact with it．At times she would get restless，and continually press on
the manager．Her tongue seems to be partly paralyzed．In that time she has tatoes and apples and bran mash，but scarcely any hay．She does not seem to
be in any bodily pain，and hasn＇t lost Two local veterinarians have treated hermal． for her kidneys，which they claimed wa are unable to diagnose the case． Ans－Your mare is evidently suffering
from inflammation of the brain and mem－
brane，which


Oures Coughs, Colds, Bronohites. Hearsenoss, Group, Asthma. Paln or Tightness in the Chost, Eto.
It atops that tickling in the throat, Neasant to take and soothing and heal. the well-known Galt gardener, writes: had a very severe attack of sone Ihroat and tightevess in the chest. some times when I wanted to cough and could ife got me a bottle of DR. WOOD' TOPWAY PINE SYRUP, and to my eur prise I found speedy relief. I would cle, and I can recommend it to tothered with a cough or cold
WHY RUPTURED?
You can be Cured at Home, Without Pain, Danger and No toss of Time from Work. No Lass too Bad or of too Long Standing


DISPERESION SAE In order to close up the estate the Standard bred hores and Shorthore citatte the of the Lardirne
thook rarm will be offered for sale THURSStook, Tarm will be offered f
LORNE STOCK FARM,

\begin{tabular}{|c|}
\hline \multirow[t]{12}{*}{\begin{tabular}{l}
'Perkins' American Herbs' \\
Will positively cure Constipation, Rheumatism, Siok Headsone, Dyspepsia, Nervous Troubles,
Kidney Disorder. Liver Corr plaint, Stomach Kranble, Fremale Complaints, Catarrb, Neuralgia, aod all skin diseases. The \(\$ 1\) box is sufficient the above diseases or money refunded. Samples sent free to any address. \\
The NATIONAL HERE COMPANY, Dinera Buildigg, Torosto, Cainada.
0
Agents wanted in every locality \\
- Agents wanted in every locality.
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Strawberry Plants ater and Seed Potatoes.

hook. Over 100 varieties es incriptive
IEORESTMMEIN
Tho Siandard.bred troting sallion Rex 2.25f. will bey in the stud during the 1994 cearon,
at hif stable, 141 Queen's A ve, London Oni at hip stable, 141 Queen's A ve London On'
Parties having good blooded mares will find it to their advantage to investigate the brtedit,
and ind ividuanlity of this sire before the sea.on
opens. Address


\section*{GOSSIP.}

Even if a person unjustly blames or accuses you, it is poor business to los your own temper and mental balance.
Usually, the things said about us tha hurt worst are those that have mos When inclined to flare up with righteous indignation, have a care that it does not lead ycu into unrighteous con demnation.
ketched between-id yer ever git train?
tween a man an' his wife once dat wuz fightin \({ }^{\text {. }}\)

Englishman (in Scotland).- " People are so different here in Scotland. See how sad everybody looks
Scotsman.-" Natoorally.
thinkin' o' a' the unfortunate fouk wha canna live in Scotland.

We are informed that there is a man
if he should be classed as such) travelling throughout Ontario personating wellknown stockmen. His object seems to
be to get a living at, the expense be to get a living at, the expense of
other people. We are told he has tried
to to pass himself off as Mr. Gardhouse, and that he duped an innocent man ip
the Eastern part of the province the Eastern part of the province out of
\(\$ 50\), under the name of Mr. Arthur \$50, under the name of Mr. A.
Johnston.

The great man had written his autobiography. The purist placed his critical finger
The apon the sentence which began, "My
wedding occurred-." Mildly he remonstrated. "Calamities occur," he said. "Marriages, balls, re-
ceptions, and previously-ordered events take place."
The great man looked up wearily.
"That being the distinction," he said, we will let the sentence stand.
So it went unrevised
So it went unrevised.
Mr. Neil Smith, Brampton, Ont., adstallions, from two to five years old Mr. Smith has imported many good horses, and this lot brought out near
the end of last year the end of last year are said to combin
size and quality with good feet and legs size and quality with good feet and legs
and will be sold worth the money Parties interested will do well to write Mr. Smith, or visit him at Brampton,
G. T. R. and C. P. R., twenty miles G. T. R. and C. P. R., twenty miles
west of Toronto. Senator Sullivan of New York was
recently a guest at a banquet of ho-
meopathic physicians. During the evenmeopathic physicians. During the even-
ing the usual toasts were drunk. To ing the usual toasts were drunk. To
the health of "" the ladies," of "the
pr lhe President," of "Hahnemann, the father
of homeopathy," and many other persons
and sulpects, glasses were drained, and then tho toastmaster remare ded that, Sena-
tor Sullivan had not yet responded to toast. Senator sulivan". he said, rising ". "Sthator Sullivan," he said, rising,
"has not yet been heard from.
He

UNRESERVED DISPERSION SALE
 30 High-class Scotch Shorthorns, 50 High-class Shropshire Sheep. Also some Clydesidale Mares Brod to Royal Koir (Impir Mr Leonari
 WEDMESDAY, FEB. 24th, 1904. Trexs - Ton monthis roadit, 5 yper annum Port Perry and Uxbridge. Catalogues LEONARD BURUETT, Greanbank, Ont, Mr. ©EO. JAOE SON, A uotloneer.
Port Perry, Ont., will conduot the sale.

DISPRESEON AUCTION AAILE Maple Ollir Dairy Herd of Importod and Canadian-bred

Also 15 choice dairy-grade cows, at the cattle barns, Exhibition Grounds, OTTAWA, on THIURSDAY, MAROR 1Oth, 19OZ. This has been oonsidered for a number of years one of the best dairy herds in Eastern One
tario, and consigts of 32 pure-bred cows, 17 heifers (several in calf), 1 three-year-old bull, 5
 pplication. A \(_{0}\) COLE

AuOTIONEER
R. REID \& CINTONBURB: ONT.

\section*{Unreserved Auction Sale}
of high-class SCOTCH-BRED SHORTHORNS. At his farm at Markdale (on Owen Sound branch of C. P. R.), in the County of Grey, Ontario, on WEDNESDAY, FEBRUARY 24, Mr. Thos. Mercer will sell his entire herd of 54 HEAD SCOTCH-BRED
SHORTHORN CATTLE
including 3 im ported bulls, 4 Canadian - bred bulls, 19 heifers, from 8 to 15 months old; balance breeding cows in calf and calves at foot. In this herd are a number of show animals


The whole will positively be sold, as \(\$ \mathrm{Mr}\). Mercer is going west At the same time and place will be sold his choice 200 -acre farm is in first-class state of cultivation: buildings the County of Grey first-class orchard, etc. For fuller particulars see Gossip and atalogues, for which apply to


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FEBRUARY 11, 1904
BOOK REVIEW Any book reviewed in this deparin. FOURTH ANNUAL REPORT
DIAN FORESTRY ASSOCI

TION.
The Canadian Forestry Association a comparatively new organization, whic In it is contained reports from the different provinces upon the conditions forestry in each. The objects of the
Association are: The preservation of th forests for their influence on climate fertility and water supply; the explora tion of the public domain and the reser unsuited for agriculture; the promotion of judicious methods in dealing with forests and woodlands; re-afforestation where advisable; tree planting on the
plains and on streets and highways ; the collection and dissemination of informageneral the exploitations has given no room but has made an honest effort to ap-
proach the great problem of national
forestry in lorestry in a thorough, businesslike
method. The fifth annual meeting will
be held in Toronto on March 11th and 12th. of national importance, in whioh eve citizen of the Dominion has a direct it
terest. If you are not a member
the Asscciation your earnestsscciation, solicited. Your membership
The annual du are \(\$ 1\). The life membership fee is \(\$ 10\).
Applications for membership should be addressed to the treasurer, R. H. Camp-
bell. Ottawn. Ont


\section*{The Little Word "Try."}

You have been told about CARNEFAC many times. a dealer, get a package; if not, write us and we will
show you how you may try it at little cost

Try. 'Twill do as well for you.
W. G. Douglas, Winnipeg, Man.: Miniota, Man., Jan, 4th, 1904 Dear Sir,-Iam not desirous of seeing my name in the press, but
at the same. -time would like you to know that 1 have given your
CARNEFAC a good trial, and havo reow


 (Sgd.) ERNEST A. HOUSE.

Tie are off + ring prizes at Guelph and Winnipeg exhibi
tions. Write for particulars.
Carnefac Stock Food Company winnipea.

\section*{Warm Forion Feet}
other cause. To keep the feet warm is to protect the whole body. Ous
Electric Foos \(\mathbf{B}\). Electric Foot Batteries will warm the feet in five minutes, and keep a Poot Batteries increase the flow of blood in the feet and limg. These vitalizing silk headache caused by too much blood upon the brain These Ilieve the tired Batteries work out a change for the whole body, cure Rheumatism, aches and poinus in the feet and limbs, remove Chilblains, and cause a pleasant, agreeable feeling of
life, vigor and warmth ife, vigor and warm th, equal to the soft rays of sunshine. Electricity is "Bottled 3 pairs for क् \(\mathbf{0 0}\), by mail. Send for our
Electric Bolte and other Body Appliances.
The F. E KARM CJ, ! 32 Victoria Street, Toronto, Can.

\section*{HELP WANTED Regliable maen} Salary or commission, \(\$ 840\) a year and expenses, payable weekly, to
introduce new discovery and represent us in their district, disintroduce new discovery and represent us in their district, dishonesty required. Write at once for instructions.
EALUE MEDICINAL, OO., LONDON, ONT.
IMPORTED CLYDESDALES
Thave just returned from Scotland with a flne lot of Clydesdalestallions of great breedingandindividuality They are indeed a fine lot, and just the kind the coun ry needs. Write for prices and description, or better till, come and see and be convinced of what I sey.

OAKLAWNEARM
The Createst ImportIng and Breeding Establishment In the World.

COSSIP
Why don't you see a physician ?"
" No, siree," said he. " If I git cured it's goo, siree," said he. "If I be git cured
it patent medicine. No-
body gits his picture in the paper fur be ing cured by a reg'lar doctor." -Washing
ton Star. ton Star.
"/ How are your hens doing ?
"I'm not getting on very well with
own eggs."
"By jove I Now, I think that's good
Why, they won't cost you anything for
their keep."
Dr. W. J. Tolman, of the Institute of Social Service, tells this story of an
incident that befell him during his recent incident that befell him during his recen
trip abroad:
"I was invited to a dinner in Licontom, and my hostess instructed me to tplie a
certain lady to the table. There wes a woman there whose husband, Ahere somashat noted man, had recently left for finuia.
I thought this cne was my partner I thought this cne was my partner.
"After we were seated I started fin the weather as an tce-treaker.
fably. Been a very nice day.' I rempried, ""She replied to the effect that it had
been too hot to
been too hot to suit her. Yes," said I. genially, but it doesn't begin to compare with the "place
where your husband has gone, "She looked pained and stiffened.
Afterwards I learned she was a widow."

During the period from Januery 5th to January 18th, 1 E04, Sapering 5th
Hoxie hap received records of forty-three Hoxie has received records of forty-three
Holstein cows, all of which have made Holstein cows, all of which have made
seven-day records, one a sixty-diay seven-day records, one a sixty-day
record, three thirty-day records and tour
fourteen-day records. Twelve toll-age fourteen-day records. Twelve fulliage
cows averaged, age 6 years 8 monthi 27 cows averaged, age 6 years 8 monthe 27
days, days from cealving 19 : Mils, 21,8 ibs.; butter-lat, 14.830 lbs.; equivalent
butter, 17 lbs . 4.8 ozas. ; peroentage of butter, 17 lbs. 4.8 ozs, : peroentage of
fat, \(3.54 . \quad\) Six four-year-olds averageid,
age 4 years 5 months 27 days, days \(\begin{array}{ll}\text { from calving } 38 \text { months } 27 \text { days, days } \\ \text { Mily, } 432.2 & \text { tobs.; }\end{array}\) 17 lbss. 2.3 ozs.; percentage of fat, 8.40 , Soven. three-year-olds averaged, 8.40. years 3 months 6 days, days frome calv-
ing 19: Milk, 375.1 lbe.; butter-fat, 12.079 lbs. equivalent butter, 14 las.
.5 lbs . ozs ; percentage of fat, 3.27. Eighteen.; percentage of fat, 3.27. years 2 months 11 days, days from at, 10.870 lbs .; equivalent butter 19 ibs. 10.9 ozs.; percentage of fatt, 8.61. It must be borne in mind that these ecords are made under the careful su-
pervision of agricultural experiment staions, and that 85.7 per cent, sta pound of fat fcund in the mille is equiva-

The Social Economics Club, an organscore of women's clubsen representing met in convention at Clicago, has been searching for the "essentials' of a Mrs. Edwar Mrs. Edward A. Bigelow appears to applause which has greeted her if the by the ". other half ". greeted her word a criterion. She said :
-I Feed the brute good, well cooked
lood, and forgive him."
The husband, father and provider was only mentioned incidentally, and as a possible though not altogether en in Some of the w
majority of them - were - strongly of the opinion that the wife and mother was
the chief essential. The only good
band was this, by Mrs. Carroll, who hives in the country: © It must now
and then occur to women, and even to the most advanced club woman, that the
home is not quite husband and father and pravider. The wife and mother must recognize in him a
piece of household furniture not altoprece of household furniture not alto-
gether ornamental, only cccasionally use-
iul fing has taken ages of repression to
 wife and mother. He is the victim the
process that began in the Eden and gives no promise of ending
until he is called to the reward thet until he is called to the reward that
awaits the humble on the other and

\section*{ALEX, GALBRAITH \& SON} BRANDON, MAN.
have on hand a magnificent collection of

\section*{CLYDESDALES}

\section*{SUFFOLKS and PERCHERONS, with a faw} choice HACKIEYS and GERMAN COACHERS

Prizewinners at the Royal Show, the Highland Show, and the International. The best horses in North America at present for sale at reasonahle prices, on easy terms, and every stallion guaranteed. A safe motto: "Buy stallions only from those who have a well-earned and established
JA

\section*{20-CLYDESDALES-20}

We now offer for sale 20 head of Olydesdales, including fillies and mares, from one to five years old, and among them a number o
prizewinners. Also a few young Olyde stallions and Shorthorn cattle. People wanting to buy should come and see them be HODGXINSON \& TISDALE, ㄹ.


International Importing Barn GLYDESOALE, SHAE AHD HACKHEY STALLIOUS Last importation Nor, 9 th. 1908 , consisting of stallions
dirod by bir Everart. Biawathe, Black Prince of Laughton,



\section*{Imp,Clydesdales in Shorthorns}


St in in the world of American-bred Percheron, Shire and Hackney Stallions and Mares


 CORRESPONDENCE AND A VISIT om
IEW W, COCHRAN
607 West Main St., CRAWFORDSVILLE, Ind


VE 20 CENTS PER SHEEP on overy shoop
Stewart's Improved 1904
Sheep Shearing Machine
\(\substack{\text { For } \\ \text { fand } \\ \text { asan }}\)
 817

Booker T. GOSSIP. Booker T. Washington, speaking re-
cently of the many groes raise to an industrial education when it is first attempted, told this "You know," said he, " there are al ways persons whc object, like the old was hindering the growth of the church to which he belonged by protesting against every move for progress. Finally a special prayer service was held cver him, and a brother prayed that Brother Simon might be purged of wickedness, heart be swept clean of sin, and that he
might then be taken into the New Jerusalem. said: And then Brother Simon arose and The Scottish Farmer, of Great Britain in a recent issue says of Gallraith's
Clydesdale Stud: "Few American firms Clydesdale Stud: "Few American firms
of Clydesdale importers rank as high in
the estimation of home Clydesdale breedthe estimation of home Clydesdale breed-
ers as does that of Messrs. Alex. Galbraith \& Son, Janesville, Wisconsin, claim to have taken such a large number
of first-class Clydesdales out of the country. Thess Clydesdales out of the
catalogue of their Clydesdele, Shire, Suffolk, Percheron, German
Coach and Hackney stallions, copy which is just to hand, is conclusive evidence of the high standard of stcck -
especially their Clydesdale stock - at especially their
Clydesdale
present in tock - at
domitable
doir
pluck ized their dealings on this side. Clydes-
dale breeders have an enthusiastic dale breeders have an enthusiastic
partisan in Mr. Galbraith, as witness partisan in Mr. Galbraith, as witness
the following clause in his introductory remarks:. We have given pride of plory
to the Clydesdale, honestly believing him The catalogue has been got on earth,
less of expense, and the halftone trardwhich illustrate the booklet stand in no
need of the apology contained in the introduction anent their work being the ork of an amateur photographer.
Amongst the Clydesdales portrayed are Baron Robgill
year, (10689),
and by imported this
Baron's Kenneth (10166), by Montrave Kenneth,
Airlie (11240), by the champion Si Christopher (10286). Sir Christopher (10286), himself the Highland Society
champion in 1897; and Woodend Gartly (10663), by Royal Gartly (9844), and have splendid records on this side, and goers will be found in the catalogue."


books: Canadian Ayrshire Herdhook Hotstein-Friesian
French-Canadian (Race Canadienne) Herdbook; Dominion Swine Breeders' Record
For cattle an important change is made in the sections for the ". herd bred
by exhibitcr." An entirely new section has been added, thus providing for two
such herds instead of one. and it is not
lecessary that the hul hese herds be bred by the exhititor
wo entirely new classes have been arranged for champion pure-bred and grade

"IIMPERIAL" PUMPING WINDMILL Outit which won the CHAMPIONSHIP OF end Canadian manufacturers, after a two
months' thorough trial. Made by
om GOOLD, SHAPLEY \& MUIR CO., LImiltod, WOODSTOOK
STEEL WINDMILLS


WOOOSTOEK WIWD-MOIOR CO.
WOODATOOK. ©NT.


A GOOD LINIMENT Can be madde as Gollows:
Absorbine,
Vineg Vinega
Watgr,
Saltpet \(\qquad\) This combination will prove
satiffac tory and aucesful for

 Buy the ABSORBINE \({ }^{\text {at the }}\) atore,



THOROUGHBRED GLYDESOAiE STALLION
FOBE B-표
For sale, the Pu e-bred Clydegdale stallion, Rnynl
Sontohman 199
Sire Jve Anderson, R. C S. B.


Clydesdales and
Hackneys \({ }^{\text {For }}\) sale.



IIG WINDMILL




MOIO
Reat pyond

FEBRUARY 11, 1904
QUESTIONS AND ANSWIERS.
THE FARMERS ADVOCATE
Day's Aromatic Stock Food QUARTER-CRACK OR QUITTOR.
Twenty months old filly has a so
her off hind foot








dose in the usual food twice each day 3 LB8. 30c. 38 purely aromatic Ask your dealer or write
The Day's Stock Food Co,


I have a litter of Berkshire pigs about
three weeks old.
breathed very took sick, breathed very hard and loud, sides
heaved out and in, lived about three
days and died. days and died. Two more are acting
the same way. Sow fed a mixture
ground peas ground peas, cats, barley and shorts,
water and raw turnips. What should
have done for Ans.-This is thumps. Prev. B. better than cure. The sowention is making food, much heating and the pigs
and with too little action becomes clogged. The the hea be fed lighter and less heating food, and
the pigs encouraged, and, if nea
lorced them about the scme exercise with a bry stirrin
the weather is such that they out on the ground. A tablespoonfull
two of linseed or castor oil, given when
the ailment is first net Che ailment is first noticed, might
helpul, or a larger dose given the da
might have effect on the pigs through the
milk.

Miscellaneous.
bean cultivation

\section*{ultivate them after they cowimence}

\section*{}

Cultivate them after blooming, but up to
that time they should be kept clean
he land well stin

Have a spring of water about 185
rods from barn, and would like to know
what size of pipe would dither

Buff Orpingtons. Pulleta, from \(\$ 1.50\) up; Brown


LIILLAW PRODUCE COMPAIY Our Sprcialtiks:
Butter, Eggs, Potatoes,
Dressed Poultry .... Correspondence Invited. TORONTO.


A.EESHERRINGTON Importer and
breeder of BARRED ROCKS exxlusively. Breeding hens, pulleta and oockerels for
sale. Writetor prices. Box ioo, Walkerton, Ont. MAMMOTH BRonZe tureers, heavy stock from the first-prize Pan-American win
aner8 in Buffalo in 1001 Pairs and trios mat
not akin.
Elm Park Stook Farm
 OF BENTON 58632. We have also a few young
bulls fit for service.



\section*{JAS. BOWMAN} GUELPH,
Aberdeen-Angus Bulls
 Stock Farm Galloway Cattle
High Park Stock Farm Galloway Cattle. 4 choice young bulls and heifers, 6 months to 2 years
old, for ase. Prices right. Come and see. 2 om
Shaw \& Marston, p. o. Box 294, Brant ford. Ont
\begin{tabular}{|c|c|}
\hline ESTIONS AND ANSWE
Miscellaneous. RUBBER FELTING & ue of charcoal. \\
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\hline & Comer \\
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\hline & It absorbs the injurious geses which
collect in the mtomach and bowels; it \\
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\hline \multirow[t]{2}{*}{} & \\
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\hline \multirow[t]{2}{*}{} &  \\
\hline & \\
\hline Ans.-I am not sure that I can answer
Subscriber's, letter very satisfactorily, as
he doest 'not say what he feads his &  \\
\hline turkeys, or whether it is damp where
they are forced to stay. I would state
in general terms that turkeys will not &  \\
\hline \multirow[t]{2}{*}{} & \\
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\begin{aligned}
& \text { the sick ones to the bacteriological } \\
& \text { laboratory for examination. We are } \\
& \text { anxious tor or }
\end{aligned}
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\hline at boter poston to thow what th the & \\
\hline \multirow[t]{2}{*}{Ontario Agricultural College, Guelph.
SILAGE, WALLS, ETC.} & \\
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\hline  & REFOROS. \\
\hline \multirow[t]{2}{*}{} & SunNremem men \\
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\hline \multirow[t]{2}{*}{} & Shorthorns, Cootswolls, Berkshires \\
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\hline & AlD SHMP \\
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\hline & , mimameam: 4 \\
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\hline & EOWARSS \& CO., Rockland, \\
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\section*{OULSTIONS AND ANSWERS.} Miscellaneous.

\section*{alfalfa clover.}

Have a piece of land badly infeste with couch grass. Last year 1 under
toolk to summerfallow it, but the weather was so wet that little good
could be done. The soil is open and fairly rich. How would it do to sow alfalfa with barley as a nurse crop? Ans.-In all probability
would get the better of the alfalia. Would prefer to grow a crop of roots corn and rape this year to further check
the couch grass. Then follow with the couch grass. Then follow with
barley and alfalfa. Sow the barley rather thin, and about twenty pounds of alfalfa seed to the acre.

WATER SUPPLY
I want to put a square water tank up
in my stable- \(3 \ddagger \mathrm{ft}\). deep, 6 ft . wide and 12 ft. long. I intend making it with plank, and bracing it with rods, and
lining it with galvanized iron. I want lining it with galvanized iron. I want
it high enough to run the water through pipes around the stable to the drinking troughs in front of the cattle. I want the drinking troughs high enough so as
to be able to shove the feed under them. I have a lot of roofing with eave troughs all around, which I intend turning into the tank. How do you think
the plan would work? the plan would work outside the barn, and the piping properly protected from frost; but, doubtless, a square tank can be lined, as described, to prevent leaking. A rain water supply
from roof is uncertain and unsanitary. from roof is uncertain and unsanitary
Owing to dirt from roof in warm weather especially, they become foul. By experience. the writer found it could not
be relied upon. Better do the job right be relied upon. Better do the job right on the start, and put down a good well,
and have the wind pump the water, Your plan of troughs and manger is exan incubator I bought an incutator last spring.
It was guaranteed to work successfullv and to be as good as any other, also to workmen. Having no previous experience with incubators, I set it up ac-
cording to directions, and heated it cording to directions, and heated it up
(or tried to), but not being very successful, I put in the eggs (about 200). degrees, and only very gradual changes about 98 or 100 degrees. The first hatch came off some 18, next hat
abdut the same, but only succeeded raising 11 of the first hatch, owing, believe, to the delayed hatch, and no
of the second. Toward the last
Then second hatch, I put some sand in bottcm of incubator for the little fellows to pick at (if I got any), and the first thing bottom of the incubator in one crack, where I could nearly stick my finger in.
After that hatch, the incubator was reAfter that hatch, the incubator was re it was set again, and of course, the hatching 65 chicks. I agreed to settle the matter for \(\$ 5\), in trade, hut he
wants to give me only \(\$ 2.50\). Can he be held responsible for his guarantee
or not? If so, to what extent? Am I out of the way in my charge? What
the best way of collecting same, an what damages do \begin{tabular}{l} 
right to \\
Ont. \\
\hline
\end{tabular} Ans.-We consider this a case where the
thing to be done is simply to make the best settlement possible. over which it would
litigation in any

\section*{cossip.}

Mr. R. R. Ness, of the firm of Roh ess of Scn, Howick, Que., expects resent month. He intends importing wn herd.

Bating Becamo a Droad. gow

 BURDOCK BLOOD BITTERS
CURES INDIGESTION, DYSPEPSI MIIOUSNESS, SOUR, WEAE AID ALL STOMACH TROUBLES. Mr. J. G. Clunk, Barnefor etrou, ddy has done for him:-It is with reath ady has done for himit-It is with grath eurative powers of B.B.B. I was so badly troubled with indigeation that whatere I ate caused me so much torture that numerous phyalcians, but their medicione
seemed to make me worto. I thought seemed to make me worne. I thought 1 would try B.B.B.,
after taking a got a bottle, and
By By the time I had talken the last of two bottles I was as well as ever, and havo
had no return of the trouble since. I ranmmmend your medicine to the highest cegree. B.B.B. if for mio at all doalare TROUT CREEK SHORTHOBNS


JAB. SMITHE,


\section*{16}

Shorthorm Bulls
FOR SALE
and Moneyfuffel Lad. at Toronto, all ages competing; also Iord Stanley, junior champion over all beef breeds, and heading three first-prize herds at World'g Fair, Chicago.
Yonge Bt. Tro
Torono pase farm Car frol Uno
J. \& W, RUSSFLL, RICmmond MIL

SHORTHORNS fór Sale IMPORTEDAND Cows. Heitire and young bulls, Finest quality
Gooton breding. Prices low
W. DUBERTY. Glen Park Farm,


Io ported and Canadian-bred bulls, cows and heifers
or sale of the following fanilifies: Broasthrons Villag



\begin{tabular}{|c|}
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\hline \multirow[t]{13}{*}{"Ranching with Lords and Commons"} \\
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\end{tabular} Writes: "I wish to correct an erron
eous impression left on the minds Advocate' readers by the remarks of
B. H. Bull \& Son, in your issue of J . 21st, with regard to the Jersey cattle
purchased by them from purchased by them from P. W. Brown
and myself. I reserved eight of my
choicest-bred females also my herd bull choicest-bred. feralese also my herd bull,
Dentonia's Achievement. Mr. Brown also reserved some of his choicest fe-
nales." H. Gee \(\&\) Sons write: "The Barred
Rock cockerels we offer type to raise splendid market poultry,
and of a heavy laying strain and of a heavy laying strain, They are
not fancy birds, and are soll at prices
that no farmer can afford to be without that no farmer can afford to be without
them. See the advertisement, and note
the prices.
Messrs. F. Bonnycastle \& Son, CampCotswolds and Berkshires, in ordering a
change in their advertisemant change in their advertisement, write
"The calves we are offering are an extrin
good lot. We are offering them very
cheal. cheap to make room. They are ty
Prince George \(=28973=\), a Miss Ramsden Prince George \(=28973=\), a Miss Ramsden
bull, and from Bates and Scotch-topped
dams. The imported heifer we bought at Mr. Isaac's sale dropped a fine
heifer celf in September last. This calf
is from Nonpareil sold at Mr. Isaac's sale for \(\$ 700\). Ou
stock are all wintering in good shape 'Advocate , as a weekly."
Mr. A. . W. Smith, Maple Lodge, Ont.
writes : "I have recently sold , to Mr. Isaac Hetherington, Nile, Ont., a young
bull that should come well up to the highest standard of dual-purpose Shortwith very nearly the correct beef form,
got by Imp. Knuckle Duster. His dan has a record of 48 lbs .4 .2 ozs. milk per
day. Her dam was first-prize cow at
Guelph Dairy Tost milk in two days, and a full sister first young bull's grandsire was Caithness, a
first-class show hell


TRADE TOPICS

\section*{GUOD AXES.-This is the time of year
when farmers, lumbermen and others}

a deservedly national reputation, and
with regard to quality, shape and finish,
in the last three years, have been such
Look for their axes in your hardware
store, and ask for them.
EVERY-DAY SURPRISE,-Every day,
somehow, somewhere, some horseman in-
vents (for the first time in his life) in a
bottle
somehow, somewhere, some horseman in-
vests (for the first time in his life in a
bottle of Absorbine. He fuys it
against his own judgment. for he is
sure it is only another of those .hat-
rections. And lo! he discovers, to his
great amaze, that the stuff is taking
effect; that there is less inflammation
effect, that there is less infammation,
less soreness, the horse is going better;
the pun, or bunch, or swelling. is seing
down, and when he is thoroughly a
vinced, he sits down and writes us
letter like what fcllows:
W. F. Young, Springtield, No. M, 1898 .
Dear Sir, - Please Send
worked wonders on my homso, and
Manufactured hy II. FY Youne, I' I


BABY'S OWN SOAP

A Safe Soap for a TENDER SHin
A Safe Soap for a TENDER SMin
A good Soap for ANY Skin
Albert Tollet 8oap Coo, Mfrs.
\begin{tabular}{l} 
MONTREAL. \\
There is no other Just as good. \\
\hline
\end{tabular}


IL \(\quad=\)
\({ }^{\text {Highi- }}\) Shass Shorthorn Bulls \(\begin{gathered}\text { For } \\ \text { Sale }\end{gathered}\)

Arthur Johnston, Greenwood, Ont, Fiow 18 BULLS
 FIITBEERALD BROS., Mount St, Louls, Ont. SHORTHORNS (Imp.)

 eoward robiluson, Markham P.o. \& Sth. SH0RTHORNS \(\underset{\text { SARER }}{\text { FoR }}\)


 Greengrove Shorthorns Nombors shied


SHORTHORNS.
Ren mione 9 nee

 EBDWoND Bros. millbrook sta. and P. Shorthorn Gattle, LIncoln Sheep

Imp Primo Manker th had oo hoort Imp

J. T. QIB8ON. om DENFIELD. ONT. MAPLE LODGE STOCK FARM, 1854 Shorthorn Bull sand Heifers as well as something VEry att
Leicesters. Chnice ewes ont by imported "Stanley" and bred to
imported "Winchest er." E cellent type and qualito.

FEBRUARY 11, 1904

A OUR PRESENT OFFERING EA
tho
WINDMILLS

- CANADIAN (Gaviz) AIRMOTOR Wil do more work than any other
ON THE FARM arinding,Straw-outting, Pulping, Pumping, oto BEWARE OF NEWFANGLED WINDMILLS
We make a Madeo largely to sell (you).
Ontario Wind Engine \& Pump Co. tobonto, Xilmiteal, ontario,
 HEYSTMONE.


bananter assoo package or pathREN KOW CURE
 L. P. Solloek, Drugglet,
T. DOUGLAS \& SONS,



\section*{W. G. PETTIT \& SONS , ranax of ix Scotch Shorthorns} 110 head in the herd, 40 imported and 20 pure
Scotoh breeding cows. Present offering: 31 im


 Quensiton Helghts Shoothorins
\(T\) Two Sootah bull callves oholoe
heifers, at reasonable pricos.
HUDSON USHER, - QUEEMSTON, ONT
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 Scotch - bred Shorthorns, with nize and quality at atyrgin pricesi rede and
roans, of both exexe, , trom 6 to 12 monthe old. L. K. WEBERE, Hawkesville, Ont. MANITOULIN SHORTHORNS


 VALLEY HOME STOCK FARM.
 Scotch Shorthorn Cattle and Berkshire Swine



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H. H. Collister, Salesman for J. B.
Hogate, Sarnia, Ont., importer of highclass
horses Clydesdale, Shire and Hackirey and the horses on offer in prime brisk, tion. Among some of the recent sales
may be mentioned. may be mentioned: The Hackney stal-
lion, Pedro, winner of third prize at Hon, Pedro, winer of third prize at
Toronto, with such company as Saxon
and Cliffe Roberts. Sarnia business merts, to a company of
four-vear-ald Clan \({ }^{\text {McNeill, }}\) a iour-year-old Clydesdele, by Baron's
Price, dam by Mocien croft Clydesdale Horse A Asoclation Bancompany of Hastings County farmers : another four-year-old Clydesdale stallion,
General, by Hiawatha, and hall-brother
to Coirnhin Chicago, 1903, going to a company at
Gooderham, Peterboro County
Tho Thomas, hy Rrince Thomas, to a Armat
Komoka, Middlesex County, and Roval Komoka, Midatesex County, and Royal
Ross, at Iour-year-old Clydesdale, by
Royal Prince Carrick, out of Jess Park, by
222, to the second dam by Darnley anso to the Marmora Cliydesdale Horse
Association, Asociation, a
County breeders.
company of
Enquury for
for also very brisk, and tuqury for Jocks is
sidered that thenally considered that those who have rough work
to do in the northerav parts province would find the mule a very use-
ful animat

Mr. William Thorn, Lynedoch, Ont.,
breeder of Ayrshire cattle

 1 never had heifers with such vessels and
teats. I still have on hand several very
choice young lulle on
 from a dam with milk record of of 55 size
daily in
worthy
January, on dry feed

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\section*{ EMPIRE} Cream Separator.



-ar Separator Book is Free.
EmPIRE CREAM SEPaRATOR COMPANY,
88 wellingtom 8t., W.,
ORONI
CANADA
WILLOW BANK STOOK FARM. SHORTHORNS AND LEICESTERS Ah grand lot of young stock for sale, rich in Rosicruian of Dalmeny 45220 (impl) at heod of
herr. We breed the best to the best Leioester shoep of rare breeding and to the buality. Ldiosester \begin{tabular}{l} 
JAS. D. DGGLA88, Proprietor, \\
P. O. and atation, Caledonia, Ont \\
\hline
\end{tabular}
silz Elaorthorin Butu hit for bervioe ; Also cows and heifers, Imported and


\section*{JERSEYS \\ for the next 60 days; heary-milking
straing. Write for partionlars to}

W, W. EVERITT,
Maplo City Jerseys for sater: 10 head
 Oanoella Park Marm, Oonthe ont



为
Brookbank Holsteins

 GEO. RICE, Ourrioy Orogelige, Ontario.

\section*{HOLSTEIN BULLS}

Lyndale Holsteins


 brown bros., Lyn, Ont HOLSTEINS A. ATD AMWORTHS



HOLSTEIN BULLS FOR Parlinn


\section*{cossip}

Worthington's Canadian Stock Tonic advertised in this paper, judging from the very favorable testimonials published from prominent breeders and feeders in Ontario, has evidently given general satisfaction, and gained for itself an excellent reputation, the leading exhib the late Ontario Winter Fair, Guelph, having used it in proparing their animals for exhibition. The champicn steer and the sweepstakes pair of cattle at that shov were fed this tonic, and in the competition for the best pair fed with Worth-
ington's Canadian Stock Tonic, there ington's Canadian Stock Tonic, there head of cattle, making a mangiifreent dis-
play. See the advertisement on another age, and note the price and the address
- Pone Mr. Robert Miller, importer and bread-
er of shorthorns and Shropshires,
Stoufville
 demand, and they have the quality. Have furnished bulls ior use in many
good herds this seascn; scarcely missing a customer when they saw the bulls. The heifers are also of the short-legged ind, in ince concoin, and in calf to one of the best young imported sulls we have ever had. I do not wait for big
prices, Not try to furnish Shorthorns ct such quality and breeding at a price
that retains my customers. I seltom lose that retains wy cuifomers. I seldom lose
a cuskof My sales, since I last wrote you, would make a list too long for your reacters
and for your valuable space. never had more satisfactory trade
clydes for canada. During the week ending Jan. 23rd, we
learn from the Scotish Farmer, Mr. \({ }_{\text {T. }}\). H. Hassard, Scillbroak Farmer, Mr. T H. Hassard, Millbrook, Ont., shipped
from Liverpool ten Clydesdale stallions. "Mr. Hassard's shipment consists al-
most wholly of threeyear-old. He has. nost wholly of three- year-old. He has, Gallant' Robert \({ }_{(10347)}\) ) a noted prize and premium horse, and got by Prince \(\underset{\text { great }}{\text { gow }}\) Stallion Show, \(\begin{gathered}\text { champion } \\ \text { chorse, } \\ \text { hire } \\ \text { Hiawatha } \\ \text { sia }\end{gathered}\) (10067), perhaps the most noted prizeinning Clydesdale stallion ever known Rarrie (11714), got by the H. and A.S. champion horse, Prince Thomas (10262), rom a Baimediebred mare by the \(900-\) Es. foal, Balmedie Prince (7454). A
strong, pc werful horse is got by Mains of trong, pc werful horse is got by Mains of
Airies ( \(103 \pi=\), , the treat dark-colored son of Prince © . Wales (673), and the
champion mare. Pendora champion mare, Pandora, by Darnley.
A useful big horse is by Mr. Riddell's Food Gift (10564), which won frrst both at the Highland Society and at Glas-
gow Show. A well-bred horse was got prize horse, Sir Thomas (9681), the sire
 stud at Craigendmurr bred another of
the shipment, the four-year-old Missie's the shipment, the four-year-old Missid's
Heir
Hesilizt. got by the useful breeding ing mare, Missie of Craigendmuir, by the Glasgow, premium horse, Mains of Keir
 horse, Clan Chattan (10527), sire of so
many good horses, is responsible for a many good horses, \(r\) is responsibe for a
well-bred three-year-old whose dam was by the great
Everard (5353). \(\begin{gathered}\text { champion horse, } \\ \text { Clan Chattan is sire }\end{gathered}\) of the famous prize horse, Royal Chattan, winner of numerous prizes, and Sir
Everard was thrice awarded the Glasgcw premium. He is also the sire of the champion horse, Baron's Pride.
Others are by the noted prize horse, Prince Sturdy (10112) and Royal Carrick (10270), an excepticnally good
horse, which won first at the Glasgow


\section*{30 YEARS BREEDING HOGS}

International Stock Food Co., \(\quad\) COMBER, ONT. Diar Sirs:-I have. been feeding "International Stock Food for over hundreds of hogs shot and burned by the inspectors because they had the choletra and hundreds have died all around me but I have never lost any becatise I am feeding "International Stock Food." I have been raising hogs ver used for fattening internationting diseas J TENNER Breeder of Berkshire and Poland-China Hogs. won min





\section*{A s300000 STOCK BOOK PREE}










\section*{AYRSHIIRES}

WATSON OGILVIE, pnopnietor.
Ofilvie's Ayrahires, won the herd and your
 Uopo aho at hap Pat Amarian, in zoil



\section*{ROBERT HUNTER, Manager.} yoar montroal.

Riverside Holstinns
 Matt Richardson \& Son, \(\begin{gathered}\text { Caldoloin P o } \\ \text { Rnd Station: }\end{gathered}\) Rilgedale Farim Holstelins Bull and ho if or


\section*{shipping stations Pat}

AYIR OHIRTA IT Two fit for service, two March calves,
and a few August, 1903, calves. Noldpath Farm, Ballementyon MIGH-CLAB8 AYRBAHIAE OATTLE
FOB SALI: Both sexes; bulls and heifer oulve from Ho 9 months old cows and heifers all agea, Fa-
 DAVID LEITCH, CobnWall AYRSHIRE CATTLE


STOCKWOOD AYRSHRES



 AYPSHIRE BULLS Namuew







TREDINNOCK
TREDINNOCK
PAIN WNONNO
4imported bulls from the best milking gitrains nimsotland head the herd of 75 head. Win
nimgs for 1903 at Toronto and Ottawa: The
gold medal and 4 frest prize gold medal and 4 frst prize herds; 38 prizes in
all-18 firsts, 6 seconds, thirds, 9 fourths. In
the Pan-American milk test the the Pan-American millk test. the 2 first Ayr
shiree were from this herd. Qualitit, size. mikg
and teate is or aim. Young bulls and hifer
for tele Price aid. or sale. Price and particulars, apply G. T. R. and C. Pt. Anne fe Hellevae, P. Q.
22 miles west of Montreal.

SPRING BROOK AYRSHIRES \(\begin{gathered}\text { poo prom } \\ \text { tor }\end{gathered}\)
 . siopen bul oive tore



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Hosurc in mivenes YORKSHIRES
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J. G. OLARE, Woodrotro D. and S. Farm. ottawa.
For Sale at spring burn stocr par ,iz Simb in spring Burn stock rain any age; \({ }^{4}\) Oxford Down rame ; 20 Berkehire pise
and zome fine Buff Orpington oockerele. Pricee
 SUNNYSIDE AYRSHIRES Our present offering is 10 heifers, from 10 moes to
yeare of ate; 1 bull, 6 moos, old, and 8 young coweraro good straightilined lot, and will be sold right.
J.W. LOGAN, Allan's Corners P. O., Howidk Sta,, Que "THE HUME FARM.



Ayrshires for Sale





FEBRUARY 11, 1904
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Necessity of Sleep As a Restorer
The VItality Consumed During Waking Hours Must be ReCollapse.
Sleep is more essential to life than
food. ood. have lived for weeks without
Men have
 montal and anysital wrock.
Nights of of
oleopleseseess
 approaching
paralysis.
The use of opiates merely gives tem
porary relief, and actually porary relief, and actually hastens the the
collapse of the nervous system The regular and persistent use of Dr.
Chase's Nerve Food will form rich blood, create ne thoroughly cure
ous exhausticn.
By keeping a record of your increase in weight while using this great food cure
you can be certain that new, firm flesh you can be certain that new, firm flesh
and tissue is being added to the body. You will feel the benefit in every organ.
Mrs. S. Derocher, 495 Bethune Street.
 and 'sleeplessness, and began a treatment
with Dr. Chase's Nerve Food. for a certainty that it is a splendid
medicine, for besides steadytng my nerves medicine, for besides steadying my nerves,
it built up my system wonderfuly and enabled me to rest and sleep well. We
have used Dr. Chase's Kidney-Liver Pils and Ointment in our family-Liver Pills and consider them excellent. For skin
diseases, I think the Ointment cannot diseases, I think the Ointment cannot be
equalled, and the Pills are a most satislactory lexative."
Dr. Chase's Nerve Food, 50 cents box, 6 boxes for \(\$ 2.50\), at all dealers, \(\begin{array}{ll}\text { or Edmanson, Bates \& } \\ \text { protect } & \text { you against Toronto. To } \\ \text { imitations, } \\ \text { the }\end{array}\) protect you against imitations, the
portrait and signature of Dr. A. W.
Chase, the famous recipe-took euthor. are on every box.
IMPORTED AND HOME-BRED
AYRSHHRES
 Robt. Hunter \&́ Sons, Marvill, Ont. AYRSHIRE CATTLE
 Botiouiok rial imum J. YUILL \& SOMs. © Carleton Place, ont


\section*{W, W. CHAPMAN,}

Seprotary of the Mational sheop BroedSegrotary of the Fing op Romney Marsh
sheop and late Soerotary of tho southdown Spedigreo Live stook Agont, Expertor and phiconally solootod and oxpored on eom.
Aldrose : MOWBRAY HOUSE, NORTOLE STo, LOKDON, W. C., ENGLAND
Cables-sheopeote. London.
HAMPSHTRE DOWN SHEEP.
"RESERVE" POR CHAMPION IN THE SHORT-
WOOL CLABSES
SMITHFIELD,
Splendid Muttom, Good Wool. Great Weight

 large proportion of the quanity of matton and other breed, unequalled. Fosill informantion of an
JAMES E. RAWLENCE,
Brominity handiman Down Biat Ansocumion,
SALIBB URY
cossir.
 Iast year sold \(\$ 690.31\) worth of crean total of \(\$ 2,526.99\), making an average
of a little over allowance for the \(\$ 8 \mathrm{sklm}\) per cow. A filk and butter
millk would bring little over \(\$ 80\). The average up
while year-old heifers in the lot are nine tw

\section*{writes : ". Wn Woodruff, Lincoln C}

Frites: "On page 106 of your paper
F. C., of Huron County question : of Hooron County, asked the are to be finished on grass? ? \({ }^{\text {s }}\) In reply
I say it does not. last spring to a a
a
We sold some ceply
finished account of them. Mrass, and I heard no bad
Ind Hudson Quenston Heights Mr. Hudson Usher, o
cattlock and warm, buys finishes them on them on silage, and reasonable to conclude that people would
not do it if it did
stock Jocent issue of the London Live have made great strides in public favor
during the year thores during the year that has just passed, on
the American side Messrs. Truman \& Scns, Atlantic, Where have heen importing a large number of them have been several class; amongst Canqueror, and these have made a very breeders, having been successful Amertican the shcws and as stud horses. Big, are just the stamp to suit that country and to perpetuate a class of heavy but a few more importations of this a reputation in the Westerse as enviable he CCW enjoys in Western continent as heavy horses in Messers. Truman's stud in Illinois, totalling fifty head, some forty-
six are English Shires. Several of the best of them are by Blaisdon Conquero pion at the Ine is Blaisdon Pluto, oham Blaisdon Albert, a grand young horso that won first recently at the Chicago
International.

Right at the end of last year, Dunham, received an importation of Prite:" Wercheron, French Coach and Belgian stal-
tions, which, perhaps, will bear has ever been brought to these thy that this famous firm. Indeed, in the stables at Oaklawn Farm, Wayne, Il., at this time may be found an array of stallions individuality and prizewinning their are concerned, have no equal in this ecuntry. It is impossible to go into particulars as fully as might be
desired, but to begin with the Peroherons, we find winners of two first prizes Mans, winners of french show at Le Chateau d'Un, Evereux, and other points,
while we may also ee the most important first prizes at the grea rcund-up show at The Hague among the French Coachers, and among the Belgians are several which the Belgian
Government strove hard to retain ti country. In continental Europe, the Governments, which encourage horsebreeding, offer annually what are Belgium these are of \(\$ 1,200\) each. and in stallion which wins one of these must
make a season of a stated number of make a season of a stated number of
mares in the season following the date it is owing to this fact, principally, that the importation of this magnificent lo of stallions was delayed until so late in
the year 1903."

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All forms of cancer or tumor, internal balmy oil, and without pain or
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 of shorthorn cattle and LINCOLN LONG-WOOL SHEEP HENRY DUDDING,
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 SPECIIL SLIE OF SIROPSHIRE SHEEP.



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NO CATTIE, WASH THE ORIGINAL
Non-Poisonous Fluid Dip
 For itheop. oite meotorder

Oafio, horeos, plyp, otc
minning pro ot


No danger, safe, chapa, and offeetive

Silit ion Ambiniuguro.
Rolvort Wightaan, Druggist, owound

\section*{Holwall Manor Farm}

HiROPGHIRES FOR BAL


 Dorset Morn Sheep
 Mution ad omain onditiom oiv:
Jon And Mebillimery, Uxatrilgg, Ontario. Lincoln Sheep and Shorthorn Cattle
 ail
F. H. NEIL, PROP

on divarivernoct

 I. GEOME \& SOIS, Grimplo P. O, Oit. Yorkshires, Gollies and Paulty

 BNGLISH BERKSHIRAS.







> D. C. FLATT \& BON, Millanove, Ont



 Macrastie liodTo: worth sull Stivitiris





TAM WORTHS
 GIBSON, Noweastlo, Ontario.

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\title{
A \\ \\ JOYFUI STORY \\ \\ JOYFUI STORY of Rescues from Consumption.
} of Rescues from Consumption.
}

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