*Agriculture, Stock, Dairy, Poultry, Horticulture, Veterinary, Home Circle.*
Vol. XXXVIII. LONDON; ONTARIO.
MAY 1, 1903
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CONTENTS OF THIS NUMBER.


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 QUESTIONS AND ANSWERS

















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VoL. XXXVIII
LONDON, ONT., AND WINNIPEG, MAN., MAY 1, 1903.
No. 573

EDITORIAL.

\section*{The Features of the Budget.}

Parliament of the speech is the annual statement \(t\) It deals with the public debt, receipt Minister penditures, present and prospective, and and exany tariff changes to be made. To all citizens it is, therefore, a deliverance of importance. The speech for the present year was made at Ottawa April 16th by the Hon. W. S. Fielding, estimated at \(\$ 65,000,000\), current fiscal year is 000 over last year, and the increase of \(\$ 7,000\), ture is \(\$ 890,000\). The surplus is estime expendi\(\$ 15,350,000\), and the public debt will this yeo be reduced by \(\$ 5,650,000\). The overfowing year be yielded by the tariff is an index of a revenue crease in trade
There have been many and strong demands strengthening the protective features of the tariff, but in view of existing prosperity the Government maintains a cautious attitude, and will make no general tariff revision this session, nor do they announce one for the next. As an interpretation of public sentiment, it is that the people of Canada desire their tariff to afford at least moderate protection to Canadian industry. Moderation and stability", are stated as Inder present tariff arrangenements we find an American implement manufacturing enterprise investing some \(\$ 2,000,000\) in an establishment in Canada, in onder to cater to our trade and that other portions of the British Empire.
A surtax of one-third over and above the gencountries which exclude Can dutiable goods from their minimum tariffs. This is in inected favor of many, from which in 1901-2 we imported nearly \(\$ 11,000,000\) worth of goods, largely made up sugar, iron and steel manufactures, and woollen, cotton and silk fabrics; yet she has steadily waged war on our far smaller exports to her. In 1898 she gave American wheat a preference of nearly 10 cents a bushel orer Canadian. Although our grain trade with Germany suffered severely, this discrimination has been lately increased with irrithe methods of administration. We presume he surtax will tend to lessen the heavy importagarded German sugar, and to that extent is renew as in the direction of relief towards the neet sugar industry in Canada. It is also States and a states and other countries that Canada has come self-rel a wholesome and commendable national ity-" y'." There is also a hint to (areat Britain tial tarime there is no response to the preferenieature Cane may be modified in the interests of the
As soon as the
he steel mills the Government is satisfied that Fails of Canils at the Sault or elsewhere can make cuantity \(\$ 7.00\) per ton will be imposed by order-in-

Steps are to be taken whereby binder twine ers will be relieved of the disadvantage under Chey labor on account of the U. S. relsate ree-eighths of a cent per pound (Philippine a. How the relief is to be given is not
stated, The greater proportion of our twine is Manilla and is not subject to the disadvantam mentioned.
The exemption from duty of machinery for use in the manufacture of beet sugar is extenided \(t\) June 30th, 1904 ; and a similar exemption is al lowed on machinery for alluvial gold mining. In the interests of Canadian transportation announcement is made that no tolls will be col The our canals for the period of two years. The Government note issue is to be increased有 \(\$ 20,000,000\) to \(\$ 30,000,000\), the increase to he \(\$ 59,00\) to creation of a reserve to secure pros \(\$ 59,000,000\) of postal savings bank deposits favor by some we notice is not regarded with

\section*{Constitution in Swine}

Those who have been close observers of the years can hardlystry in Canada in the last few numerous questions in failed to notice from the from the reports of veterinary inspectors, and somewhat alarming increase of disease among liogs in various districts of the country, in the form divers other ailments to which as cholera, and in This has been to many farmers thog flesh is heir. almost the only drawback to what principal and thanks to our excellent export marketherwise, late years, a very profitable market, been, in business, and gives fair promise of their be such. To obviate this difficulty and prevent be such. To obviate this difficulty and prevent the careful attention and by it, should demand farmer who raises hogs in any number. Prevention is so much better and cheaper than cure as to be beyond comparison the wiser course to follow; indeed, the diseases of swine, as a rule owing to the difficulty of dosing them, are practically almost incurable, and cholera, when deeply seated, may be said to he absolutely so
The principal factors in the prevention of disliness, careful feeding and cleanadvantages of cleanliness ample exercise. The vious as to need no labs abof animals are so shamefully respect. The impression provails that the this 9. filthy creature and thrives in dirt. the hog is fact, if given a fair chance he will give but, as a decency that other stock have never Careful feeding consists, in part in considering that the pig, though a greedy brute has yet small stomach, which, when overloaded, is easity deranged, causing indigestion and all the ailms that follow in its train. The food should ther ore, be of a wholesome nature, consisting of reasonable variety, and given in moderate or a tity. Exercise plays a very important parf in the development of the vital powers, the heart and lungs; in the healthy and vigorous flow of the blood to all parts of the system, and in the proper action of the digestive organs. It is the portant to their healthy growth that from the time the pigs are a week old they get sufficicne exercise to give strength of bone, to prevent the accumulation of an excess of inward fat whin causes a sluggish action of the heart, tending to disease and to the production of adipose tissue, required by the discriminating markets of the
present time. Regular exercise and access \(\boldsymbol{\text { to }}\) essentiand and to grass, whenever practicable, is in its and especially n its young days
of disease in of the most fruitful sources of constitutional vigor in the animals is the lack the result of carelessness, the animals themselves, good judgment in the selection breeding stock found on most the farms in the country, resulting in progeny lacking in strength of uer fisea, ana, hence, an easy prey to all mancepted by medical meory is now generally acimmunity from diserinarians, that vigorous the attecks dision, having the power to resist ease where it disease germs and to throw off disers of the obse a looting; and close observStates, where it of hog choiera in the United that the British breeds which prevalent, claim time reinvigorafed from time to blood are much ins the importation of new more successful ins and breeds which heve throwing it off than safe to say that no it is more in the hands class of stock has suffered indiscriminate broding and fromer fromer sanguineous breeding sion close or con try. There is no teriorate in vigor and strencth so the whe inbreeding or breeding from so :apidy under breeding from closely-related ani The
perhaps, more essential to of new blood is, robustness of constitution in swine thenance of other stock, and in view of this it is any understand the purpose of it is deliverance by a witness Committee at Ottawa, discoura ing Agricultural tion of fresh blood for sur brea Britain, the fountain head of the have given our bacon its present stas. Wo venture to affirm that breeding of the principal prizewinners in the years at the leading shows of this country, recent breeding classes of the breeds claimed by the advocates to be par excellence, the bacon sorts, bred either that they were, in nearly every case, bred either directly from imported parents on gne ancesth sides, or traced to recently imported there is infallible virtue in the fact claim that tion, and frcely admit the possibility of importing inferior stock, but it is reasonable to assume that importers use some discrimination in the selection of the animals for which they pay rood money and while we admit that first-class animals of breed are, not plentiful, even in the Old Country, expere not in this or any other land, yet found and has taught that good ones have been fluence in the maintenance of constitutiondid inand the development of high-class merit in the swine stock of this country, as well as in many onterprising breeders whe Fortmately, we have risk their mones in the importation of high-class stock, and who have proved their willingness to and this country reans the bencfit first rank, duction of such stock, the influence of which is not limited to any one herd or section, but
spreads like leaven over ever-widening territory Such men, in our humble opinion, should receive
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prise you. Few farmers look upon the soil as the food of
plants in the same light as they look upon outs plants in the same light as they look upon outs
as the food of horses. If they dial, more atten-
tion would be derotad to limuin it aloun well tilled.
To be glad of liie, becallse it pines yon the
chance to love and to work and the fhy and to
ook up at the fothing in the world except fatche your disgnsts to admirations nothine

\section*{Advantages of Eastern Canada.}

\section*{Hen, Pig, and Cow.}
dian trade and industry, many young men on the iarms will be planning to acquire land, and to Such an ambition is the most laudable and commendable that coild actuate any young man, but the working out of the details may, at this time of numerous opportunities, be franght with considerable uncertainty.
The first question most likely to arise is hether to take what small capital one has, go out West and invest in cheap land or homestead, or to begin in a small way at home, first by making a little at hiring out, then by renting, and, finally, buying a farm. In considering this problem, the price of the land is the great argument in favor of the former step, but it should be clearly borne in mind that in this connection rice and value are not synonymous terms. In both the East and West the value of the land is tion, its proximity to to remunerate, its locanal; its pontimity renters of business and thos, churches, and other the estimate of the value of East land is higher priced than in the ivest the cause its location allows of intensity of farming ; its proximity to mark assures one of larger prices for produce and its contiguity to centers of trade and thought afiors the advantages of buying necessities, of borrow ing money, and of acquiring education, so asse tial to the age, at the least possible cost. These considerations give Eastern land its value, and it is at once obvious that land selling at from \(\$ 40\) to \(\$ 100\) an acre in the East may be cheaper and more easily paid for than land priced at from \(\$ 10\) to \(\$ 25\) an acre in the West. Land in the cases under discussion is paid for out oi the returns from it, after the cost of necessities and luxuries advantage of living where these commodities the most easily seoured. Cheap land is an alluring term, but it can be safely said that \(\$ 1,000\) invested in land in the East, where so many ment dividend as earn a good land where the must of necossity incmsive method of farming risks In considering
and, the expense loss that is sure to accrue in a news, and the account of lack of acquaintance with conditions, nethods must be acquired A knowledge of new perience, and were the energy and stury and ex ployed spent in an effort to improve the ems condition, just as good returns for energy exare immense, her possibilities are as yet un areamed of, and the young man who intelligently participating in these possibilitios, resources, and that his land issany too high priced. Fostern Eanada is by no means an old country. Even leavnot justified in doing-the vast unloroker, one is Quel and timber areas of Northern Ontario and still comparatively " new," and while these opportunities are here the agricultural Alexander

\author{
The Old Reliable.
}

I have been faking some other farm Aapers

Bogart's ingrom -During the past seven years the United million dollar imported a yearly average of \(190 \frac{1}{2}\) and eggs. It is difficult to grasp these figures, but perhaps we may get some conception of them of the United Kingdom mean that into the ports worth of these four articles every pour \(\$ 521,000\) o make up the total of the year's purchase year the people of the British Isles. Now this vast quantity of \(1,497,507,000\) pounds (equal to 750 every year gaur many countries
The bacon is carried across the Atlantic Ocean from New York, Boston, Portland, Montre Ocean John and Halifax. It is hurried across the English Channel and the North Sea from DenEuropean countries the "She cheese is supplied from New Zealand, under "Dipper". from the Unitrom Canada, under the and also from such near-by countries as Russia, Sweden, Norway, Denmark, Germany, Holland The eggs pour into the Mother Isles fron cake"-Denmark, Giermany colurnn"-"takes the whi h latter country collects, Belgium and France, Switzerland, just as the United States Italy and Canada, and gets credit for shipments from her ports, the production of which belongs to the pean countries. Besides these and other Eurosupply one dozen in every 170 the United Etates Great Britain. Just consider the great ard hens engaged year in and year out in announcin has been added eggs required yearly the big heap of \(2,171,661,560\) British hen for assistance to provide John the and his sons and daughters with eggs onn ibul Canad this great market in four articles, Canada can supply as well as any country in the Well, during the past seven supply it? view we have sent just about 23 years under re yearly average the 750,000 which make up the searly
better. Reage of the period. We ought to do show that. Why do we not do better ? The to is a question for the practical man. Wetter? That inarket. There are the competitors. There is the is nothing in the natural conditfons of any of the orer us in the markets of Great any advantage Have we held our own in Britain. during the seven years? It is not enough that the articles increase in the quantity and value good condition which we send these four articles is market to market, then we should not rest satisfied with anything short of an increasing patisfied with What do our statistics tell us about the relathese four articles? Well, during the stupply of of the seven years (that is 1896-97-98) we sup during the, 795 pounds of the four articles, and supplied Great Britain (that is 1900-01-02) we That is an increase of \(254,419,996,791\) pounds. This per cent of an increase
This looks well, and is satisfactor
it goes. But how much has been the increase in sears of the period we are studying, the first three was for \(2,100,145\) tons, and for the last demand veloping it was for 2,393,920 tons. That is three cent. As Canada's socian increase of \(13 \frac{1}{3}\) per by 33 per cent., it is plain we have it increased Thus than the demand has increased our that Canada is four articles together, I prove turing, of an incrasing her competitors by capsiderably greater than the increase a share con100) games in lacrosse players of Canada played they would be proud? Whe London club won 14 if they won 33 games in 1902 ould they be prouder men (anadi- large, then, the fout of 114 played? the Canadian hen, nig and cow are moving with THF HPN to stand still with
Ges in 1896 , to meet the demand million dozen ion in the market of Great Britain, and in 1902 hution to the enormons demonen as her ciontriliwhin horen. or taling the first three vears as before. She supplied \(5 \frac{1}{2}\) ner cent. of the dears, as beWile 6.20 ter cent, or somewhat over into the vast
保

MAY 1, 1903
THE FARMER'S ADVOCATE.

Int we must not be content with this showing th is just a little better than holding our own
We ought to show a good twenty per cent. of de velopment on the per cent. of actual development. lo ought to capture, at least, twenty
of the whole egg trade of Great Britain. the United Kingdom's trade in do as much of toes. There is no reason under the as Rus =i long t. If the long sea voyage, added to the long railway journey that Canadian eggs have to the English people, has a tendency to shake the also have the long railway journey through Rut ia and the churning of the steamers through While we supplied \(5 \frac{1}{2}\) per cent. of the total in 1896-7-8, and added but slightly to that proper ton in 1900-1-2, Russia supplied 22 1-10 per
vent. in the first three years, and 261 1-10 per cent. in the second three-year period. the rapidly -increasing market of Great Britain 'anada's share of the trade since, as we have seen, 1 than her share of the trace of 1896-7-8. But in all likelihood, Russia has prevented Canada the egg trade. Our trade has grown absolutely and relatively, but not as fast as it would have done had the Russian hen been less active in her Just think of it ! We let those Russians dip
into England's pocket to the tune of \(\$ 11,721,259\) in the three-year period, 1896-7-8; and to the, 259 of \(\$ 18,580,575\) in the three years \(1900-1-2\); thus giving them an increase of \(\$ 6,859,316\), or an anneal ave took was \(\$ 2,872,784\) in the first three
all we took years, and \(\$ 4,815,781\) in the last three -an an-
nual average increased income should have had that extra \(\$ 2,286,400\), and then there would have been in the Canadian purse \$1,have had it to expend on things to or we would comfort.
The country naturally The country naturally looks to the great
Canadian hen to do her duty, and not to "downed'" by a measly Tartar hen, but the great canadian hen's keepers have responsibilities. She properly, and then she will do her duty and at tract to Canada a good deal more of the thirty buying dollars Great Britain spends yearly in race than the miserable fragment of \(\$ 1,700,000\) the hen of Canada now gathers in from the BritTHE COW
Turning to the cow, Great Britain called upon
other countries to assist her in supplying dairy Products to the value of an annual average of apportioned as follows : Cheese, \(\$ 28,322,000\); 1,) utter, \(\$ 84,619,000\). seven years \(2,677,931,984\) pounds, an average the 382,561,712 pounds a year. This, too, is a growing market. During the first three years of
the period, the average was \(353,347,792\) pounds, and in the last three years it was \(412,741,765\)
pound's. This is an increase of 168 per cent the demand.
special supply sent by Canada (which much, the to \(2 \frac{1}{2}\) per cent. of the general supply in the equal three years), increased to 5.4 per cent. If the
supply forwarded by all countries to meet the British demand in the last three years. If Canada had supplied only the same proportion in the
last three years as she did in the first three years she would have sent \(10,051,000\) of the total Wanted of \(412,741,765\) pounds. As she sent
\(22,255,362\) pounds, she gained on other competitors lo over \(11,200,000\) pounds a year on an Russia, which country has been cited as
successful competitor of Canada-as, in fact "driving us out of the egg market of Britain,
and "up to us in butter"'has made no such prog-
ares are studying as a three of the seven years we cent. of the total demand of this article by the Britishers. Had Russia supplied an equal proports of the last three years' demand, she
would have supplied \(23,113,000\) pounds of the total of \(412,741,765\) pounds wanted. She actually supplied \(27,146,112\) pounds, and thus gained
on other competitors by over \(4,000,000\) pounds. As Canada gained by over \(11,200,000\) pounds. mono Canada "saw," Russia's gain of four million pounds, and went beyond it by \(71-5\) milWhen a man gains weight over another man's
when in that proportion, the other man is not "really that proportion, the other, man is not
cheese, Great Britain has needed during seven and as Canada has supplied 62.8 per cent of that amount during the whole period, and has, during per cent. of the whole it is not average of \(66 \frac{1}{3}\) cuss the relative merits of Russia and \(C\) to disCheese purveyors to His Majesty and His Majesty' Immediately surrounding subjects, the more as the Russia's supply of this article to John Bull it Russia's supply of this article to John Bull, it
being too small to be given distinctive place in the returns.

\section*{the hog.}

With respect to the hog and its special supply of bacon, Great Britain obtained from supply sources during the seven years 4,208,247,232 pounds, or \(2,104,123\) tons, an average of 300,589 ada supplied 10.7 per cent. of the years Canmints, and in the second three-year period she supplied 18 per cent; while Russia, which sent a of the total of of \(2,120,011\) pounds as her share 245,627 pounds as her sis pounds, sent only 1,811,642 pounds, thus falling back, not only velaNicely, but absolutely
Now we may have done more business, as we
undoubtedly have done, and yet it been as profitable. What do the figures show? We sold to Great years, \(766,57 \pi, 794\) pounds, and we received \(\$ 71\), In the second period we 3 -10 cents a pound. pounds, and received \(\$ 111,453,490\), which is about 10 9-10 cents a pound.
served the mi s must one more point. I have reit. The boys have a game of hop, to illustrate let us see what is the result if hop, skip and leap. to 1899, and then from 1899 to 1902. The figures of exports by Canada to Great Britain, with per cent. of the total trade, are

Exports by Canada. \(\begin{gathered}\text { Proportion of Whole. } \\ \text { From }\end{gathered}\)


With these figures and facts before your read-
ers, I think they will find that Mr. Van De Bogart was not speaking by the book when he
said: "Russia is our great competitor driving us out of the egg market in Britain; in butter she is up to us, and is coming on in cheese
GEOR bacon." Dept. Agriculture, Ottawa, April 20 th, 1 a no .

\section*{Our Western Letter}

\section*{westward, HO}

The present rush of settlers into Manitoba and reasons being the great advertisements which the West has received of late. Never before in her history have two wheat blockades told her worth '92. Then the world, as have those of 91 and fruited l literature scattered broadcast, have fruited, and truly the hary
dion of the most sanguine.

THE RANCH BUSINESS.
The cattle industry on the ranges is assuming large proportions, numbers of herds with 12,000 pile up big profits to their owners. This only occurs when an experienced hand guides the helm, for in many instances newcomers, becoming ening money, have risked their all and lost. The about six or seven per the past winter would be about six or seven per cent., most
borne by the inexperienced beginners

PURE-bRED STOCK IN DEMAND.
Purebred stock owners are doing well. Sale and prices have been good, and very few animals
that were offered for sale remain unsold. A large number of young bulls of the beef breeds go to
supply the ranges, end most of the females are purchased for foundation stock by breeders who are just starting.
Draft horses ha
ord teams bring in

MORE RAILWAYS WANTED).
The railway question at present is a burning
ne. With the large influx of settlers and their effects, as well as building material, which is ex ceedingly scarce and high priced, it is difficult, yea, impossible, for the railway officials with satisfaction which would favoritably ion give that satisfaction which SEEDing.
The spring has been very favorable for seed-seed-bed, and the farmers as a whole prepared advanced with their work. Last fall being so exceptionally fine, in many sections a langer area as plowed than usual, and that along with the Crop fine spring, indicates that a much larger

FAT AND LEAN YEARS,
Old-timers tell the story, and who can doubt With them discouragement and even hardship the last two harvests have established a record number of Western farmers overcome. A large ent, which sueuks well for the independyoung a land. Almost all who combine of so are now comfortably well-todo : this augurs west for the future

Business IIP GOES LAND.
being well satisfied with the brisk; most classes fairs, the only exceptions, perhaps, being of afwho intend building, and also those who have much produce or goods to ship. Real estate is prices are steadily \(y\) y that the top notch has with him. He is a fine specimen of the sturdy Scottish farmers who have and are doing so much we all sold and figure of \(\$ 1,050\). For a made the nice a name for hims very modestly, ing done anything out of the common. But to the show and sale. The animals catelogued were cows and heifers, 71; bulls, 311, and most of them were very good. The cows and culls from the leading herds. Any who were
cold prizewinners brought good figures, the secondprize heifer, under one year, nearly reaching \(\$ 500\), \(\$ 400\). All animals in the prize list mate fight \(\$ 200\) upwards. The bulls were anima line from and composed, in most cases, the entire offerings from all the leading herds in the north. The classes were the bull as well as in the heifer under a wear. First prize in the senior yearling bull class went to Golden Arrow, bred by Mr. brow, Criefivechter, near Perth. 'This was by ommon consent considered the best bull in the mended, \(\$ 1,250\), the highest brice price he comHe is a rich roan in color, with good top and underline, and a great wealth of flesh carried down on his quarters. Prizes two and three ing, two useful animals, sired by "'Sittyt's breeding, two useful animals, sired by "Sittyton Seal"
distance.
Winnipeg sighted at
OBSERVER.

\section*{STOCK.}

\section*{Perth Show and Sale of Shorthorns.}

One looks forward with interest and expecta horns Perth annual show and sale of short called, has become the Perth, as it is generally world for purebred shorthorns center in the cattle. Centrally siturthorns and Polled Angus from all points of the British le aces readily understand why perth in favored as sale center of pure-bred cattle

Perth sale has another interest cattle men, and that is, to a Canadian af leas the pleasure of meeting with so many notes Shorthorn men. I might mention such names as Mart and Duthic; Dawson, manager for His Grace Byres Farm Richmond and Gordon; Bruce, o Huntly Ni s, Fochabers; Merson, of Craigwillie used in his herd for one year the famous Choice Goads; and last, but not least, Mr. Duro Jackston, the man who bred Choice Goods. had the pleasure of an introduction to this astiable gentleman, and had quite a conversation

Winnipeg, Man., April 23rd, 1903.
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THE FARMER'S ADVOCATE
the same figure, \$:00, the second-prize one gob
to the Prime Minister, the thind-prize one
Bucnos Ayres "Champion," bred by Mr. Ferguson, Dalcapon Fifth place went to Victor, of Huntingtower,
roan, bred by Messrs roan, bred by Messrs. Lumsden \& McKenzie ; he
was withdrawn at \(\$ 325\). Sixth place was allotted though only allotted sixth pire Challenger. A keen competition in the ring ; he was knocked down to Wm. Duthie, Collynie, at \(\$ 900\). In the class for bulls under a year, the judges had large and excellent class to diaw from, but soo peared to have considerable difficulty iney apan outstanding winner, but ultimately in finding dark roan, Royal Prince, by Mercury. There the isted considerable diversity of opinion in regard later didecision, and the verdict in the sale-ring first-prize animal bringing less of the judges, the below him. For my part, I picked out the firs prize animal as winner before the judges placed him, and have not as yet changed my opinion sale-ring. Royal Princesequent verdict of the future than present winner; his rivals more of the best models of beef-form, but I have by fa seen a perfect yearling curn out a very indifferent aged bull, and taking the first-prize animal in the mon consent, well entitled to he he is, by com just a trifle narrow at the tail-root, and might ike a bull with great outcome. altogether looks by Mr. Adams, Baads, Peterculter, and purchased r Ireland by Mr. Aylward, Kilkenny, at \(\$ 750\) chin, for Marquis, a light roane, Bired by Trophy of Minmore. This was, all together, a finely topped and superior animal in every respect, but noom for outcome in too finished to leave much satisfactory price oi \(\$ 850\). He brought the Illustrious Champion, a rich roan, bred by Mr "Durno, of Jackston, breeder of the famous "Choice Goods." He is a good bull, younger was his disadvantarsul rivals, and, accordingly, Ireland by Mr. Gordon, at \(\$ 1,050\), Fourth for went to Douglas' Conqueror, a dark roarth place by Messrs. Peterkin, Dunglass, Canonbridge ; he sold for \(\$ 775\). Fifth place was won by Knight Graham, of Redgorton, at sold to Mr. Mastom bull, Orion, bred by Lord Lovat, The Royal Star he was purchased by Sir James Miller, of Manderstone, at \(\$ 360\).
excellent lot, but there over, they were a really that brought little more than few culls on hand thing that strikes a Canadian is the way one breeders here bring, out their stock, "'ale an' and are fitted flesh " to show to good advantage, and are fitted up by the herdsman to appear in anything that showed any Bates or Then, again, ing was sadly discriminated against, especially those of Booth extraction. The animal in demand is the modern Cruickshank Shorthorn, which not take time to discuss here readers that I will The day following, Aberd Agricultural Hall, but it was evident that all the of the stock wad gone to Perth, as the quality quite a few good animals on hamd, and the \(\$ 500\)

\section*{Skim Milk for Pigs.}
to the high value of skim milk for furnishing dred pounds of milk the growing pig. One hun pound of bone material. Nature intended of a or the young calf; that is, the cow's milk is for feed that to the pig, there is calf; now, if you
milk which material in that he calf, and it will fuilu build up the bone of When we use com ne noe. ing of corn give The supplementing of ... Wh han "che bores. bone-building materia forget that fact. Youllan immen shat bone bear this in min
\(\square\)

from one to thane premnds of skim \(m\)



\section*{Our Scottish Letter}
vinter lingering in the lap of spring. If he had been meandering round during the past month, his observations would have been excusable. We have had a long winter, but not of the Canadian sort Of frost and snow there has been little, but of wind and rain there has been a superabundance. dust to speak of. April is have had no March past few days there has is here now, and for the to spring-like were has been a gradual approach warmth in the atmosphere, one may hope, spent themsel and the winds have, of the Scottish Midlands it is difficult to see how are terribly sodden, and The seed-bed cannot be of the best, to be wrought. y to be of a moderate nature, and it is likemost favorable conditions now. If we have the sunny weather right ahead for several weeks armers will get the arrears of labor worked of again reign during the past months, been favorableon have produce is selling well. A farmer was telling me per cwt. (of he has sold his fodder cheese for 18 s per cwt. (of 112 los.), more money than he got Board of Agriculture now are deplorable. The port on grain prices, and it is making weekly re ing. An improvement in this respect is reading.
needed
TH
have
THE EXODUS TO CANADA goes on. Seldom have so many eligible lads and lassies left ou as a whole, the class that we do class going is with, and their settlement in Canada does not mean any lessening of competition in our no of nature But what can we do? It is the law from her to establish homes of thei children go is the law of nations that the Old own, and it shed her population to people the virgin soils f new lands. A curious fact in the present Canaand skilled workmen to the number of mechanics bands. One reason of be found in the emigrant employment in some trades on account of the increasing adaptation of machinery. This week among the emigrants are several compositors use of the linotype. account of the growing This is linotype
and experiment stations submit their annuna round-up. Much literature of that kind annual our way, and were we to read it all little else McFadyean is the leading veterinat of Professor this side, and his annual review of the hoalth on is always interesting. His report on 1902 is exhaustive as any of its predecessors and gives a deal of information. Speaking of foot-and-mouth assurance that the United States is that any disease must be read in connection with of this that it existed for three months in New Fnglant to be forroten reported. This is a fact not likelv to the modification this side. It will not conduce country on the importation of foreign of this Professor McFadyean has a good deal to stores. tuberculosis and Dr. Koch's recently expressed viervs on the subject. He has not been able to is universally admitted that it is havery, but it negative. No one but a madman would deliber-
ately dose himself with tubercle bacill of this it does not appear possible to settle man Two Aberdeen teachers, Messrs. Marclauchconverse. They have dosed calves testing the sputum of consumptive patients, injected the saic
sputum under the skins of calven variety of ways aimed at the overthrow of Koch's culosis are not the same disease and human tuber found is that the absence of the lesion in thave testine is quite consistent with its presence in the
mesenteric glands. In other words shown that the bacilli may pass through the in tharters in the mecenteric. Koch's only to find monf of mon-infectivity. The situation at pres limemollosis fan be communicated to the hovan

\section*{}
usually vigorous fashion for several joars, ant in has been made to distinguish Hitherto no attempl hese experiments and what of more is local i nessed a change in this of the Board of Agriculture contains The Journal much value, and in the "Transactions," ar or o Solume, issued by the Highland and Agricultural ject from the an admirable article on the sub ject from the pen of Dr. A. P *Aitken, the So ciety's chemist. The Doctor regards the absence periments. This absence renders them these exmore than local value. The broad fact in mittle ing practice is the increased attention to potash There are few soils in a complete manure addition from without reduces rather that an creases the crop. This, however is than in tional experience. Farmyard manure is the bet - nitrogen stitute for farmyard and potash. When a subit ought to contain the three substancer for, dance and rightly-balanced proportions abun Aitken recognizes the ability with which the pro wares, bit the stassturt mines are pushing thei and know well the fore they go deeply into the potash business beIthink reference was made in a formers. Banner success which had attended the Canadian oats are being made all round. Ireland is at it lege had also a turn at the business. Aberdeen Col Abell as nor in Ireland has the Banner done as good land the West of Scotland. It requires other oats which have have been more favored. All ther in the field her is a great oat, and it will increase in Ban in scotland in proportion as it is known. Nothing fodder beat an old Scots oat called Tam Finlay for land Tam Finlay holds theus, and on high poor can beat the old in grain, and especiall oat for fodder and oats when it comes to straw an beat and oats for grinding, the old sorts ous sorts have been nickname new and very vigor-
THE CASTLE DOUGLAS SHOW.
held at Castle Douglas a shows of stock wa worth seeing. Galloway cattle hove was wel seen to better advantage, and there was ald ne show of Ayrshires and Clydesdale horses the ghlloway section the outstanding feature was quite a phenomer or both sexes. There was class numbering no less than of quey stirks - the ing and most successful exhibitor was Mre lead Camp-Fown, Stepford, Dumfries? His champion bull beaten loway of the Messrs. Biggar \& Sons showed guite ever seen good cows, and Major Wedderburn-Maxwell were represented same class of stock. Ayrshires cows and queys likely unusually fine display of Mr. Andrew Mitchell, Barcheskie Kice in dairies. tion a black and white cow in milk, withouright, many a day. The femals of her kind seen for ever, did not go to her, but to Messrs Kerr's how three-year-old, which was Graitney, a promising the doubt on account of get ying the benefit of pacted that there will be a great show of Ayrshie Cortle at Kilmarnock and Ayr during the next at Castle Dourlas was of the Clydesdale section and supremacy of the progenv of Baperiority 9122 . Mr. Smith, Chester, showed Baron's Pride was the Messrs. Miter him. The champion stallion Mertoun. He has grown into two-year-old colt or an is sure to attract the idea of a Canadian hig horse, named The Mint 11213 , is this heavy being shipped by Mr. James Picken, Toirs, Kirk This horse should please the new clamor for his

\section*{An Uncommon Cow.}
owned by Mr. H. W. Sharp, of Oak Lake, heifer


PITOTR, COUPAR-ANGUS, NORTH BRITAIN
Just to the right of the castls ruin in seen a very old holly-tree under which Claverhouse tied
his horse on his way to the batule of Kilicrankie.

Snap-shots of Brit sh Agriculture. ture has practices, some of which may
be adopted in Cañbe adopted in Cant might be mentione specitically, be au s as yet comparative
ly little is known re ly little is known re
garding them by the Garding them by th These practices are employees, in and the insuring o his employer.
nowadays one of it nowadays one of the
means by which the triust, capitalist

\section*{Soft Corn Gives Good Results.}

There has been much difference of opinion among stockmen concerning the feeding value of 1902 corn, caused by the early September frost of and Holden, of the Iowa Agricultural College issued a report showing the chemical analysis of soft corn, and discussing the feeding value of the same. They claimed that on a dry matter basis it was equal to mature corn for feeding purposes. On account of the large amount of moisture pressults. At that have to be fed to get good repartment cominenced a practical feeding experiment to test the same. Sixteen steers of uniform breeding and quality were divided into two lots of eight each. One was fed on mature corn, grown in 1900, and the other on the soft corn of 1902. These steers were fed six months, and marketed on April 16th in Chicago. Each lot was sold separately, but the buyers could not see any difference, thus they both brought the same price, \(\$ 0.25\) per hundred, within 15 cents of the top of a dull, slow market. The results of the slaughter test showed the soft corn lot to kill out 60.8 per cent, dressed meat. The mature niade by the lots were practically the same and the number of pounds of corn required to produce one pound of gain was almost the same, being slightly in favor of the mature corn. Valuing the mature corn at 55 cents per bushel, and the soft corn at 30 cents per bushel, there was a difcost of producing one pound of gain, in favor of the cattle fed on soft corn. Full details of this experiment wall be issued in bulletin form at an early date.

\section*{The Dairy Steer.}

Every now and then somebody bobs up with a dairy steer that does something wonderful, acnever fed a steer in his and then some editor who sion that dairy cattle are all richt as beef producers. If you ever see anything of this kind label it nonsense, and let it go at that; or if you want to learn a valuable lesson get some of these steers, put some high-priced corn into them and earn it. There should be no dairy-bred steer the should go onto the veal market at an early age.- National Stockman.
Now if the above be true, the following state ment is true by the same natural law heeis (dual purpose) heifer that does somethin wonderful, according to his account and then III. edlitor who never milked a heifer in all his jumps to the conclusion that beef cattle (dual ©e) are all right as dairy producers. If you mything of this kind, label it nonsense, arid lesson, get some of these heifers and put "high-nriced dairy feed into them and learn. 1. should be no beef-bred heifers for dairy said editors. What is sance for the steer te for his sister, the heifer--[Ifoard's fairy-

Peel County subscriber writes: Please ac Mo thanks for the series of articles heing "read them with pleasure and profit.
ployer seeks to disarm the employee, and prevent strikes, by making the employee an interested of strikes is not the end in view whe prevention ticed in Britain the end in where it is prac paying procedure. skilled and "interested" labo will at once make evident the wisdom of such and the raising in better care of the live-stock, by increasing the percentage, not of buch stock, but of animals reaching the weaning period maturity or any desired end.
In America we occasionally hear of one form the profit-sharing, the giving of a percentage
At Lord Roseberry's home farm at Dalmeny it was first introduced into the stud of Larce Whites (Yorkshires), now so well and favorably is now in Canada. The pigman (or swineherd) every pig weaned aver four in sixy cents) for litter. As a result the profits to the estate have swelled, the number of pigs at the weaning time has increased largely, and sows, instead of raising Iour or five, now bring seven to ten to weaning tention of the farm manar in now the in to extend this system to the sheen and othe live-stock branches of the establishment.
All successful stockmen know that one of the most profitable investments they caru make is a time of the expulsion of the voung. Help is frequently needed to facilitate the entrance of the young pig, lamb, calf or foal into the world, and when there it is often necessary to take measures to prevent its being either chilled or crushed. done, the existence of properly constituted ioint stock companies rendering the practice both feasi ble and satisfactory. The expense for such insurance is naturally high, the rate averaging from seven to ten per cent. of the stock insured. Several strong companies are in the field that inagainst the risks of castration, stallions and other live stock. The work is done on a businesslike basis, everyone knows what he has to pay and when to pay it, and is not bothered by an makes his payments is, on having a loss left unpaid because his dishonest, or, perhaps, thriftless, neighbor neglects to pay his assessment, a duty he never intended to fulfi, ohliged to hear an oxtra cost.
Owing t. workings of the tho ployers' Liability Act, the farmer now insure his emplovees ag a i nst acciden
when working for when work implements mulcted in a couple of hundred pound
\((\$ 1,000)\) for death of a herdsman or twenty to fifty or's broken lep anderd be hard line indeed on the farmin such a derressed
state His anxiet, or his employeres
athet is relieved by
the pasment of

\footnotetext{
omparatively smal
}
ee to the insurance company, who takes loss in a suit for damages, by means aforesail In the face of all such hindrances, and po the British farmer will it passes belief how the British farmer will persist in paying re thousands of dollars many cases amounting little more energy and courage, he could, if satisfied, leave the comfortable tirnsiduc, the satisquality of spirits, the horde of servants, and the patronage of an aristocracy, and exchange for and provide a bigrer fuich he could make money for his family. The Canadian West can offer hin fust as good a brand of civilization, and for the Southern farmer, a better system of education Chan can be got in England; besides, he would be well as free from the toadyistic tuft-huntins, as clivities so much in evidence in the tight little isle!
INTER PRIMOS.

\section*{Show-vard Swine}
gone such rem gone such remarkable changes within the pas pigs. Strange ring. they have never cissitudes of the show strikingly than in the of the the humble member of the porcine exhibition of time in the seventies nothing would pless one average breeder and feeder of high-class pigs but hat the animals capable of taking prizes should quare the primary qualification of an excessive sions, the fads of the show-ring other occa worked the undoing of breeders. The type of hat was most prominent at that time was the ardy pig, and had a lew breeders not made ice the the prevailing pracorecast how far the fancies been dificult might have led pig-breeders astray
It is doubtful if with all its defects the showard as ever more pral than it is to-day observe points which ency among breeders to and not to lose sight of them ander demands this is the case there need be little fear that the nfluence of the show-yard will be other than helpul to breeders. It is undoubtedly of the utmos order should be most carefully of the pure-bre act should never be overlooked that nure-bred pigs are but a percentage, and a small percentage of the total pig population of the country. It ost be rewhered, however, that the influenc of the pure-bred herds far beyond the confines breeding cannot exist on any well-defined besi without a pure-bred sire ; in fact, it is pedigree tock-breeding which renders cross-breeding so profitable. There are numerous types of pigs in et in certain districts the classed as pure-bred and uniform type, which might qualify them for the appellation of a breed.
It is eminently desirable that they should b able as rent they have proved extremely valuthey have for many cenerations been bred that fistrict has acclimatized them and renders them doubly valuable to the farmers of that district Half the value of pure breeding would be los were every farmer a breeder of pure-bred stock, advantage they offer for cross-breeding The best cross is generally regarded as a first cross be tween two pure breeds, but the large number of
very useful sows of no particular breeding

he camping grond of the anti-embargo





\section*{Sheep versus Hogs.}

Campbell, of Victorin Contributed by Mr. Johr Watchman-Warder, of I.indsay, he says in part: profits-after all the most important comparative reckoning. It is not the amount of cash of the that tells how much profit there is in the trance tion. It is the difference between the expenditure or cost and the returns that shows the profit, and not the dollars in hand, be they ever so many At the present bacon hogs are supposed by many probably by the majority, to be the most money making animals on the farm; and it would be industry which has greatly increased the market values of the grains, roots, same time retains on the farm as manure a large
percentage of the feed and percentage of the feed consumed.
must not forget that there for all, we must not forget that there is not another line of
animal production on our farms which is so animal production on our farms which is so
directly expensive as raising the bacon hog. Why, as a successful grower was heard to say recently, True, the returns are good noyv, and have been or years, and profit-a great deal of it too-has But for all that, I will venture to state that, en-months -old lamb at \(\$ 5.50\) per 100 the fat weight, than in the bacon hog at \(\$ 6.25\), the curpare the \(\$ 5.50\) per 100 lamb with the \(\$ 480\) wer
pata 100 fat bullock, the profit in wroducing the per in thic least double. An expert feeder, well known in this county as one who has made plenty of money, mostly by fattening stock, was heard to 100 pounds of lamb could be produced experience, lar less cost than a 100 pounds of beef. And who will be bold enough to dispute the assertion that, no animal on the farm feed and losses, there is brought so much clear profit to the average has tario farmer as sheep, during the past ten years ? And what vast improvement may be made if the been given the production same attention as has 1898? No other industry has had such th since calculation and preparation given to it as the growing of the kind of hog suitable for the marks on the Ontario farm. The elaborate pigber, and the disappearance of burloy from nummarket, all go to show that the production of the bacon hog is a great industry. What are the results? In reply, it is easy to find them, and loads by the hundred, of uniform and buyer. Car quality, are forwarded week by week ; and that is just what is lacking in the sheep busihess. Iack of quality, uniformity and sameness in type hindealer when he exposes of proper value by the old and young ewes, discarded rams and lat of not castrated. Really, if it was the main object. accomplish that end more rapidly and theroughly would aim at getting on the market a firstelw article in the condition called for by said centers s now done in the producing of the business a the time would soon colne when Canadian mutton
would would stand high in thon and foreign markets.

An ladependent Line


 Galgary Stock-yards.

\section*{HORSES}

\section*{Mare at Foaling}

\section*{mlucky to watch a mare during parturition it} we have no faith in luck, and think that there watched Whould be closely alone: in nine ceses all right." We will percentage as this, extraneous interference is no necessary, but claim that for the sake is not enth case it pays to watch all. Unless in cases where parturition takes place late in the season re mare is in the stable, and we take it for able box stall, which should a roomy, comfortwell ventilated, and well bedded with cealy clean, Some mares, esferially highly bred clean litter. mals, become excited if any person is presen anisuch cases the attendant should keep out of sigh but at the same time be able to of sight, mare. The attendant should be a reliable the and the more he understands about the phenoman, inout to take place the better. He should not interfere too soon, but when he decides that in ferlerence is necessary, that natural laws and ences are not able to complete the act, he should if his knew astertain what prevents delivery, and im to enable nature to complete wrong, and thereby assist promptly, but if the complications should do so skill, he should at once send fore beyond his ance. In many cases the life expert assistcotus, or both, is iost, when slight and skillen instance. Theur have saved one or both. Fo wall that delivery is imposible so ctose to the position the colt is very liable to perish. If the position of the mare, by he will change many fuetal membranes are takes place quickly, and the the foetus will quickly suffocte intact, in which cas ruptured. Instinct teaches the dam they be not them with her teeth, but we notice, in most cases livery, and in the ftill for a few minutes after de perishes, while if an attendant the young animal cut the membranes with his knife present he can foetus. In such cases, and often when the the and here required. The cord should be tied with attant are cut off abobut an inch below the abdomen ang, previous ant an inch below that. As stated and parts with a cood in good practice to dress the mate, 1 part, to 500 parts of as corrosive subliafterwards, until the parts heal , and frequently trance navel or joint ill, which is due to the pre ing. Then, again, there may the some maternof the ectify, or in case the attendant may remove or ofure skilled assistance in time to save the may with the foal, and if no merson may be vicious Gestroy it, while the interference of the may "ill pievent this, and probably be the attendant of her natural maternal duties the performance other reasons we consider sufficient to induce aring partypition.
ATTENTION TO DAM AND OFFSPRING IMMF
DATEIY FOLIOWING PARTDR When parturition takes phace in a normal man-
ner, and both dam and fortus are strong pecial care is demanded except to keng. no es-
ahle. exclude from drafts and warm drink and soft food for a give the mare a rectum (the faces contained in the intestines of
we colt at birth are of a tarry tature hlack, and
wisist inl lumps: this is called the the wilen finger, and inject a lit tle raw linseed oit
or soap, water. This shomld be done occasionThe until the meconeum is all passed, which can-
mucus from eyes and mouth, see that all ex-
ternal openings are pervious, rub well with or wisps of straw, unless the dam is attentive and licks it freely; he should help it to its feet This assist it to stand and take nourishment is able to rise and hel least every hour, until it icious and will not own the colt, sprinkline be attle salt or meal over the colt will sometimes ing the colt with to it. Sprinkling or spray the same on with brandy, and rubbing some of often given good results. In other cases the has plication of a twitch to the mother during apime the foal is taking nourishment for a few times will succeed. In cases where all plans fail,
or where the dam dies or has no must be reared by hand. For this purne the colt milk is usually used; the milk from a freshly alved cow is preferable when it can be hat diluted with water, in the given, it should be parts milk to normal temperature of milk, about given at the a little brown sugar should be added, say a des, sertspoonful for each meal. This should be given hour for quantities, say one-third of a pint every quantity and the intervals, until three or the meals daily will suffice. As soon as or four oats, but it should be given a little finely-chopped allow too much if tiaken from the first to not quantity should be reduced, and the sugar also reduced. It requires careful cequire raise a colt this way, as each individun but the abo fed according to its peculiarities modifications indicated by the manner in with the , voung animat thrives Of course any shecif disease occurring in either the dam or offspring requires specific treatment

\section*{Look Before You Leap}
purposes the mares that are used for breeding could be decired, and the breeding prow al hat simply to increase the horse census, but is "ith the object of securing an animal that approach a little nearer perfection than its parents. In this connection, t.ee is the first broad consideration. All the talk that is in nherged in about type is not the efiervescence of us y-laden brains, hut has its origin and ings ar existence in the observation of such mat out the are all too frequently practiced throughstallion county, the drafty mare to a carriage veed,", or the big, rangy road mare to a "flashy rommon order to get a little speed, being quite ance practices. A disregard of the imporbreeding rortance a proper appreciation of its imOf no less int to impravement. coundness sportance in breeding than type is etc., are not always directly transmitted blindness, offspring, but the tendencies to these weaknesses are as surely found in the colt of such affected ooundness is any of the normal peculiarities. either stallion or mare thicance in breeding that absolutely sound had better not be passed as The possibility of getting a sound eolt in all a parent is exceedingly problematic from such sound horses are plentiful enough. A farmer not adept at detecting such deficiencies in stallions might do well to ask his veterinarian's advice be fore breeding.
the third consideration before finally mating attain the mavin In all classes the object is class Big draft, big carriage, big driving should not be wanted, but size and substance There is a difference between excessive fatness, the " that requires the exercise of the and fat in "irmmess matter" to detect. There is a certnin hors. of good substances that appoals to the a and the tolloh. Its exact characterls as conpared the thastic muscles of the neck with the form on the rit of a highly-fed horse. A tendency to hould be highly transmitted, and, consequently therefore that size and weight is at once evident

\(\qquad\)
\(\qquad\)

Difficulties in Grading Up common stock with a stallion of some pure bree almost invariably gives good results, if there is
reasonable intelligence exereised in reasonable intelligence exerciscd in mating, with breeding of the mares, the result of the first mating, so satisfactory, and the matings in the disappointing, the offispring of these frequently inferior to the first cross. This is often being features of pure-bred stock breeding one of the the young breeder or the beginner not be discouraging, however, as it indicates the necess of intelfigent and careful mating, and ability in anticipating the to show his individual ings, and also indicates the the certain mat is not gave: ned by cast-i in his book, "Cattle Breeding," illustrates this point. When he was quite a boy he took a heifer the result of a cross of a pure Shorthorn bull and an old brindle cow, and won with her against pure-blooded animals at many of the best shows liable to bring pure-bred stock into peculiarities are careful examination shows that they are, but the degree of prepotency possessed by the male parents, or their power to impress their offspring with their own characteristics, and when properly mected is the greatest force making for improve ent. This power is secured by breeding with e just as great in lerfect specimen. In the pure breeds this bre ing to long concentrated blood lines has been orm, so that cercul selection with regard mated with a mare of nondescript breeding, the ffispring usually bears a close resemblance to the sire in shape, and to a certain degree in other as minor points.
As the work of grading up goes on, the forces that go to determine the characteristics of the ofispring become inore numerous and complicated. istics which he impresses upon his get characteristics which he impresses upon his get. The success or fallure of a breeder will be determined by
the manner in which he blends all these forces At first he knows that if the sire is a reasonably good stock-getter, and the mare of mixed breeding, but of a similar type to the sire, the preor filly. of the latter will insure a fairly good colt it must be remembered that she is one-half pure nu can be expected to have considerable influence upon the offspring, and especially so if she is bred
to a sire that is not remarkably impressive or prepotent. And so on up through the line of improvement, each mating introduces new forces
which must be carefully directed. At the fifth top cross the blood of the mare is supposed to be'thirty-one thirty-seconds pure, or practically pure. To control and direct the latent forces in animals, where the power to imprees the offspring
is equally balanced between sire and dam, requires all the intelligence that the breeder can bring to bear upon the subject, and if occasionshould in no way be a discouragement. they perience and observation will beget an ability to avoid these, and success eventually comes to those who persistently follow a rational course, and a great satisfaction is secured when, after In view, the stock begins to come true to that
type with a considerable uniformity and regularity,

\section*{Barley for Horse Feed.}

\section*{as good feed for horses, but did not state how it} should be usel. Should it be steamed, or would
to to feed it as we do oats Dillsbury, Alta.

\section*{Ans.-Barley, although good horse feed is by} means equal to oats, nor should it at any time constitute the full portion of the animal's grain ration.
Stosned barley makes a splendid addition to the bill Stomed barley makes a splendid addition to the bill
if fore for our noble friend, if fed, say two or three Wo for our noble friend, if fed, say two or three
a week, as his evening meal. The best way of
ati uncooked barley to the horse is to have it a week, as his evening meal. The best way of
ald, uncooked barley to the horse is to have it merely flattened between iron rollers. that is, merely flattened between iron rollers.
both palatable and acceptable. However, it
ely be fed whole where the horse's teeth are ely be fed whole where the horse's theeth are
Ground barley, when mixel with the sallia.

FARM

\section*{Grow Corn.}

\section*{More and more as the years go} ers learning to ampreriate the go by are farm tious. And it is cheap, palatable and nutri so generously to good treatment and vields so most profitable fodder beyond comparison the Preserved in the silo it is an uneal on the farm. of satisfaction in the feeding of either beef dairy cattle, and to some extent in the feeding of tity tran is of stock. If stored in greater quan an excellent purpose in tiding feeding it answers summer, when pastures fail, and when time in some supplementary food beef animals will fail in flesh and dairy cows shrink in their milk flow. cultivation while voung and the weeds checked by will flourich so luxuriantly in dry, no farm crop as corn. It loves and revels in a hot time, gaining strength and storing up sweetness and nutrito mature other crops wilt and wither and fail crop, if well cultivated, does not reguire a paying soil, it will pay well in added yield for all the certility placed within its reach. The preparais so plain and simple cultivation of the crop though a novice in its culture, need not err therein.

\author{
Aall, if it is rich enough to wroduce a plowed in the
}

duntagit, vol. 25, c s. ib. ydesdale stallion. Foaled June 28, 1900. Weight, 1,800 pound

\section*{The Soiling Crops}

There are still a few things that we cannot af the mercy of drouth. 'Scarcely a district in Can regardless of the weather, and to insure ach yea of green fodder, that is so essential to the stock airy and bach industries, we must hate a cerperhaps the most commonly fot and cats are this is done the corn is then ready, and furnicher succulent food until about the beginniner of september. These two crops tide us over the driest June pasture is ready is frequently felt before the clieve this shortage, alfalfa and early fall. To ably adapted. An alfalfa plot is frequently fit筑 tober until the snow rets the beginning of Ocof forage. These two crops are hardy, easily cecommend immense yielders, and we cannot sired to their use too strongly where it is desired to carry a large number of any class of
stock on a comparatively limited

\section*{Prevent Fallow Land Baking.}
neessity upon the farm. Scarcity of labor, in festation of weeds, need of drainage, etc., may in this day of intensive farming. Generally the other spring on the fallow is a plowing after other spring work has been done. On heavy clay hard that plowing is an actual hardship. come the difficulty is to cultivate the sur face with a disk cultivator, as early spring, before the long hot days have caused the evaporation of moisture
from and consequent baking of the so il The effects of this cultivation are not that has beek. Land that has become
settled by the action f the winter weather is in the
best possible shape for the movement of soil moisture, and
this movement moisture is always toward the point of point. In the warm dry days of early summer the surface is that point, for
from it water is from it water is
continually evaporating, and this of moisture results in the exces \(\mathrm{s} i \mathrm{iv}\) e The remedy ing so frevating to start and destroy weed growth culti- the checking of the evaporation of moisture, manured during winter or spring by spreading short manure on the surface, it may require only is lore cultivation before planting, but if manure it, and shallow cultivation after plowing to cover sary. A clover sod, or even an may be necesplowed and the surface well worked, will generally give a good crop of corm, and even stubble land plowed in the spring, if well manured and Plan to sow about the middle of good results. tions are favorable. If a dash of rain condiafter the land is prepared and before planting, "ait till the surface dries and rework the ground three and a half feet apart, using about one to to will grow sound seed per acre, of a variety that
wing and mature early in your disirict. Many successful growers claim larger yieflds and thote iully developed ears from plant-
ing in hills three and a half feet each way and ing in hills threer and a halt feet each way, and a marker drawn by a horse or horses is used. hand-planter, two or thre inches from the intersertion of lines to avoid the guitter. The harrow Hants appear, this destroyinge joust hefore the
 Fowine may lo. repeated with rrobit once or twice monleathly dup "hile plants ine soung but,
\(\qquad\)

THE FARMER'S ADVOCATE
 When the ihant wed encouragement, is a the stire
ring with the hand cultivator or too.

\section*{Potato Cultare}

Srunswick, Maive, before the Farners Institute in
\(\qquad\) million bushels of potatoes at an average price of 65 cents per bushel, or about four millions of dollare ave bought those same farms tarms last year would of that season

\author{
of oure many reasons why potato-growing in this
}

These reasons are : First, that be proftable. potato-producing States which most seriously invade ery littles (viz., N. Y. and Mich.) have sprayed but Second, nearness to market, which means less Treight, besides a growing home demand.
hird, because 1 believe we can raise as large that on commercial fertilizer alone a yield of from per acre can manded I will try and give you my methods, showing how The depth of and we will first take up plowing. condition, a clover sod of two years' standing not sod of twenty yenrs' as deep as an old twitch grass mer to rot down, and would eight to ten fnches deep. Fall plowing plowed from as the action of the frost will help break down and of fall plowing is that in land brovent point in favo will get settled down together, which is bren the sod the spring, acts as a drain, drying out the soil quickly. May 12 th and 20th planting in our State is between protecting from bugs and blight it can be carried into June, and get good crops, but not as good usually
as those planted between the dates named harrowing should begin as early as named; but the field should be gone over from seven to ten times on possible, and if they should extend over a a few weeks'
time all the better Time all the better.
We now come to the selection oi seed. It is befter
to use nothing but smiooth, sound potatoes, not too
 way). You will find a potato about the size of a
hen's egg, or a little larger, to be, all things considered, the best. A man planting only an acre or
two does not consider the labor of much consequenco, but with the of cutting the seed
Ing ten acres or over it ing ten acres or over it beommes a matter of impor-
tance ; but with a medium-sized potato the labor potato, cut the stem end mifed. Picking up such a length, of the tuber, split the remaining two-thirds. beginning at the seed end. This gtves three pieces of eyes to each piece.
have to rive one cutting saves (owe, as you will only up to be sure you cut the stem end off first, and such seed will work much better in a planter than if cut in
all shapes and all shapes and sizes. As it is not desirable to cut
seect much before the planting. the saving of time in cutting is of value. planting, the saving of tipe in How thickly this seed is to be used in the drill
depends something on the fertlility of the naturally rich soil could handerte more oseed than a soil. A poor
soil. soil. With me, I plant about fourteen inches aport
in the row, and rows three feet apart. I Ithink this about right for lows three feet apart. I think this
fertilized for fiftemntor has not been plowed or \({ }_{a}\) h half ton of hay per acre.


take the horse hoe or shovel plow and bury them
right up, not too deep, but deep ellough to cover right up, not too deep, but deep enough ito cover any
little weed and a good part of the twitch grass. This
will leave your fold Nill leave your field just as free from weeds as whe potato or thistle will readily force its way up again
through a few inche through a few inches of loose dirt, but all small weeds and
a good part of the twitch grass will keep the cultivator going until the will be killed, but or eighteen inches high. When they are from six to eight inches high, spade or hoe them up again, throw rows. If this work ha meet along the top of the not need to be any work with properly done there wil by that method from between the hills to be cut ou

Caleb Jinkins: His Letter. To the edditer of the farmers Advocat
deer shr,-You wil see by the abuv thet i haint in the prat

and i set down to es i spose fue lines like to heer how things is up this
way and how the farmers is gittin along and so 4 th.
Wel \(i\) kin state rite hear that Mantobey is goin ahed es the
feller sed like house a fire and the regler good. its a fokes is poring in to the grate west. Wen fokes tin acomodashin in the cars quite a time of it giton the rode to pay littil vissits and sum places go on agin it most ginerly wus so thet i coodin git a seet in the cars or git jes bout enuff raom one trane my thum es you mite say. Thay is oney one trane goin west each day acordin to the time hes seven seckshins it in seckshins sum dase it watin fer seckshin seven to thay haint no use like to be es crowded es all the rest. One part full up with fokes frum round Mount forest way

the whin roun snoozin ever shape and form it wus bout 4 oclock in the mornin but afore long fest reddy, \& i must say thay wus a frenly 10 a fick nick hevin a good time like thay wus on to chuck full of peepel frum the ole Kentry and ine lot of promisin settlers i took em to be \& rants. other tranes wus loded with forren imian luts of noo setelers but \(i\) haint so fond of cepel livin of Ontareo \& i dont see no ite fer foreners and ole Kentry fokes



soring is brakin and the flocks of wile reese \& duck is nyin thro the air es tho thay wus stray tale and barns and kites and the sun shinin on farm a big umbrell and the air wis the bloo sky like kin be, it gins me a feelin of settin down es ai fotery \& i kin oney say this is Gods kentry fer it hes a meny yeers afor yung felers whitch is cums. i unstan thet the quick es thay git hear \& if it in gits work e haint allus to be blamed on the emigrants. \(i\) it met a cuppel of yung men today whitch wus englishmen to look fer a noo job. thay wus up the job thay had fer good reesins
 armefer 18 dolers a munth \& borde but the ole skin flint
ixpekted em to work frum five in tork nite so thay quit The guvermint is acomedate the crouds het is cumin in, and
handlin the bisness hings is bissy as hive good shape. Tho the fokes in Mantobey hes time fer up the kentry campane is now agoin on hammer \& tong \& the this paper haint a pelitikel jernel i wunt fso es in is cuttin septin the say thet the prishin ques o hev nothin to do with both partys dont wan occushnil tho \(i\) dont petend to \({ }^{i}\) reed the pappers Free press thatrel way i git the idee frum the frum the telegrat Roblin is a regler skaliwag and good on eerth, so the Mat Greenway haint no his chise. i stopt off at dryden farmer kin tak sum farm is \& hed At is is the maniger it is a good bit of
kentry along thare \& a grate place fer is gittin The farm rate and makin fus perimints to show what the sile will in the farmers helpa lot. it is quite
 agerculteral kent
along thare and the land is bein took up quite bey hes made a good start at plowin Mantoes the spring this yeer is erly agin and everbuddy is calklatin on anuther big harvist. the grate he ralerodes thay git the crop to markit. With bigger moren half of it and the crop is gittin Guvermint howin at the portashin problem. it wont setteld the transway of lookin at it till thay hev a lot more rale comadashin bilt and run by a comisshin fer the rapid that way \& theepel. Things is movin mus reckleck it is a big kentry and problim you the stile of fokes whitch nose what thall nessesry to worry how to git it. i dont think its doin it worry bout the Grate west \& \(i\) haint myself yurne fer most quit fer this time \& sine

What Will Strike You.
The newcomer may be interested to know that Canada.
That a "bluff" is not a little hill, but a smal That a "'co.
That a "slough" is a wooded ravine.
a slight depression in the
That there are no counties or shires, and that That "prairio named but numbered
eep, but on the land does not grow on prairie
That there are practically no "politics" in the That it only rains in June" in the West. a. where futures in wheculators' "pits" in CanThat backsetting is the secold and sold That cattle easily stray second plowin That there is ing the services of a herdsman.

MAY 1, 1903
How_Plants Feod
ing the soil so that plants said about prerowth, it is seldom that any light is thrown id on the way in which they feed upon the different lements in air and soil.
Take a wheat plant for example, and carefully wash all the soil slowly from its roots without reaking any, and we find very minute, hair-like, white rootlets. Near the end of these the plant exudes, or discharges, an acid similar in characer to citric acid, which has the pqwer of dissolving, to a certain extent, mineral plant food, ach as sulphates, phosphates, nitrates, chlorides, potash, ime, magnesia, iron, etc. These salts, hen dissol od, enter the plant by the absorbent whe the pass up and active portions of the stem to
and new-iorming buds.
ne portions of the stems here are minute breathing pores, into which air reely enters and is there decomposed, the carbon ong retain. This the oxygen is thrown back during sunny days, for lighp place required for the prepargh of the new mixth which the plant must have of it mixture,
The carbon which the plant has received from he air, along with the soluble salts which the culating in the form from the soil and sent circulating in the form of sap, co-operate in the drates, much of which is in the form fincose or soluble starch. The same food elements, with a larger proportion of some compound of nitro gen, frequently in the form of salts of nitric acid (nitrates), combine in forming albuminoids. Althe growth of the plant by different proportions of the same food-elements. This mixture is now, through a sort of chemical preparation which took leaf and fiber tissue, and that portion of it which is not required for adding more leaf surface, descends, diffusing assimilated nourishment, thus building up every active organ of the plant. As leaf surface is increased more cells are formed, fulfilling the divine method of preparing food for man and beast.
Plants have, within certain limits, the power of selecting their food ; that is, the rootlets of gredients, and take one part for the building up of its tissue, rejecting the rest.
Part of the plant's food, as we have noted, comes from the atmosphere, and part from the but the soil, with its great variableness, is in a large measure under man's control, so that in the hands of the farmer largely rests the returns for his labors. It should ever be remembered that the full water supply required by the plant must
come from the soil, and that all the food which the plant gets from the soil is drawn in the form of a liquid. This should teach the great necessity of preparing a seed-bed in the most approved

\section*{Michigan Beot Sugar}

\section*{Muchigan, last year, according to Alfred \(H\).} White, instructor in chemical technology at the fourersity of Michigan, produced about threelourths of the sugar it consumed. If the coming season is a favorable one, there will be sugar for crort after satisfying the home demands. Michigan now ranks as the second State in the Union most production of beet sugar ; it producing al tured Californt. of the total amount manufac 36 per cent. of the stands first, producing about ing season in this State is favorable for sugat i)eets, California will lose its supremacy. five sugar industry in the State, which is only the full of 1898 there was only one factory in Operation; now there are sixteen. The total outPut for the season of \(1898-99\) was less than 6 ,-\(152-113\) is estimated at that for the season of \(100,000,000\) pounds. Its Whe given at \(\$ 4,500,000\).
> ins industry

THE FARMER'S ADVOこATE.
DAIRY

\section*{Handling Farm Butter}

When one considers the manner in which a larms to-day, it is not surprising that the morkt price of farm butter is as low as it is. There is no reason why butter made on the farm should not be of as good favor as the creamery article Of course it could not be expected to be of as good keeping quality as creamery butter properly farm dairy butter is well made and bept the temperature, it should reach the consumer in good condition, and command a higher price than As flavor
As flavor is the most important quality in butimprove our product. When the flavor is not of the best, it is usually caused from the improper care of the cream; but if the flavor of the cream the butter recoives after it is gathered handling by any means improve its favor Now, how is farm butter usually handled? We lumps, lifted into very often gathered into large lumps, lifted into a butter bowl containing cold move the buttermilk. After this the salt is worked in with the same utensil, and the butter is put aside until the next day, when it is reworked. When the butter is gathered in large it cannot be properly done and the ahshing it, broken to a greater or less extent; consequently we see the importance of having it in a granula form; there is less buttermilk imprisoned in the butter, and the washing can be thoroughly and easily done without spoiling the grain.
The second working is necessary whe
added as described above : but the bult should not be allowed to remain in the butter bowl for such a length of time, for the bowl will certainly become rancid, especially so if usually
washed in lukewarm dishwater, and the butter washed in lukewarm dishwater, and the butter sult of the close contact for so long a time. and the results of the butter is so much easier milk is drawn off when the butter is in butter size of wheat, using a strainer to catch any particles of butter; and in washing it, to pour in plenty of water, revolving swiftly ten or twelv times to prevent massing. After draining well best advantage in the churn. Sprinkle over one Sprinkle over one the butter over by tilting the churn add the remainder o
the salt, and revolve the churn a fove times so as to thor oughly mingle th salt and grains o be allowed to stand for fifteen or twent minutes, after which the churn should be
slowly revolved un Slowly revolved un
til the butter is gathered into lump the size of beet \(s\) It can then be taken ly worked if desired but it is best \(t\). allow it to stand so as or four hours salt plenty of time to dissolve, especial salt has been used. way the treated this quires very litt 10 working to thor
oughly distribut
Imported Shire stallion. Foalcd in 1858. Stands \(17 \frac{1}{3}\) hands high. property ons. stands hands high. Weighs 2,000 pound

Salting Butter.
What is the best way to salt butter? If with brine, what strength should it be? How Tong should butter be left in the brine? We like it salty.
Sidney, B. C. Ans.-The best buttermakers have now abandoned the brine system of preserving butter. The plan fol-
lowed in first-class butter factorjes and in the hom dairy department of our dairy schools is to drain of heen formed the sink as granules of butter has been formed the size of wheat grains, then wash once churn and again washed, after which it is weighed, and from three-quarters to one ounce of dairy salt is added for
every pound of butter. When this has been well
worked in fears Worked in no fears may be entertainell as to the keep-
ing quality of the butter under ordinary favorable ing quality of the butter under ordinary favorable
conditions. Where a salty butter is destred, the quan-
tity of salt mentioned nay be increased slightly
the salt, there tre danger of mottles by and streaks, which hre cansed by the sult not being evenly should be done by pressure only, too worten thi operation is simply a sliding motion, which breaks Wh the grain and gives it a greasy appearance
Butter which is to be held for even a day be fore leing sent to the consumer, should be held at a very low temperature. helon freeving if pos-
iblle. Butter is the hast exhamstive of the products of thr farm. It removes none of the elements of
fertility from the land. It is from twelve to
firt tion promben. hater, and the rest is a combinaDlentimu of elements. Butter-fat is a by-product in the conversion of fodder into manire, and as

THE FARMERS AIVOCATE.
Spring Conditions.
The markets of Camadia and (ireat liritain. proceeds from the sale of the 1902 product aggreincrease over 1901 was 197,000. The market for this year opened earlier, and the prospects are is the demand in the Old Country. For some reason or other there seems to be a shortage there, due most probably to a falling off in Australia and New Zealand shipments, and in a
small way to the inclination of other dairy coun\(t_{1}\) ies to manufacture butter. Judging from present indications the demand for cheese will presabate during this season, and the fortunes of those in the business may be said to be at flood-
tide.
Canadian butter is not in so enviable a posi-
ion. While efforts have not heen the trade on a firm basis by improving the quality and the shipping facilities, the demand in foreign markets is still small. The following firms to the Canadian Government illustratesting position our butter holds in that market: - Insist on having all the rooms i creamery thoroughly lime-washed every spring and also to improve the railway transit by lowerespecially those from Western Ontario the seaport, ter should be three days in cold storage the butport of shipment before being put on the vessel. The shipping companies should reject all butter above \(40^{\circ}\) Fahr. When presented for shipment, and never exceed \(20^{\circ}\) Fahr. The universal experience is towards zero. The boxes ought to be made of thicker wood, say three-quarter inch, and made as strong as Australian and New Zealand. The the box waxed inside as at present The and table parchment should be genuine, not imitation stuff as the large bulk of it was last season. In the best parchment should showing that not only improvement to use it double. In the it is an moisture, the driest butters keep best and bring the highest prices. In color, taste is growing in sary for pater butter. Preservatives are necesbe taken to use only those preservative should have boracic acid and borax for their base. British law allows the use of a half per cent. of boracic acid, which quantity is perfectly innozuous to the health of the most delicate person, if it is
not even beneficial."

\section*{POULTRY}

\section*{Sour Milk for Chickens}

On a great many farms at certain times of the not weather, before it is utilized, sometimes becomes sour. As a rule, when this takes place it outlet will be found if sour millk is fore source of try. Iractically, the pig at the present to poulis the only alternative which some farmers cont sider they have open for the use of sour milk. returned, or if by any mischaring transit and is through neglect, it is a great advantage to sour in what way it may be profitably utilized. What is the effect of sour milk on the bird's system? kept in good order. Very seldon of the bird are found where order. Very seldom is liver distase sweet milk has not the same contimued fed on tion of its food as a bird fed on sour milk. Apparently, the lactic acid in the milk has valuable
properties which are properties which are not apparent in fresh milk. an extensive scale will find the chicken rearing on ing a little milk for use, and the farmer need
never be at a loss as to how to utilize his sum milk if he fatte \(\qquad\)
Poultry Yards Now


\section*{The Sitting Hen.}

The first essential in raising chickens and the next is fresh, fertile eggs. It is almen, a veraste of time trying to raise chickens with the she we Leghorn mother. She suddenly thinks stands up sit, is given eggs, gets haughty and excited and impatient herself and the eggs, gets disgusted. The sitting business is tos the nest, to nervous, strenuous life, so she gets right dow class of wark. She belongs to the short-hour lacks stick-to-it-iveness ants her evenings off. She sitting hen : one in whose life throbs the set is a instinct; one that will try and give life toaternal Rockina. Wyandotte and are found in the Plymouth larger breeds are also goods sitters, but are
clumsy with the raise chickens set a medium-sized Therefore, to (we can admit the superiority of the dual purpos standard in farm poultry) hen on eggs that sod under her, just as good hatches are to put a the hay-mow as from the ground, nor to sprinkle insect powder in the with water, but dust a little give from disturbance by other hens, etc., and must coine off water daily in a place where she the ninth day by holding them up to the eggs on any are clear and transparent they can be taken away; they are infertile. Giving the hen these iair conditions she will give a good account of
herself in competition with the machine hatcher.

\section*{How and What to Feed Chicks}
time at least is quite as important as feed for given at daybreak, then a little evenit should bo warm night. They should be kept clean, dry and When the chick is 24 hours old it shof them. its first meal, and hard-boiled eggs, mashed ver fine, shell and all, mixed with a like proportion for the first three days. For the form its diet bread soaked in milk and squeezed fex days feeding can be given alternately with the egg diet At this time broken oatmeal, cracked wheat and that gives can be added to the list. A mixture bran, corn meal and middlings, one-third from add just a little flour, some eggs that each, hatch, yet are clean, and milk, mix this into a
batter and bake as you would corn bread, then batter and bake as you would corn bread, then when cold crumble it for the chicks; it is better
than a mash. A little sand or grit of some kind should be provided. If these directions are fol-

> GARDEN AND ORCHARD

\section*{The Strawberry Patch}
> the winter, unless the covering is very thin, it is leaves will be white covering on too long as the jury when it is removed. If the ratch is cle intween the weows, the coveling may be raked bemoisture and keep the fruit cleam to hold the vent the berries from being sanded during will pre-rain-storms. Pea-straw machine threshed, is about the best inaterial for mulching, and a good
thick covering of it hetween dry hot season, prolong the season rows will, in a enlarge the size of the fruit. There is and to which moisture is so essential as the strawthan any other, and one of the chief problems it Where iry culture is the supply of moisture nulch between the rows is the next best thic crowers now aim at producing only oni thin to clean the old ones, and in most cases this ". Whick the first year, and are pretty clean . kood serond crop may be grown; but the life (1.) Want is short, and those that remain after
- first fruiting, by the time they come to the what sear the root has become a black bull

\section*{Frinit Tran Records}
he crop entral Experimental Farm, Ottan corded every year. One is individual tree is re the end of a series of years how much to tell at has borne. The yields for the past each tree were recently tabulated, and great variar were found in the total yields of trees of same variety planted at the same time on the ing under practically the same conditions
ole vielded the sane \(30^{0}\) bushels, while another planted at ditions yielded and under practically the same con dif as onfy 1-16 bushels, or less than One tree of Patten's Greening yielded 17 1-16 bushets buskers than one-fourth as much. while another of the same yielded 47 th gallons gallons.
xeriments are now being conducted at the from productive an top-grating with scions mine how far tha unproductive trees, io detertivelless of the trees is consteness and unproduc ity of trees has long been noti. the individual lave been published to notica, but few iggures. obtai..ed at the Farm

If scions from productive trees will
o productive trees when prees will develop in from unproductive trees will produce trees which are poor croppers, it is very important that scions should be taken from thie best yielding In order that fruit-growers moy knowledge of the great variations in more rees of the same variety planted at the of start and under the same conditions, we desire to On application to the Horticulturist, Central bealing six consecutive numbers with of yinc, attached, will be sent to each person. These to six bearing trees of a single sarid be attached pear, plum, or peach, the trees variety of apple, and growing under the same conditions of age be writien The yield from each tree should fruit is harvested pencl on the zinc when the windfalls, and the windfalls should include the of pich as such on the zinc labels. The quid be fruit. If iruit should also be marked 'as icked to record the not convenient for the fruit-grower of zinc as suggested, he may record them in the When convenient later in for the year should be entered in a notebook the number of the tree being entered so that the yields from each tree may be kept separate. The it has been fully demonstrated be recorded until is not more productive than another tree is or is asked of the experimenter is to report the yield culturist, Centriaual tree each year to the HortiAs ografting will in all probarm, Ottawa. near future, the importang fruit-growers in the the widely in productiveness is easily that trees scion, as has been is continued in the grafted menters, it is most important that scions experi he takien from the most productive trees bearing er finest frnit. W. T. MACOUN Horticulturist

\section*{How to Water Plants}
is usually unnecessacting labor, and yet half of mirecessury are two: the soil is so shallowly it is we waste the moots do not strike deep enough come hard, thereby setting up canill soil to befion with the atmosphere and letting the water Sescape Se how moist the sotiling in in water
Mulh it so that the moisture will not evaporate. Minch it so that the moisture will not evaporate.
imuse ith a garden rake, by keeping the soil touse amd "ry on top. This loose, dry soil is
the thilth. There will be the moisture Nath Ne water rather than add it. Then "he" son do have to water the plants, go at it
:t is won meant it. Wet the soil clear through :s if son meant it. Wet the soil clear through.
Wet if int Mnsk in in cloudy weather. Before the hot sim stikike it renew your mulch, or supply a minkling than by drouth. Bear in spoiled by atering is ouly a special practice in mind that

\section*{Adultorated Copper Sulphate}

\section*{sulphate to use in making Bordeaux mixtur of} experimental orchard at the School of Horticulture stead of the brilliant blue which was found that in has, the material was a pale, sickly greenish blue We suspected immediately that it was not pure, so we that it was more than half copveras or iron er and been bought from one of our most reliable dealers and, on consulting him, we found that he had imported adulterated articles. Fortunately, we were first buy any of it, and the dealer, being put upon his his English firm, and will sell, no more of this bogu copper sulphate.
using copper this note to warn orchardists agains the brightest blue. Any greenish cast probably that copperas, and certainly means adulteration, and thoug copperas has a certain fungicidal value, it is weal deaux mixture prepared with this adulterated article according to the usual formula, would certainly be to Lodeman says of copperse
line substance, and when finely " It is a green crystal tain resemblance to granulated copper sulphate a ce as it is much cheaper than the latter, it has been used as a means of adulterating the copper salt. It as a fungicide is very limited. insecticide, and its use Iron is not nearly so
efficient in this respect as copper is, so that the latte is almost invariably preferred excent when the plant Co be treated are dormant. The iron salt may be Iron sulphate (copperas)............ 4 to 8 lbs.

All parts should be thoroughly 1 gallon. solution, but the value of the operation has, in most ases, still to be determined.'
on dormant wood, and recommends one cound to sulphate 15 to 2 gallons of water. This would mean that it would re
quire ninety times quire ninety times as much copperas as copper sul-
phate to be equally effective. aggerated the difference a little, but certainly it would light complexioned.
F. C. SEARS.

Scraps of Gardeming Experience
\(\qquad\) interest, observes its peculiarities, and considers it a requiring food and care as an animal does to bring out the possibilities of the plant, is the person is successful in gardening work. couple of rows will do, to plant new varieties for comparison with those you plant for main crop to see the results obtained by different fertilizers and to create an intèrest in gardening.
ood tomato or much knowledge and skill to grow a Vegetable-growing is not a low-down branch of hortiulture, as many fruit-growers would have us believe. If there are any scales, looking like minute oyster Shells, on your plum or apple trees don't delay. cales are few and beginned, cut them off. If the crush in diluted carbolic acid to spread, dip a small Hot lime wash is also good. Though not as dangerons black-knot, it is a serious pest.
1 find winter squash planted with early cabbage I find winter squash planted with early cabbage
o be an excellent combination, As the cabbage are ut and sold, the vines take up the room, and instear in large bare patches of ground the green leaves and he catbage. To look at gardening work as a pleasure and not , secure a crop with istule best thing to do in order 1 made a hill of Connecticut pumpkins around muly willow tree last spring. The vines ran up int e and produced fruit among the branches, makilliw, and the vines had to mixed a short, scraggy Wanches it was hard to mixed themselves among consider the Crookneck and Custard squashes cittle value. A summer squash that is as early 1.hse and as good a keeper also is the Delicata.
are very productive, and are marked in a very the manner. They are the driest squash of the keeper, I have a quantity yet (March 1st) in larbleheads by rotting. This quality alone enit to a place in every garden, and should be
hishly appreciated by the gardener who wishes to experificice

THE FARMER'S ADVOCATE

\section*{Orchard Meetings}
ment of Aruit Division of the Dominion lepart Provincial holding of practical o-operating with the strate meetings to denon spraying. In oncts as pruning, graiting anc held under the auspices of the Farmers' Institutes


REV. ISAAC M. BARR
of the famous "Barr Colony" in the
From a photo taken a few years ago.
Meisrs. McNeill, Lick and Carey, Dominion Fruit nspectors, each accompanied a delegation speakers at a series of meetings lasting about and, as stated, consisted held in the orchards, demonstration in orchard management practical farmers, who attended in management. The took part freely in the discussions which enser these were usually continued at held in a local hall. In waty erening meetings growers' associations were fonmed, with the fruitof meeting regularly during the season and carry g on similar work amongst themselves.

strowan marchioness
A Shorthorn cow. Winner of many prizes at leading shows, including first at Highland, 19n. bec lepartment of Agriculture will co-operate a leamice soil amd laper applications of maminion Fruit Division are Inspectors of the loDery, of Hemmingford and Montral, respectively. These meetings began on the 20th of April, and rows. It tind this takes liss trouble than blanting the will last until nearly the end of May. \(\quad\) the poles or supports into the center of each circle
at an angle of no dogrees to secrmit of the velines thim
 the same treatment, although a light, sandy soil an
a warm exposure should be given them, as the seaso Scotia. At least, their growth in this part of Nov
Bush not been successful with them feet apart, and well cultivated. Shallow cultivation
is best, and should be carried out at regular intervals is best, and should be carried out at regular intervals,
but not after a rain or when the soil is wet, as rust and mildew are liable to occur. The wax varieties extent of late years, but on account of their hardineat and productiveness, the green-podded sorts should grown more than they are at present. The English Broad bean, while belonging to a different species, ar
similar in their requirements, similar in their requirements, and at one time wer
quite largely grown in this locality, but since the vent of the black apis have been discarded. Now however, that spraying has come to the front, there is no reason why they may not be grown again, for
they are an excellent substitute for the limas where that class of plants will not grow. Golden Cluster Wax and Asparagus Green-podded I can recomuend for pole beans, and whoever plants Early Valentine and Stringless Greenpod, Wardwell's Kidney Wax and Dwar German Wax for bush sorts to use as string beans


\section*{Gooseborrios and Currants.}

The pruning and care of the gooseberry a currant is practically the same. The best soil ing consists in cutting loam. The sipring prunwood. The wood should not be of the oldest nain more than three years without renewal reit becomes weak, and the fruit borne on this old wood will be small and poor in quality. If made a rank growth, it should be renewal has to promote the development of fruit shurtened in best fruit is borne near the base of the one-ycarold shoots, and on short one-year-old spurs from nough for each bush, and eight main stems are quently renewed; superfluous young should be frebe cut away
The gooseberry will require more work in pruning than the currant. Being a more vigorous tion should be shallow, as the roots are Cultivasurface; frequent stirring of the soil with a scuf fler to keep it cool and moist. It is a very good plan to mulch the whole patch, putting it on thick and weeds. This will give better result grass ably in most cases than cultivation, as cultivation is in most cases neglected. The currant is one of the most wholesome fruits, and can be for making jelly, and nothing excels all fruits toothsome than a currant pie. In canning it retains its flavor better than any other fruit. It sprightliness, and the combination is pleasant the taste. It also makes a delicious wine. The cinal properties useful in fevers, etc. have medigrape when well ripened is a fine dessert fruit, and bushes. The rooseberry without a few currant for pies, but its usefulness does not with many beyond this. They are very little used for canning purposes. As a culinary fruit they come

\section*{Hardwood Ashes for Orchards.} Advocate" there is a reference to the uise of in the United States. In a high-class fertilizer of the same issue a New York firm offer to the material as is contained in containing the same being shipped over in immense arantities that are year, and they use this caption : No potash, no
fruit; no phosphoric acid fools we are, and what a great mistake we make of the country when there are thousand of fruit trees in the Province of Ontario starving ply. In must of our towns and rountry villages business of going about collecting the ashes, for a




other valuable element in ashes is phosphoric
arid. It plays a most important part in miniding up wood tissue. This element is usually meal; but it is got in the superphosphate, or bone hardwood ashes. Let our fruit-growers and farmfers wake up and retain this valuable source of

\section*{Radishes and Lettuce.}

My formedre", "Advocato then gantment their statements, it may be interesting and enalized in ing the who have followed the articles publisthed durand in the year for me to specialize somewhat in this I take up radishes and that shall follow. che earliest-maturing crops, coming at a time are Many lack of kple, especially those in the country, from much radishes and lettuce as reason do not get as nave to pay high for such luxuries cousins who farmer does happen to raise a little for his own use in the proper poor seed and does not have the soil are tough condition, so that very often his radishes that he comes to stringy and his lettuce so bitter botherin' with." To grow good radishes, the sit must be deep and in the finest tilth. Unless soil mixed through the soil it condition and thuroughly than good, as the root maggot, the most serious enemy of the radish, is usually present in most serious and, besides, a rank, spindling growth of top mallure, if thoroughy foots is sure to ensue. Poultry rcanure, and superphosphate, wood the best animal manure, are excellent, either with or without fine ground bone soil contains plenty of humus, manure can but if the and fertilizers used instead. Nitrate of boda is the best of the chemical fertilizers for the radish crop quickly, and in order to bood quality, must be grown available fertilizer must be used this effect, a quickly loose, rich loam, but in sandy or clayey sost soil is a not a very satisfactory crop. I usually sow the seeds thinly, in drills from six to twelve Inches apart, as early in the spring as the ground can be worked. The soil rolled to aid germination. The depth and the sown in small quantities at intervals of a week b ten days, so that a continuous supply can be had
throughout the season. An ounce of seed should be sufficient for 100 feet of drill. Ince of seed should
siderable late years, co radishes as a companion crop, that to the sowing in the same drill with larger and later sow the see such as carrots and beets. I have tried this plan, but they are of better quality if sown at for home us piece of thoroughly prepared sown alone on a smat or Early Red for several years are the Rosy Gen small leaves; the French Breakfast, olive shaped Lady Finger, for a long radish, are wood's Frame, well as the Long Scarlet. A few of the large winte radishes can be sown in August and September as second crop. They are quite a curiosity to most
people, and can be put to good use. The prowing of cated, but hotbeds and cold-frames is more complimake a rough box or frame for them old sashes and radishes several weeks earlier than in the open ground, but the sashes need covering at night, the beds need use the hotbed or cold-frame in general, it is better to use the hotbed or cold-frame for the growing of cabless grown on a large scale, are not very profitable as a hotbed crop.
The soil for lettuce, its manner of preparation. fertilizing and seeding differs very little from that re-
quired for successful radish-growing. Drills quired
made a successful radish-growing. Drills can be Thinly therein, or the plants can be started in the sown fed or cold-frame and set at distances of four to ten varijty of lettuce, some of the improved head lettuce nccount can hood lettuce be grown in the litule. patcho ats such as are seen in many a farmer's
arden. (Give it the satie teatment you would a
arnip crop. thinning, cultivating, etc., and, athove all.
 Wh nre the things to be desired in all crops, but dtuce showld be sown tit intervals of two weeks for

Spring Work in Small Fruils.
ion at this time mantation will require atten berries should have the old dead canes remack ome do this in the fall, and perhaps it is easier sol fime for this work late in the fall than But one very good reason for leaving解 ion to them, esnecially which is a great protecthem, especially in the colder sections, reche new canes are oiten severely killed back. ave the plantation sections, it is advisable解 cover it. Some of the snow will pretty hen the snow melts, but the damage is moro an protection of the bearing uits the second of cane is two years: anes must be wear and then dies. These old pruning shears is about the hondiest a pair of purpose, and does very well for raspberry canes but for the blackberries, on account of the thorss, like handy tool is made with a small curved blade four fot blade out of an old file and weld it make the 0
3-8 iron of the right length, turning have been removed hold. After the old canes may be applied at the rate of hardwood ashes indicated whength. This treatment is specially as these where the soil is sandy or sandy loam The rows shoure likely to be deficient in potash weeds, and in doing be cleaned of all grass and well mixed with soil. If the tivs will become are killed back for a few inches by the winter into should be left until the buds are swelling plainly seen. The extent of the injury can be wood. It is best to do this the good, healthy puny and the fruit small on the part injured by aspberifies and blackenent is applicable for both

Spring or Fall Planting of Apple Trees kindly tell me through the "Advocate" what the opinion of applegrowers is in regard to the re apple trees in of spring and fall planting o Eastern and Northe n anso this in regard to What varieties make most in particular? n planting a large orchard would pounting making a specialty of any bind There is a difference of opinion among arple spring planting, but the cive merits of fall and favor of spring planting. The advantages of getting trees late in the fall are that the weather injured by dirying than if shipped in the y to bc the there is more time for planting at this seavo rowth are that the tree makes no oes on late the next spring. Evaporation iried to some during winter. The tree becomes When growth begins as if freshly planted shape good plan, however, to procure trees late it and trunks right up to the branches both roots them on hand then, ready for spring planting and they can be planted quite early. With re spect to varieties, the best plan is to grow the ing it is a good commercial variety. In the St. the most profitable and especially near Montreal Where it sicceeds well, and is kept clean by snow is its worst fault). (It is very sustible to fungous scab, which ductive varieties in cultivation and always in Generally speaking, a commercial orchard If the whole orchard were planted to not nietios. ties, it would be vastly mose of the best variplanted to a dozen. The best winter varieties as Spy, Baldwin and Greening. These could be them on Talman Sweet or Memahon's White. fitable if sou have a the Duchess would be proremery hardy and productite for it. It is exo consult some experienced grower in the localit
eefore planting, who would know what before planting, who would know what varieties

MAY 1, 1903

Co-operation in the Fruit Industry

\section*{By W. A. Mackinnon, Chief of the Fruit}

ORCHARD MANAGEMENT - To Nective. co-operation should begin with the reall ing of the orchard, or rather with the selection mited for the purnosc of of growers who al the product of their orchards should agree in advance to plant only a few of the very best comnercial varieties which succeed well in the soil and climate which is at their disposal CULTIVATION of the orchard should be uniform and thorough, the object being to apply will not do if some of the prowers are ralts. It haphazard while others are giving their orchards rery possible chance to do good work for them PRUNING also is a matter of the first impor tance, and should be thoroughty attended to from he start-all the orchards being pruned on tha ame scientific principles.
SPRAYING must be carefully done and by experienced hands, or it will only lead to discourto possess a power spraying outfit among them, and to make it the business of a couple of men rach year to spray all their orchards in succesThe object of co-operative orchard manage ent should be to secure from all the members the percentage of "culls," which will be a drag the percentage of "culls," which will he a drag have assumed that the members are just beginning to plant, but co-operation can attain at least part of its good results in the case of old able varietes may brofitable varieties, may be gradually pruned into eases, while they may insect and fungous disvation if the circumstances waugh unch culc In many old orchards the first thin such a step. is to remove one tree out of tying to be done in order to admit sufficient light and air to thos. in order to a
GRADING is the most essential step towards successful marketing of fruit. It is particularly true of the British markets that they are continuquality and of large quantities of fruit of one complaint they have to make against shipments from Canada is that they are "irregular." It should, therefore, be the object of a co-operative form grade and variety upon the market. they are in a position to do if all the members will send their fruit to a common packing-house. where it can be impartially graded by experienced
hands. The brand which the association has adopter will soon become well known as being tainly be a demand far greater than the memhers are able to supply.
PACKING of the fruit, when graded, should ments are sent to distant points. When ship hould be tight when commencing their journey and high-elass finct will carry best in boeses, MARERING, if properly woll we the introdnction which a buyer will reguire. It tr and grade, that inspection will never be re stood, unless it is to ascertain how the fruit has include a clear and attractive advertisement for he co-onerative association who are shipping the irnit. I'encils and chalk should not be used for essential marks on any package of fruit; Bither MRKPTiNG is a word which covers tiwn Dreations, namely, those of buying and selling. the fruit of a munher of growers is judi-
distributed in markets where the demand It est, and if accounts are kept by one man-
" all, there is likely to he a great advan-\(2=-\)
 \(2+5\) \(=2=2=\) \(-2\)


THE FARMER'S ADVQCATE


\section*{Foul Brond Inspection.}
 Bsure, seems to have taken my. reference to the Foul
Brood Act, in the April 1 st .. Adrocate,"" as a per-
sonal attack. Nothing was farther in recommending the amendment of the Act, so as
to provide for more sub-inspectors.
 cquate corps of helpers. Waving , Miving himentor in ad
of the twelve ascociation sible a more thorough inspection of the thousands of which are aptes throushout the Ponince, any of in spite of the elforts of the wisest individual man in
the Province. That each distri.t Hoest not contain at least one man capable of occupyine such position is ridiculous on, the face of it
I quite agree with Mr. M, Whoy to have town-
ship inspectors is unnecessary and impractirable, but that the present systom is inallequate is crident from
the number of complaints made almost allually at conventions. That these complaints to mot come alone
from three or four mon is thown ly the fact that one Whole county association-that of simmon Co-has be-
come so ative to the situatign as the nupoint on fits
own account, a conunty inspector, who expects to visit every apiary in the county this summer.
The \(\$ 10,32 n\) nin cotimate on a thoroumb inspection

past? If Ontario was once the worst infested
her climate must be peculiarly adapted to foul broots
and extra vigilance is necessary to prevent another
outbreak.
Another point must not be overtooked. Why the
fact of the presence of foul brood in an apiary should
be concealed has not been satisfactorily explained.
What is there to prevent a dishonct beekeeper selling
colonies which have been exposed to infection by foul
brood, or whose hives may contain foul-broody combs
and honey, to unsuspecting purchasers. who may have
them shipped into sections where the disease did not
previously exist? I do not know of any precedent
for such procedure in connection with the diseases of
any other live stock.
Elgin Co., Ont.

\section*{May in the Apiary}
husiness. month is for getting the bees in shape for 10th of June, is short at the longest, and if everything is not in the best of condition the year's work and
waiting will be lost. With suirit later hives are level sidewise and about ory thech lower in front than at back. Leaning hives cannot have
stratcht well-spand. fitions are favarable combs. As soon as weather conemperature \(70^{\circ} \mathrm{F}\), some honey coming in), start a thorough overhauling of brood chambers. If new
hives have been made, the bees should hives have been made, the bees should now be trans-
ferred into Cthem, as used
hives aro heter swarms. Armed with smoker, empty hive, small Pair scissors foth clipping, hoe with shprt, handle for scraping, and a screwdriver, approach the first hive. as follows: Standing or seated possible, and proceed loose all the combs, and remove the one nearest pry Glance over it for the queen, and place it in the empty hive. Continue with the next and following combs of combs with bees to che clip her, and transfer balance of combs with bees to new hive. Be careful to pre-
serve the order of the combs and to curately. Scrape all wax and propolis from the hive
just emptied, and proceed with the

QUESTIONS AND ANSWERS. Ist.-Questions asked by bona-fide subscribers to the "Farm
Advocate" are answered in this department free 2nd. - Our purpose is to give help in real dificulties; there:
ore, we reserve the right to discard enguiries not of gencral in srd.-Quctionpear to be asked out of mere curiosity. on one side of tions paper only and and mustated be and plaininl written,
jull name and anicd by the faith, though the namese is of the wecester, as a a quarily for publictee of go hth-In veterinary questions, the symptoms especially must
be fully, and clearly stated, otherwise satiofoctory replies can-
not be given.

Vetarinary
Subscribers by our Veterimary Editor.
comtitions at are kindly requested to read the writing or head of thes department before SPRAINRD musoles of Loiv.
While drawing a medium load to market in continued to three-year-old filly went lame, and small of the back. She is still not limp when trotting; she limps first on one with legs drawn up under her. toe and stands pain after coming into the stable; keeps raising the feet alternately. She is thin in flesh and sweats easily.
Ans. - She has sprained the muscles of her loins, and cases of this kind are usually tedious. Give \(1 \frac{1}{2}\) drs. each, biniodide of over her loins with des, mixed with 2 ozs. vaseline. Cut the hair yif; rub well with the blister. In 24 hours rub apply vaseline to the parts every day. Keep as uict as possible, and if necessary repeat the protrusion oe vagiva

July. She has falling of the womb, at least I magine so, as when she is lying down it occa-
sionally protrudes. Her appetite is good, and
she is in pood order. she is in good order, but does not isok as h hriity thing else, besides kecping hor hind quarters Richmond co, Quest. M. F. (:
 laxative nature, so as to prevent straining at Sifecation. She being in good order and appe-
itc. good, there is no need of a tonic. It will be to watch her closely at time of calving, but cases generally result satisfactorily and give

\(\qquad\)
\(\qquad\)

THE FARMER'S ADVOCATE
Founded 1866

My Kicked ON STIFLE My horse got kighed on the stifle. There
swelling as large as a saucer on the outside
the joint: he is quite lame and cannot lift his Ans-Apply heat by bathing with hot water the following lotion: Tincture of opium, 1 with acetate of lead, 1 oz,: alcohol, 4 ors.; water, 4
ozs. If the skin breaks and there is an escape of a clear oily-looking fluid, it will indicate open at once, as this is a serious case and requires treatment according to the special symptoms
shown.
paddling gait- grooked tail
Saddle filly has winding movement in one fore
leg. Her tail is long, and she carries it to one leg. Her tail is long, and she carries it to one
side and curves the point backwards. Peel Co., Ont. Ans.-The winding movement of foot is due to
the conformation of the limb, and practically nothing can be done to prevent it. In some but it is impossible can shoe to lessen the fault, should be shod -without seelng her. just how she be straightened by severing the muscles on the side to which she carries it. This is an operaGOING FORWARD ON ENEES. Three-year-old filly that has been driven a little is springing over on her knees. She paws in in the manger. Elgin Co., Ont
Ans.-There is a congenital weakness knees, and standing too much acts as an exciting cause. Put her in a roomy box stall, feed her
off the floor; use no manger; feed grain out of box on the floor, and remave box as soon as she has eaten her meal. Give regular exercise. Local applications do little good, as the condition is
due to a shortening of the back tendons and mus due to a shortening of the back tendons and mus-
cles; the proper treatment is to blister the muscles on the front of the forearm in order to stimulate them and cause contraction to counterthe use of a box stall and feeding as above does more good than treatment.
LyMPHANGITIS. Pregnant mare had lymphangitis; leg swelled badly and she was very lame. Lameness has dis-
appeared, but her leg swells while standing erinarian said it was caused by hirh feedin Will she get all right, or will she be subject to it? Dufierin Co., Ont.
Ans.-Your veterinarian was quite right; th Ans.-Your veterinarian was quite right; the
disease is usually caused by hign feeding and want of exercise for a day or two. It frequently
occurs in work horses on Monday morning after Sunday's rest. Some horses are normally predisposed to it, and repeated attacks often leave permanently enlarged leg, called elephantitis. It is probable your mare's leg will regain its normal
condition after she foals and has heen on for a few weeks. The discase can be prevented either by giving daily exercise or by reducing the grain ration, and feeding bran when an animal
that is subject to the disease is about to have a - she doesn't roll has had fou she puts her head around and smells just behind
her front leg ; the attacks last about when eating ants but she used as if she choked when eating oats, but she used to eat oats very
slow ; when she would cough them up it was all chewed, and a very small quantity. Pp it wase all
scribe Muskoka, Ans.-Your mare is prohally suffering from
chronic indigestion, due to bad teeth. Get her teeth attended to by a competent veterinary surprescribe, or if there is no V.S. available, give a turpentime, one ounce, and when that has oppor: nux vomicaw one gentian, one ounce: powdered twelve powders, giving two daily, until done.
\(\qquad\)
\(\qquad\)
inc it is wrobable they have brochitis. and
the exception of one that 60 lambs, a fine lot, with This one continued to fail, and apparently thififty. starvation in a few weeks ; some more went the same way. I had my veterinarian kill and hold a post mortem on one that was about to die. He
found all organs healthy he said was rotten. He said that nothing which be done except to give good food and exercise They were fed all the turnips, ensilage and cut clover hay they would eat, with one-half to threequarters pounds each of a mixture of oat hulls,
100 lbs .; oats, 140 lbs. comfortable quarters and twice daily. They had former owner had no trouble with his flock, nor I with lambs of my own raising. Fisk, nor I Ans.-Liver disease of this kind is caused by charine matter, as large quantitios too much sacchange in feeding by the first owner and wouns appears, in this instance, to have been necessary to cause the trouble, although it may be hard to what the a satisfactory conclusion as to exactly rian was right. no medical in. Your veterinaful. When the liver has undergone organic chansof this nature little can be done. Feed no change as practicable. as practicable.
stifled colt
I noticed my colt a little lame last December He is stifled, and is worse now. Will go three foot for a few steps. Oxford Co., Ont.
Ans-From the symptoms given T presume you
are correct in your diagnosis. He has partial are correct in your diagnosis. He has partial
dislocation of the patella, and occasionally it behlister the front and ine him a long rest, and drs. each of cantharides and biniodide of mercury mixed with 2 ors. vaseline. Tie his head up, clip well arain in 24 rub well with the blister: ruh longer. Turn him into and wash off in 24 hours ply a little vaseline evory doy Row, and ap ment monthly for three or four times.

\section*{WORMS IN PIES.}
2. What will destroy worms in pigs 3. Will the same medicine do for large small pigs?
Haldimand Co
Ans.-1. Make a mixture of one part oil o for a pig four weeks old, sixteen parts. The dose grown pig, six to eight ounces. Repeat the dose
in three davs. 3. Yes, the difference being only in the dose

\section*{THRUSE in fewe.}

Give treatiment for thrush in horses feet Ans.-Clean out the cleft in fre down to anply a little calomel, working it well until all discharge and foul odort every second day

\section*{Miscellaneous.}
subscmbers are kindly requested to read the ronditions at the head of thas department before -

\section*{have a pure-bred ond cow}
had but one pure-bred Shorthorn cow that has
comes aroun is now six omes around every three weeks. years old and alf in 1902 . get her in calf? She had her only
\(\qquad\)
\(\qquad\) and if it is closed or partially so, oif the fore-
fingery and (wo) fingers, until force it into the mouth, then the cow should be served. (ireated, cleantiness of
\(\qquad\)

\section*{- mat I.AMre}

\section*{astrating lambs, to simply cut offe method} winh the testicles, wherimply cut oft the scrotum using the thom-shears? At what age should it safety of this cmothod, and have experience of the who has tried it. One of oure veterinary advisore
thinks it "ould thinks it "omht quite safe if done when the with shemrs that have been soaked in hoiline water to ronter them aserpen soce it wod hould he wise


Impounding sheicp-ruprism.
my own stock, they will not turn my they turn across the road. His cattle are continually jumping out and grazing on road, or where they years. When herding on road for a number of care where they go. My front does not seem to road; his sheep come in. Some of his sheep were on my crop, some on road; I took the drove o I started down the road they were trespassing, crossed a field and headed them with her dog and scattered
1. What to pound? 2. Would I have to have on way that she did so ? 3. My lawyer said fine witness at large) them on the if I let him know if they still l:ept to me to identify them, and send a constable out out ! Would it? 4. Whom would I have ine pay ? 5. How far away from the stock to I take stow to be when herding them? 6. Can them to the take stock to pound, or has the Can any person age? 8. Is there any penalty for throwing o ion in road into fields? 9. What is your opinhighway \(;\) is to stones and rubbish on public side onto mine? 10 Can to throw such off his home and use it? 11. Would my such and take stable myself about stock do, or will I ha con employ a lawyer?
Bruce Co. Ont
Ans.-1. There is no fixed penalty: 2. Practic itor, you should be governed by his ady a solicThere is no legal regulation that we are. 5 . of. 6. The proper pound is the one in yourare division. 7. Any person. 8. Yes. 9. No. 10.

Where to locate - hay loaders
Columbia, would you advise a young or British small capital to go ?
2. What is your Will it shell clover seed much when hay loader Ontario Co., Ont AN INTERESTEI READER. 1. Farm lands have risen rapidly in value in capital, Temiscamingue would offer the smal nducement. For specific information re British cate," to the Settlers' couver, B.C., and re Temiscaming Box 540, Van Suluthworth, Crown Lands Dept., Parliamas Buildings, Toronto, Ont. Why not take arliament yourself? We into Temiscamingue and see for after hearing from Mr. Southworth you do that 2. Our own experience Southworth. een most satisfactory. They are a loaders has In labor, and facilitate taking off the hay crop se a steady walking team driven by a boy. The In this connection a he very advantageous. Are not rake is said to shell the olover seed more than with ordinary SOW-THISTLE SEED.
ow thistle ic from a field badly infested with seven rods from a clean farm, out in the and and the wind carrying the thistle blows on to the the place, would there be seed enough to pollute some of the land being plowed after the stuff came over, the rest in pasture? Witer the stuff
weed seed blow that in thistle seed Ane is no doulst that much of the fortunately, not all of such seed clean farm, but, the land: much of it is carried off hy falls low vitality freshets. Many of the seeds are plant is cut, birds, also, and other the time the considerable of it, so that frequently little harm many cases the seed sprouts just in thistlo
destres seeds near the surface would cultivation. Those but any seed that was turned deent first season, not germinate until brought near the surface again. Ragweed might easily be carvied surface the fence by the wind, and would be disseminated the term agencies.

\section*{Will yHE TERM THOROUGHBRED.}
correct to use: Thoroughbred these terms are Moroughbred Polled-Angus bull? Clyde horse
Ans.-Ň0. The term thoroughbred, in de
the breed of horses known applicable only t \(5=\)

MAY 1, 1903

\section*{henhouse - Strawberiries,}
 their value cannot be estimated in dollars and
cents.

ILE DRGINING - MORTGAGE MATURITY one another. A's land is above B's. There is a
run of water from A's land on to I's, the natura course. A two-inch tile will carry 13's, but it A's. Can B compel A to pay the difference bewith \(B\) or with the Township, for his water 2. A holds a mortgage against. B. The date accept of the money on Monday without any Ans.-1. In the first instance with B, but if they should be unable to agree, it would then beEngineer. See the Ditches of by the Municipal Act, R.S.O., 1897, Chap. 285, and, particularly,

\section*{Would yourina meat}
hams, bacon, and also corned beef? for curing some of our largest hams spoiled in the center,
but the smaller ones kept well. Potter Co., Pa. Supt. Asylum. Ans.-See in our last issue an answer to a
query re curing hams. Also, as your small hams may, perhaps, be improved by taking particulan care to rub plenty of salt about the bone of the larger hams, and be careful to see that all blood is washed out of the meat about that point. tial smoke-house should be used a good substancan be left hanging after it is cured. To corn beef, first dust a little saltpetre over it, about as then sift pepper is applied to a dinner dish, The beef is then put into a pickle leave for a day. to float an egg, and left for about a week aiter which it is hung in a dry, clean place, care being taken that no two pieces are in contact. If a Spicy flavor is desired, pepper, sugar, allspice, three is applied with the saltpetre, and two or

\section*{Cemetery matter.}
a am one of the managers of a cemetery. Last moved all the old picket fences around lots, except one, as they were a nuisance in the winter to
gather snow, and in the summer weeds and thisremoved. There is an old spinster who to have to its being removed on account that her aunt is lot end there. She has no other claim on the Her father and brother are in another lot.
Can she keep us from removing it? It is the Whly one left, and it looks bad in the cemetery. one that objected
13pure Co., Ont.

\section*{BREACH OF CONTRACT}

\section*{Chumut a maik firn the full} Aht ho asted. Atter putting in two mon han and other many reasons for doing so. 1. Can A.

\section*{}

THE FARMER'S ADVOCATE

\section*{PIGGERY Plan}

Cllough to accommodate froman for a piggery large hundred hogs and ten broord sows. I want it warm
and convenient for feeding. and convenient
Wentworth
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simplitity are chiefly to be sourht ingl, dryness and

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pirgery. If the chiefly to be sought in building' a
is too long to be convenient, it may be arranced the
have a row of convenient, it may be arranged to
rassage, but, the on either side of the feedimas
pussage, but the pens on either side of the feedimg
not be as satisfactory as thor or west side will
squarely in. Woul satisfactory as those where the sun strikes
materials to use in the walls and brick are the best
be more than seven feet wigh Ceilings should not
made to give plenty of exercise. In a pen should be
modate so large a number we would have quite a large
and a good-sized feed-room and straw for bedrging
supply of roots could be kept. Where the climate a
might be satisfactorily employed for the movable pens
and farrow sows. These could be located in lo
convenient to the
the summer for sows and and moved to the pasture in

\section*{privatie letetigr boxifs}
for interfering with or destroying a prosecuted put in mail matter as he passes? know there is no township by-law So far as 1 them, nor has there been permission granted by municipal authorities for the placing of letter boxes on the road allowance. It is a private 2. Who should take action? 3. Can à Township Council pass a by-law at Nowing such letter boxes to be erected, and assum-
ing charge of them?
W. K. M.

(
CORN FOR sitio.

Will you please tell me what kind of corn is Ans.--Results of experiments extendine on several years indicate that Wisconsin Earliest
White Dent produces White Dent produces good yields of excellent don Dent and Mammoth Cuban give largest cropon the warm soils in the southern part of the Province. Compton's Early and Salzer's North Dakota are also reliable varieties, the former of which yields very good crons, and the latter ther short stalks, and, hence, makes less bulk wire fencing atrracting lighting. Would there be any danger from lightning a barn? The fence would be about forty rods few rods from the barn and finish the wire a with wood? NORTHERN READER Ans.-The latter plan is safer, but unless the the place remarkable for electric showers, and taching the wireally exposed, we would risk a to the barn.
whitewarh.
ture Two readers have asked for a good whitewash mix पood wash, one that stichs well, is made as follows make into a milk, and strain through a fine sieve Add to this a peck of salt, dissolved in warm water ; three pounds of rice, boiled to a paste, and stirred
in while hot: half a pound of Spanish whitintiter one prund of glue, previously dissolved in a glue pot hot water. stir it well, cover. and let stand for a few will coner square vard Stuples hot, and a pint applimation every season, as it is a good disinfectant. Could yon tell me what kind of roots compose the enclosed mass?
T:lgin (Co., Ont. H. M. S. of the - It is impossible withont knowing mone CRIMQON Clover.
\(\qquad\)
Ans-This, clover was fulls discussed in the most tender clovers, and is used chiefly as a cover op in orchards.

Fssex Co., Ont. Auently asked is a question that is being quite fre harvested alfalfa clover for semel give their methods horse eats manure.
eats horse manure. How can I curblined stallion which
Ans.-Any animal ic . until haral habit. Frevent him from getting atvverare the is in every way in a healthy condition.weiget and measurement of fat cattle.Ie for ascertaining the live weirlt an accurate
NOTES AND NEWS
Oxford Co., Ont.
So far, we have had a very nice spring for getting
eather has been work that we could do, and now the
g the work very well. It is
解 begun to work moterately. Wi took the mo
lowing as soon as possible of cultivating all our fall
rely on the advice given in the "Advocate" being
rvinerying out, and helps to start the weell seeds. Cul-spring tee then hatrow across, and then sow with themade, and find that drill. We got a fourth harrowhorses, covering abo four harrows drawn by threeplement of husbandry. I believe it is a more solifWith an the three harrows, and does better work.thirty acres can be gone over in a and long landsa new steel roller, nine feet wide, aud the also gotmore than pays for the additional cost. The amount
\(\qquad\)for every foot that way: one acre every five hoursage. With long lands and good close driving aver-Some farmers have trouble with their cows in theafterbirth not coming away. We find it a goodwarm milk just a citer colleaspoonful of ginger in theCheese is now asold at 13 cents, and the second lot at first make wamart of that was taken out of the hoop and putLhe cheese box to be shippert.
Live hors
fall pigs whole, the price keeps up pretty well. Ourfall pigs have not done as well as usual. Spring
litters generally are doing fairly well.and have thance of roots, the cattie are very healthy greedily yet. We have still a quantity ond eat it greedily yet. We have still a quantity of cornstalks.
but it is getting dry now and is not so good at this

\section*{A Canadian Promoted.}
mal Husbandry, Iowa Agricultural College, has jusaccepted the position of head of the live-stock division
on Brookmont Farms, the property of
Odebolt
birth, having been born at Kimgston, Ontario, wher
stock farm. Ife entered the Ontario his fatherhonors, winning "hich he graduated with very high
his chosen work succecsufully
then entered the Iowa Agricultural College, pursuing
special work under Profs. Curtiss and Craipyear's time he received his bachelor's depres In onehas been advanced to Assistant l'rofessor of Anima

ecome quite ..... ite noted on account of the large feeding.
s being conducterl there. In the future thisAustralian Sheep Losses
as compensation from the two and a vailf

THE FARMER'S ADVOCATE
Metal Roofing.
Incubators versus Hens
a large number of farmers' wives who have more one of to do than they can well manage, and would willingly keep servants, only they are scarce in the cities, and
in the country thes nre an we busy wives and daughters don't ikessing. Well, advice of our city friends ancl give up the poultry and lessen our work thereby, for I truthfully think the into the fresh air, whell otherwise. They take us out the house for a week or might not leave again, they divert our thoughts from the daily, and, of cooking, dish-washing, sweeping, etc. Now, having better that poultry are an advantage, surely we hhd would like to prove that of them as possible, and I necessity. It is a wonderfol do so an incubator is a labor. This is the third year that both of time and and my hens laid better this last winter than I mine raised early doir doing before, all owing to having the winter with 4 from the incubator. I started to 46, and their return in egge was.
\begin{tabular}{|c|c|c|c|}
\hline & 19 & 19 & 1901 \\
\hline February & & & 290 \\
\hline & 438 & 215 & 412 \\
\hline
\end{tabular}


Roofing.
In answer to enquiry of H. S. B, regarding roofing,
I will give my experience. Nine years, ago, I built a
barn \(62 \times 82\), with a wing for a stralw shed \(32 \times 40\), and roofed the whole with for a straw shed \(32 \times 40\), edged Roofing, which was a roofing called the Wireyear after it was finished, one side of the barn ripped from end to end. The wind got below the rip and on top of the paper roof. I shingled that side over on top of the paper roofing, and the next fall I had
to shingle the other side. The straw shed lasted till over the top \(f\) of the paper. My experience with I did
 can be covered with sand and gravel to protect it from cracking. On a slanting roof nothing will lie on it to protect it from the hent of the sun, and it hardens The Wire-edged Roofing I put on cost me \(\$ 3\) per square put on, and I had 82 squares, costing me \(\$ 246\) for one year's service on barn and three years' on straw
shed. I think that shingles are cheaper than that. Waterloo Co., Ont.

\section*{Nova Scotia Notes}

March was hard on clover roots, being frost nights and mild days a good deal of the time. There
being very little snow after March 1 st, it was a Taken as a whole, it wns
cattle, as the weather has been less winter for feeding the cold snaps, with high ween less changeable, but the value of warm stables, especially for dairy cows some of our most enterprising farmers are already pushing young stock for the next Winter Fair. There
is a great demand for good Shorthorns, and the best seems to be none too good for our farmers now. We
had twn institute meetings within the hounds har twricultural Society durgng the the bounth of March, work, and thus make it more profitable as well as less poor seed used here this year than ever be-
decided improvement. I always keep about 50 , the five ad This year, I set my incubator the laying number 107 eggs. Forty-seven chicks hatched, and two wer hens-139 Eight were lame, I killed six of them the hatched died. For winter eggs, from hens aonfined other two or four months, I think I should be well satisfied with thermetarn in chicks. I am afraid the edge of the to pad it still more cause of the lameness. I intend hatches again.
It takes me
he chicks, turn the eggs, fill and polish the to feed
of the lamps-two for the incubator and one for the sufficient to turn the eggs and fhange the lampo bill be a clean one in the incubator) and trime the lamps (put the brooder lamp. The incubator chickens stay well cogether and are very easily managed and trained "Farmer's Advocate," and got from the valuable very simp hand to feed to the chicks. keep " iohnnymeal, little white quickly: buttermille, soda, Tndine ery siftings. II find flour, bran and bone meal or crockMisdirected Immigrants

\section*{ar Onfario last morme} , who were expected to be available as farm hils marched of set foot in Toronto than they wer officials thought they local freight offices. The rallway handlers as the farmers are in lin ineed of freight way when the Enclishmen were in Montreat hand at the Trointo they were Induced to take employment Toronto and sheds. They were given iree passage to the rallway will be able to per day. With their aid If possessing any reasonable purlifincreasing traffic and they will soon discover that when Toronto hoarm a more desir outlay is deducted they would have had in pocket had they

Notes About the World's Fair.
\(\qquad\) darry of the Department of Apriculture at the of the ment goes into Exposition at St. Louls. The appoint secretary of the effect at once. Mr. Sundendory is soclation, and for several years he has been special States Government, in charge Agriculture of the United toons pertainine to the is a high authority on all quesbe recelved with gratification by dairymen everywhere F. D. Coburn, Chlef of the Live Stock Department, rocting plans for the live-stock show. A beautifully agriculture exhibit, has been of around, adjoining the hent, and it will be at once eamproved. A great horse Just What is Wanted.

\author{
Find envisen, st.0n, tor which you will kindy re
}
tor the . Finmer's Addocate


\section*{MAY 1,1903}

Live Stockiat St. Louis. ground for the live stomething shows at the worty acres at St. Louis next year has been asked of the manage-
ment by Chief \(F\). D. Coburn, who has charge of department. This site contemplates the erection of seven buildings. Thirty-nine of these are planned and 400 borms, stalls \(10 \times 10\) feet. The 2,800 stanls will accommodate as a minimum that number of cattle or horses, and, later, simultaneously, a like number
of both swine and sheep. Four octy, will provide 110 open stalls and 28 octagonal darry barns The larger of the main buildings is the amphi-
theatre and show-ring building, with an area \(250 \times 450 \mathrm{feet}\). It will have a seating capacity provided in the building for all the numero will be stock associations. \({ }^{\text {and }}\) structure designed for demonstrations a cormmodious the Agricultural College Experiment Stations, meetings ores.
poses.
The The dates which will probably be fixed for the live
stock displays extend from August 22 nd to Novembe 5th of next year. The barns will be given over t
horses and mules from August 22 nd to September 3 . to cattle from September 12th to September 24th sheep, goats and swine from October 3rd to 15 th
and to poultry, pigeons, dogs and pet stock fro October 24th to November 5th begin to occupy their barns December 1st, of thic continuing their use until November 1st, 1904 . Silo
will be built adjoining ensilage to fill them has already been contracted for A leading farm machinery company has agreed to put
up the silos and to furnish all necessary silage machinery free of any charge. Provision will be made for displays not hithert given attention. As an instance, may be given the
plans for awards to " the horse of commerce." Geld ngss for all purposes will be provided for. The cavalry, artilery and ambulance horses are to be in
one or more classes, which will show the needs of the saddle hors be on display. The draft horse, the roadster and the eneral purpose horse will come in for awards. hass of especial interest will be the fire departmen ress with fire chiefs of the larger cities.
Poultry, pigeons and pet stock will atention at the Louisiana Purchase Exposition fully ommensurate with the magnitude of that great World' vill double standards set by air at. Louis next yea

\section*{Milk for Cheosemaking.}
\(\qquad\) rom dust and bad smells. If milk are that is ree ated with dirt it is a matter of cliance as to what effect of germs is not glways apparent in the making f faulty flavor in the ripe cheese. Cleanliness.-In no fatureese.
ion to cleanliness more imperative than in the vessels mployed for keeping the milk. Much of the trouble requently arising through milk not keeping is traceinto which the milk is drawn from the the vessels which it is subsequently kept in the dairy All atensils employed in connection with the dairy should ot only be kept scrupulously clean by carefully washing them twice through warm water, but they ings with boiling water so bot a complete destruction of any germs which may have gained access to them. All milk vessels, whether tin should then be thoroughly washed after using. They and afterwards left as long scalded with boiling water, air and sunshine while drying. It is a well-established that there is no better method of destroying germ The than that of exposing it to plenty of sunshine and Milking.-All experienced dairymen know the imows. Many of the faults found in milk products are this department. The udder of in of attention in rublbed with a damp cloth and the teats carefully
withed before commencing to milk, The milker should he claan in person, and the hands should be washed aftor milking each cow. It is essential that milking shoult be performed with the utmost regularity as to time, night and morning. It is also advisable, the arme milkers from day to day. Cows gradually hnow their milkers, and though some cows are
a disposition as to readily vield up their mitk ne, it is generally allmitted that others are of nervous temperament that if operated on by a
person they will not milk so freely as if loctrum or Green Milk.-The milk first secreted
cow after calving is quite distinct in composi-

THE FARMER'S ADVOCATE
the secretion has become well entublished, This milk is
called colostrum, and is consillered tion or manufacture. Such milk is not only nomp cheese-making solids, but when used in any quantity
the market value of the product is much reduced. the market value of the product is much reduced.
Milk should not be used before the sixth after calving. The change is a gradual one and is the animal.-.[R. J. Drummond, of the Scottish Dairy
\(\qquad\)


LeArning bad habits
Spaniel owned by John Douglas, experimental fee
Ontario Agricultural Colleze. Death's Doings.
Sir Oliver Mowat, the Licutenant-Governor of Ontario, who, for such an unprecedented period, was
Premier of the Province, died in Toronto on April 19th, at the age of 83 years. He was a native of Kingston, Ont., and as a public man and statesman had a long and honorable career, being generally dians. Mrddlesex Richard Shaw-Wood, a prominent farmer of Township on April 10th, at the age of 76 years. He was a native of Bermuda. A man of independent
means, he adopted the life of a farmer after the manner of the English country gentleman of the old school. Hie was interested in pure-bred Clydesdales, and of late
years engaged in cattle feeding on a large scale practical operation being under the personal manageent of Mr. Wm. Fleming. Mr. Shaw-Wood enjoyed ada, if not in America. the first introducers in Canpreserving corn fodder ins of North Dorchester, Middlesex Co.., Ont., lost, by death, on April 18th, at the age of 54 years, Mr. John
Gilmour, one of its most progressive agriculturists and a gentlerman held in the highest esteem by all his brothers, David and Andrew, were largely encared in feeding and exporting cattle to the British markets but latterly they turned their attention specially to ther brother is Mr. James eqilmour. well sulal. Anthe member of the Dominion Parliament for Fast Mia dlesex, who, in addition to hich farm in Dorchester,
is interested in forming and ranching in Alberta, where Prof. Robertson's Work
The World's Work, a remarkably fine fllustrated York, devoted to descriptions of the great commercin industrial and other activities of modern, life, presents,
in its May issue, a full-page portrait of Prof. Jas. W. Robertson, Commissioner of Agriculture and Dairyimg by Mr. George Iles, under the following caption: American and Furopean Models Thited in the ComObject Object Lesson for the World planned by a Man Wha
Has Brousht Scientific Research IInme to Farmers ant Teachers." It describes the Mactonald Manual Trainoroject, the Seed Cirain Acsoriations, the extension at Canadiun dairyinge, and other projects with which and with the prograss of which our readers are

THE FARMER'S ADVOCATE.


Don't look for the daws as you go through life:
And even when you find them,


\section*{'Pa" and Polly Moberly.}

The girls were having a good time in the sitting-
room. It was well warmed and lighted, and there was a sound of laughter and the hum of merry voices. there was a fluttering of mandiclin to the plano, and
come in. come in, as usual, to spend the evening. The Moberly very eyes, and hively, vivacious manners that proved very attractive to the young people in the quiet
village. sat out in the kitchen most knew much about. He dingy little room, and often in the evening he had no
light ; only the dull glow of the stove and the red light; only the dull glow of the stove and the red
sparks of his old-fashioned pipe. Pa Moberly was a little, timid, shrinking man. He hands. He had worked hard for his girls. He had
ungrudgingly ungrudgingly given them his best. It seemed too had that now he was old and they were grown to woman-
hood they did not care. When Mrs. Moberly
He had his comfortable was alive things were different. room ; his slippers, too, und there was the sittingrest on when he was tired.
But as his girls grew up, pretty, strong-willed and altogether selfish, Pa Moberly found himself banished too fine for use, adorned the old number of cushions, chair had three, tidies on it. He was and his arn
understand that he was not wanted It was not long before te began to stay in the
kitchen, and by and bye he sat nowhere else. He knew every figure on the dingy papered walls, and the only one, in which he could not rest.
He used to the sitting-room, with its lights, its laughter and its music, but to his gentie hints the girls gave scant
encouragement. " They didn't want pa around," they The lonely, tired old man hath many thoughts as
Themsel he sat in the kitchen night after night in solitude, and
he used sonetimes to ponder the question in his indle heart as to whether, after all, it paid to bring up amairs. Polly was the younsest changed condition of brown-eyed. She had been staying for three years out in penn named. Poor Aunt Bassett was dead now, and today Polly had come home again. She was upstairs forgotten to make ready for her. As Ta Moberly sat the girls had As Pa Moberly sat alone in the kitchen to-night
he was thinking of Polly. In his yearning, fatherly hourt there was a faint stirring of hoperning, fatherly
There was a chance that he
\(\qquad\)
\(\qquad\)


My dear Guests,shapes our ends, rough hew them how we will," and like innumerable other sayings of the same may not always discern the wisdome. We "shaping,", especially when, as wot infrem of the happens, the operation is attended with pain, but that is because our earthly vision being but in lerifect leaves us incapable of judging.
us a certain place in the great structure of huAre we Are we filling that place as we should? when the command to move on is given? If we nave felt hampered, confined and even crushed at to occupy is perhaps but place we were meant we in our arrogance would become too large and Here and thus suffer unceasing discomfort therein hold, then, theter to have remained little? Be We need not fret and worry about occupying a honorably filled, and we may dionify the that is mannerlace action by performing it in a most the petty firm a worthy motive, unbiased by great Designer has oi the world around us. This us, and he who faithfully even the smallest of dutics accomplishes more than he who trivial imperfectly the most prominent position.
" Who does the best his circumstance allows,
to hold a responsible mosition we are intended nnowledge and a mind well disciplined. Such a to prepare for it been oflered us, but if we wait will justly take our place. We should therefse strive to profit by every opportunity to ard our store of knowledge-and such opportunities endeavor wanting-but more than all we should ness man advertises for thing well. When a busifrom the applicants the man who seldom chooses of one particular hime who has made a specialty hourly met with in every-day life is an important and the way in which it of character; and failure Criterion of merit than is success. of hurspeaking on this subject says: ". One day tained strumble acceptance of failure, of generous, sus of constant falls, is better ofeats, in the midst triumphant victory", better than one month of Many of the most prominent men of this and obscurity to emes have risen from comparative they grasped opportunity ere it had passed them
by. The greatest mon ssldiers and generals had first to be comsuperior officers; wisely so since it is of their learned to on opererly command who has not firs Then let us accept graciously and gratefully Whatever is sent to us, and make even of our failing of our chatacter we experience some moulddiscomfort we may console ourselves with the remembrance that it is necessarselves with the ase, and that assuredly
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)

\section*{MAY 1,1903}

THE QUIET HOUR
Consider This, Ye That Forget dud Kneel in worship to the God

\section*{ose all and Neighbor}

Seeik for service that anointing
Which will give you secret health,
It shall be wage be disappointing
For with His dear, early blessing And no work be overpressing Or the soil of Duty stain
dion't write to try and convince unbelievers that there is a God. Honestly, I have very little may indeed say that they don't believe in the ex person can really think that this wow any san rerse happened accidentally; or that the certaint the pumishment of \(\sin\), even in this world, is real desire to find and sufficient proof will be obey him, sooner or late doubting Apostle. But, as Bacon was to the never wrought miracle to convince Atheism, be cause His ordinary works convince it," and it be only to friends, that the risen Jesus appeared enemies by overpow and not seek to convince His Then Herod, who was so eager of His divinity vellous miracle worked by the captive Christ did not even hear one word from Him, for "He an swered him nothing." No, I am not addressing forget God witho any other day-but we may nying His existence. Perhans we intention of deit quite excusable to have the thought of think crowded out of six days of the week, and some times even out of the seventh day too. Life is such a rush, and visiole things have a way of go regularly to church-when it is Many who God" from Monday morning to Saturday without feeling themselves particularly sinful. Yet it is written in the ninth Psalm: "The wicked forget God," sider this, and He has also said: "Now conpieces, and there be none to deliver ,
God does not consider it a small \(\sin\) when His people forget Him, for He says again: "If thou after all forget the Lord thy God, and walk them, I testify against serve them, and worship surely perish. Con truly be said that we are God's servants if we forget Him the whole week through ? What good are we really devotgolden ourselves to are we worshipping the fame, or the or is our heart set on pleasure, haps some are straining every nerve to aer plish a great deal of work, and the cares of life may have crowded out of their busy days any feel quit of God. Such hard-working people may forgetting that quited that they are doing their duty, commandment to be loving God with the first and mind. Others may be so strong and clever that they feel no need of God, but think themselves quite able to stand alone. It is said that tion to Russia started on his disastrous expediposes, but God disposes." Said to him-"Man proof proud confidence in his own strength-" I both propose and dispose," and yet how powerless he iound himself against God's messengers of cold IHhen

Nebuchadnezzar boasted about the great hour the kingdom was taken from him that same milderstanding returned and he owned "that the Most High ruleth in the kingdom of men, and It is folly to trust ine will.
takn away any day, or which we which may be to leave behind-for even this night our souls may be required of us. It is folly to trust in strength of body or mind, which a sudden accident might There is a story told of the Apostate Emperor when he went out to destroy the Persian hi. Christian faith to the winds. A heathen 1 Libanius said with a sneer to a Christian e met in Antioch-"What is your Master, of the carpenter, doing now."
"erhaps the Great Carpenter of the world is when he spoke Julian was lying stretched on the battlefield, uttering his well-known "ords, "Thou hast conquered, O Galilean!" is true that we cannot see God. The
omer who announced that he had searched ough the sky with his telescope and yet had an God, need not shake our faith. If a ist. searched a man through and through
the X-rays, and saw no life, would that

\section*{THE FH,RMER'S ADVOCATE}
prove that no life was there? If he saw no co
science, would that prove that the man was terly hardened? No one would believe him if hat ing for whub in rember one day when 1 "ha would believe the astronomer ifience, and no one had seen God through a telescope. Forgetting God is, like most things, habit to le acquired in a week. If we are a hurried to pray in the morning, and too tired to pray at night, before long our prayers will be God does not require long pravers, plenty of time. forming the habit of prayerlessness, break you are while you can. "Beware lest thou forget the Lord thy God," for He has said, "Seeing thou hast forgotten the law of thy God, I will also fo
get thy children."
HOPE.

\section*{THE CHILDREN'S CORNER}

\section*{Come Oat and Play}
kittens are saying to play !" That is what these ready to accept the invitation, and he seems quite be knocked about a little roughly Perhaps he may mates, but what of that! It is all in the game, and who cares for a few bruises
I suppose you chipldren are living out of doors mos moch as you possibly can, and are all as days as young things should be in the bright ays of opening summer. The world seems young again every spring, and even people who have eft their young days far behind feel inclined to come out and play." Is it any wonder that day comes. Then come excitement when Satur where did you put my straw hat last "Mother
ing for chub in a little creek in the woods,
the log on which I stood turned over. There a splash and a shriek, and then I was has out, dripping wet. Did I go home, looking like a half-drowned kitten, draggled and forlorn? Not and then stared to awhile, cold was the result, but again. Probably a bad we had-what is the use of remembering tun -
satisfactew way of fishing, that is said to the very line, near the bis to fasten a tiny mirror to the fish, seeing itself in theok. The idea is that the other fish is trying to get the bait and so some a rush for it, determined to get there first makes the tempting worm and finds the sharp catching and given the wish that it had been more unselfish innings. But if fish are not kind and unselfish, boys a time some boys were playing baseball in e upon shady street, when a little chap of twelve years He came along and asked if he might play too crutches, waor little cripple, hobbling along on and play at such a lively game for very good-natured, and did not wish boys were eelings, but at last one of them said kindly Why, Jimmy, you cant run, you know him. You another boy quickly, "I'll run for I'll make your thes for good crack, Jim, and pered to some of the other wow ."If he whis ike him, you wouldn't want to be told of it all The. That boy was certainly a gentleman, although he may not have been dressed very well. And And watch our bobs that tip and float, And once a bridge of rocks we made But, just as a sure as we begin,
> hen all the frightencd fish they hide Beneath the rocks and in the pool,
There's not a minnow to be suied ith bubbles 'tween the rocks and foam.
\(\qquad\) She says: " 1 s this the only fish Shat you can catch in Silver brook "."
She know, though, we'd get all she'd wish,

the way, there is dressing that part orgotten. A little boy, called Val, was rather proud of the fact that he could ane-"all entirely ehind that run \(u\) enird. He used to for ap to his father the buttons help with quite out of reach. One morning he was hingreat hurry, and tangled got dreadfully tangled and mixed
Perhaps it was not much wonder that he ooked cross when at thourchas dressed Why he was. staid his father, " you

\section*{MEE OUT AND Pleay}

1 say, did anybody see my box of fish-hooks? never saw such a grand day for fishing." Then cones the coaxing appeal: " Mother, won't you dinner-time grub, then we won't bother you at the Mayflowers are out." Mother gets noisy crowd at last, knowing guite well the when her boys and girls come back well that grimy, they wilh be hungry enough to eat two dinners instead of one.


Then we lie down there in the shade

self from collar to boots, but could find nothing . Y You haven't put your smille his father. "P'ut it on quickly, old chap, said l'll button it up for you." And Val put on a very fine smile in almost less than no time putting on the sumny smile for the day without plainest face attractive. smile which can make the one would care to see a "smile that won't comy off," but-

> Does anyone like a drizzling rain As well as a sunny sky?

As well as a sunny sky?
Does anyone turn to a frowning face

Oh, give us all the look that springs
ve do not careit hed hed esust
The care if he's dark or mair-
\(\qquad\)






\section*{Travelling Notes}

Mollie has been to prison, charged with osity, locked and bolted in the condemned cell,
black, silent and stufy hole, but released and se free by the small fee of twopence. It is wonder
ful what money will do Newgate ful what money will da Newgate prisos.t hich
has stood for hundreds of years, a large, strong has stood for hundreds of years, a large, strong
stone building, covering a stone building, covering a large space of ground, is being levelled to the ground and moved foreve The day \(I\) or the city of London. historic relic"," tont see it, the "unique and proved an attractive draw, and the crowd and ssembled round the auctioneer's rostrum in the Press Yard-where, when things were different, and so leading ad muning the rise of heir heirs, to vere ng and running the risk of forfeiting them, ere accommo dand was a large one. Curiosity bid out of the ordinary of an appeal to Dickens' worshippes "ans an appeal to Dickens worshippers, member your 'Barnaby Rudge'! Here is you reboard to which Dennis, the hangman, went cuphee keys!" and the old oak, iron-faced warder's key cupboard went for over \(\$ 60.00\). The pulpit that guarded the condemned cells the windows, iron gratings, copper washing bowls old leg-chains and weights, etc., etc., all brought arge prices. Top price was paid for the old Madame Tassaud's waxen houseanter be silent in \(\$ 500.00\) Inscribed on the bell is the following loyal infinction: mental regard to the ". good old times ", should Dear in mind some of the facts connected should
the old prison, which Mrs. Fry reform. In the middle of the eightte much we learn from an old recorder that six centui good family were lying there under sentence oi death for highway robbery. After an election sallied out Chelimstora, these men had, for fun, through the intercession of Lady miza of the shiz ton, to whom he was engaged to be married wa reprieved at the foot of the gallows; the othe In another case a starving sailo a drunken frolic with distinction on hoard a who had serve hanged for stealing sixpence. There are those now living who have seen men led out from prison, the a cart-tail, and publicly flogged trate the ideas of the times prison where convicts were confined than th shows the state of Newgate is that in 1750 the prison was so overcrowded and unsaniltary tha gaol fever was so infectious that the contagio
was carried to the Old Bailey cour two of the judges, the Lord Mayor and severile the jury-in all more than sixty persons died From then thl 1868. when the last public execu hion took piace outside the prison, improvetnent. spirit of the thousand years durinc which but th of the "New gate" to the City of London had been occupied as a prison, clung to the place; and very
few of those who so lately wandered among the uins will regret that the dark and gloong the has been levelled.
What Mrs. Fry accomplished against great diflihistory of philanthropy brightest facts in the whole ilthy den of corruption into a clean, whitewashed desperate and degraded, stitching orderly and silent." It was still when I saw the place, most dis-
mal, repellent and horrible. mal, repellent and horrible, What it inst haw
been before Mrs. Fry's visit been beiore Mrs
to contemplate

THE FARMER'S ADVOCATE

Mrs. Margarel Anne Neve, Nee Harvey

ate " to-day is sent uced in " Farmer's Advo guest in the house of a revered relative, who can distinctly remember hearing a conversation which somewhere ing beautiful mention of this ago. The followNoman" was published in the "Girls' Realm," en titled "A girl when the last century was young." Church Missionary oldest living supporter
cently a constant reader of the Gleaner quite reboth of which societies she must have bern closely Inked with the interests of our own Northwest Her story runs thus: "Born on May 18th able experience of living has enjoyed the remarkegister of the parish church of St . Pierre Port Guernsey, testifies that 'Warguerite Anne, fille du semre, el de Flizabeth Guilie. sa The influence of ber carly on May 27th, 1792. throughout her life in the charming courtes seen her manner, and the erectness of her bearing. aparte was overthrown and when Napoleon Buonaparte was overthrown and when Guernsey was
one huge camp, Mrs. Neve had, until quite lately a vivid recollection: and would until quite lately, father, who held a Captain's commission in the


\section*{}
wards Colonel), had to take his turn of guard and laty wheadiilst the Channel Islands were held her parents's old hone and now frer rouge thuis quarter of a century of marrical life. Mrs Alter became al widow and returned to Ronge Invis to reside with her mother and sister. The two
sisters went abroad over ed every country in Europe-Portugal excentent The winter erenings would be spent by the travel Waige of the country they intended to the lan Owing summer. Indelible memories were thus .ant, the vivacity of which have astonished ill Wts wil to Cranety-first year she paid a -and her life has been spent at Rouge 1.a \(\quad\) artivit-knitting a little, readU. Whimen on ars sumpertained the
\(\qquad\)
with the greatest solicitude by her the these most frequently on her Wash me and i shall be whiter than sate, onder Saviour, I belong to Thee," is it any ong pilgrimage of one hundred and eleven years o patiently await the happy sunmons which can not now be long delayed, "Enter thou into the

\section*{A Sentimental Journey}

> "One Summer," in "The Days of Auld Lang Syne,"
\(\qquad\)
Sentimental Tommy," planned "A Little Journey in perative Duty Before starting, they felt it "An Imbut as "The World Went Very Well was no complaints of "Hard Times," they found they had enough "Hard Cash" to give them "Many With Captain Courageous," of the " Schooner Mast,,' \({ }^{\prime}\) "Seven Seas." These "Three Men in a Boat" witSea many "An Ocean Tragedy," encountering "The " Flying Visits to "Roughing It"" generally. After "A Little Tour in France," they landed at ""."reasur 1sland," where they found "All Sorts and Co. ditions "Lorna Here living " Out of the World" we Once Again" "A Pair of Blue Eyes" " Sentimental Tommy," and, like "A Simpleton,',
he fell in love with Lorna. He said: ". Come : Sive With Me and Be My Me said: Come liv Meart's in the Highlands."
Lorna was "An Ambitious Woman"" and had Intentions "o leaving her "Old Maid's Paradise " f
less than "Ten Thousand a Year." ". She " knew th Tommy was "A Gentleman of Leisure," disinclined
to " Work" had to consider not " Only Herself," though she wis " Without Kith or Kin," she lived with "A Terrible Family," and had to take "Precaution" to keep the Responsibility." But after .." Which was "A Fearfu was "Disarmed ", "Lioved at Last." She sai,d to Tommy " ." Hithe have " man has "Wooed and Won" me, but in yole So they were married at ". The and True. Gables," "Beside the Bonnie Brier Bush." Among of "Jack's Father," " Mother Molly "," ". consisting Hagar,,", ". A Daughter of Meth," the "Heavenly mother." Mid " \({ }^{\text {S }}\) Sunshine " and "The Baby's GrandCouple " took their stand "Under Two Flags," which were artistically draped with ", A. Bow of Orange Wakefield" officiated. The bride was "In Silk Aster" with "Three Feathers" and "A Yellow They were "Bound Together "as "Man and Wife " with "Golden Fetters"." Forever and Ever." Wife Who had a Mortal Ant!pathy"," towards. Lorna and
was "Her Dearest Foe," said it was " Conclusion ", Dearest Foe," said it was "A Foregone The marriage was "A Shock to Society ", fter" it was "An Open Verdict" that they knew

\section*{A Vegetarian Crusade.}

The retgn of vegetables is at hand; but we need
cruside to brinn it noble music for that end. Int noble verse be set to easily proved. Who would throw mutton chent is newly married couple? No, we all acknowlerge that
iunocrnt tice is
\(\qquad\)
A mighty Theme RICE.

Are those whose nourishment is mainly
Far to the land of ayah and of syce.
There would 1 thy if 1 might thave mumble pice

\(\qquad\)

THE FARMER'S ADVOCATE

Something More alloont IDevonshire We have had throughout Fingland a somerre dear old Devonshire the March, but down hen laden with sea breezes, has had no crit to it. The primroses and violets in the and and hedges have laughed at it, and have cone
blossoming, whilst the little lambs, mercifully aware of the fate which assuredly awaits presently, frisk and gambol about the fields, as if having their very tails wagged for them was weather-mentions always have a place in every self-respecting newspaper, and who can make inv allusion to the coming and going of the month of March without due reference to its expected beand go out as a lamb?" "Come in as a lion I have cllipped from yesterday's Chronicle : According to an ancient legend, a shepher the winds to his flock; but after gaining his re quest the shepherd declined to pay over the lamb to have borrowed thnee days from March is sait more chilly blasts than usual blew and punishe the defaulter. This idea of March borrowing it three last days is rows them from, it is feigned that March bor rougher sway. In Staffordshire, the version is March borrowed of April, April borrowed o May, three days, they say: One rained, and one snew, "and the other was the worst day that ever As I write on this the fourth day of April,
gentle rain is falling, and, though the wind ha not quite quieted down, it is but as the last sob bing of a chidden child, who has finally made up its mind "to stop being naughty and try to " good. A few days ago one of my wandering moods on the tramp. The weather was better than its promise, and not a drop of rain fell from first to last, during my excursion to Exmouth, upon the
clifis of which I had often gazed when the soft sen haze had lifted and the beams when the soft se caught them slantwise in the far distance, bu Which ," had never as yet visited. "Go to Star thess, I was told, "and from its pier, close to awaiting passengers." Across the wide moury of the Exe, where it empties itself into the sea plies daily at given hours that little steamboat, and I am told that iver or ho river, the wave all the way to Fexetor and nastily, and many gi line to Exmouth, rather than cross in the branch little boat." No one could complain of twarters on Tuesday, for both going and returning that Ittle estuary was in quiet mood. There is not especially for one with limited powers ownoth, and a given train. by which one must return homewards. The church is not yet one hundred ears old, and there appeared to be very little toll, but there itself which had an old story to very long promenade with hospitable seats, links, shady gardens, and all else that makes seaside summer residence wholly desirable. It is Che surrounding neighborhood which, as is the is so beautiful. early enough to catch the omnibus to Budleirg Salterton, and so I missed the great treat I had promised myself. I had expected to branch of and, perhaps, on through Otterton, over he Otter by the plank bridge to Sidmouth, to do which deed, have extended my time, but it would, inthe views been time well spent. I was told that range, along the blood-red coast, in the Hidst
which lie D "Coubes," and to and Teignmouth, as in two upon which stands the old church of St. John-inthe Wilderness, would well repay me, if, by early rising, I could once more take a run over to Ex leigh Salterton. Dear Devonians who may Bud this, can you not picture what I can only try rea descritie, the rocks and the sands, the headlands and the deep dips downwards of the winding shire lanes, the furwer-covered banks of the Devon peeps over' the gates or through unexperted gaps at th.. white-tipped waves of the rolling sea? Can nu not picture the little fleet of fishing mil. © the more occasional small steamer bringing Now .tle, or the schooner or or coals, say from set. Wre, or the schooner or brig, with all sails acme the horizon? In some of the towns vol ind you when you came to make your
Canada, there may be new villas, longer gardens and pleasure grounds laid on
miner visitors who have found out th ommer visitors who have found out the
of your native county, but yon may h,
when you come hack to pay it a visit,
ine, you will find the same clorious seat or the same streams tritkling across the path as when in your picturesque cottages, with stout cob-walls and iruitful gardens are still to be seen every flowerful there, and without which Devonshire wild and spared to do so, I am hoping fertures. If I am it will not in Cornwall and the Scilly Isles, anil favorite county of yours and ast even upon this Enclish expressive of admiration for which the some of them when I tell you, as I shall endeavo tramps in the later on, something of my solitary amps in the land of Lyonnesse. \(\stackrel{\text { H. }}{ }\).

\section*{Things That Never Die}

\section*{The pure, the bright, the beautiful,
That stirred our hearts in wouth} The impulses of wordless prayer. The dreams of love and truth; The spirit's yearning cry, The striving after better hopes-
These things can never die.

The timid hand stretched forth to aid
A kindly word in grief's dark hour,
That proves a friend indeed;
The plea for mercy softly breathed,
When justice threatens nigh ;
These things shall never die.
The memory of a clasping hand,
And all the trifles, sweet and frail That make up love's first bliss And holy trust and high fait Those hands have clasped, These things shall never those lips lave met The cruel and the bitter word, The chilling want of sympathy We feel but cannot tell; Whose hopes were bounding high, In an unfading record kept-
These things shall never die.
\(\qquad\) Must find some work to do ; Lose not a chance to waken love-
lee firm and just and true Beam on thee that cannot fade Beam on thee from on high, And angel voices say to thee
These things shall never die.

A Dish-washing Game.


On Economy
omy" in an encyclopedia, we find that it is a "oikonomia," from "oikos," a house (ireek "nomas," a law. Hence, we dednce that it house," or, in other words the the law of a household. This signification of the word of Dominion, so closely is the mouschecters of th hold in this article, or, rather, titule serfies wil will borrow a leaf from the preachers and the of our text under three heads: (1) Economy o Finct subdivision which must needs prove This is a sureod, to the ninety-nine of us; let it be under without things, nor the scrimping and pinching in the train of the 'chill so gruesome a face ccomomy, the judicious management," of but simply affairs; the spending of what we have in oney very best way; the making use of what mate wasted have on hand, so that nothing may be count, and their substitution hings that do not this be our topic, and to it be all hor Economy is not stinginess. It may he foundation of liberality. It is no disgrace motive for doing so is a right one. and its the tice is certainly not a thing to be hid umder a bushel, but rather a virtue to be set on a hill perthaps, attain to comforts that might not cxample. And yet, how it not for so glood an who are actually ashamed of having to "economize !" I venture to say that there are verv specios us who have not seen at least otne of her many exouses! How volubly she makes! How having made down John's trousers to fit Jan and with what a consequential air she explains that, as she had an hour or so to sppare, she or two." until she could fow ones, which requirer such tarticular up his Of course Jamic always has a new pair lying in the drawer upstairs, or clse is to have them im runs on, while we sit and liston with. So she ratience, seeing through the thin veneer quite and unnecessary all the while how very foolish how much more dignified and truly lovalole this throw aside all shar she were only content to top just the true and sensible woman that be on probably is at heart. If she could only under stand that sincerity is one of the most beautifut that it can novor incoin ambl aver know, and admiration, while sham, even a little hit of and its deceives anybody, and, instead of serving its purpose, merely succeeds in awakening amuse-
ment or pity, or perhaps distrust, in the mind We have there is athother specices, womankind so, is obliged ry force of circumstances to eco about it either, but she does succeed no excuses iantly, in making herself and everyone else a tinually comparing her own con it She ition with con of Mrs. Wealthy Does not she love heautiful and even shabby ones, while Mrs. Wealthy rolls she delight in luxumions fumiturover, would not marision, and can she content herself with jus across at Mrs. Wealthy's palatial one? Worse than all, does not she also care for books, and all gratification in these things simply for want Wealthy to indulge in what she wishes to the of mind which cannot but interforefe with any true hecomes chrenic. She : and this state of mind Fown that does not imparduall semplome a littid atmosphme she carpurs atom with her theholy
 an telling me," answered the south. The old

Use in ruining the whole home atmosphere ore moderately poor, and there are better things isings, and a long bank account. Contentment it has often found a dwelling place in just \({ }^{\text {and }}\) a
cottage with a garden round,", where luxuries, as the world knows them, were few and far between a bit of the world roofed in, with a fire in it,"
or words to that effect? astray. Wherever there are four solid walls, en
closing a bit of closing a bit of space, clean, airy, with a bright
fire, a sufficient table, and the voices of loved ones, there may be a home, and a happy one.
There is still another species she were more often met with. Have we not all seen her, also, and rejoiced in seeng her?
is the woman of whom everyone says. "What nice woman she is!" or "What a fine person she
is!", She has come throuth not warped her. Her face is serene, her life is simple. Her househiold udores-no, respects her does not despise her conditiately poor, but she the doings of those "hetter off", in the the ape this world. Instead, she spends her days in making the best of things," and what profesnot ashamed of making ter than that? She is but, like the guidwife famed in poesy, who held it honor to "gar auld things luik amaist as weel's the new," is proud of her skill in being able to make then so Neither does she think of odds and ends that a woman less dinner out iess sensible would have thrown less thrifty and Perlhaps she does not know, what is true, that are porten of the poor, the denizens of the slums or, what is likewise true that among poople, the noble quite as often do not despise the and sidering of economy in little things. Parhaps -men who extracted at least a partion of ers very essence of liacted at least a portion of the tary poverty. Nevertheless, she has arrived philosophy of her own-that of finding a positive ducing it in exercise of economy, ansil of refucing it to an art. By the practice of it, she esting, her children better clad, har tand intersupplied, her house better furnished; and, above all, she realizes that the best things in life do
not depend upon great wealth, but may be alco not deprend upon great wealth, but may be also
secured \(i n\) the humble home-hhonesty, sincerity cortentment, love. And, now, this pafper is quite long enough. In
the next we shall try to present culled from many different sources, which may ment has managed to econowige in hrs. Content lairs. remain, dea

Very sincerely yours, C

\section*{Filling in the Chinks.}

Nough, 1 just fill in the chinks." The girl \(^{\text {fil }}\) "uuickly: The chinks are everything. You haven't the
 thinks, as she calls it, The busy woman spoke warruly as she suiled
haphily at her duan happily at her daughter didn't seem to be she was through sehool, there
 \("\) Our one servant does all the heavy work, of
coirse, and 1 um kept pretty busy with the


 -
she sat pulling out the edges of
feall, and fresh soap when it is needed, and dush es in their bugat, when it is needed, and dust-
oh, yes, and buttons sewed baskets emptied; believe I sew in ans sewed on to the shoes. right after over the house daily, in the morning, " I begin by picking up the things ther Aropped, and putting them in their proper maces cils that 1 go into the library, sharpen the penpens in the penholders the ink-well; see that the not too old, the waste hasket empty: oting pad go through the other rooms, and, if you'll hen 1 hing always find something to be done some sweeping or bedl-making, the work of clearing up, tho gil leit for the general cleaning, or neglected that "It is very pleasant, and helps-at least mother says that it does.", and helps-at least knows what a difference it does "and no one else those chinks filled."

\section*{Old Bachelors and Old Maids}
looks, and that she is quite as young as than she and, judging from appearances, it is safe to infer, deal longer than was formerly youth a great iy the age when the unmarrieg the case. Certaindubbed "old maids" and "old bachelors" depends The cheery, pleasant man
spite of preferring, or, possibly, being condemned to, a life of single blessedness, need condemned by their neighbors. "Old bachelondition given maid" they may be, but wonder is sure to "old "1 eally charming ald "delightful old bachelor" nerer apparently saw fit to make some single, and son happy by taking him or her into the perpartnership of marriage.

\section*{miserable old bachelor ", "han becomes} poraries are just in the prime of his contemthe old maid" is unhesitatingly bestowed the affairs to their busies herself with her neighbors more to blame than to praise in the rising fen One thing is quite sure : it . and old bachelors may be as plentiful as maid borries, and yet equally generally appreciated as long as they preserve in their hearts the milk a
"We are but Little Children Weak."
The face and attitude of each child in this
unique little choir is of itself a study. An mother or any infant-school teacher whis Ans
mathere gathered her little ones around teacher who has afternoon can surely readily recall a similar group, singing some such simple children's hymi as that which forms the subject of our illustra-
tion. There may be in the attire singers whom they remember the difference little tween dainty lace and homespun, but the earnest what they children, their sense of the gravity of what they are doing, or trying to do, "ill be
much the same in the case of each. It seems
heenly alive to the responsibilities of their office as choir leaders, down to the mischievous Tins imagination these little of follow in homes, and to hear them tell to mother and father how they had been singing to-day that
hymn about "ickle child'en weak." II. A

\section*{Domestic Economy}

PUDDINGS
runs the old eusery, some like it cold. Thus day. Puddings both hot and cold is in our boied, ifrozen or chilled, are delightrul, but on lysemappreciated than they sholuld be. A proper in these two favorite American dessert of pie. atly from the much easier of preparation, and as for their also cacy, few persons who have eaten the light deliand spice octions of fruit and flour, eggs, lsugar will unite in singing the average pudding, but puddings are an inheritance from. Ne fruit ancestry, and prove always the most English and delicious of the more substantial desserts. pound af erbreal PUDDING.-Mix one-quarter add a pinch of salt, one pound of sirted flour, molasses, one teaspoonful of ginger gills of holfoughly mixed, one well-beaten egg and when dissolved of milk, in a part of which should be the necessary to a teaspooniul of soda. It may proportioned to use more liquid. It should be The oniginal recipe calls for candied peel Turn in, sultanas, or all three may be used three hours buttered mould or bowl, and boil fo RICE PUDDING.-Wash and soak a cupful sweet milk, and let boil until tender; put into cup pudding pan; add a pint of milk, a smal cup of sugar, a tablespoonful of butter, a teacup eggs; set in a hot oven to beaten yolks of fout Beat the whites of the aggs with four tan hour fuls of powdered sugar; flavor with nutmer spread over the top of the pudding ; set in the IRULES FOR OIN
Richardson's "Rules for Old Age" are a To subsist on light but nutritious diet, with ed according
in the day, including a light meal beiore four imes To clothe warmly but lightly, so that the body To keep the body fair exercise, and the To active and cheerful. in the world, and to take part in going on resent and pleasures, as though old age was To take plenty of sleep during sleeping hours ake care durine hours in bed at least, and ture of the berroom is maintained at 60 degrees


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ar \\
Mr. Wm \\
whet, and
\end{tabular}} \\
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\end{tabular}

Warket, and Mr. F. Fawkner, of London, England, were
(ixitors on the market.
GRAIN AND PRODLCE.
Wheat.-Export demand made wheat firmer. Wheat.

Oats.- Sar lots, 29 c., north, and \(31 \frac{\text { chel. }}{}\).
n this market
Barley.-Trade is quiet, with No. 3 extra quot
roted at 43c. per bushel
and at 66 cc ., east, now shite of at 66 c ., on Midland,

\(\qquad\)
Butter--Receipts moderate, with prices unchanged
19c. to 20c.; creamery prints, 23 c cice pound rolls,
farmers' baskets, butter sells 24 , 23 c. to 24 c .; from Eggs.-The market is firm; supply scarce, owing to cold weather. Fggs sell at from \(12 \frac{1}{2} \mathrm{c}\). to 14 c .
per dozen.
\(\qquad\)
\(\qquad\)
\(\qquad\)\(\$ 1.00\) per bay : \(q u i e t\); on track, quoted at 95 c .
per ton; very choice, \(\$ 16.00\); and at from \(\$ 6.00\)
Straw. - Three loads of s
dressed meats
quarters, per cwt., \(\$ 8.00\); mution, per cwt. \(\$ 9.50\)\(\$ 9.00\); dressed hogs. per cwt., \(\$ 9.25\); dressed hogs.8 tc. : hides No \(\$ 8.75\); hides, No. 1 steers, per th1, per lb., 10 c. ; calfskins, No. 2, per lb., 8c.;

\section*{Cattle Market Improvements}

The facilities of the Toronto Cattle Market have
been further improved by the building of six new pens
at the entrance of the market There are now pens, with an accommodation for 2,500 cattle. Various improvements suggested by drovers, salesmen and comsecond week in may to the new cattle market removing Toronto Junction, and it is reported that ac West commission men have selected their offces. The most
careful attention is paid to the accommodation of stock by the present lessee, Mr. D. H. Atkinson, and the
reasonableness of the fees is shown by the following reasonableness of the fees is shown by the following
comparison of charges at Bulfalo and Toronto comparison of charges at Bulfalo and Toronto:
Feeding.
Buffalo. TToronto.
Hay, per 100 bs
Grain, per bushel
Cattle, per bushel.
Sheep,
Hors,
Wogs, ".

HILLHURST DISPERSION SALE HAMILTON, ONT., AUGUST IIth and 12 th. 80 SHORTHORNS.

M. H. COCHRANE,
hillhurst station, p. Q.
PPETEIR C. IKELLLOGG, Auctioneer, is instructed by MIR. FIRANK Tuesday, May 12, 1903। Hexamer's Hoboken Riding At 10 o'Clock 215 Hudson St., Hob

\section*{85 Imported Jersey Gattle}







DOMINION ROSE COLLECTION








WEBSTER BROS.,
hamilton, canada.
Three grand barcains in dishes.

 ain inidine wiwn









\$2.50 TELESCOPE FOR ONLY \(\$ 1.15\)

 Ls largely grown farmers frequently
fatten large numbers of hors in the alfalfa meadows without doing them
very serious Knows, hogs are not close grazers, but
often do a meandry by rooting. The ingenious Yankee, Farmer Brimh on, has devised a scheme
to prevent this rooting and to make hog pasturing in clover meadows possible
and profitable.
See his ad. in another and pr
column.
STEEL Curbing for silo-build
ing.-Concrete is coming into general use. To make a strong
wall and to economize cement. it it essential that the material be thoroughly
nilxed. Cilcular cement silos are also constantly coming into general favor
Parties builduling larsely with cement who are interested to the construction of read the advertsement of A. E. Hodgert,
Exeler. Ont Exeter, Ont., which appears in another
column, in which he announces that he
is is preppred to supply the expansion steel
rings or curbing used in butiding round
cement sllos and cisterns bnd which con cement sllos and cisterns, and which cann
be readily adapted to any size, from five
foet feet upwards: Hodkert's patent mixer,
which greally taclitates work of mixing cement and gravel. rentlering it mo
unform and exact, is also supplied. Western deyer.opilent.-In study
ing conditions in Western Canata, most remarkable fact is forved upon one,
namely, that American canitalists have been evidently reapiner n hartest by deal.
ing in Canadian lands
 countries, which conficince is showling
itself in the manner in which Amertian colonization compantes are opening up
the Canadian West.
Underlying their confidence is the undeniable fanct of
thousands of settlers of the most excel-
tens lent class from the Republic ourceng
steadily into Western Canada. . \(\begin{aligned} & \text { With }\end{aligned}\)
int Characterाstic conservatism the capitalists of Eastern Canada have been for the
most part slow to realize the aflonantage
of investments in Wroctonn just as some eastern manufacturers hav
been tardy in pushing busincess there is only because of the immensity of the
country that our not serured a greater froportion of th
available Ind in these netr district However, the success of the limerica
land companifes has opemet the eyes. Canncians to the possihlititios they wern
neglect ing. When the situation beearn
\(\qquad\)
\(\qquad\)
\(\qquad\)

IT'S YOUR FAULT AND NOT THE COWS

Mol
 New Century
American
Cream Separator.
THEN there
would more and better cream,
sweeter skim milk, purer
butter, and
hence, profits
less drud-
gery the dairy,
Write us right now. too.
C. RICHARDSON \& CO.

BRITISH COLUMBIA FARMS


 THE SETTLERS' ASSOCIATION,
 \$1.50 READING GLASS FOR 68C


RIBBON BARGAINS
 LARGE ENGLISH YORKSHIRES \\ \section*{\title{
IIMPORTANT AUCTION SALE
} \\ \section*{\title{
IIMPORTANT AUCTION SALE
} of importeo}

AT THE STOCK-YARDS SALE PAVILION, AT HAMILTON, ONT., ON

20 BOARS, ranging from 6 to 15 months. 50 SOWS, mostly in pig to choice English sires. All selected from leading British herds. The most valuable consignment ever imported to America, including many first-class show animals.
S. FRANK SMITH, THOS. INGRAM, GUEL


Never was so good an oppor tunity offered to procure first-class show and breeding stock at the purchaser's own price, as sale will be absolutely unreserved. First-class hotel accommodation at Stockyards Hotel. Catalogues ready May 5th; will be mailed on application.
D. G. FLATT \& SON, MILLGROVE, ONT. TAUCTIONEERS.




GOSSIP.
At the Royal Dublin Spring Show, las Chaloner plate for Shorthorn class, the a warded to Mr. John Handley's massive Toan bull. l'earl king (79531), calved
July, 1900 , sired by Prospect Jarold
(7533) Royal ( 67589 ). Dolly Pearl, by Peari
Roval was first at the Royal at Carlisle last year, fand is said
to have improved seconde wimper in the class was The His Majesty the King's Ronald, calved Secember, 1900, sired by Prince Victor
(73320), and bred at the Royal Fin The reserve number for the championshin. 1901. Mr. Marshall's alsio won the Qued Victoria Chnllenge Cup for the best three
young bulls belonerine to young bulls befonging to a resident of Ire-
land. Mr.J. Deane Willis, of Bapton Mane
will Wiltshire, was also a wer Bapton Mano lithitor, wiming fine first procress, includ
ing firss for con. will whitc Henther

\section*{NOTICE}
\(\qquad\)
\(\qquad\) Prenitce, C4 Orford St,., Itswich. Eng.
we have received Vol we have received Vol. IV. of the Societ y'
herdbook. The volume includes boars
numbering bortwern 535 .



THE FARMER'S ADVOCATE.
Founded 1866

some special features:
Bullt of steel
Open Back The Lightest Made.
Rem Back.
Removable Telescopic Packer Shaft. Three Packers. Runs WIthoat Nois Always Rellable. No Neck weight.
Nilea Tangled Gran every purchaser gives a testimonial.
THE NOXON CO, LTO, INGERSOLL, ONT.綝
sey, England and America than any
Jersey bull. money value of such a bull as Golden Fern's Lad in any country or community or herd cannot be estimated. Hi Illustrious grandsire, it is safe to say has brought tens of thousands, and, pos
sibly to the little Island of Jersey of dollars cause of his prepotency in producing high-class dairy and prizewiuning stock,
Of the females or the females, 1 might say that while Whey themselves were not noted prize they are just the stamp and England females that on the Island are producing the winners. At least, their individual a very desirable lot from which the future owner may ration ably expect to produce the winners him sell have always maintained that
an especially good all-round animat good breeding was, as a rule, more apt
to produce winner to produce winners than the winners
themselves. It must not be inferred themselves. It must not be inferred
from this that I mean to say there are no fenales in this consignment good
enough to win in the show-ring in thid country. There are some females bough as in-calf heifers that if they were back
on the Island to-day and fuct on the Island to-day and just calved
would be held as promising candidates cludes a number of daughters of \(G\) ind Fern's Lad and other noted Island sires
Canadian herds would be greatly imCanadian herds would be greatly im-
proved by the infuston of this new blood
Catalo which address Feter C. Kelloger, auc-
Hen APPRENTICES WANTED
to rew strong young men, 17
es yerirs old, to learn the
McGLARY MFG. COMPANY,
LONDON CANADA


THE FARMER'S ADVOCATE
437


A DE LAVAL Cream Separator will do the same for you. Why not try one now?

The De Laval Separator Co. 77 York St., TORONTO

\section*{emrekia durozara}


FREE SOLD COLD RING


\section*{NOTICE.}

LIFH INSURANCE, a few years amo gambling, has now, through its straight-
forward business methods, whereby is enabled to profitably invest small sums in the interests of his heirs, come
to be one of the most active and sub stantial of the financial active and subForward in this great de-
velopment has been the Confederation Life Association, with head offices in Toronto. The stability of this company
is proverbial and its ramifications are is proverbial and its ramifications are
international.
For an insurance company that has proved its usefulness by long
continuance in business, we refer all to this modern and aggressive association,
whose ad. appears in another column.


\section*{DO YOU WANT• A FORTUNE?}
\$40,000.00 Given Away in Cash In 1,000 Prizes
1st Prize, 810,000,00; 2nd Prize, \$3,000.00; 3rd Prize, \$1,000.0 A Grand Opportunity for You to Share in the Distribution of \(\$ 40,000.00\)


\title{
THE FARMER'S ADVOCATE
}

\section*{IRED STAAR BREAND}

Patent Wire=Falsed Ready Roofing ECONOMICAL, And Heavy-Tarred weit Paper. \({ }^{\text {And }}\) - DURABLE, FIREPROOF


LEAKY SHINGLE ROOFS Mav be made water-lig ho and dur
ABLE, without removing the shinves

You've got some old or new roofs to sot satisfied wavent your
You may be afraid to leave the old rut by trving a roofing material with which tute for them.
In any casg, permit us to say our WIRE-EDGED READY ROOFING is not an are not familiar been selling it it Canad for 20 years. Our annual sales now amount to over lu0, (00) rolls. and mean what we say. Our roofing costs less than shingles, and is morequickly and easily put on.
Nearly all hard ware merchants sell our WIRE-EDGED RE \(A\) WY ROOFIN
Samples and formation from
the PATERSON MANUFACTURING CO.


NEW CENTURY TURNIP After carefuly testing this variet, we have
no hesitation in offering it as one of the very





New Kangaroo Turnip





 JOHN A. BRUCE \& CO., \(\begin{gathered}\text { Seed Merchants, } \\ \text { Hamilton,Can: }\end{gathered}\)

FIEI.D GLASSES-.--50-MILE RANGE---\$3.55
 RECULAR RETAIL PRICE \(\$ 10.00\)
ONLY 47 PAIRS LEFT OUT

 Glasse, Nult aro tho famous pay and Night

Thin are genuine Achromatic asses,

ask not one cent in aivance.
fne a pairof mastes as any deater would sosit
you tor \(\$ 0.00\) a.



Patronize Home Industry, and Save the Payment of Duties.


 ilder up of yount calvec hieal
 Thomas Shaw







The CARNEFAC STOCK FOOD CO


\section*{\(\$ 200.00\) сА'́ㅐ FREE GRAND PUZZLE OF MONTHS AND SEASONS}
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\title{
THE ONTARIO and SAslathehewan LAND CORPORATION, Limited.
}

\author{
Capital, \(\$ 1,000,000\). Divided into \(\mathbf{1 0 , 0 0 0}\) Shares of \(\$ 100\) Each.
}
president-Thos. Long, Esq., Director OFICERS AND DIRECTORS
vice-presidents-Hon. George E. Foster, Managing directors-Sir Daniel h. McMin of Canada, ex-Minister Public Works, Manitoba.
 President The Canadian Savingson, President The Davidson \& Hay, Limited, Director the Union Trust Company Warion Company, etc., Justice Prendergast, Judge Supreme Court Northwest Territories. D. Mrgregoot, Esq., Mayor of the City of Winnipeg. Mbly, Hse. Hon. Mr.
Galt, Ont. SECRETARY-James Turner Scott, Vice-President "Canadian Savings, Loan and Building Association. WESTERN BANKERS-The Union Bank of Canada. GENERAL SOLICITORS-MEssRs. Scott \& Scott, Toront WESTERN SOLICITOR-J. T. Hugiard, Esq., Winnipeg. trustees-The Union Trust Company

\section*{}

THIS CORPORATION has been formed for the purpose of dealing
in lands in Manitoba and the Northwest Territories of dealing Up to a few months ago practically the whole profit from dealing in the lands in the great western portion of our country had been reaped by shrewd American investors, who realized the immense possibilities and the certain future of Western Canada, before we Canadians realized the immense heritage which lay within the boundaries of our own country. In the last months of the year 1902, however the promoters of this Corporation, having, through the different financial institutions with which they are connected, been obliged to make a careful study of the western situation became so thoroghly satisfied of the certain future of the Great West and of the practically assured profit from an investment in Western lands, that they decided to form a company to deal in land in the Canadian West. With that end Big Quill Plains, in something over 125,000 acres was secured in the Big Quill Plains, in the District of Saskatchewan, and a company known as The Eastern and Western Land Corporation, Limited, was formed for the purpose of aqquiring and handling this block. The stock of The Eastern and Western Land Corporation, Limited, was placed upon the market and offered to the public for subscription in January of the present year, and so prompt was the response that
within one month it was necessary to close within one month it was negessary to close the stock books, and But, from a shareholder's shandpoint, the best part wemains refused. told. Before the sales of stock were stopped, arrangements had been made with a large American Land Company for the sale of the whole of the Company's lands at a price so largely in excess of the purchase price that the stock of The Eastern and Western Land Corporation, Limited, is already a very profitable one and is held very firmly by its present holders, and all this was done in less than one month. Can any better proof be given of the wisdom of an investment in W estern lands

At the time The Eastern and Western Land Corporation, Limited, was dealing with the Quill Plains lands, the Directors had in view several other available blocks of land and were having the same care,
fully examined, but waited until the result of the one operation proved on the Canadian public the safety and profit of an investment of this kind. This has now been abundantly shown by the success of The Eastern and Western Land Corporation, Limited, and we have there fore no hesitation in placing before the public the stock of The Ontario and Saskatchewan Land Corporation, Limited.
It is only within the last year or two that Canadians have come country immeasurablys future in a great measure lies in the ll est, a in comfort millions of people. Few in Eastern Canada realize the great progress this Western country is now making, and that before many
years the West will surpass the east in point of population. Immiare inves pouring in, and the people of the United States especially they know is in value. Inver come. Larads in the West are increasing rapidly profits. The Cound to realize handsome acres, as Northwes for the previous year; The Canada for the previad St. Paul, Minnes Company of a profit of some millith acres of land in 1902, at ment Comen The Nompany of St. Paul, Minnesota, sold \(300,(100\) acres in one year : 500,000 acres, and if to and Manit, companies syndian the immense The Ontario and Saratestern country has mate in one year. purchased a large tract of latchewan Land Corporation, Limited, has District, in Wise in the West esern saskatchewan. It has been a tradition for years fore in the world is between the Batle north. In this fertile River, to the south, and the Saskatchewan on the of specially chesen act carefully examining the and our selectors are now in the district along and between the Edin section by section. This land will lie Railway and the transcontinonton extension of the Canadian Pacific way, thus assuring to settlers lines of railway each within empeting For soil, water timb and to markets. in the world, and these points grass and hay this land is unsurpassed land. Our land immediately ar choosing settlers, and also ever \(20,0(0) 0\) setters by the placing of next year practically assures arganizations in this district within the No lands are purchased hy lands. and capable report hy the most and thus practically eve ment in the shares of this comt of risk is eliminated from an investThis is an investment which shay.
blic, as it gives a practical should especially appeal to the Canadian the risk so often hazardous nature, and it is an investment whies doing a business of a in their own country and its future may make, feeling that in so doing they are helping to develop their own land

\section*{The Union Trust Company, Lttl, Now Offers \$800,000 of the Capital Stock} application, 10 per cent. in 30 days thereafter, and 10 per cent. further in \(\mathbf{6 0}\) days, and the balance as called by the Directors, . leemed necessary. Applications for stork will be accepted only in order of their receipt by the Trustees, and should be addressed to ion Trust Company, Limited, Toronto, or from any branch of The Merchants Barge prospectur or the Company may be obtained from The m also applications and payments may he forwarded.
\(\qquad\)

What John T, Gibson, Director Dominion sheen Says About Zenoleum Dip; find Zenoleum very good both for sheep and cattle. Keeps them free from ficks and lice and is also a very good disinfectant

JOHN T. GIBSON, Denfield, Ont.

"The Great Coal Tar Carbolic Dip." ZENNER DISINFECTANT CO., 113 BATES STREET, DETROIT, mICH.

\section*{the WILKINSON PLOUGH CO., Ltd.}


Walking Ploughs,
Gang Ploughs,
Ditchimg Plough
Sidehill Ploughs,
Pick Ploughs,
Railway Plough

Scrapers, wheel and drag Land Rollers, Golf liollers Drag Harrows, Dise Harrows,

Turnip Drills
Turnip Drills Scufflers, Wnsilage Cutters Wheelbarrows, Rooter Ploughs,
Trucks of all kinds.

WRITE AT ONCE FOR PRICES AND PARTICULARS
The WLLXINSON PLOUGH COMPANY, Limited, toronto, canada.

\section*{A Wheel on the Famm}

A wheel is as useful on a farm as a horse - not so expensive, to begin with doesn't eat. It's ready at a moment's notice to take you on a pleasant jaunt to the post office or to your neighbor. It is city transportation in the country. Lately there have been some big improvements in the bicycle, principally the hygienic
\[
\begin{aligned}
& \text { CUSHION } \\
& \text { FRAME }
\end{aligned}
\]


A device that makes all roals smooth roais, that is to wheeling what the Pullman" is to railroading.

\section*{Maxsey=Harria}

4.entioclay C.
roronto Junction.

GOSSIP.
Montana stheepmen are in good spirits They expect to see wool selling at 18
cents a pound this is getting better season. The price bringing three cents along. Wool is the shearing places now thain it wac year ago, and when the buyerace next month flockmasters took for com stantial advance. Winter losses of shee in the greater part of the State hav been light. ' Most flockmasters were in position to feed, but wherever this could not be done losses are heavy. The t commences in this latitute goor Nay.

Recent auction sales of Shorthorns in tha United States have been quite successful and satisfactory, indicating a good de
gree of confidence on the part of breeder in the outlook. At a joint sale at Day-
ton, Uhio, on April 144h, of 30 head from the herds of Messrss. of A. A. Gerage price realized was \(\$ 199.85\). imported two-year-old heifer, Capricious Berlaugh, brought \(\$ 680\), the highest price of the day. Mr. E. S. Kelly
Yellow The next highest price, was the buyer by Robbins \& Sons, Horace was paid the three-year-old, Alexandrian of Oak Grove 2 nd, consigned by Mr. Stuchey.
an association horse
The Hyde Park Clydesdale Association, onsisting of Thos. Ramsay (secy.), Geo Keays, and Leonard Hughes, have purchased
salesman, the Clydesdale stallion, Carron Jamie, sire Gold Found 10200, by Gold Finder, he by Prince of Wales.
Carron Jamie is a bay, weighing over Carron Jamie is a bay, weighing over
eighteen hundred pounds. He is three years old, low-set and solidly built, with good feet and legs and a fine quality of bone. He is an imported horse, being brought out last fall by Mr. Hogate. he won first place in a full class. The Hyyde Park farmers are discriminating breeders, and their selection should continue this district.

Mr. Shean's shorthorn sale Attention is again directed to the dis persal sale on May 8th, of the entire J. Shean, Owen Sound, Ont to Mr. W. of some 30 head of richly-bred cattle headed by the imported three-year-old bull, Marengo's Heydon Duke (77200), son of the Royal champion, Marengo, admitted to have been the best bull
shown in Great Britain in recent years The imported four-year-old Scotch-bred cow, Miss Primrose, is also in the sale, and she is bred to Imp. Marengo's Hey don Duke. Other choicely-bred females are of the Scotch Crimson Flower and
Mina familics Mina fanulies. The choice cow, Augusta
3rd, and her yearling daughter, purchased from W. D. Flatt, are in the sale, and the cow is bred to Imp. Spicy Marquis, the Toronto champlon bull of 1902 There are also a number of handsome heiters and useful young bulls, by im-
ported sires. This sale affords a good opportunity to secure Shorthorns of
ortan superior breeding.
\(\$ 50\) to California and Return Via Chicago \& North-Western Railway. First-class round-trip tickets on sale 18 th , to Los Angeles and San Francisco. Correspondingly low rates from other points. Favorable limits and stop-over privileges. Low one-way settlers' rates to Western points in effect daily until
June 15th. Three trains a day from Chne 15th. Three trains a day from change. Daily and personally conducted Lourist car excursions to California,
Washington and Oregon Washington and Oregon. For particor apply to your nearest ticket agent,
or address, B. H. Bennett, 2 East King

\section*{STRENGTH RESTORED}


Now that it is generally conceded that "Electricity is the Basis of Life," you should give some credit to the theory of my teachings.

It has been demonstrated that Electricity is the most natural of body. Every physician of the ailments which afflict the human reatment, and concedes that it stands is an advocate of electrica specinlly when applied to diseases relating to the medical agents, his is a practical admission of the power of electricity system, erves and vital organs, hence it must be evident to thiky over the that a means of intelligently applying this wonderful ainking person the greatest boon to suffering humanity

When we consider that our nerwouty f life to the kidneys, liver stomer functions of the body, depends for its sustenance upon the vitalizing and the various organi that without this life it is impossible to keep up a normal condition element of electricity, and easy to understand that a waste of this life principal will be followed of health in the body, it is and it is also easy to understand why the natural restoration of this by weakness and disease system will saturate the parious vital which will place every vital part of the body in a state of become weakened with a new energy You read in the papers every day of prominente of natural health.
decide that the cause was "heart failure." Does anybody know what that means people dying suddenly, and the physicians never fails without reason. Find that reason and you will find the acul. ten, exhaustion of vitality. The heart stops beating because the power which runs it is shut say it is, nine times out of which is nerve force
what would the agcriber ine " "Hsart fason of Otawa, Ont. Suppose she had died suddenty in one of those spells, heart. Read this letter :Dr. Molaughin:



I believe in finding the cause of all such troubles and removing it. If it is in the stomach, \(I\) restore the power there supply to the body the Loo many physicians make the mistake of treating the condition and overlookine the cisease
stimulate it with drugs, when they ought to devote the treatment to huilding up the the cause. If a heart is weak they heart failure. Every time the heart is stimulated by a drug its vitality is strained, scomach, which is the real cause of Take Rheumatism; it is found the world over; it does not respect age or sex, rank, condition or occupaty stop short. We are justifed in saying that no other disease numbers so many subjects ; from no disease is the sufferer rendered so help loss, or deserving of pity.

\section*{NOTE THE ACTION OF MY METHOD ON THESE CASES.}

I I have been wearing one of your Bels for abo
 B. POothermatism nor dizziness now, and the blood's circulation is greatly benefted also. Thanking you for your kindness. I remain, dear doctor, yours truly, James





\section*{I WILL PAY \$1,000}

Disease that has not gone as far as Bright's Disease, lndigestion, Constipation, or any weakness caused by ignoring the ciatica, any case of Kidney

\section*{READ MY OFFER :}
know how skeptical people are after paying hundreds of dollars to doctors without getting any benefit, and, knowing that any man would ception about this offer either in the making of it or carrying it out. All I ask is fair manly vigor and health before he pays a cent. That I will be paid when the would honest man will be glad to give. I take all the chances you take none. Insn't that fair? Do you want any better evidence of my confidence in my will arrange a Belt with all not ay this aside and say you wirl try it later, Act upon it to-day-NOW. Tell me what you are suffering from and I

\section*{PAY ONLY WHEN CURED.}

READ M/THAGARE Dr. McLaughlin's Electric Belt is positively the only electric appliance sold where you receive the advice PREFROPM I have a book which gives many hundreds of letters from men whom I have cured. Tells all about the signs of decay ared by electricity. It inspires a man with a desire to be "a man all over." It is full of things a man likes to read. If you will thence troubles are invited. If you cannot call write for this book at once. Get all the good you will
Or. Mclaughlin's Belt is as good for women as for men. I have a Book especlally for women. Free on application

OFFICE HOURS-
DR. M. Sa McLAUGHLIN, 130 Yonge Street, Toronto, Ont.

OUNDED 1868

\section*{"A FREE SAMPLE PACKET"}
of Delicious "SALADA" ('eylon Tea (Black, Mixed or Natural (Green) will be sent to any person filling in this coupon and sending it to us with a two-cent stamp for postage. (Write plafilly and mention nlack,

Name.
Address.
"Farmer's
Advocate.
Address "SALADA" tea co., toronto. on


Never Put Off till Tomorrow What You Can Do Today. A factory-woven fence will cost the farmer from 40 c to SELIEIRH FENCE MACHINE builds a better rence on the posts at a cost or 25 c to 35 c per SELKIRF FENCE CO
SELRIRK FENCE CO., Welland, Ont


Carriers, Fork and Sling Caries, Eork and Shings



 JAMIES WV. PROWAN.

New Overland Service. Three thro' trains Chicago to San Francisco every day via the (hicago, Milwaukee © St. Paul and Union Pacific line. California is less than three days from Chicago via this route l irect connections for North Pacific Coast points.
A J. Tay Lor, Can. Freight \& Pass'r Ag't, 8 King St. East, Toronto, Ont.

The LARIMER DITCHING PLOUGH
MODEL WOHDEETS MIXER
 mine of trypy

Gossip.
THE MARKham sale of importel SCOTCH SHORTHORNS
and stock-raisers thousands of farmers and stock-raisers who read the "Farm-
er's Advocate" have recently turned to the great clearing sale of the herds of imported Shorthotgn cattle belonging to Messrs. John and George Isaac, to be held in the historic village of Markham, on May 13th, as advertised elsewhere in this paper. The sale is rendered imperative by the fect of Messrs. Isaac having disposed of their farms and their decision to retire from business. Having probably imported more high-class Scotch-bred cattle in the last 25 years than any other firm in Canada, many of the best herds in the Dominion and the
most successful in prizervinning at the principal shows having been founded on their importations, they have well earned
the rest they seek. Acknowledged to the rest they seek. Acknowledged to be as breeders of Shorthorns, they bere made it the study of their lives and have been eminently successful. Having full faith in the merits of the type of Shorthorns evolved by Cruickshank, Campbell and their contemporary Aberdeenshire breeders, and availing themselves largely of its influence, they have yet refused to be bound by any cast-iron formula of line breeding, but have made good feeding and early maturing and ities the standord maturing qualing and breeding, and while their present offering, carefully selected, comprises many good representatives of the popular fammies found in the records of the far-famed herds of the departed
heroes in breeding circles whose names have been honored the world over for their work's sake, as well as their own,
yet the Messrs. Isaac have been sufficientyet the Messrs. Isaac have been sufficient-
ly far-sighted to recognize that it. is ly far-sighted to recognize that it is
impracticable to always live in the past and sufficiently free from prejudice to fee free to select from soundly-bred
herds oi more recent reputation raised herds oi more recent reputation raised
under similar conditions and under similar conditions and partaking
largely of the same blood throuch a suc largely of the same blood through a suc-
cession of seiected sires of cession of seiected sires of high-class
quality and which have produced most of the prizewinners at leading British shows in recent years. The offering at the Markham sale, therefore, combines in high degree good breeding and in-
dividual merit, by which is meant robustness of constitution, symmetry of form, an abundance of natural flesh and
hair and conformity to the approved type of modern Shorthorn so generally
and universaliy sought aiter. Since and universaliy sought after. Since
samples of their breeding were given in
the last number of the Advocate." and the catalogues are now in the hands
of the people, it is unnecessary to add or the people, it is unnecessary to add
to the lise would, however,
emphasize the favorableness of this optortunity for the purchase of foundation
stock new and approved blood for the
stremyshening and building up of existing herds which have been up of exist-
depleted by sales to

that would not be benefited by the addition of one or more of these catlue, and
we hope to see them all remain in the we hope to see then all remain in the of promise, most of them just coming
into use as breeders, some with youngr
notwe alves at fool, and the majority in calf
o first-class imported
\(\qquad\)

DOLLARS



The Chatham Incubator Will pay for itself in one hatch. It is built to
lasta a ifeetime and will hatch a dozen broods a
year. The prices are right Th ter yeer. The prices are right. In the guarantee
weloed where othergmaker dares to follow.
Write for catalogue and puics.
The IM. CAMPBELL FANNIVG MILL CO CHATHAM, ONT. EUGGB! EGGA: EGAS: Bufit Orpington and

BARRED ROCK EGGS
From a pen of 40 Barred Rock hens, selected for
their good laying qualilities; nice barring, and are all
larke, strong.boned, healthy bivd large, strong. bo , ed, healthy biridd buving the free
runt of orohard and mated with 2 choice cockerels,
utra well barred ond extra well barred, and of a fine type. \(\$ 1\) per setting
of 13 , or \(\$ 2\) for 3 settinge. W. C. SHEARER, вRIQнт, ont.
\(\mathrm{c}_{\substack{\text { The } \\ \text { Dantes } \\ \text { Incubators }}}\)


Are the latest and
most modern inven. tion for artiffoial tion for artifioial
hatching of turkeys,
chickens and ducks, Do not forget, we Suarantee the Dan-
lels incubators to be
satisfactory to the Eawain wow
 C. J. DANIELS, R198 to 2000 St. TORONTO. Poultry and Eggs Wanted
 TURKEYS Highesc market prices pald. GEESE orpordence
Toronto Poultry and Produce Co, GROS RORONTO.

 an be pettit, , griftana, ont Eggs for Hatching Trared Rookso exiluivivel-


Eggs for Hatching
 olor, mate to to aying qualities and splendid
orge, robust, National-
train cockerel to al ler set,


EGGS FOR HATCHING-white Wrans, on EGGS FOR HATCHING-White Wyandotte


EGGS FOR HATCHING.

 From three qrand pens of Felch's Barred Rock
\(\$ 1 ; 0\) per setting of 15 . FOREST CITY POULTAVAP, On



\section*{MA) 1,1903}

\section*{The Quick Pace of Declining Health}

\section*{Wasted Nerves and Weakened Bodies Give Way to Suffering and Disease. New Hope, New Health, New Life, New Energy, come with the} Use of Dr. Chase's Nerve Food,
THERE are hosts of people who are susceptible to attacks of various kinds of illness. Their systems are ever read They lack resisting power, and health declines because test trial and their health is jeopardized by every trivial exposure slight weakness, stomach annoyance, headache Hlutere is no nerve force to make good the waste by disease. At first thing is lacking-that something is nerve fore will increase, until lost vitality is evpressed until the stock of nerve force is replenished the pace of declining health Pale, languid, nerve-shattered
FOOD. It supplies the wants of wasted nerves, rebuilds what they require in DR. CHASE'S NERVE are due to the fact that it restores natural nerve fore, it wast wonderful cures Brain nerves, heart nerves, stomach nerves, give out and all sorts of troubles follows most suffering these days


MISS BUTLER
Miss F. Butler, 1323 Mill St., London, Ont., states: "I was very an to use Dr. Chase's Nerve Food nd can now say that I have received more benefit from this medicine than any which I have ever used for my trouble. I used to be very nervous nd suffered a great deal from nervous eadaches, but these ailments have anirely disappeared and my health enerally is better than it has been for ears. I fully believe that this is th result of using Dr. Chase's Nerve Food.


MRS. HAIRRISON
Mrs. T. Harrison, 734 Victoria Huspuve tor, Ont., AND whos "For some time haver, states with pains in \(m y\) have been trouble me a sreat deal At which bothered feelings in my. At times I had dizzy from c.vere headaches would suffer endorse Dr. Chase's Norve Food, bedist. It has entirely freed me of these my ...ing symptoms and so built up

\section*{DR. CHASE'S NERVE FOOD}

Is the greatest restorative known to medical science, and as it acts in accordance with the laws of nature and is a food cure, it is bound to do you good. 50 c . a box, 6 boxes for \(\$ 2.50\). At all dealers, or by mail, postpaid, from Edmanson, Bates \& Company, Toronto.


MR. DURAND Mr. Uhas. Durand, James St.
Bellevilefe,
Ont, some years I have been a victim of ervousness and have suffered from eakness and palpitation of the heart uffered a lot from headaches and dizzy pells. About six weeks ago it bega an use of Dr. Chase's Nerve Food, and has been built up, the action of \(m y\) heart steadied and strengthened and he headaches and dizzy spells have hr. Chase's Nerve Food recommenc superior medicine.

\section*{For Your Protection}

The popularity of Dr. Chase's Nerve Food has given rise to imitations. To protect you against all such the por-
rait and signature of Dr. A. W. Chase he famous recipe-book author, are on strongest guarantee which any medi.

\section*{We will forfeit \(\$ 500\)} if these testimonials are not genuine.


MRS. BATTISON Mrs. C. Battison, 373 Murray St., time I was a sufferer from nervousnese dizziness, nervous headache and rheumatism. I had the rheumatic pains ago I began the use of Dr. Chase's
are Nerve Food and Dr. Chase's KidneyLiver Pills, and have found that these medicines worked together most satisaltogether several boxes of the Nerve Food, and am now entirely cured of my old trouble. I know of others who cureci, and I can therefore heartily recommend them."


MIR. WARING
Harwood Warivg, \(: 3\) Portlind greatly from pains in my head, result vous system sremed nerves. My nerI was anything but well. Since using Wr. Chase's Nerve Food I can say that yous system has been person. My neram entirely free from the up, and I headaches which used to make me feel


MAY 1,1903
Honsewell The olly gellulle is
\(\begin{aligned} & \text { COMBAULTS } \\ & \text { CAUSTIC BALSAM }\end{aligned}\)
 sumpatis thaitis icl Clevelano.



 REM RBBON MTD Shire Horses
 in the Dominion,


 MORRIS \& WELLINGTON, Fonthill P. O., Welland County, Ont.

\section*{Thorncliffe Stock Farm}

ROBERT DAVIES usually has on hand some fine specimens
Clydesdales, Hackneys. Clydesdales, Hackneys,
Jersey and Ayrshire Cattle Jersey and Ayrs
Yorkshire Pigs.
Correspondence solicited. Visitors alwas
welcome at THORNCLIFFE,


Buy he ABSORRBINE A. athe



DR. PAGE'S ENGLISH SPAVIN CURE


THE FARMER'S ADVOCATE


JOHN BRIGHT, MYRTLE, ONTARIO, Clydesdales and Shorthorns,

Is now offering for sale 8 stallions, sired by such horses as Prince Patrick (imp.), Erskine's
Pride (imp.), Sir Frakine (imp) ence (imp.), Sir Erskine (imp.), Royal LaurShorthorns if ef all number of mares and fillies. Miss Ramsden, Clementina strawherry families as son Flower, Village Giirl, Stawberry, Crimson
ete. Myrtle Station, G. T. R. and C. P. R. Farm connected by long-distance telephone.
Hodgkinson Tisdale BEAVERTON, ONT.

CLYDESDALE AND HACKNEY HORSES AND SHORTHORN CATTLE.


 IMPORTED LAST SEPTEMBER
THOROUGHLY ACCLIMATED.
The up-to-date drafter, big and medium weight, dark colors, sbort, straight back, no hair on legs, immense rumps, pony-built body.
Not a shagey lump of fat. A Kloadyke in Not a shaggy lump of fat. A Klondyke in
yoor s able. Honest value for honest money,

BARON DE CHAMPLOUIS, Imporitar,
danville, quebec.

\section*{100 PERCHERON, SHIRE AND HACKNEY STALLIONS} AND MARES


LEW. W. COCHRAN,
607 West main st.. crawfordsvilete. ind.. u.s.a.


NEW IMPORTATION ARRIVED FEBRUARY 20, 1903 First-class Clydesdale Stallions
 to purchase spoulio write ory callo on are for sale at very reasonable prices. Perronse desiring WM. COLQUHOUN, Mitchell P. O. and G.T. R. Station, Ont

\section*{Imp, Clydesdales aje Shorthorns}


International Importing Barn, Sarnia, Ontario, J.B.HOGAT
 5
-9 Well as ornamental. \(\begin{aligned} & \text { proving herself useful as } \\ & \text { Roan Lady } 4 \mathrm{th} \text {, a }\end{aligned}\)
thick. ond year-old heifer, bred by Mr. Young, Til-
bouries, and sired by Scottich Prince ia strong card, and Scottish Prince, is
making a promise of
grand cow yearling heifers, a red and a roandsome full
of quality and symmetry, one a Jilt, and out of Imp. Fancy 4th, by the
Bruce-bred John Bull ; the other, out
of of Imp. Countess of Balmoral, by the
Duthie-bred Velvet Jacket, are charming
things, things, full of substance and style. These
are but samples of this large and excellent herd, and represent but a few of the favorite Scotch families included,
but will serve to give some idea of the
general character of the cattle in a herd general character of the cattle in a herd
of which comparatively little is heard, owing to the modesty and retiring disposition of the owners, but which, in
breeding and individual merit rand breeding and individual merit ranks
high among the best in the Dominion high among the best in the Dominion,
as does also the character of the owners
in the list of breeders.
feared hus " handle-bars." It is noted with sofie degree of swelled-
upness that the world not only looks to the Union Stock Yards for the basis of meat supplies, but the great and only
Chicago gets more of less of her romance from stock-yard sources.. buds over in Ken wood began to tanguish
and look sleepy, when a huge steer from the stock-salus. and horns as long as
rails, got loose and strayed over into
the the pious, prohibition annex of Ken-
wood, and then and there cut out the patlern lor a few romantic thrills that
will kep the dear girls in a tremble
until it is time to begin worrying about until it is time to begin worrying about
the Easter head-year. It is rumored,
but so far as yours modestly is con-
cerned will always reman pernety win always reman rumor, that
prety posies of Kenwood who
are up-to-date now wear climbers are in perpetual readiness to climbly bovines that maty "scapie from the stockyards and go
Stock World.

\section*{notice.}
chasing annt ting in the live of parm
implements, the reaters of thin

pears in another columertisement apr
pany is a pioneer concern in
been associated with the agricultum
machine business as a maminature in
ore than thirty seats.


AYRSHIRES and POULTRY.
h. Ness \& Sons, Howich, Jue,
importers of Clyde, Percheron
and Hackney shire cattle, and poultry, have
for sale 5 Cliye stallions, sired ney, winners. Ayrrick, I Percheron, and I Hack-



Concrete Piggery and Henhouse THOROLD CEMENT


Tbe henhouse.
Wall, from foundation to pean, built
with THoRoLi CEMEVk. \(\qquad\) THE PIGGRY
thilt with Th \()\)

> read what mr. lockwood says:

Estatr of John Batcle
DEAR Manuacturers of Thorold Cement, Thorold Ont. DELLAWARE, OATT, March 16, 19000



 FRAD
FRAN the townshp
LOCKWOOD.

\section*{Looking for a Good Cream Separator?}

HERE YOU ARE


\section*{MAGNET} SEPARATORS
are guaranteed to do gond work, gnd do
it quickly. Are made SNIRONG, VIEIRY it quickly. Are made STHRONG, VEIRY
SIMPLE, and by actual daily use have proved themselves to be the Cream Separa-
tor for the farmer. Have you seen the

TOP BEARING
for the bowl?
When you are ready to consider the purchase of a Separator, let us or oure
agent place one with you on trial. We

It Will Pay You
farmers welcome
AT OUR FACTORY.

PETRIE MANUFAOTURING GUELPH, ONT

\section*{GOSSIP. Attention is directed to the advertise
ment, on another page, of the herd choice Jersey cattle belonging to the estate of the late Mrs. E. M. Jones, of
Brockville, Ont, all of which by the terms of Mrs. Jones' will, are to be sold. An opportunity is here afforded of securing high-class dairy cattle that
have been bred from large producers and have been bred from large producers and
have proven large producers by actual test. See the advertisement, and write Cor particulars to Miss Elsie Jones, bo
324 , Brockuille} \(\square-1\)
In our April 1st issue, in reviewing of Exeeter. Messrs. Bawden \& Mcidonell. ly made to the imported stallion, Cannongate, as a Shire horse, whereas be is
Clydesdaie, and a good big one, stand ing 17 hands and weighing about 2,200 ibs. He stood at Paisley, Scintaril, as a district horse at \(£ 400(\$ 2,000)\) for
the season. He is for sule, and is o the sort that is needed to breed big
heavy drafters, which sell for good
\(\qquad\)
lakeland shorthorns.
This noted herd of choice, up-to-date
Scotch Shorthorn of Mr. Geo. B. Rristow, of Rob Fioy Ont., whose splendid farm, Lakeland, is stuated eleven miles south-west of the
town of Collingwood and six miles west of Duntroon station, G. T. R. Thirtyseven years ago, Mr. Bristow estabiished nized as one of the banner hards recog ada, this desirable result having been attained through the owner's keen fore fect farmililirity with judgment and per sect farnimarty with the type that con-
stitutes the perfect animal, and his thorough knowledge of the various
tribes or families tribes or families of the Shorthorn
world ;' in fact, he is often spoken of as the "walking herdbook." This grand herd is made up of the well and favor-
ably known Village (iirl aud Wimple families, the former originating froin the excellent cow, Imp. Village Girl, bred
by the late Amos Cruickshank;
the latter, from the favorite cow, Wimple's's
Gemp (imp. in dam). On these have been used such renowned bull as Butter-
fy's Athelstane 1545 , Sir Arthur Incram Ay's A thelstane 1545, Sir Arthur Ingram
3452 , Burgomaster's G loster 11783 (who is sire of a number now in the herd),
and village Squire 24993 , great Abbotsford.
He is also the sire of a number now in the herd, Included
in this bull's pedigree are perhaps utore winners than can be found in any other Victor 22170 , \(a\) son of the noted bull, Imp. Albert Victor, is the stre of miost present stock bull is the typically-formed and richly-bred Royal Mildred \(45: 33\), a
son of Watt's Royal Wonder, a firstprize Toronto winner, by Imp, Reval
Sailor: dam Mildred 8th, grand Clan Stuart: g-grandam by Hospolar:
 gree contimines the best, most useiul and
most fashionable blood ever imported, while his form is well-ulith faullitess and
his his ilish the finest, He will in all
probability compete for honors at To-
ronte next fall splendid, low-down thick-festhed cons as
those of the T.akeland herd, we mars lcok for something superior in the produce.

\footnotetext{
NOTICE.
}
\(\qquad\)



The best and safest way to keep Baby's skin healthy is to use only
BABY'S OWN SOAP
Pute, Dain Delicate Beware of Imitations. albert tollet soap co, mfrs. mowtreal. ROYAL DRY HOP YEASTCAKES

E. W. GILLETT COMPANY toronto, ont.
GIREEN GROVE SHORTHOIRNS parilig herd comprises such noted familiea an Non
 fecond priza at Srory Robin \(=28259=\) winner
 Wite Leghorn fowl. Egg, 81 per tetting
 Shorthorns, Leicesters, and Berlishires


\section*{S. DYMENT, BARRIE, ONT}

Breader of Scotch Shorthorns

CHARLES RANKIN, WYEBRIDGE, ONT. Shorthorns, Oxford Downs and Berkshlire Pigs Lakeview Shorthorns, \(\begin{gathered}\text { Herd repre. } \\ \text { Bent od by }\end{gathered}\)

 OAK LANE STOCK FARM.
Shorthorns, Cotswolds,
Yorkshires and
Barred Rock Fowls,

GOODFELLOW BROS., macvile omt.

MAY 1, 1903


Mibh Hilass Shorthorns
 Jas. MoARTHUR, - Goble's, Ontarlo. EHORTTHONENs
 LOUIS ELLARD, Loretta P.O., Beeton Sta. SHORTHORNS FOR SALE. Three young bulls of choicest breding and qual.
ity ; also cows aud heiterti 0 wen Sound Station. ALEX. FLEMING, Jr... \({ }^{\circ}\) For Sale: one reisered SHORTHORN BULL


\section*{mercer's shorthorlis}

Comprise Missies, Stamfords, Floras, Clarets,
Princesses, Red Reses,
ions and Matchlesses., Thung
Sterlings, Fashfor sale. There ares. several number 60 head
heice heifers, 17
heaifer calves, 3 bulls fit for service and 4 bull
calves. A few older females, Thos, Mercer, Markdale P. O. and Station. SHORTHORN CATILE and Oxford Down eheep. head of herd. Present offering: Prince Houng bumer at and
heifers from imported and home-bred cews ; also a
ohoice lot
 dire. JAMES TOLTUN SON, Walkerton,
Unt. Farm 3i miles west of Walkerton Station. om SHORTHORNS. Imp. Christopher \(=28859=\) heade
heilers and bulls ford.
heale, of tow oldoingee young cows,
 HA WYTHEDRRN HIEIRID FOR BAIE: Four young bulls, from 8 to
montho old, from Al dairy cowe. Good onee. om WM. GRAINGER\& \&ON,
Greengrove Shorthorns Number or hice head


W. G. PETTIT \& SONS FREEMAN, ONT., CAN.

\section*{Scotch Shorthorns}
and SHROPSHIRE SHEEP,
\({ }^{8}\) Imported balls coming 2 years old. 8 from imported sire and damonthe old
 Imp. and home-bred cows and heifers of
Oares.
Out ontire flock of Shropshire sheep. 78
head. JAS. GIBB, SUNNYSIDE STOCK FARM, \({ }_{\substack{\text { Brrpopr } \\ \text { op }}}\) SHORTHORN CATTLE, \(\begin{gathered}\text { stock } \\ \text { for sale }\end{gathered}\) JOHN DRYDEN \& SON, BrROOILIN, ONTABIO,
or
or
ORUIOKS OFANK SHORTHORNS AM,
SHROPSHITE BHEEP.
Five choice young CRUICKSHANK, bulls.
Straight, Bmooth, low-down and of show-yard type.
Vlisitors welcome. SCOTCH SHORTHORNS \(\underset{\substack{\text { Bimpor } \\ \text { SALB }}}{\text { Bom }}\)
 Rockwood P. ©. and Sta., G. T. R
RThe "STAY THERE"; (T) SiAN NRERE 난․․․․ \(+\cdots=\)


THE FARMER'S ADVOCATE

\section*{}

This Fence is particularly suited for cemetery, orchard and garden. Made of wickets
inche wide and any lenth required. The price is less than that of the other ornamiental
fences, and in a long stretch this irectide The ANCHOR FENCE is made of all No. 9 wire, either plain or coilen.

ESSPIEN IRIRAME AE CO.
stratforid, Ont

A new house, barn, silo, concrete floor, or any other such work? If so, use

\section*{Queenston Cement}

\(T \mathrm{HE}\) old brand made by a new made. All who contemplate using made. All who contemplate using ferent structures built of the different kinds of cement, and then
they would know which is best and cheapest. We especially request patrons about the ask our many Queenston Cement used during the latter part of last season. Do not
be misled by statements from the be misled by statements from those
who sell the goods most profitable to themselves. Write for prices, estimates and full particulars.
We can save money for you when building.
ISAAC USHER,
ONTARIO.
Qubenston,


Jennie Codling Moth-"Oh, ma
ma! that awful Vesuvius in eruption, and all of our neighbors have been destroyed."
Mother Codling Moth-" My dear is undoubtedly the terrible Spramo-
tor, and if so, we are doomed."

Spramotor Treatise of 80 pages,
entitled © A Gold entitled "A Gold Mine on Your
Farm," mail.d free. Address : om Spramotor Co.
AMOTOR
P.E.SHENT'TK, PRESTON ONTARIO.

Binders, Mowers, Rake
Plows, Gang Plows, Scuffiers,
Steel Rohters, 3 section, weight 1060 llos .
I) iamond Harrows, Square and Flat IBulls, Sugar-beet Drills, Cultivators and Lifter:

\footnotetext{
Wrioite tor Prices at once
}
J. \& iv. B. WATT Shorthorns, Clydesdales and Berkshires
 Sootish feer, head the herd. I mported and home-rred corroy and A fow choice soung bullso on hamd sad heiters tor sale Our herd at Toronto won three flrsta, a second and
om
third out of five herdo olaseses. Balom P.0. sad Tologaph 0 Illoc. Elora Sta., C. P.B., O.T E

\section*{ARTHUR Johnston,}

GREENWOOD, OHTARIO,
Offers for sale at times' prices, 6 young
SHORTHORN BULLS, SHORTHORN BULLS, from imp. dams
and by imp. sires. 6 Yor va bulls, of purést Scotch breeding 10 y irling and A two-vear-ollil

Orchard Hill Shorthorns. 1 amm now offering 1 to two years, 4 bulls from 10 toirersirom six monthy monthe ond, and
7 very heary millking cows. Here iif a rare chanoe to


\section*{QHORTHORNE。} Importer and breeder of choice Short horns
Scottish Hero 15672 at the head of herd.
om
JAS. A. CHERAR, Shalrespeare, pennabank stock farm
为 SHORTHORNS and CLYDESDALES.

Johrmble (anominiont. SHORTHORNS (IMP.) Paty maple looge trook farm




\section*{Shorthorns, Berkshires and Leicesters.} For sALE: Choice two-- ear-old heilera, well gone
in calf; alao yearling heifers, bull oalves. Boars
and sows it or breeding ind youns ISRAEL GROFF, ALMA, ONTARIO.

\section*{SHORTHORNS}

Imp. R
 ERDMOND BROS . Mbbrook Sta. and P. BONNIE \({ }^{40}\) rods north of Stouffille station, BURN \(\begin{gathered}\text { Shrophirees and Berkshires from } \\ \text { STOCK } \\ \text { imported and Conalian bred fowm } \\ \text { Alf }\end{gathered}\)

 SHORTHORNS (importell) Ane imported and one Canadian-bred bull.
om THO8. RUBSELL. EXETER. ONT Shorthorns and Shropshires. Scotch and Scotcch.



\section*{NATIONAL}

\section*{WILL DO.}

It will increase the yield of butter about 1 lb .
per week, and about 30 to 60 lbs. per year, and per week, and about 30 to 60 lbs. per year, and
will par o on its cost price annually with one
cow, and pay for itself in one year with 12 to It will be placed on trial beside any other
Cream Separator and prove to be superior in construction for convenience easy operating,
cleaning, closes \&kiimming, quality of cream and
butter, style, fno fnish nity butter, style, froe fnishg and quastivo of cream and
The onvice
and all parts maan Separator having its bowl The only Cream Separator having its bowl
and all parts made and fliighed in on shop in
Canada under the supervision of the best
Cread Sond Canada under the supervision of the best
Cream Separator experts oblainable. the
The bowl is not flled with innumer The bowl is not filled with innumerable com-
pitated parts to adjut thd washer every time
It is used. It has no stable-tainted, enamelled casinged. into whas no stable-tainted, enamelled
charged, that requires milk watd cream is dis.
wash wash it every time it is used. \(\begin{aligned} & \text { Ther at the barn to } \\ & \text { tT he National is designed for convenience and } \\ & \text { to overoome every objectionable feature found }\end{aligned}\) The National is designed for convenience and
to overocome every objectionable feature found
in other Cream searatoren
sent in other Cream separators. A sample machine
sent for a free trial to prove all that is claimed
for the Nationai.

NATINNL No. 1 A.
Capacity, 450 to 500 lbs. per hour
Capacity, T30 to AL 350 los. per hour.
Capacity, 250 lbs . per hour
Give the National a trial. Send for particu
lars to any of the following general agencies
The CREAMERY SUPPLY CO., Guelph, for South-western Ontario, The T. C. ROGERS CO., Guelph, for Ontario North and East. JOS. A. MERRICK, Winnipeg, Man, for Manitoba and N.-W. T. John A. ROBERTSON, 108 Union Avenue, Montreal, Quebec.

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PINE GROVE SHOBTHORNS ANO SHROPSHRES. Our herd comprises over 150 females, including our last importation of 30 head, all of the
motsesteemed strains. Off Shropshires, we offer a few choice rams, also high-class ewes bred
to first-class rams. Address W. G. EDWARDS \& CO. Ontario SHORTHORNS
\(\mathrm{W}^{\mathrm{E}}\) are offering for sat e grand lot of young imported Sootch cows and heifers Herd Numbers 150 Head.

Send for New Catalogue. VIIITORS WELCOME, AND CORRESPONDENCE PROM TY ATTENDED TO.

\section*{H. Cargill \& Son,}


\section*{12 SHORTHORN BULLS}

First-class Scotch Breeding. CHOICE QUALITY. LOW PRICES.
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H. I. DAVIS, wOODSTOCK, ONT. MAITLAND EANK STOCK FARM

H. PARKER, RIVERGARM,

\begin{tabular}{|c|}
\hline \begin{tabular}{l}
BOOK REVIEW. \\
Any book reviewed in this department may atered through this office,
at the price stated. \\
onion growing. \\
Onion growing is becoming one of the greatest of garden specialties in America ; hence the need for a good text-book on the subject for gardeners. "The New Onion Culture," by T. Grenier, one of the best authorities of the day, fills the bill. A new edition, re-written and enlarged, has been issued by the Orange, Judd Co., at 50 c . per copy. It contains 150 pages, is well bound and illustrated. Clear and minute directions are given of how the plants are grown ; the cold frame; seed-bed; planting; fire hotbed; hotbeds heated by steam; cheap greenhouse for market gardeners; greenhouse heated by hot water; quantity of seed required; time of sowing; varieties; what soil to select; how to manure and prepare it ; onions on muck soil ; clean soil essential; how the plants are set in the ground; tillage as moisture pre-
server and weed killer; tools of tillage;
\end{tabular} \\
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Spring Grove Stock Farm Shorthorn Cattle and Lincoln Sheep.

T. E. ROBSON, ILDERTON, ONT.

SCOTCH COWS and HEIFERS fir good quality, in call to one of the great Scotob
firs of the period, and a few young bulls, for sale at prices you can standi. Shropshire tam
 ROBFRT MILLER, - STOUFFVILLE, ONT.
SCOTCH SHORTHORUS AND SHROPSHIRES. Present ofreriny: - Have still on hand one bull and
tore heifers and a few oows. Shropaires of both
gexeen and dill Bexes and all agee
BELL
BROS.,
Bradford P.O. and Station.
SHORTHORNS, Lady Fannys and Beautys for sale
 James Caskey, Tiverton P.O., Kineardine Sta.

\footnotetext{

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 john mofarlane, - dutton, ont
Shorthorn Cattle, Lincoln Sheep

Camilies. Linoolng won more than halt th
can ; International, Chicago, 1901 and 1902
SHORTHORNS: we are ofitiring 3 extr 1 , choice yearilipg bulte
 GRANDVIEW SHORTHORNS


H. K FAIRBAIRN roqe cottage,
Thedford P. O. and Station. ling beifers, months old, 10 cows, 3 year
two year-old in calt, Royal Prince \(=31241=\) her all the get on BEAVER VALLEY SHORTHORNS


\section*{Feed Your Land}

\section*{Potash}

Sow potash and rewa dout Our five books are a complete treatise or
ferrilizers, writen by men who know. Write

GERMAN KALI WORKS,

anger in delay ; signs of maturity uring the crop; curing sheds; weight and profits of the new way; advantages of cost and returns. Copies may be

\section*{GOSSIP}

Mr. Jas. Bowman, Guelph, who is a
of choice varieties. See the ad.

An important aunouncement in our adcoming dispersion sale, by auction, at 12 th , of the entire herd of Shorthorns of Hillhurst, Quebec, consisting of 80 head of importerl and home-bred animals Morning, Imp. Scottish Hero and Imp. bulls, fit for service now, few choice young sale privately. The dispersion of this
noted herd is rendered necessary by the advanced age of Senator Cochrane and
his desire to lines. Further notices of this importan offering may be looked for in followin
issues of the "Adyocat o"

Farnilam Shorthorns.
Forty-nine years ago this herd
Shorthorns, known as the Farnha
Farm Henry Arkell, of Arkell, Ont., was estat
lished. Mr. Arkell known over a goodly share of the con
tinent breeder of the noted Farmham flock o
Oxford Down sheep. The Shother represent the well-known, heavy-milking
Miss Syme Miss Syme, Beauty and Leonore of
Sylvan families, and are the get of such well-known bulls as Indian Brave 2150
Sunset 8561 , Wellington 22537 . low 10916, The Governor 122s9, Girave
end Boy 15982, Buchan Hero 41369 and ing the sire of most of the young things,
ers and one eleven-months-old bull, sired
by Imp. Sittyton Conqueror, dam Bel]
of Corwin of Corwin 34358, by The Red Rover
This young bull is an extra nice, evell
animal, and will no doubt develop, into
somethine guite now something quite above the average. The
heifers, too, are a nice, smooth, eche
lot. Thee pressut stock bull is the
richlys-bred and beautifull-lyuill sion
\(\qquad\)

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built for sherman harris, verschoyle, ontario 4 feet in diameter and 30 feet high,

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THE RATHBUN

Maple Grange Shothtorins Sired by such Soctch bulls, as Commodore 31025 ,
Soottish Bard, Imp. Baron's
Heir. 18 heifers, 12 buills, , number of cows (heavy milkers), to be bold
well worth the monet. Owen Sound P. . J. DOYd Station and Port. Shorthorns and Berkshires. Blue Ribbon (imp.). by Arthur Bright, Dunblane and
Berkshires of the baco tyy MAC CAMPBELL, BELLEVUE SHORTHORNS. Both sexes. Imported and home-bred, all agee Prizewinners at hormed and abroad. Pr . 0 . and Port.
EDWIN BATTYE, Gore Bay CHOICE SHORTHORNS. 7
\(3-2 \mathrm{E}\)
 WM. MeDERMOTT iving Springs P. 0 .

Imp. Shorthorns and Lincolns a. D. mogugan

 R. MITCHELL \& SONS Scoten Shorthorns

 \begin{tabular}{l} 
Burling 1 .on Jet. Station and Tele, Offce \\
on \\
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\end{tabular} tiee a sq.00 package portpaid, nake any cow ander 10 years old bred bed
or retund.
twioe a d. ney. No trouble, no risk. Given in feed twioe a d
 Write progeny. Price, \$225 W. W. EVERITT, Dun-Edin Park Farm,
Box 552 .
onatham

 I. B. HINMAN © BONB. ORAFTON, ONT JERSEY CATTLE \(\begin{gathered}\text { Fit for } \\ \text { St. Louls. }\end{gathered}\) The herd of the late MRS. E. M. JONES is This magnificent herd represents 30 years of careful breed ing ant selection by
one of the first among the ackno perto of A first among the acknowledged ex
ghlendid 3-year-old bull
milk ing cows, of which on ordion 9 milk ing cows. of which on ordinary feed of
herd, one yieldr 16 los. butter at . Week ; rising
3 , made on first calves. 13 lbs. 13t ozs, 11 lbs
 ever stood in this celebrated home of beautivul
Jerees; 2 yearling heifers; heaifer call
bull calves
 Jersey Bulls Out of tested show cows and sired by Brampton's
Monarch (imp.) As we have the lar argest herd of
pure-bred Jerseys in Canada, we are able to offer reat choice. Come and gee or write for what you
CB, H. BULL \& BON C.P.R. and G.T.R. At Btations. \& Brampton, Ont.
FRSEYS, COTWOLDS YORYSHIES JERSEYS, COTSWOLDS, YORKSHIRES, Yorkshire pigs for gale. A few nite heifiere, 6 mos.
to 2 moars, and 1 yearling bull, by Count of Pine
Rid year Ridge, grandion of Adelaide of St. Lambert, record
84 lhe. milk daily. om WM WILIIS. NRWM ARKFT, OrT. Lyndale Holsteins We are now offering a number of young bulls, it
for
calvervice, sired by Ly Lady Waldorf's De Eol. Spring sexee Spring Brook Holsteins.



30 HOLSTEIN CALVES cows and heifers, sired by such delivery. Also noted stock
bunll as Pietze De Kol 2212, and Mand's Prince bred cows with great butter and and home Pedigrees furnished. All express charges pa'd
Pand gafe H. George \& Sons,

\section*{Brookbank Holsteins}
 dama are in the Advanced Registry, with larg
official butter records. aEo.

HOLSTEIN-FRIESIANS Three Holstein year
heifer (in calf) for sale
ling bulls and
on heifer (in calf) for sale. Apply to
\(\mathbf{W} M\). SUH RIING, Sebring
7 HOLSTEIN BULLS
HOR SATE Five yearling bulls, sired by a grandson of De
Kol 2nd bibull, rising 2 years ord, and 1 aged
bull, Korndyke Queen De Kol's Putter Boy bull, Korndyke Queen De Kol's Butter Boy, o
Korndyke and De Kol breeding.

\section*{Riverside Holsteins}

Irom 3 to
Pietertij
to Pieterte and Johanna Rue etth Led. These young
bulls are from Advanced Record of Merit toolk

from producant A HOLSTBIN BULL, bred Irom producers, and hat is again anpabie or siring
producers, at a living price, write H. BULLERT, \begin{tabular}{c} 
Cabsel, ()nt \\
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and younfern ones. Choice animale. Ram and ewe

HOLSTEIIIS TMMWORTHS.
ulls and heiftr, \(r\) calves, anths double Dearling heifers
 BERTRAM HOSKIN,

Naple Park Farm Holsteins, Netherland thet (hat ). Hoek bir. Stock of all ages for sale rington strains, Home of the great cowe and Edgeley
Mol, milk record 104 lbs in 24 hours; Emery others with heavy records. SINNEYY, MACKLIN,
om Streetsville P. O. and station, C. P. R.


 inmported females that have proven their worth al
the pail. THOS. B. CARLAW \& SONy
om

Ridgedale Farm Holstein-Frieslans for Sale
 or come and see them. R. W. WA LIK ERE, Utician
P.O. Shipping stations : Port Perry, G. T. R.
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AYRRSHIINRHO RHULE rom the ition months old, sired by one of the bes
rtork bulls in Canada, Rosland of st. A nnes (8901)


HIGH-CLASS AYRSHIRES


\section*{\section*{Chisholun，Dunlop} Saltford
ritannia
3sth
res} Iharissa Wilkes ；Cows．Mugford，\(\$ 125.10\)
Saltford Wllpitha 21 st \(=29619\)
Morris，Salt ford

\section*{有} uchess of Gloster F：Davil Helen of Ridgewood；John Nen－\({ }^{\text {197．．．}}\)
 Lulu of Ridge
Dungannon
 Nelle Sallt ord \(=236616\) ，
\(\qquad\)
 by farmers of the County firla and largely ere the erincipal purchasers，and the The bulls made an average of \(\$ 93\) ，and
the females an averave of \(\$ 115\) ，The highest price，\(\$ 197.50\) ，was paid by D．
Millue \＆Son．Eithel（Ont．，for the red Goster F．The snle was nhly of Cucted hy Messrs．Thos，Gundry，Goter－
ich，and Geo．Jackson，Port Perry，as on to all concernell The followink is the list of sales，with ar Heir of huls．
\(\qquad\) ancy＇s Heir of R Raron Ris

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 O \(\$ 10.00 \mathrm{CASH}\) ，we will send you，IF BOOK IS NOT AS STATED．Th
Wo employ over 3a0
 TEST～ 3 FEEDSFORONECENT AN Duative

W，F，STEPHEN，Trout RIver，Que．，breeder choice bulls at for servioe and seeval buli calves，
Bired by Klondike of St．Annes 8897 and and lrom doe milkert，with mood udder rand teatst．Carr＇from deopep
1 mille，G．T．R．；Huntingdon， 5 miles，S．L．\＆A．R．．

High－class Including cows，heifers and young bulls out of
our prize and serepstakes coww．Foundation
eolected with due regard selected with due regard to quality and pro－
ductiveness． WM．WYLITE， howick，Quebeo Springhill Farm Ayrshires． FOR SALE
One bull 16 months old，three bulls 7 months old，all
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Springhurn Ayrshires，we are makin


STOCKWOD AYRSHIRES．

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High－Class Aysshire Cattle 4

HOMEG \(70 F T\) FARM
deEp－MILKING STRaII ayRSHIRES ANO guenilseys
 isaleigh grange fabm，＂．＂．Danvile，que．

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WATSON OGILVIE，





\section*{ROBERT HUNTER，Manager．} Mear Montreal electrio oars．Lachine Rapids，P，Q．
Maple Cliff Dairy and Stock Farm｜SUNNYSIDE AYRSHIRES， Berkstire amat TAMworth pras
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 W．W．BALLANTYNE，Stratford，Ontario．
Yearlillg ayfshire bulls
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 CAN SUPPLY EITHER IN CARLOAD LOTS．
Write us before buying elsewhere．Address： Write us before buying elsewhere．Address： Box 35．Telegraph and Railway Station。－om American Leicester Breeders＇ ．w．Smith，Pres，Waple Lookge，ont

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MAY 1, 1903


THE FARMER'S ADVOCATE

\section*{W. W. CHAPMAN,} answas





SHEEP BREEDERS' ASSOCIATION



Dorset Iorn Sheep


 John A. McGillivray, Uxbridge, Ontario, furopean advertibements.

HAMPSHIRE DOWN SHEEP GREAT
ENGLISH PEDIGREE SALES,
July, August \& Sept., 1903 Waters \& Rawlence, Sallagury, Eng,
will sell by public auction, during the eeason, 50,000 PURE-BRED EWESBS

Waters \& Rawlence,

Seeretary of the National Sheep Breed-
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Sheep Breeders
A Asoctatition,
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Sheep Soelety. Pedigree Live Stoek Agent, Bxporter and
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FAIRVIEW SHROPSHIRES|THE RIBY HERD and FLOCK| HAMPSHIRE DOWN


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 Splendid Mutton, Good Wool, Great Weight.




James e. rawlence,
 English Bertshtires About the end of June the well-known prize-
Winning herd the property of the kARL OF
CARNARVON, will bit
 This herd contand more orizawinning bopod
 heand of Englith Berk hires), several of the pigs
sold were bred at Highiclere, and many others
descended from Hirchlere sod were red at Highiclere, and many others
descenderd from Highclere so ws, thus howing
how highy-alued this hlood in, and intending
purchasers should not miss this ondo


\section*{NEMMMRKET, ENGL,AND} IMPORTANT SALE 운 Late Colonel McCalmont's

\section*{Puie-bred Southoown Sheep.}

WEDNESDAY, JULY 22nd, at CROCKFORD'S, NEWMARKET,

\section*{SOU'THDOWV SHEPEP}

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Non-Poisonous Fluid Dip
8till the favorite dip, gi proved by the
testimony of our Minister of Agrti-
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Kills tickg, magrots ; cures scab; heals old sores,
Woudd, etc., and greaty increases and im proves
growth of wool.
Cattle, horses, pigs, etc.
Cleanses the ekin from all inseects, and makes the
coat beautifully soft and glosegy.
Prevents the attack of Warble Fly.
Heals saddle galls, sore shoulders, ulcera,
eto. Keeps animals free from infertion No danger, safe, cheap, and effective Sold in large ting at \(\overline{75 \text { cents. }}\). Suffcient in each
to make from 25 to 40 kallons of wabh according to
 8OLD BY
8END FO
Robert Wighma
W. S. C

GOSSIP
yPISSDALES
" Yes, our sales have been very good,
Was the cheering news to our representa Beith \& Co.., importers and breed s of Hackney and Clydesdale horses Lake View. Bowmanville, Ont. "/ W
are iust now avarcicing are just now exercising the horses, you will have a good chance to se ney filly, Canadian Queen, was the firs out. She is by Squire Rickell, grandsire Jubilee Chief ; a very Cherry Ripe, by filly, plenty of life and promise of great action, and should make a strong bid
for the ribbon at the forthenming chiw Mona's Queen, Hackney mare, by Iori Derwent 2 nd, has the remarkable record,
and she only thirteen years foals, such as Banquo, Jessica, Cherry
Ripe, Sylvia, etc, all sold Ripe. Mona's Queen looks as well as ever, but is not in foal this year. Now
came the pride of the stud, Saxon, a
ricing four rising four-year-old Hackney stallion, by
Robin Adair \({ }^{2}\) nd, both imported; stands sixteen hands, brown, with white hind feet and star on
forehead. In describing cult to point out any defection, so, perhapls, it is best to say that he is a
perfect model of what a Hackney should
be-very be-very smooth, with strong back,
kidneys well corered, a clean, Thoroughbred neck, gracefully carried, and a bold, intelligent eye; muscles of limbs ex-
tending well down, knees and hocks ideal quality and quantity of bone faultess
and the very best of feet and the very best of feet. His action,
both in front and behind, is perfect,
straimht both in front and behind, is perfect,
straight as a bee line, with plenty of
vigor and sty vigor and style. Is he destined to, for
the third tine., win the prize at at
Y. for his ouners. Canada, we sincerely hore so. He wi
be shown at the Canadian Hors He be shown at the Canadian Horse Show
Toronto, April 29-30 and May 1-2
Smylett Performer, old Hackney stallion, by His Majesty,
came, next. A nice free mover neat in his action, and a close rival thon to light and
gaxon in point of excellonce no doubt, keep of excellence, and will
lieith traditions of the dam Lady Brook field, by Cadet, a bay
lwo-sear-old, is a very gay colt, with
lots of action and well developed for his The. A Hachney pony, by Squir ony. Queen May, attracted our attenion. Mr. Beith tells us that there is
igreat demand for this class of animal. iive young fillies, by Squire Rickell, an 'ortia, Lady Brooktield, Wild Mint an Torence are coming on very nicely.
The Clydestales are well representen

 uld-a well-developed horse of grea quality, grand chest-girth, well-feat hered
cgs and extra, , pood feet, fourth at To
onto this sprink, imd hus improved Mes and extra pood feet, fourth at To
onto this sprine, and has improved
weatly sime then
\(\qquad\)

 Aheme



PRIZEWINNING C OTSWOLDS.
 IMP. COTSWOLID SHEEP
 BROOKS \& LANQMAID, COURTICE,ONT SHROPSHIRES FOR SALE. - Shearling rams, hearling and older ewee, about 50 head all todd. A
registered or eligible. Low-set, well oovered in and condition and form. Sirest, trom Campbell an
Dryden flocks.
MALCOLIMI MeDOUGALI.
a HiROPSHIR R one well-covered Jearling ram, with goo
bone from imported Mansell ram, and foll
lome bred ram lan \begin{tabular}{ll} 
ROWAT BROS., & \(\begin{array}{l}\text { Write for prices } \\
\text { HILLSDALE, ONT }\end{array}\) \\
\hline
\end{tabular}

SHIRROIP IHIIR RO
hubs of bote sexes. Also shearling ewes and
thearling rams. prices rioht and quality guaran
GRO. HNDMARSH. All beed. © GBO. HINDMARSH, Allsa Craig.Ont di Toronto, 1902 , won 1st open pen; 1st and 2nd Cana lst, pend and 3rd yearling eexerring and a eve ram lim lan
these ewes retained in fock and the beet rams
T A TNE W \(O\) IR TE IER 5 FOR SALE: Two young sows, bred to Dand
\(=2935=\) a good typical sire ; also several youn Boars and sows of very heet breediñ.

 light, Pan-Americar First, and sired by Imp. Star
winner. JoHin Hoim Boy, Toront

Newcastle Herd of Tamworth Swin prizes oiffered at Toronto Exhibition, but this be
has excelled all pant on the



 Enquiries promptly answered.
COLWILL BROS.. NEWCASTLE, ONT
 JOHN RACEY, JR., LEARENNOXVILLE, QUE.
WILLOW LODGE BERKSHIRES


Yam
W. WILSON. SNELGROVE. ONT
Large English Yorkshires





Maple Grove Herd of Large
ENGLISH YORKSHIRES


One hundred Tamworth and Improved Chester avine won the best prizes offered at type our herd
aibitions throuyhut leading Wast ten y hearoughout Ontario and Quebec for the
pecialty. We pay tock for exhibition purposes
 H. GEORGE \& SONS, Crampton P. O., Ont PINE GROVE FARM HERD he oldest-established registered herd it
merica. We have 12 imported bor ows and 20 home-bred animported breeding, and
ave a limited number of yount bre we a limited number of young boars ang sow
or sale, suitable for this falls breeding. Satis Joseph Featherston \& Son, rootsrillo Station, P. P. P. . And P. O. . and Tolograpb GLENBURN YORKSHIRES \(\begin{gathered}\text { won Gold Medal a } \\ \text { Ottawa }\end{gathered}\)



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Sows safe in pip, boars fit for service, sows ready to
Greed, boarra and sows2 and
tion guaranted to YORKSHISES

 horn bull 21 monthzold WOI WESTON HERD Improved Large Yorkshires.
 L. ROGERS, EMERY P. O. Chester White FOR SALE
SA
hropslire shen

Langelier's Yorkshires

 grucs. Langelier, Quebec City. Spruce Grove Herd Yorkshires - A few choice
vice also choice pairs, not akin, froars for ser
oo months, for sale. Prices right. FREID. C. SMITH, New Hamburg, On YORKSHIRES AND BERKSHIRES.
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 Yorkshire

IIPRPOVED cheSTER WHITES
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BVMAN
Berllin on

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CAN YOU SOLVE THIS PUZZLE?




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'THE FARMER'S ADVOCATE
MAY 2,1903


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 HERSEE \& BICKELL, seed growers, Woodstock, Ont.

MELOTTコ \(\because \because C R E A M\) SEPARATORS


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desired height or width of
tire. Are gtronger ligh
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With metal wheels, and general wor and convenieat for far
 thousand pounde. Write for atalagoarry four to five
Boription of both Wheele and Wagona. Dominion Wrought Iron Wheel Co, ure 9 and 11 BRONA \(A T E\), TORONTG. ONT. IMPROVED POULTRY FENCE Fencing and Gates


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