*AGriculture, Stock, Dairy; Poultry,'Horticulture, Veterinary, Home Circle.,

Vol. XXXVII. WINNIPEG.

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IN WRITING
Plaase Menition The Farmer's Advocate.

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## Government Hail Insurance

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## Some Notes re Grasses and Grass $"$ by t pion.

## To the Editor " Farmer's Advocat

Most farmers in south-western Manitoba, and
also in some other parts, have come to the conclusion that the native slough grass cannot any onger be depended on for the hay supply.
The question is: What can we get to take its place? There are a number of grasses that have been tried with varying success.
The writer has been growing timothy 19 years with a certain amount of success, some years having over one hundred tons. It has not been all that I desired, but I was satisfied
with it till something better tumed up. I have with it till something better turned up. found the greatest drawback in growing
was that we are subject to droughts almost every yas thand timothy, being a very short-rooted
grass, is very susceptible to the sume. grass, is very susceptible to the sume.
During ali the time that I have been growing timothy. I have not had a falure, except some
year before last, when it was nearly so, but some
cears I have got three tons per acre to make up year before last, when got thre tons per acre to make up for that. I prefer timothy hay to ally other,
properly cured, for horse feeding. My experience with native rye grass ood hardy
been so long as with timothy, It is a good grass, and will resist drought betler than timothy, and for that reason it is a little easier to get a
good catch. Perhaps, too, in a dry vear you can get a little heavier crop than with timothy, but mistakes that is made with rye-grass hay is in letting it get too ripe. It should be cut about the end of June. grass that has been greatly
Brome is a loomed of late years, and perhaps in some re-
spects iustly so. In my experience it is the coming pasture grass, and also for light land that is liable to blow it has its place. On low, damp land it might be as well not to try it, for fear
that it might be a fixture. It is a grass that that it might bee a so much as other grasees by being left to ripen seed, as it is of a more leafy, succulent nature than most grasses. My experience with clovers has mon red, also alsike and white Dutch. I think the latter should have a place on all lands seeded for pasture, as it is perfectly hardy. My land is not very uniform in character, varying from the heaviest clay
to sandy loam, and might be called a little on to sandy loam, and might be called a
the dry side.
With reference to the amount of grass seed to sow per acre, I have found that from four to five pounds of timothy is sufficient. I usually sorv it
with a grass-seed attachment to the grain drill. with a grass-seed as been to sow on fallow with wheat as early in spring as possible, and any person that will follow this rule will rarely miss a catch.
With rye grass I do not follow exactly the same course, as I use ten pornds of seed per acre. My practice has been to sow the wheat and then sow the grass seed crossways; th
the drills of wheat. 1 have found

## THE PACKER AND WEEDER USEFUL

 To the Editor "Farmer's Advocate ": roller and weeder duly to hand. I only got the packer last spring, and have as yet a am well pleased with it, and think it fills an important place on my farm. I think it is generally conpretty firm seed-bed, with as mellow a surface for an inch or two as is saie to risk, on account ofwindstorms. The same applies to the other grains, only probably to a less extent. The packer helps greatly to this end, and does not powder the surface up so much as a romer, white It is atso a great help in seeding and working afterwards, making it easier travelling over the
ground, and also materially assists in getting turned-in stublile and rubbish rotted, so that the
ground is not full of unrotted stublle, etc. I also find that land upon which the packer has been The weeder is useful for killing weeds as they keeping the land mellow on cop, but sometimes of windstorms while the grain is tender. The ween packed.

$\qquad$
$\qquad$ er and set it at about half a bushel of wheat, then ought to sow about one acre, and thend phat mix some. After that, every time seed a alderl sam inch deep with the drill. The with a little adtusting to
weight get the amome right. you will soon we athe ford fob. to be seedred about as follows : Plow as early as poscible in spring and harrow, then abont the end
of Jome.on carly in July plow again and harrow If it is showery at the time, so much the lietter
Than soll the same amomit as of rye grans amb the same wali bushel, as the seed is lighter I hate no experience with spelt Gome of th the vield was not as goold as my harley be nearhe conclusion that harles is goond conongh fol

Chicago Horse Market

Churchbridge Creamery Association
ago, no dairying company in the same length of nviable it reputation as has the "Churchbyidge Creamery Association." The company was formed four years ago. During the first eason the factory turned out 20,000 pounds or mitter, 65,000 pounds, and last year, which wac far the most successful season in its history the amount disposed of was something over 120.000 pounds. Most of this was shipped to Pritish Columbia, but a quantity was islas. Mr. Wm. Roland, of Riverstiale, Assa.. is the president. The head buttermaker is
$\qquad$ mile radius. The shareholders and patrons- are well pleased with the returns received in th more From the above facts it would seem that the Churchbridge district is destined to becom

The Result of Good Management Plus Good Stock.

## Steam Engineers' Certificates

The lack of an engineers' certificate system ha been felt for many years in Manitoba, and now that the number of stean engines in use is in creasing so rapidly, this lack is felt the more keenly, alike by employers and emplojees. The former have no means of ascertaining the extent known to them, and the latter are not in a position 10 prove the extent of their knowledge to one who questions it. This frequently results in in-
competent men taking charge of expensice machinery, and an increased number of threshing a But legislation will be worse than useless less it is specially adapted to the conditions to be met in this Province, and not merely copied
from systems in use in some of the other Provinces and in the Northwest Territories. In the latter place all steam engineers are classed together, no distinction being made between trac${ }^{1} \mathbf{i o n}$ ind stationary engineers. As the greater part of the cngines in use in Manitoba are thresh-
ing cugines, and as a stationary engineer may be thetally unfit to handle a traction engine, and vice versa, engineers' certificates in this Province divided into 1 st , 2 nd and 3 rd classes

In some of the States of the Union and in the .-W. T. there are only three ways of obtaining a certificate: (1) By presenting a similar certificate taken out somewhere else: (2) by produc ing satisfactory proof that candidate
ongine or engines for over two years
of twelve months. In imy case, the candidat onst take the required percentage of marks on If these regulations were put in force here, the result could not hut be disastrous to threshers price Not 10 per cent. of the engineers nov cates under the Province could obtain certif with others that conitl be procured from tho oldo stilnate threequarters of traction engines in the Province idle. The pur-
pose of legislation in the matter would be to make better engineers, and to give them a recog complish this. while at the same time causing complish this, while at the same time cansing best system to adopt. The requirements of such a system would furnish a profitable topic for discussion in the "Advocate." Several years' obter warrant the following conclustions lessly int-class steamboat engineer may fing foll mpme, though in nine cases out of ten h fore it would seem well to grant "stationary certificates under case 1 above referred, but the
wisfon of gramting " traction ".
certificates is unired. In case 2 it will he a difficult matter to imrity of traction engineers would have to ohtai " cmetiticate under this clause if at all. for the critem would come into force. As threshing en cines run only three months in the years, two oi this last comparatively few engincers can
1,mast. The wisdom of substituting seasons for Wars in this clause can hardly be questioned, be more to fit a man for running a traction engine than two rears' stationary practice would. and shomld receise dine consideration. If twelse ill cmbroo will have to fire an engine for four satoms before obtaining a certificate. The fact that a candidate has fired a threshing engine for fome satans may mean ererything or nothing. "11 Thame. and. to use alll algenratic explesssion, In Ahmbing his pron ions knowledge he witl ohtain Fin! thit is not magremating. For cxample, if ho

Favors Big Threshing Outfits.
In reply to your letter asking for my views regarding a solution of the threshing problem, "hise I am quite willing to give them, threshers, I may be able to interest some of the farmers. 1 think a separator with a forty-inch cylinde and sixty-inch rear is about right, as it will handle the grain as fast as two men can pitch, and t wirl keep seven or eight stook tearns, with four good pitchers, doing all they can stand. Some threshers put extra men on the loads and use larger rigs, but the tendency is to overcrowd the machine. For my part, I like a steady jog, about as fast as the men can stand for ten or eleven hours a day. An engine of about twenty-horse and is ahout us houvy as is separator fairly well of the bridges wath as is sate to cross most anything which will save later endipment, I favor much trouble: but that is just where the rub thats in. I heard a good thresher say last fall the thresting had been no blowers nor self-feeders sooner. I use a 20-horsepower anerino and 40-(60 homemade senarator, with il 30 foot trouble and think that I have a good deal less waboose is absolutely necessary, but the farmers than can cook the men easier and cheaper


BORTHWICK

Our Scottish Letter
$\qquad$ scottish Stallion Show of 1902 , the first of the
fear, has just taken place. It hats been a very good show in the main, and especially amongst for the third time was held in the Scot-town Show Grounds, about four miles west of the center of Glasgow. The Clydesdale stallion trade hats undergone great changes during the past twelve haps eatlict, very few horses were hired for service in districts until this stallion show, which then, indeed, was more a hiring fatir than a show. In the year 1879 as many as 120 three-year-old this day, and an almost equal number of aged horses. This year there were not more than 80 horses of two, three and four years old on the horses had been hired for service during the \& \& IV. Montgomery, Netherhall \& Banks, Kirkcudbright, and 21 were sons of their noted stud horse, Baron's Pride 9122. The other horsewners in Scotland who had horses hired before Nains, Kilmarnock; Mr. Mathew Marshall, traman; Mr. Wm, Dunlop, Dunure Mains, Ayr Netherlec, Cathcart: Mr. John Findlay, Spark, hill, Batlieston: Mr. John. Crawford, Maurachead, Beith; Messrs. Nieklem, Begg, Kirkcaldy. Mr. D. L. Picken, Milton, Kirkcudbright: Mr.
Herbert Welbster, Morton House, Fence Houses Mr. A. B. Mathews, Newton-Stewart; Mr. James Argo, Crannabog, Rothic-Norman; Mr. Ceur Nerrylee, Cathcart; Mr. William Park, BrunMr. William Taylor, Park Mains, Fenfrew ; Mr. IV. S. Fark, Hatton, Bishopton, Mr. IV. R Clair Cunningham, Hedderwickhill, Dunbar; the Seaham Harbour Stud Co. (Ltd.) ; Mr. Mlex-
inder
Scott,
Greenock; 1:lackhall, Paisley : Mr. Malcolm Currie, Stubble
Broomhill. Kirkintilloch : and Mr. Alex. Simpson. Broomhill, Kirkintilloch :
Whitecross, East Kilbride
$\qquad$ show must have been entirely favorable to the
modern Clydesdale ats an animal of weight and substance with plenty of action. The thirty aged
horses-that is, four years old and upwards-wer great, handsome animals, well colored, and, it Most of them had excetionally mood action ath show for the fomrth time in sucesssion was the
great horse, Hiawathat 1006 . Ile is now ten sears old, and is owned by Mr. John Monlock years ond, and is owned by Mr. John Ponlock, Ranthert 7135 , wains. second at the Royal, Windsor, i
$\qquad$
$\qquad$
$\qquad$

simon 10465, bred by
$\qquad$
thrown son of the famous Sir Everard 5353 , an Was bred at Knockdon, by Mr. Cross. . He the other aged horses in the show, except tlia-
watha, Labori, and Marcellus, he was alwarded the $£ 80$ premium to travel the breeding district Iert 10374 , a very thick horse of great weight. Craword's Carabineer 10522, an upstanding lofty son of Baron's Pride: tre sixim, Mr. $\Lambda$. 13 , Mathew's very big powerful horse, Fmigma
(0739, whose sire was the Americam-bred stal hon, Prince Cedric 10253: and the seventh, Mr.
$\qquad$ useful, clean-boned horse.
The three-year-old horses were ahout equal i all equal to them in merit. The wimer in the open class, which also competed for the Cawdo
Cup, was Mr. William 1'ark's Marmion 11429, horse with extraordinary action and up to plent curly, and although he has a good hind leg, the horse which stood next to him has a better. This is Mr. Matthew Manhall's Manorama, to which the Glasgow junior premium of $£ 80$ had been awarded earlier in the day. Manorama is a bay
horse, with at faultless hind leg. He was bred by horse, with a fauluess hind ley, He was bred by
Mr. Thomas Crawford, Dowhill, (iirvan, and is strongly inbred to Prince of Wales and Darmles. His sire was the C'apdor ('up champion horse,
Ireince Alexander sese, and his dam was by another Candor Cup champion, Prince of Kyle
7155 . Both these horses were got by 1rince of
Wales 673 , out of mares by Darney $2 \cdot 2$, so that the quality of Namorand may be casily under-
stood. If he had as good a fore foot is he hais a hind leg, he would be an out-and-out champion.
After Manorama came Baronson 10981 , a horse of choice quality, with excellent fect and legs. by Mr. Marshall. The fourth horse was Mr. C'unningham's Alexander Everard 11242. the biggest horse in the class and the Dakeith premium horse
of this year. Mr. Jas. A. Wallace had fifth, with a promising colt named Nick o' Time 11141, and Mr. Taylor was sixth with Sir Fdward (11193), at colt which ran Manoramat close for the Gas-
gow premium. The last horse ticketed was Car In the two-year-old class there were some promising young horses, but the leater was easily 11246 , a son of cold Mine 9540 , and bred in Abergeenshire by Mr. Robert Copland.
$\Lambda$ shipment of nine useful, well-bred horses was Whis week made by Messis. Dalgety Bros., Lon-
don. Ont. to (anada. Amongst them are sons of William the Conmueror 9093, the champion Irfince Prince of Galloway sels, all soms of Prince of
 the big. flat-honed stallion. Fithopian stino. for tenance from the hlood vessels dereloping in the roteath and The dallant, hooth sons of Top (aial the formere tirt at the 11 \& A A S. Shew at Incol
$\qquad$ Dominion dovermment Creameries in the Northwest 'Territories
summer, should be acclimated to the change be fore being served. Thersem who generly follow the above sugges tion, which provides for the mares getting ac customed to the changes in food, temperature and surroundings. It is well known by all practical in their effects on the pregnant female. in their eflects on the pregnant remale
tected in the mare, she should be removed from mares believed to be already in foal. should be served in the evening and kent ones apart from other mares or geldings over night and should, until all signs of heat have dis appeared, be kept from any chance of teasing by would pay the breeder to retain a competent eterinarian to tide over the excitant periods, when a calmative, both constitutional (stich as
chloral or opium) and uterine (as black haw). might with benefit be prescribed.
ard freally tenth day be tried until the critical period (end of the 7 th week) be passed.
5. Wares in poor condition should not be bred, rain to the daily ration. mares should be neither excited, overheated, over exerted, or chilled, neither overfed or stinted from their usual allowance, and any drugging, ex cept under professional adrice, shorn sternly deprecated. If stallioners can only impress upon the o these precautions, they will undoubtedly reat their seward Science shows plainly that the main responsibility for the production
healthy living foal rests with the mare ant owner: and not, as is so often asserted by care less mare owners, altogether with the stallion, which wrong assertion has been partially as colt to stand and suck before requiring the stud ice, a concession to the mare owner which is un-
musinesslike and vicions in its effects on the whole cience horse-breeding.
" there important measures. thes should be "rinted ond the large romt, bills and pedigred wher signing the breeding contract, outlinet in

Go Slow with Fall Wheat
ditor Farmer's Advoca

## Conducting Beef Rings

Within a recent date about half a dozer bnquiries have been received for directions how to onduct beef rings
These heef rings are simply unions of farmers with fresh beef during the summer months. Some rings have 20 members, and others 16,-or what ver it may be made. The chart we herewith ho

A RING OF 16 members
The members each agree to put in a beast that wounds to each member. A beast is killed each week and distributed to the members in such a system as to give each a different cut or cuts each week, so that by the end of the 16 weeks, or 20 weeks, as the case might be, each membel lions. A butcher is appointed, as well as a Secretary. The butcher provides a suitable place for killing. and furnishes a hook for every member, on which the ovening and cuts it up in the morning weighs each share, hangs it upon its respective hook. He keeps an accurate account of the weight of each nimal - of the quantity that each one receives which the cuts are distributed ; that is, the cut No. 1 receives this week, No. 2 receives riext week, and No. 1 takes the place of No. 16. He renders to the Secretary the account at the end of each season of weight of each animal and of Weight of meat received by
shown by the following table

nd rump No. 1, respectively. Divide these three No. 17. Represents steak. Cut steak into sles No. Re. Represents steak. Cut steak into slices,
giving a slice eto each person.
No. 16 . Represents hind shank aiter stank is taken After this half of the beer has been cut up it is ivided between
imetable, giving each first ersht parsons, as a shown by
ind a and a slice of steak. Then the other half of beef is
anken down and cunt. A RFEF RING FOR 20 MLMDBERS Cinclosed please find chart, which I we for used it for three years, and it has piven the hest satisfaction of any ring in this locality. Several apicants have asked me to give my chart, and ly understood. It is run just the it will be readfor understood. for a ring of 16 members. The only difference is

## A Condiment for Pige





apply of a mixture of charcoal.

he pigs. The U. S. Burean of Animal pomal miver with common will

This table represents the way in which tha beef is to be divided and weighed out to each slaughtered and weighed out to the men composing the ring. No. 1 citt goes No. 11 an the No 3 man the third week, itc This is done by moving the long list of cuts (at we left edge of time-table) down one space for every beef that is Slaughteren, which changes the cut ior each man. This slip is let down weck ate week No. I placed opposite No. 1 man again, as all the cuts in olle ha'f of the beef is contained in the first eight numbers, and the other half of the beef has There are a number of details which each ring their own circumstances. The secretary may furnish tickets with numbers on, which the members draw from a box, to decide the order in which they are to supply the animals. He also sends at
the close of the season the butcher's account to the close of the season the butcher's account to
each member of the weight. of his beast. the quantity he has received, and what he owes or is due him, as the case may be.
Fig. 1. Represents one-half of heef lying on the
tabe ready for the saw Beror eting this half down
divide it in the middle by running a saw across at




## No. No. Represents. roast No. 1. Saw ronst No.

 off, leaving three joints on it.No. 2. Represents roast No. 2. Saw roast No.

 No. 11. Represents front shank. Saw front slaan
or alove upper joint
No. 14 Represents second rib cut. Saw it on 1oaving five ribs on it first ril, cut. Saw it ofr, lea ing four ribs on it No. 12. Represents shoulder
under brisket as rentesented in
Then take the hind luarter


We have the members furnish a basket or cotton hag to put the beef in when cut up Then we by my chart that the beef will have to be quartere il a little differently from yours for cutting the beef roast, it must be divided after the beef is cut Nown in halves. You must cut it across between wawis and 12, leaving four ribs on the hind table for cutting up, you will cut off fer on the No. 8: then cut from line B, making two niecoc Nos. 10 and 9): then take off neck, No. 1 : 6 (2 rilss) ; roast No. 5 (2 ribs): then cut across to line C, taking piece ${ }^{\text {No. } 4 \text { (boiling }}$
piece) : then No. 3 (2 ribs in it), leaving piece No. 2. After cutting up the two fore quarters. you will let down the hind quarter on the table and cut from line D, leaving llank, No. 11 : then long $13 \quad 14$ 15 16 , hen follow rump roast), No. 17 then cut off Nos 18 and This is a table to put the pieces for each one 1 and 18
2 and $16 . \ldots$
3 and 12.
4 and 13
5 6 and 20
7 and 11
8 and 15
9 and 14

The weight of the heef is supposed to be mot ress than 400 lbs , and not to exceed 500 ths the be cut up and divided into 20 shares. ents up in much nicer pieces. Jolin I. BALs.bon



164
Starting a Plowing Match.
THE FARMER'S ADVOCATE

Ninety Pounds per Colony in Manitoba.<br>To the Editor "Farmer's Advocatc":

In your isgue of Jan. 6th appeared an article
entitled. Beekecping and Horticulture in Colo-
rado." The writer points out the results attained
in apiculture in that state, and reasons that from to this. There should be strong competition in all the classes, but especially in the principal
classes, so as to make the work as highly educative and telling as possible. If success is achieved permeated and benefited by higher ideals and methods of work, for you fire the ambition of a
young man, so that by dint of determined effort he converts failure into success, you have set in
motion forces that will try and excel in all the other various branches of farm work and management. The match should be strong in its inde-
pendence of every factor that would seek to make kind of plor w at the expense of the work. N small danger er in this respect threatens the widest
a movement possessing immensurnblu possibilities of the highest good to the country, tempt to prejudicially interfere with the true aims and purposes of a match. The scope of the work
should be the widest-open to all comers. Strong and persistent efforts should be made to encourage young men and boys to compete, and the prizes
should be both specially attractive and numerous in these classes. All good plowers should be solicited to enter the lists and promote
possible way the success of the enterprise.
and popularity of a match more than capable, imPartial judging, and too much care cannot be
taken in the selection of the judges. They should taken in the selection of the judges. They should
lave at least two qualifications for the work, good judgment and tried and trusted capacity It you have such men in the locality, use them
by all means. Fut your best judges on the principal classes, in well-matched teams. Get one of
the best score cards for the judges use, having ample space for the points to be entered, and
given to the secretary, to be handed to the contestants at the end, that threy may see where man should get one. The aggregate points made Man shourd get one. The aggregate points made
by each should be given out, although they failed
to get a place in the prize list. Nothing helps the permanence of a match more than a valuable gold or silver medal or cup. A strong effort the most important classes, to hecome the prop-
erty of the winner for two or three successive years, as may be thought best, and a silver
medal or cup for the less important. Nothing is
too pood. Put vour best and most. influential men on this work, and don't leave it for lads to
do. however willing and able. On this and all the other important details of the work much thog-
ough and energetic preparatory work should be given to have it an assured success. There is no
enterprise more worthy of the very best work and accruing benefits cannot be overestimated. It almost needless to add that the committce management should
prome tive in the place, and larpe enomgh
divide up the work so as to make it pleasant all. The best plowers should have charge of the
selection of the soil and its laying out, and spe-
cial care should bo talen to bive it cial care should be taken to have it as even as
possible in texture. That all alike may have aal
equal chance in the competition. three-tharters of an acre is ample for single-furrow plows and
doulle that , womitity for mangs. Weed-pulling
should the strictly disallowed: an inspector over cach class to take notes. No, small amount of
crooked work has heen done in this way in the Mast. The matter of prizes and the providing of
meals for spectators and likewise that for con-
testants and judges should gach hane of managrment $A$,rime remuisite for corery conThist of the plowmen and pive refreching com-
 arranged for heforeviand Rown your match nit moon wishes of the combumity, thend finpatly, dond





it is not menessary to have any thinge Thus this way we keen the soit tain the moisture. In small rootlets will always be found to extend further out from the trunk than the branches.

## Utilize the By-products

Oackers for the advantage the American packer has over them in being able to pay, on the whole better prices for live stock, is the fact that the blood is got albumen, used in the arts and in medicine: horns and hoofs used for gelatine, and whes tor hrushes, for buttons, etc.; bristles for on so, that, as it is aptly put, .". mothing is lost in the pig but the sylueal. With all the alove, according to the National l'rovisioner. whe states as follows
"The oily, greasy, thick 1ig shin is arousing at seriously hollered itsolf shoughter house has hog while his green hide left on the carcass the unenclumbered with expense brought \& cents per
pound and more as pork, when weighed in as corred or ham or stulsked pacon. The scientist will not let things alone, however hog for commercial purposes. The leather splittor has demonstrated his ability to shave hides al minost into tissue leather. With this implement at his command and a new process in his possession, figi skin to the fineness of a cologne hot splote at per cover and manufacture that article at a
ridiculonsly low price. He can make the finest of -imported kid-glove stock, can displace oile paper with a better and a cheaper article and do
the same with the find texture now used for waist shields. Ane of rubber goods treated so fincly and split into so many separat skins as to astound the uninitiated. With this prospect before it, the hog skin has a right t

## Postal 'Reform.

Last week, at the annual meeting of the Britsh Fmpire League in Ottawa, on motion of Hon. guson, a resolution was passed whenator Ferpapers and periodicals could pass from one part of the Cmpire to the other at the lowest possible rates, in order that the people in all parts could Wetwe keen in tow whe eich other. the subject from Lecived the following letter on ommissioner, London, Ling.:
Dear Sirs,-I beg to acknowledre your of the 30 th wit. and the copies of the . Farm refer. It will give me much pleasure to comply with your request, and I hope that in the near future it may be found to be possible to do some sts in regarel to the interehanore of newspane and book matter between the United Kingdom an tween cian compared with the arrangements be ween Canada and the United States. The matter will receive the consideration it decerves at it hands of the Covernments of the two countries 17 Vien STRATHCONA. ruary, 1902 .

Docking Horses Condemned
has surviverl the or fates, of docking horses' tails indhuss and humanity of the growing spirit of foll that expresses the best thought of the and mand has probably received its quietus in the mandal that has gone forth almost simul-
tane from King Edward VIL and Pracident ters of custom Edward, whose influence in matBritain. has made it known that he will neither Purchat, nor own nor even use a horse that has Chted by docking, while President Roosethe fashion in the United States by "ecific instructions to the effect that
$190:$ Fair Date
a Prainim
Indusirial

The King's Sale of Shire Horses at Sandringham.

One of the most notable sales of this season in the Shire horse breed is the one named above it is four years since, in 1898, His Majesty the Wales, held his previous saln of Shire prince that sale his 54 head made the then record average of $£ 2247 \mathrm{~s} .9 \mathrm{~d}$, and although this high aver age was not equalled upon the present occasion the realized $£ 192$ 12s. 2 d . was of sufficient maguitude to disclose the high merit and quality of the anmals sold, which numbered 45 head, 20 being ander two years of age.
It is needless to enter into details as to who ers or their, for practically all the principal breedhundredter agents were there, as well as many disappointment forer spectators. To the could not be present, but it Majesty the King tion and pleasure to the large company present that Her Majesty the Queen, accompanied by some other members of the Royal Family, witin the sale previous to its commencement included
It would be tedious to go into many details or give all the various prices, as these could


FANDANGO (4256) 143
rant the valuable space they would occupy, there
fore reference has been limited to the more im
A Practical Advantage of Good Blood portant lots of each age, and a special summary being talen as cents been prepared, the dollu old Fnglish coin, the guinea, which of the goor longer in actual use, is always at pedigree stccle sales the denomination used. Lord Rothschill. gave $\$ 2.875$ for Solace of 1894 , by Lord hthur, out of Madam Albani, who was whill if the $\$ 3$, This was the top figure realized of this age, and also in the sale. Her sistme , this age, and Southern Wood Echo, made the next best price of
the brood mares, $\$ 1.500$, to $1 r$ the brood mares, $\$ 1,500$, to Mr. I. Salamons, Mr. F. Crisp gave $\$ 1,250$ for Calwick Mavis, and
Mr. Regina. The four-year-old mares, four in number were not so eagerly sought for, $\$ 1,150$ being top price for Girton's I)olly Varden, to Mr. F. Crisp, followed by $\$ 625$ for Barrow Heiress, to Messrs,
Thompson. The two stallions. TBenedick foale 1898 , and Premwithar, foaled 1899 , realized spectively, $\$ 2,500$ and $\$ 700$, whilst the two-yearfold colt went to Mr. P, $\Lambda$. Muntz. M. P at $\$ 850$. A pair of grand vearling colts, notably Royal
President. sold well. the President, sold well, the one named above going
to Lord Coventry at $\$ 1.150$. and the other to Mr to Lord Coventry at $\$ 1,150$. and the other to Mr.
Walpole Cranville at $\$ 900$. Seven yearling fillies of grand merit were keenly competed for . Sir I I B. Maple, Bart.. M. P., socured the pick in Moun-
tain Fcho, at $\$ 1.750$. Mr. P. I. Mills being the tain Fcho, at $\$ 1.750$. Mr. P. L. Mills being the
runner up. Lord Llangattock, aft.r a strong con-
tost with the test with the last-named huyw. getting another
grand fill. at $\$ 1,550$ Two more made high
values ; i. e., Torfrida to Mr. Kearns at $\$ 1,350$,
and Westonia to Mr. Pamell at $\$ 525$. The two
year-old mares were an almost equally fine lot The top price here was $\$ 2.250$, to Mr. L Salamons, Mr. P. L. Mills' representative again being the last bidder but one, Autumn Blossom $\$ 650$. The three-vear-olds made next best price, and sale, two making $\$ 1,500$, Queen's Birthday to Mr. L. Salamons, and Lady Darling to the Marquis of Winchester, two others making $\$ 1,350$ and $\$ 1,150$, respectively
prices and average for each gives full range of sale

| seription. | No. | $\underset{\substack{\mathrm{High} \\ \text { eit. }}}{\text { Hen }}$ | Low- | Aggre- | Aver |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 10 | \$2,875 | \$375 | \$11,125 | \$1.112.50 |
| Rrood mares Four-sear-old mares. | 4 | 1,150) | 325 |  | (606\% 25 |
| Three-year-old mares <br> Two-year-old mares | \% | , 1.50 | ${ }^{33} 5$ | 8.50 | (5is) |
|  | 10 | 2, $2 \times 5$ | $\stackrel{2}{29}$ | 6.6.625 | 6ife. 5 |
| Yearling fillies..... | ${ }^{7}$ |  | 27. | 6, 5.51 | 921.4: |
| Tworearold stailioin. |  | 2.5401 | (14) | 3,2mm) | 1.(sio), |
|  |  | 11.51 | ini |  | < 20 |
| Yearling stallions.... |  |  |  |  |  |
|  | 45 |  |  | \$41,275 | 8917 |

The Horse Show Date Fixed.
As the restult of the vigorous demand of the for the Canadian Horse Show for the accomme dation of stallion owners, the date for the show at Poronto has been fixed for April 10th, 11 th will join with the Hunt Club in holding Breeders bined show as usunl.

Blood Packing Co., Chicago, was not only a practica packing-house man, but also a lover of improve live stock. Such a man was above mere fads in breeding, heoause his business forced him to consider the utilty of live stock and his eflom ts constantly directed towards the bendint f a breeding with usefulness, without which eom tion the breeder of pure-breds might as well at of business. The following remarks of the heceased packer should be taken to heart by wh ockmen, whether breeders of grades or pure The sale of a product increases directly in proportion to the possibility of offering a good reticle at a fair price The more renoral the eef concumititute, the greater the increase of ty omly the loins and ribs find a ready por qual In a goon animal the butcher is not, only utble the hispose of the whole carcass more reallay bul the consumer is able to get a choice pime withow -. The man who sticke
ar showing that pure-hred bull wall mate a het or fear that cattle will whe nom a bull

## Beef and Milk

## The article under the caption. " Cows." in your Feb. 5th issuc leads

a few personal opinions and observations For many years I have been in search of that mecca, may ultimately appear slightest doubt. Her evolution, while it may the sibly be a matter of time only, is sure $y$ n greater problem than many which have been met and solved by thoughtful breeders in the past for venturing to question the existence to-day more than a very few animals meeting the stric requirements of our ideal in the shape of this mediocre quality along either line, we might ad mit that there are thousands of dual-purpos
cows at work. But should we be content with cows at work. But shay production or performance when greate is possible? So many times have we heard al stockmen's conventions the theory adranced that the cow which would yield 4,000 lbs. of milk in a season, and give her owner a moderately
promising steer calf, is the right animal for the promising steer calf, is the right animal for ther fails to hold out anything more than half-way success. Such is sufficient for the man with ni very strong desire to improve his stock, whethe been a time when there was greater demand among the rank and file for continuous improve ment along a more definite line. Nas it work this kind which produced a Cicely or a Blackcay Judy among beef types, or a Brown Bessie or
Pauline Faul among dairy types? Without definite standard - an ideal, if you please - $w$ shall each one breed and mould our animal forms according to our own sweet will. Will the result be type? I fancy not. A short time sin

## leading

 in one of our leading stock journals upon a sweepstakes class of beef animals, in which he hadthe pleasure of placing awards at one of our the pleasure of placing awards at one of our
recent large expositions. In one ring competed recent large expositions. In one ring competed
modern specimens of the Shorthorn, Hereford and Angus breeds. The comment read that had the animals all been of recognized Shorthorn color: and markings, they would have very closel best breeders of beef animals have agreed that utility must be the measure of their work, and since all are working toward a utility standard it means that all are eliminating many
most essential points of breed differences. bred dairy types are unanimous in the opinion
that there is a dairy form which should obtain among all dairy breeds, modified, of course, minor points of breed difference. Where, then
our middle-way breed or type to come our middle-way breed or type to come nh
Naturally, half way between the two, and fon such a type we grant there is a very large place Taking the whole country over, we believe that whether rightly or wrongly, there 15 , und alway will be, a large class of men whe the actual fact. as we find them? Io we expect to evol
best dual-purpose forms from cruss-breds best dual-purpose forms from cross-breds of out
thest beef and dary forms. " Ne have a surplut
gnized dual treeds" Ve find that there
among then adrocatos that simte shlylene oi purpos which bud thenther elther beeder the hapl and a whro thang towards bete deveionment four geremanns eact of these course of there whe that departed very far from dual-purpose stundards How, then, are we going to preserve thest Thi
tendenc: towards beef on min winl thengut
 duiry quality must always thate consodevion at
your artole suggest thit it musi always be sut. for the thoch (IS thit whe. hath dury hreedes care nothing f -raticti

## Care of the Brood Sow


at all times the feed should the
rather than a fattening or heary food. some people think that the brood suw should he thims but this is a mistaken idea. While she stoould not be too fat, better results fich heo ference between a brood sow in

## condition and one that is too

After the sow is bred she regmon- a himer.u. supply of nourishing feed.
a good pasture is excellent, with a
addition, as ground peas, barley or
kitchen slops In winter, in the place
roots will answer well, as mance's

## roots will answer well, as mange.s, or turnips. Salt, charcoal or some

or thrnips. hat, charcoaly supplied freely, especially when cont fined to the pen. Sods of earth gathered and stored in the fall is a good thing for figes in will
ter. When brood sows are supplied with such things they keep in good health,
ikely to drop well-nourished pigs
Exercise is very important, and in the winter season the sor should run out, when the weather Will permit, in a yard with some
little sprinking oi grain scattered
little sprinking oi glain
often keep them working
often hour or two. A barnyard is a good place for them to take exercise. rooting among the manure As the farrowing time appro
or ten days before she is due.
her in a pen by herself and feed her night and mornings. For two or three days before farrowing, it is hetter to keep her in the pen altogether.
A fender should be placed around the sides of the A fender should be placed around the sides of the
pen in order to protect the young pigs. A scantpen in order to protect the young pigs. A scant-
ling placed eight or ten inches from the floor will answer the purpose. The sow should be handled before farrowing. She should at least be so accustomed to the feeder that she will be quiet and sow sparingly for a week before farrowing, and also for the week following, and the feed should be of a.laxative character. The feed may consist of shorts, bran, ground oats, and roots.
It will be well if the attendant or herdsman around at farrowing time, but if all is well, the around at farrowing time, but it all is well, the the pen is comfortable and the young pigs are strong, they will soon help themselves, but if they
appear weak some assistance may have to appear weak some assistance may have to be
given them at intervals for a while. The sow should not be disturbed until she getis up of her own free will, and then she may be given a warm drink, with a little shorts or oatmeal added The feed may be gradually increased the first week, and then she must be literalls fed. It
very important when the figs are guite young that the feed for the dam be sweet and whole some. After the young figs begin to eat a small trough may the placed in an apartnent inaccessithe
to the dam. but where the young pigs can hel themselves, and warm sweet shim milk may be
given for a fer days. then shorts mas he added If the pen is warm at farroming tine the soll
should wor have wounch hedding. thit mus?

 can with adrantage run out with the dam on


Of Interest to Canadian

## Math Mr. James I. Davidson

## The death of Mr. Jimes Ironside 1ta

 , from the cenes of this good man, and from the roll of Canadian bred stock breeders one of its most pron ling character and unsullied honor, of splendid physique, kindly disposition and genial manner ane who numbered on his list of friends host of good stock in Canada and the which sume. Born in Aberdeenshire scetlan - 1018 be emiprated to Canada in 184 ? setuled on the farm on which he died.$H$ is specialties in stock-breeding
His specialis Shorthorn cattle, of which dydes sound and safe judge, an eminently succensfur importer and breeder, and a liberal and judicions feeder. Mr. Davidson began breeding Shorthorns about 1860, but it was in 1871, when the Shortpaying fabulous prices for paper pedigrees, rightly reading the signs of the times, he made his first importation of composite-blooded cattle from the herd of Mr. Amos Cruickshank, of fame on Which subsequently wored a prominent part in modifying the type of the breed the world over, bringing it more into conformity with the requirements of modern markets. This consignment comprised five heifers, and transferred to
America some of the most valuable blood of the Cruickshank herd, from which have descended a large number of the best cattle in the breeding herds of Canada and the linited States, and predominates largely in the most successfur show cattle of the present day.
Enjoying the personal friendship and confidence of Mr . Cruickshank, Mr. Davidson became for
some years the principal importer and ditributor of his cattle on this side of the Atlantic, and from 1881 to 1887 had practically a monopoly of the handling of such stock as could be spared
from the Sittyton herd for the American trade, from the Sittyton herd ior the American trade,
his operations being on an extensive scale, totalsiderable wealth, although he was never extuitionate in the naming of prices, but alwas aimed to give good value to purchasers, and reloiced to
learn of the success of the stock after pasing from his hands. sage of Sittyton, he entertained no undue prejudices regarding pedigree formulas in breeding, and Made tho protest against the use of a sire of other came from a line of good ancestry Thic liter ahty was well exemplified and amply rewarded in
his selection in 18.3. in company with Mr. John Miller, of Fickering, of the bull, Crown Prince of
Athelstane $2 n d 456$, born in 18,: bred by Hon. Athelstane $2 n d ~ 456$, born in 1872 , bred by Hon.
Itavid Christie, sired by the imported Booth bull Knight of st. George, and out of Crown Princes fon of 1864 from the herd of Mr . Iouglas, of
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## Horse Shows

 clatses those in which classes for stallion done are made, those which include classes for brceding animals, both male and feniale : andthose which include not only the breeding classcs but all classes - harness horses, saddle horse. first class of show is much the more common mostly every leading horse section holding one prizes given for stallions of all recognized breeds and classes, and while the money offered is not sufficient to induce owners of stallions to go to portunity of exhibiting their animals before the horse-breening public is usually considered suf
ficient inducement. F'armers and others who contemplate breeding one or more mares
attend these shows for the purpose of secing the stallions of the particulat class or classes which several animals of the same class togethe gives one a better opportunity of judging their
respective or comparative merits than seeing each horse singly, and he will usually decide upon the influenced to a greater or less extent by the not a good judge of horses himself, he maturally taking it for granted that the best animals will
win the best places. It is a matter of great importance for a man to win at the spring stow
with his stallion. The honor of winning the prize money, as it gives his horse a reputation and is important in all cases that correct judgment he given in the ring, it is of greater importance
in the case of stallions than in others. The man who exhibits a stallion in any class and is beaten ency or favoritism on the part of the judge or ally supposed; hence the necessity of extreme care being exercised in the se'ection of judges. In the monitass or classes upo hecause he is considered a horseman, and at all some of the directors or probable exhibitors. We
promises to act. Possibly he is aware of his inuhility to do justice to exhibitors, but he does concludes that at all ewont we will be some
one associated with him whose judgment will bo more valuable, and between them they will pull fomething unexpectedly occurs which makes it inCouvenient for him to attend: he has not time word to the directors of his inability to he presoften noticed that one or more of the judges who had promised to act are not on hand. Something owd is present, stallion owners or grooms hav their exhibits ready and are waiting to be called. forced to get some one or two of the crowd $t$, who has any knowledge of horses, and endeavor
to persuade him to judge. it may be he is inompetent and knows it, and will not be per tance of the functions which he is asked to perald eventually succeed in filling the varancies and neighthor with an exhibit in some of the sections. moticen that the friend often receives a better hace than the merits of his exhibit warrant Monmency, but it is a great injustice to the ex-
ilitur with the better animal. It is certainly lambathe for a man to do his neighbor a kindnes nt when he is doing an injustice to another to eimge system, but this is open to argument Wump one two or three judges be selected, care Whw he taken that each is competent. It is not at satisfactory decisions more quickly than
 W. Uthere be three, two may arver, tull ",
order to save trouble. Then, at the next disagree
ment, the one who gave way at first wiill held ment, the one who gave way at first will hold
fast to his opinion, and claim that as he gave in last time, it is only fair that his associates give Hence the facts are that the awards are not al judges, and each has the opportunity of of the the blame of any mistake on his associates man is justified in accepting an invitation to act as judge unless he thoroughly understands, as fal qualities of the clusces understand, the desirable He should be so sure of his knowledge that have ing once made up his mind how the awards should be placed he will not consent to any other allotment. He, of course, must be thoroughly honest order to do justice to himself, the exhibitors and the society that employs him. he must iudge the exhibits solely on their merits, not in the slightest degree taking into consideration who the exhibitors are. In fact, he should not know who sible to prevent this knowledge, still care should not be taken to impart it. In shows where there are Catalogues, you will usmaliy see the judge or do is is furmshed with them, and all they have to her. Now, I think this is not right. If a case dhould occur in which the judge has difliculty in rying to be perfectly honest, if he be a friend of incline him to favor his friend, whi'e the animals: I would like, also, to say something about

the late mr. James i. davidson.
fially the saddle and hunting classes. I claim th: uss he can vide, and esplecially call non man give satisfaction in judging hunters unless he be a
cross combtry ridier. The value of at saddle horse and his right to win depends so much upon his month, manners and paces, that it requires a man
who can ride to place proper value upon these points. And the same remarks apply to the hunter, in addition to his manner of performing wer obstacles. No man who is not a crosscommery rider can thoroughly appreciate the dif paces, and a nice way of taking his fumps in his che without altering his pace, and one that is paces, and bucks over the jumps. Many judge of the hunting classes seem to consider that if :
horse takes his jumps without knocking them down or tipping them, that it is all that is required, apparently not knowing, or forgeting, that fider and case to himcelf. Anathe often apparently overlooked by the judges i classes is that humters are of theee classe, viz


classes by saying that he carried the specified veight of 180 pounds, and hence could not be dis The conditions state that he he up 10200 pound to hounds, and the fact that a horse can, with apparent ease. carry 180 ponnds over a few hurdes on the tanbark or grass dom not show aiter hounds for ten or fiftean meil. whemery consider it the duty of the judge or judges in the hunting classes to line the entrie
hey appear in the ring and look carefully ovel disqualified and sent out of the ring should be lowed to compete at all. No hunter should be on any account allowed to compete unless he be well up to the weight demanden: hence, where there weights, medium weights must compete in tho lightweipht clacs Shows we supured to be ein cational to those who are seeking knowledge in the line of live stock, as well as entertaining to the general public and profitable to the exhibitor produce heavyeight hunters. should attend ons of these shows with the idea of seeing the ideal est the lightweight hunter class perform, and sees arand little fellgw of say 1,050 pounds, with This is amusing and instructive, as it gives him
pleasure to see the noble animals perform, and teaches him what an ideal lightweight hunter verformance, but it is the heavyweight in which he is particularly interested. He waits until the
"heavyweight " class is called, and is surprised in see some of the same animals that competed In the lightweight class a few hours or the day
before, but his surprise is intensified to see the before the same iudres. This man, who is lookine for information, is supposed to know little aloont. horses, and nothing about the tricks of exhibit asked to judge at a high-class show understand their business, else they would not have accepted, and that when these gentlemen grea prive to an least a fair representative of the class, and when where such difference in size is demanded, he to the wrong the conclusion that he has come stances of somerbat the sume nature could bi In all classes where the Such things should not be fairly typical, they should be disqualified, and the indge should be able to give his reasons for
disqualification. If judges were required to pult licly give reasons for their awards, state why thi
first-prize animal should be placed ahead of thi second, the second ahead of the third, etc., i
would make it much more interesting structive for both exhibitors and spectators, and
would have the effect of preventing a person accepting the position of judge unless he felt quite competent. As it is, if a judge makes a mistake jected to uncomplimentary remarks by those whi
know better, but he hears few, if any, of those re marks. But if he had to give reasons for he atwards, he would often hold himself up to redi
cule in endeavoring to fustify them, and would cithe in endeavoring to fustify them, and would
eithe business or qualify himself to do
better work, and be more careful of courco man can expect to satisfy all exhibitors or have ors who have failed to take first place. Still, if he be " the right man in the right place," he will those who understand the desirable charactory of of the class under discussion. Opinions will reasons for his ${ }^{\text {a }} \underset{\text { decision. }}{\operatorname{man}}$ he $\underset{\text { will }}{\text { can }} \underset{\text { be }}{\text { give }}$ respected by others who are capable of judging, Therefore, I claim that in the selection of judges stock, or, in fact, for any animal or article that is up for competition, greater care should be
taken than is generally exercised, and I also, position as judge unless he is well qualified. and can convince the public of such qualification by
publicly giving reasons as above stated.

> The Remount Scandal.

## In the ! Britich Itomee of Commons, it has heen

 harged that the Government patd £3:3 Fer heal oonkets of certain smart indivicluals who cold them$\qquad$


## Chewing of the Cud in live Stock

ing anvehing to do with live stock that shee goats and cattle chew their food (or cud, as it is
commonly termed) a second time, while pigs and Crsses do not.
Chewing of the cud is technically termed Chewing of the cud is technic:ally termed ive act are classed as ruminants, a term which
includes goats, sheep, cattle, deer, antelope, and camels.
plan from other built on a somewhat different possessed of four stomachs in place of one. stomachs the digestive process goes on; the others may be considered as enlargements of the gullet and places in which food is prepared for have received names : the first one, the largest, with a capacity in mature cattle of 45 to 60 gallons, is termed the paunch, or rumen; the econd the honeycomb, or weticulum; the third the manyplies, or omasum ; while the fourth, ol masum. The reason for animals ruminating is that when in the wild state, and when liable to be preyed upon by stronger members of the animethod food could be takell in rapidly and chewed at leisure in a place of safety. An important thing for live-stock breeders to know is that fright, harshness, or the presence of strangers,
causes stoppage of this re-chewing for a time hence, as far as possible, all such contingencies ruminant is partially masticated and mixed with saliva in the mouth, then is passed on down the gullet to the paunch and the honeycomb, the plies. After a certain time has elapsed, this food, which has been churned up in the paunch
by reason of the movements of that organ, is re urned again to the mouth, where the bulk of it the fourth stomach. It has been estimated that bout seven hours are needed for rumination to be completed, hence it will be seen that the practice of the cattleman in bedding down the stock and allowing them a period of quietness and rest servation of facts.

The Live Stock Conventions of Manitoba. The middle weeks of February in Winnipeg are gatherings of the fraternal societies, and the breeders' meetings. This year was no exception.
and the attendance at the meetings of the associations and the number of memberships was larger stock-judging demonstrations at the afternoon sessions, recommended by thie Advocite, Dec. 5, 1901, was adopted and proved a drawing-card
and a great success. As working further along and a great success. As working further along
that line, we believe if the associations could secure a suitable man, that a week or a $t$ wo weeks, and very bencticial. The passing of it resolution in favor of an agricultural college by the breeders' and horticultural associations may teaken as
an effectual refutation of the mossback-like clatus that we don't want a college, because there are and therefore Manitoba is not yet ready for an agricultural college. Many new faces were seen at
the meetinms, indicating that the breeding of pure-bred stock is infections. The absence of
eastern speabers wits much to be deplored, but some very good men were substituted from the lieve, to lack of time. Breeders generally seemed to feel pleased at the prospects for business, and reported a fairly grood sason atready past.
Judging from the expressions heard on all sides, and only require more experience to bring them fortine business opened up. Some breeders and exporters
took advantage of the convention to bring in sale. The Sheep and Swime breeders opened the
ball on Feb. 17th. followed by the I'ure-tred

with, andNivervilleVinnipeg. Auditors-H. Mcketarer,Directors: Sheep -H. Mckellar and 12. Waugharman: D. E. Corbett, Swan Lake: JasRiddell, Rosebank; A. D. Gamley, BrandonW. F. representatives-J. A. Mctiill, NeepawaW. L. Tramn, Crystal City. . Dr. S. J. Thompsonwas re-elected representative to the Wimniperg In-
'eterson, Deputy Commissioner of Agriculture fo
elative to the furthering of the sheep business in
problem. taking up more particularly the fencing
that the C. Wire be placed on the free list, andrams, to allow of their being moved around moreeasily for stud purposes. Mr. Peterson was madea honorary member of the association. Motionsports printed for early distribution; suggestin
fairs; urging the immediate establishment of an

modern judging rings with indial
modation, and with reference to the appointmenlution, moxed and seconded, the following rest1V. Brown, was, after considerable discussionpassed: "The Sheep and Swine Breeders' Association in annual meeting assembled, realizingthe relationship that should exist between successfully conducted Institute work and the ad-
vancement of the pure-bred live-stock interests ofthe Province, declare ourselves in sympathy withthe proposition to have a live-stock commissionertutes, the two positions dector of Farmers' Insti-tutes, the two positions being united for the time
being for the purpose of efficiency and cconomyThe morning session was concluded with fiveminute talks on Tamworths and Poland-Chinas bystal City whm, Manitou, and W. L. Tram, Cryjourned to the Case building, which had beefitted up as a stock-judging pavilion, and carrieddemonstrations of stock judging, using live ani-part of the Association was such a move on theborne out by the attendance, which ran up into
the hundreds. Prof. J. J. Ferguson, Professor ofAnimal Husbandry, Michigan Agricultural Col-
supplied by courtesy of the Gordon, Ironside dFares Co, were grades, of which one was a large
Berkshire weighing about 320 lbs ., a shaggy Tam-about 190 lbs . Prof. Ferguson went briefly intokets, and described the animals suited to supplylittle fat and plenty of firm, lean meat, the sidesbeing the important part, leing used for the prohammed hog. weighing thick, fat-backed, large-hog wanted for our best market was one thatof growth and careful feedines athent 7 monthstime 40 per cent, of the hogs. put on (amadianmarkets. were typical hacon hogs, 25 per cent
were "fats," another 25 per cent. were "immatures
orProf. Ferguson warned the breeders against ex-tremes in breeding, stating, that in the profluctionlack in breadth throngle the heart and consme
quently would lack int comstitution. The idealhacon pig should be smooth, with an won faxe
to he too fat on the hack, cspectially wor thio
1ake to tre to change the charracteristics of the
Berkshires, Poland-chiman, Chester Whites and
W
handit to he derficed trom rataining those
The furmer was eonmerned, the berkshime mikht be
duced hy breeding immature pigs, also from lack
of exercisc. The hogs used were afterwards slaughtered and their carcasses shown, when the judgment of the lecturer was borne out. Follow ing Prof. Ferguson, a demonstration in " Judg Hopkins, late Instructor in Animal Husbandry Wisconsin Agricultural College, four sheep (thre Shropshires and one Cotswold), kindly loaned by Messis. A. Baxter, Jno. and Matthew Oughton being used for the purpose. The lecturer drew at stated that one of the former objections - the strong flavor due to the Merino blood - was
being overcome by the use of sires from the mut ton breeds: Leicesters, Lincolns, Cotswolds, and speaking of mutton types of sheep there were the two classes to be considered - breeding sheep and fat shcep. In the judging of sheep, the age should be looked for by examining the teeth, and then form, which should be low so the style of the sheep. The head should be broad, full, and in the male should give a bold
appearance to the sheep, full bright eyes, a short breds, scurs (aborted horns). The scray, or neck should be examined, which should be full and strong, es pecially in the male. The examination just below the throttle should be thorough, as the wool there may conceal goicre, a serious trouble in ally die at or soon after birth. The shoulder neck vein, formed by the blending of the neck brisket should be prominent, and the smooth, the be wide between the fore leps which sheep should indications of constitution. On top of the shoul-der-blades there should not be a hollow between
them, neither should the spine stick up above the . ribs well sprung, the back would be wide, and it cuts are back, loin and leg where the high-priced loin, and a deep, thick flank are essential. The width and levelness should be carried out to the ho cutting-up between the hind leos (the repion chort legs, with not too coarse bone, the mutton
should be tolerated. Plated sheep will approximate closely to the above de the skin which should be pink, and the girth which should be dense and even over the body, xamined over shoulder and thigh, the former being the place where the finer wool is to be black spots impurity of blood. Here again the
 At the evening session, Mr. C. W. Peterson saying that such were essential to the success of those institutions. The address showed the speaker to have studied the conditions, having Gone back to the transactions of the Bath and If expert judges were provided, the educational eature of the shows would be developed, as easons would be given for the placing of awards. o discussion followed Mr. Peterson's arguments, eing to all intents and purposes unassailable
Prof. J. J. Ferguson then spoke on ing for profit." I'igs were the least expensive and pure-bred males. Persistency was the use of good and it was said there was little to choose beween the breeds; a pound of gain resulted from sows for one litter a year. Grade sires meant unrofitable to feed breeding stock a grain ration during the winter. He advocated 30 lbs. of of whole oats being fed at noon; mangels to be fed whole. Turnips had to be pulped, and might weeks before forrowing the root allowe to four e decreased, and the bran and shorts mixture stock food. The dairy and pig, business should go rigs, and he was not afraid of unlimited quanti-
ties; had fed als much as 30 lbs. a day along ties; had fed as much as 30 lbs. a day, along parts fine oatmeal and one part bran. Barley
should on no account be fed to sows during the

 Ontario Minister of Agriculture, and how the
catcom breeders were pushing for the Western
trath De stated that there should be at least
on pine-med sires used where one wis used to2) pole-fredence was made to the bringing of
Nand. Refence whe whe the West, thus bringing. the Tertiturtal and Manitoba breeders together. ConPresident on the appointment of a Westerner, Dr.
I. (i) Rutheriord, to the position of Dominion Veterinarian. The secretary, G. II. Greig, then
read the report for 1901 , and referced to the Wm. Sharman, in the Territories in dis-
posing of Manitoba-lored bulls. The success oi the Hon. Thos. Greenway's herd at the Panexpert judges for local fatirs and the printing of having stock-judging demonstrations at the a nual conventions was acted upon by all the as-
sociations (see reports). The financial statement showed a healthy condition of affairs. The elec-
tion of officers resulted is follows: President, J. Bray, Longburn; 2nd Vice-President, F, Jas. Middlechurch, Shorthoms: J. fs Marplew pronled Angus; J. M. Camphen, St. Jean, GatAyrshires D) Munroe, Minnipeg, Holsteins: ditional divectors-Andrew (iraham, Pomeroy A S
 Resointoms, as follows, were passed: One reing a live-stock commissioner to act as joint college question came up, and the following restolution passed, to which J. H. Irwin, one of the
agricultural-college commission to isit the colleges. spoke, landing the work done by those in-
stitutions: " Whereas the provincial (iosermment has and appointed a commission on the subject. the
members of which commission did visit several of the leading agricultural colleges and retmrned
filly convinced that such a college should the estution should be run entirely independently of college is an essential to the future progress of Cion Thererere he it remolved, that this Assuciat steps atready taken in the matter, and respect
finly
urge that the establishment of an agricultural collmge be proceeded with with the least
pussibuin dolay. This Association desibes further
 ment- more made in the iest interests of the
 has han worvied by parties interested in the
again representative to Wimipeg Industrial, and
Henry Nichol to the Bhathon Fatir. Dr. A. G. Hopkins was elected
renes at Calgary in May
of the Associntina, suggented
the Association, and thus do an
tive, with the attendant expense. This method the executive only being called to meet once a sear. or when important business came up. Th
Association decided to stay by the old system. Mr. Power, in reporting the horse exhibit at the 1901 Industrial, criticised adversely the appoinment of an associate judge by the exhibition sociation.
strated the system followed in the examination of a horse for soundness, and while doing so their causes mal. A good discussion followed this the arition Dr. Curryer, L. F. S. of the Minnesota
lanstitute staff, then took up the " lesirable and undesirable points in the horse." using a number tions. This the animals served him as illustraamplification of that of the preceding speaker an the evening Dr. Curryer again addressed the audience on "Training the horse." The speaker ness and firmness when dealing necessity for kindtraining of the colt should beriu at wean time, which would do away with the breaking arion usually followed later in the colt's life shown, as follows : For halter braing horses were with a slip noose was placed around the body at he flank, the long ent of the rope being corried between the fore legs and up through the ring of a headstall, thence to the tie-ring, it being left mimal jonger than the halter shank. On the strap, the noose would give him a squeeze that wand cause the halter breaker to jump to his place: a few experiences like this and he would eam of horses was recommended when turning the night, that the head of each be tied by for haiter shank to the tail of his mate, and thus With a balky horse of a team, it was night. mended to tie him short hy the tail to the double on the tail would invariably cause the tension move on. The lecturer insisted on the use of an drive for halter l, soakers was used to get colts to used Dr. Curryer insisting on the principle being ob(). apuly if one wants a horse to go forward he body. and if backward, ahead of the middle line. The lecturer showed that he had studied
Votes of thanks were tendered to the
Votes of thanks were tendered to the

## matry association

The 16 th ammual meeting of the Dairy AssociaWilliam Champion February 20th. The President, ectors sulmitted a lengthy report, reviewing the lairy Package Branding Act passed by the Local Legisfature last year, the introduction of butterproved such it marked success, and the market ports furnished by the exccutive to the various made to the improvement in the quality of condition of the dairy industry. oba Dairy Sclool and favorine the gre Mani of at lisestock commissioner and director of Were read from several of the creamery and cheese :ommittee having bern appointed by the ineeting. the election of officers was disposed of very exreport of the commitife. The officers for the Vice-President, IR. Waugh, Winniper: 2nd Vice Tresident, D. W. McQuaig, Macdomald, Secre

A cordial vote of thanks was tendered the re
tiring secretary, Miss C. E. Hind, and regrets were expressed that she found it necessary sever her connection with the Association. The attendance at this convention, while not
large, was representative of the varifus dait large, was representative of the varifus dair districts. Papers were read by Mr. Wheatland, o
the Government Dairy School on the Oiltest churn" ; by W. A. Wilson of Regina tendent of the Dominion Government Creamerie for Assiniboia and Saskatchewan, on the "Mak ing of high-class butter "'; by Hugh McKellar - The future development of dairy work in Man toba," and wy S A Betiord, Superimtendent o the Brandon Experimental Frarm, on $\because$ Grasses and fodder crops." C. A. Murray, Superintenden of Dairying, ga
butter judging.
At the evening session, Mr. J. E: Hopkins, At the evening session, Mr. J. F. Hopkins, of
the Moose Jaw Creamery, gave aul address on "The, dairy cow and nilk production in the West," and Prof. Farrington, of the Wisconsin Dairy School, gave a most interesting address on the production of mik the aterage cow,
lustrated with stereopticon views. $A$ portion of
Prof, Farriningtons address aplears elsewhere in Prof, Far
this issue.

THE WESTERN HORTICULTURAL SOOHETY. The annual meeting of the above society was sion the report of the executive committee and other matters were first disposed of, and the election of offcers for the year was proceded with estulting as follows
President, Angus McKay, Indian Head : 2nd $\begin{array}{ll}\text { President, Angus } & \text { McKay, Indian Head: } \\ \text { Vice-President, } & \text { Shd } \\ \text { V. Bedford, Brandon ; }\end{array}$ Vice-President, A. I. Stevenson, Nelson; 4 th
Vice-President, M. Bull, Winnipeg; 5th VicePresident, J. J. Gunn, Gonor ; 6 th Vice-PresiBartlett, Winnipeg; Treasurer, W. G. Scptt, Winnipeg. Councillors-lichard Alston, Alderman Barclay, G. H. Greig, and Thomas Mclntosh,
of Winnipeg.
By a vote of the $\Lambda$ ssociation it was decided to August 28, 29 and 30. A resolution was a passed endorsing the proposition to have an ag-
ricultural college established in the Province. It ricultural college established in the Province. It
was also decided to ask the Local Government to print copies of the $\Lambda$ ct prohibiting the dethroughout the schools of the Province.
Following the initiative of the stock associa-
tions in introducing demonstrations of tocktions in introducing demonstrations of stock
judging, the Horticuitural society introduced : new and what proved a very interesting feature
in the way of an address on the judging of vege-
tables and roots, by Superintendent bedford. Mr. Bedford heartily concurred in the object of the society in taking up the work "f regetanc neglected by agricultural socicties when selecting judges for these departments, and fremuently hoth exhibitors and the public were at a loss to mold
stand the reason for the placing of awards. stand the reason for the placing of awards.
his address he gave credit to Mr. Brown. his address he gave credit to Mr. Brown.
gardener at the Farm, for valuathe assistance preparing the standard of excellence which he
presented. He dealt with a number of the most common roots and begetables and demonst rated
from specimens presented the desirallo and ande-
 to each point. Superimendent Mckay, of the Indian Heand Fiperimental Farm, contrituted at ahath paper
on :. Fruitgrowing in the Teritories." He reon "rmit-prowing in the Teritories. We rethat rendered fruit-growing with thinn comenwht
ditlicult. While not jet sucessful in growing mones. they hand succeeded with crabls of the Then they could send fruit to the Horticultural






Poultrymen Show Their Birds.

The ammal struggle for fame, dollars and ad- place in Winnipeg during the second week of the Bonspiel. The fashionable feline favorites were also on view; in fact, pussy had quiter a corner

in the show, and was the cynosure of the feminine world. Mrs. Benson, of St. I'aul, managed the exhibit of cats, and worked up considerable enthusiasm among the local cat fanciers. The utility man or woman was more interested in the feathered tribe whose mission in life
is to fill the egg basket, or as capon or dressed is to fill the egg basket, or as capon or dressed
fowl minister to the tastes of the epicure, the invalid, or the picnicker.
A large number of birds were on exhibition,
the principal winners in the utility breeds being the principal winners in the utility breeds being
mentioned: Brown Leghorns, ©. A. Jordan, Fargo, N. D,, and Thos. Chambers, Brandon. In Partridge Cochins, Wm. Anderson, Brandon, was
the whole thing. Light Brahmas were a fine ex hibit, the bulk of the prizes going to J. W. Higinbotham, Virden, and Geo. Hanly, Wimnipeg a is Andalusians, (i. Wood, Louise Bridge, took the bulk of money, Wm. Anderson also winning i prize. In Langshans, S. Ling, Wimnipeg, was
heavy winner; Miss Fowler, Headingly, als pulled out some of the plums. Chambers, of pulled out some of the plums. Chambers, of
Brandon, won on Minorca pullet; F. M. Rose and T. Reid, of Winnipeg, being the heavy exhibitors in this class. The old-time favorites, Barred Rocks, were out in force; Geo. Wood, Holland; T. Ratherforit and L. ID. Canniff, Fargo, N D., heing Rutherford and L. It. Canniff, Fargo, N. D., heing were also a good lot, being shown by W. Wilding,
Winnipeg : Wood and J. Kitson, Macdonald,
the former winning the bulk of the prizes int the former winning the bulk of the prizes in
White Wyandottes. In the Silver Laced variety Dr. S. J. Thompson won a prize for breeding pen. In Dark Brahmas, Wm. Anderson. Bran-
don, was the standard don, was the standard bearer. Midwinter and
Kitson were the competitors in Javas. The massive Bronze turkey was much in evidence at this show, a cockerel shown hy Maw
weighing 25 lbs. Kitson, Wilding, and Maw, Winnipeg, were the principal winners with this profitable fowl. Midwinter and Maw divided the varieties of geese were shown by Midwinter
Muller. Cypress River. with Cayugas, and Maw winning the bulk of the prizes with pekins: some
King and Kidd. Winniper.
 societ! mow holds ionth. Indge Holdeni of St Pand : aitin did the scorings satisfactorily. The
 grant of s:3.5. and 8150 extra for coons hy the President. I. W. Higinhotham, Virden: Vice

$\qquad$
 this wintere Demonst rations of ponltry cramming.
killing. Wheking and dressing for market shomld be bold. fowls lomg usod for the purpose if mot





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Manitoha Veterinary Medical Association.
ten days. After that add table scraps and Judge Holden recommended strict adherence one breed, and advised that no more be kept

No Deterioration in Stock Raised on Separated Milk.

Although the cream separator has evidently tion in a great majority of farm homes, still there remain a few staunch, old-fashioned people, of these not as yet conserted to its use. Some satisfied as long as they get through anyhow, and some again (mostly prejudiced or inexperienced people) will maintain that calves raised on separated milk, from which all but a very small fracin growth, and even when yearlings, or older, will still show, to an experienced eye that they have been fed on separated milk, which is placed on a par "ith cheese-factory, whey, or, ats one man Having used a separator now for a matter of have used them for a like period, perhaps I may be allowed an opinion as to whether the objec tions above are correct, or whether they have any foundation in fact. I have not noticed any deotherwise treated as well as calves raised by other methods were. In fact. I think the calf fed on separated milk, fed warm and new, has the the cream in it, and given merhus, with some of range of temperature, and sometimes sour oc casionally upsetting the digestive apparatus and days to a setback which may tathe many good the dam will come in conse, ac call rumming wid fatter, but a superiluity of fat is not necessary to generous growth, and I notice that when suckers and hand-fed calves are fed in one lot all winprobably when equer the well before spring, and pick them out, breed and feed being equal. A calf coming from the dam is certainly worth more at the time, but about the only man wh yearlings have ho the butcher. A great many neighborhood the past four ears from this complaint has been offered as to the calf fed on mikices from the separator. The general run of prices is from 816 to 818 , and occasionally as thing is certain, the bugers keep cominered. One It sems to me as learers keep foming for more milk, togethor with the curd in the separated stithent parts. assisted by amall ration of gathong an shan dings, provides all the nutriment nocessary io mahe a good grow thy heifer or This manmer prepares the digestive organs to do
their work at an earlier age fond the haver their work it an earlier age. fud the hand-
raised calf is growing while the sucker, having derived his nourishment from the butter-fat in the milk, has to prepare the digestive organs for the change in fecd, and loses some ground while
to doing. of course, there is some work and houble in milking cows and rating calves, but Wi, It is a sure and lasting income, and probmevent some other useless and unnecessary ex memditure. ". Satian still tinds mischief for idle
hands to do." and ". An gains without pains "" is inst as good an adige today as it was when
written in the cory books some forty or fifty
Gance ano


 ton is in : monserons condition. The associa- W. A (al case. It was rashed to ask the Dominion
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Nine ver wow

The Territorial Grain Growers' Association.
The Ist annmal meeting of the Territorial Grain Growers' Association was held at Indian tive gathering was present. The election of officers resulted as follows: President, W. $\quad$ R.
Motherwell, Abernethy; Brown, M. L. A., Regina. Executive Committeo R. J. Phin, Moosomin; J. Dorrell, Moose Jaw ;
J. A. Brown, Spy Hill; W. P. Osler, Summerberry; G. Spring Rice, Pense", P. Dayman, Abernethy.
In opening the In opening the convention, President Motheramong the grain-growers, pointing out that in other branches of agriculture, such as tairvine, stock-raising, etc., the benefits of organization vanization of prain producers would recult fro this movement. In the six weeks since the matter of organization had been first talked of, branches had been opened in many points from hoosomm bort and incuiries were heing received cyery Alfrom other points in the Territorics and from Manitoba. He intimated that some changes the Grain Act were desirable
G. W. Brown, M. L. A., Regina, satid that the farmers in his district felt that organization was not attempt too much, as it was in attempting too many reforms that other organizations of
farmers had been wrecked. He thought they should devote their attention to improving the went at this question carnestly enough, the railway corporations would he as friendly toward middlemen
The Hon. Mr. Bulyer, Commissioner of AgriHe considered the producers entitled to all , he advantages from their labor. His Department had estimated the wheat crop of the Territories at $12,750,000$ bushels, so that for every cent per bushel less than the actual value the farmers
were losing $\$ 127.000$. From present indications. he considered that in two years the wheat acreage of the Territories would be doubled, as the large bulk of the immigration now coming in from the south were men in a position to farm on an exyensive scate. thit of 1901 , it was easy to see yield such as that of 1901 , it was easy to see
how serious the situation would le. His Department was prepared to assist the organization by paying the expenses of organizers if a systematic series of meetings was arranged for. He pointed vators. His Department had heen working in accord with the grain board at Winnipeg to find an outlet for wheat. He thought the C. P. R.
should make as low a rate from say Moose Jaw should make as low a rate from, say, Moose Jaw
to Duluth over the Soo line as to Fort William ; they could get Great Northern cars, and there was storage at Duluth for $10,000,000$ bushels. He referred to the seriousness of the situation,
stating that between Wolseley and Balgonie from stating that between Wolseley and Lalgonie from 200 to 300 temporary warehouses had been built
in which to store wheat, and he said thousands of bushels would be ruined if it was not put into proper storage before spring, and he thought the C. P. K. should not pursue a dog-in-the-manger policy, Sut should be willing to let the farmers
realize the best possible prices for their crop, even if they did not get all the hanl
The Canadian Northern had offered to take ove wheat from the C. P. R. at Winnipeg for their
Port Arthur elevator, hut the C. P. R. would not allow them to do so. He considerel the best outa number of other delegates addressed the conrention, all showing a desire for organization and
unanimity of purpose. Secretary $J$. $\Lambda$. Miller showed that the membership numbered about 500 . mentinger the most important , subing that to the by R I. Phin, seconded by livingston, aund
which was carried to mathet thereas the farmers have not heen alle refusal to furnish cars for that purpose: and
whereas there is still remaintne in the farmers hands one half of the grain grown during the wheat has been sold to the elevator and milling compronine at a price and at a lower grade than
its value, caused by the companies statine that they have anly bins to receive wheat of thi loser erude. and owing to this the farmers haw
been formed to take from 7 to 9 cente per thushe
less and whereas there is now an elevatu
at Fum Arthur ready to receise wheat, and alw
plent uf elerator space at muluth: and where as it well-known fact that the i, 1, Re hat
furnish cars sufficient to forward grain as it is
offered, and the shipper be allowed to ship to Winnipeg, thence by Canadian Northern to their elevator at Port Arthur ; and also to ship to Duluth over the Soo line, at a rate of freight
charged the farmer charged the farmer to Fort William; and that
copies of this resolution be forwarded to the Superintendent of the C. P. R. at Winnipeg and to the Department of Inland Revenue at Ottawa., amendments to the Grain were carried called for companies to erect loading platforms within way days after approval by the Commissioner : 30 the railway companies be compelled to provide farmers with cars for loading from wagons, Whether or not there be warehouses, elevators or grain is deteriorated by miving bidered that our the British markets, it was resolver to ack the Dominion Government to appoint a commission highest grades to send 500 bushel lots of our comparison with Manitob for the purposes of there through the regular channels as received the farmers of having farmers' elevators beine point a man to advise red that the exeoutive appoint a man to advise and assist in the building to associate themselves with the Mranitolum Northwest Farmers' Elevator Association.
resolution was also passed urging the extension during the coming summer andway to Loon Lake solved that in the opinmer, and it was also re provincial powers should be granted to the Tor ritories to enable them to build railways to prevent the recur
grain blockade

## Flax athl Girass

Much prejudice exists among the farmers The most serious of these general growing of flat ing whe coming at the time we are busy thresh almost invariably in the seed. On this farm are season on backsettine - 200 acres under flax, 160 backset the year prerious (1900), disked and and harrowed twice in the fall, then harrowed drill 28 lin the spring - seeded with shoe mediately aftor seeding sown to acre. line with heavy iron roller. The remaining 40 ace Was broken in the spring (1901), well rolled, and Some object to flax growing, claiming that it is very exhaustive on the soil. This, thimh
only takes place where continuous cropuin flax is practiced, and it may be proventel in great extent hy good cultivation. I eep plowin in the fall, exposing the soil to the irosts of wh
ter, encourages the oxygen and carbonic acid the air to acl upon it, and by admitting these inendy agents to all parts of the soil the dor
mant supplies of plant food becomes soluble an In Minnesota and the Dakotas, I understand the knotter from the hinder ind nax is to remov drop it off in the sheaf carrier until full, then would favor handling it in growing it again as we do other cereal crops. As it is very wan cult to thresh loose flax, the self-feeder had to the Timothy
When seeding down with timothy we generally and we have never missed having a good catch be ahse the lavorte murse crop. This year I will crop. We usually sow the timothy broadcast after the oats are about two inches high, using
the light harrow immediately in front of the serf! and the roller after.
mit 1 am afraid it is a complete failure hefore see very little sign of it coming in the fall had a very good vield from so far a meighto acres. T. M. CAMPBEI.L.

An advertiser of Jersey cattle in the "Farm or shat in write desires us to remind enquirers it is important that the writer sign his name to his letter and state his post-office address if ho hopes for a reply. Our correspondent states that he has had tro unsigned letters of enquiry for stock in the last ferv months, and probably the
writers have written him down as an indiferont case? The name and address shoreply in such a
cat only the wiven, but should be written plainly, as only these ar

The Annual Meeting of the Winnipecs Industrial.
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$\qquad$ trial Association thas no assens. The orounds and buildings are owned to the (it of Wimbipee the directors
$\qquad$ Winniper nificent ademetime
$\qquad$ on the public, and everyone suceess demends up prosperity to a greater or less extent if they
$\qquad$ success, as large numbers haw visited our city
$\qquad$
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$\qquad$ great work that is being done by the bxhilition Askociation ass anmmigration medium for all
"estem Camada, it was thoneht more liboral suppore ought to be alccorded it iny the publie the chty, the Province, and the bominion. It Was
resolved to seek finamial atid from the Dominion




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The atractimns cost sis,280, 36, and there




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ature is often the most carelessly written tan

Care of the Ewes and Lambs. Snto wan to have the lambs comining alone in March and as the greaten part of this month id for extra care and watchfulness during the lamblneeds to be. a little labor hot make it more comfortable. Sheep love liberty to go out in the
fresh air and sunshine, and this should not be fresh air and sunshine, and this should not
denied them by day, but when lambs are pected they should be closed in the house night, and the shepherd should be prepared to lose some sleep if need be in caring for the flock
at this season. He should see the sheep before reat this season. He should see the sheep before re-
tiring for the night, and if there are indications of an increase before morning, will, if he has the interest of a good shepherd, take short naps and
visit the fold again and again, till the little stranger is safely started in life. The ewes, if bill of fare improved a couple of weeks before the limbins come, by adding a few roots and a little lats and bran to induce the necessary flow of milk. It is wise to provide a few light hurdles,
say six feet long and thirty inches high, to be fine the ewe and lambs for a day or two, till they become acquainted. It is not well, howevel to keep them so confined longer than two or cise. and there is less danger of the ewe being
overfed if sharing with the other ewves, while the stimulus of competition in sccuring her share of the feed is good for her in many ways. When number of the ewes have lambed, it is well
livide the flock, which may be done by the use hurdles tied to stakes, as those nursing lamb should be more generously fed than is necessary for those that are to lamb late, and which if fed as well as the nursing ewes need to be, are apt from any cause, she may, by a little good managefrom any cause, she may, by a ittle good manage
ment, be made to adopt one of a pair that another mother may not be able to do well for.
This may be facilitated if the lanib is deadborn lamb, that is to take its place, so that the smell of her own may be upon it. If the lamb dies at an older stage, strip its skin off and fit it on the lamul) to be substituted. This can be done so that the lamb's head and feet only will show, and if
the ewe and lamb) are confined together a few days, there will be but little difliculty in making them take to each other. The most stubborn case can be overcome by tying the ewe by the neck for a week, if need be. When a ewe has been in labor
for mone than an hour, it is well to make an examination, and if the presentation is found to ward together, she should be given longer time, in order that nature may work out its own deliverlatub must be gotten into proper position, the oiled hand being introduced for that purpose, and as gentle assistance as possible should be given. In the case of a presentation of the hind feet
first, it is decidedly best to bring the lamb away in that position. If the birth has been long declear the nostrils and breath into its mouth, inflate itso lungs. After difficult and painful, par-
turitum, the injection into the vagina of a weak antion of cartolic acid will greatly relieve the
 gains strength enongh to suck. If the lamb is too thene homb umber its breast. and with the
 itde havine an assistant th hold her, white you


 Tlue lanlus tails should liw docked when the two wrofe ,old, this many be sately done wit



aperation. and has had no experience in this the professional way, let him try the American
rancher's plan on one of least value, a few days rancher's plan on one of least value, a few dhys shears the whole scrotumn, with its conteints, not
too close to the body. This should be done when the lambs are quite young, not more than a week ensure against germ infection. The professional plan is to cut off the point of the scrotum, and with a pair of forceps draw the testicles, one at a time. casings and all, pressing meantime with
the finger and thumb of the left hand upon the the finger and thumb of the left hand upon the their teeth, and make sure and safe work. An enclosure for the lambs should be provided whel they dre two or three weeks old, where they can
be fed separately from the ewes, which is almost a necessity if they are to do their best. ". creep " must be arranged through which the straw on the sumny side of the pen, on which the lambs can lie and bask, for th
shine. and it is good for them.

The Tuberculin Test
In Parliament at Ottawa last week, in reply Sin question by Mr. W. H. Bennett, M. P. (East minion , based on the recent resolution of the Do the discontinuance Rreeders' Association, asking unreliable, unnecessary, and in many cases in jurious tuberculin test, and for a reduction in the Minister of Agriculture. Hon. Mr. Fisher is the ported in the daily papers to have said it was not the intention of the Government to tinue the test or the quarantine
What was probably the last official circular un spection was a striking commentary on the farcial nature of the test. Heretofore the Department had been making free tests of the herds of dairymen and others who applied therefor, but in that it was undesirable for many reasons to tost dairy cattle with tuberculin from March 1st to oct. 1st. It was pointed out that those advanced in pregnancy could not be safely tested, and the removal of animals from field to stable, flies, Department would not undertake to make tests in the period mentioned. Notwithstanding tli is cknowledgment, however, the stockman who deires to import into canada some of the le arse of breeding animats exported to the States the use of this toxin is still imposed. It miimht hurt the scrub or grade, but the pure-bred must the appointment of a new head no the year. With Live Stock Inspection Department in eumnt the real live-stock interests of the countiv more enlightened policy is looked

Break and Backset Prairie Land.

"Th" EAtor " Wrarmer's Advocate":

On the 11 th Jan. last I purchased a sorv wh
farrowed seven pigs the same day. They thrin farrowed seven pigs the same day. They thr
unusually well, being fed milk, bran dlings until about a week ago, when and seemed dumpish. In three days after, anoth was taken the same aray. Their bowels were con stipated. Then they were taken with a violent diarrhea. This lasted for three days, when the got weak and could not stand, but would such the milk from the mother when I held them to her. The rest of the pigs seemed a tritle dull, but therwise all right at night. The next morning end a fine one dead - not one of the sick ones vell n a turgl hours one the sick ones died, no ery much diminished in flesh. The other sick nor fied the same night. None of them ate anything from the trough. The mother is in fine condition The other four are now dumpish, and have every ppearance of dying also. I cannot account for day I started adding to their foed soeks ago to which I from a soarding house some apple and potato peelings, house. It contained Lemon or banana peelings These a orange mixed with the milk, chop and bran. Could and be anything in this swill which affected these pigs, or can you account for it in any way ? have fed and fatted hogs all my life, and have prescribe?
SUBSCRIBER Ans.-A post-mortem of the pig that died without showing any symptons of sickness would opinion is the whole trouble was caused by the food, probably from some indigestible substances
in the swill mentioned which swill mentioned, causing constipation, spontaneous diarrhea, which weakeded resulted in much that they could not recover, while in so other one a complete stoppage of the bowels rely. tincture of the others have diarrhea, give $\frac{1}{2} \mathrm{dr}$. hours until the diarrhea ceases. On the three hand, if any be constipated, give $\frac{1}{2}$ oz. rav linmove oil. If you feed any more of the swill, re thoroughly pigs get exercise the rest. See that both sow and

## Best Immigration Literature

the hrook reply to yours of the 3rd, I received will have received the order I sent you on the 18th. I shall be pleased to send you any more postage takes a large share off the doubt the profits. I see an extra effort is to be made by Canada wishes to mepartment of the Dominion. If Fingland, she could have no better advources in the "Farmer's Advocate," in my opinion, as its average farmer, where an immigration pamphlet would be thrown on one side as highly colored An exchange of ideas with the Colonies would be
to the advantage of both, I think. There is only tion of the country districts, so it rests with the reople to choose. I remain,

Brandon Horticultural Socipt
wek's havalug at end of week, thon hackoon when
$\qquad$
$\qquad$
$\qquad$
$\qquad$

STEPHEN THORNBER

Are Gasoline Engines Suitable for Thresh ing?

I war monch interested in an article in th
$\qquad$
$\qquad$
$\qquad$
$\qquad$

March is, 1902


NORTH ENO
$\qquad$ Hoors, etc., 1 inch (rough), and scantlings
$2 \times 1$ inch. The floor and gutter concrete -1 part ment to 6 of gravel and The mason who laid know of $\begin{aligned} & \text { Mr. Neely }\end{aligned}$ where to put the hole in gutter to run off the liquid manure, but he gutter; A. feed alley; B, elevateluction Plan

Horse Stable Changed to a Modern Hog. pen.
Mr. Robert Neely, of Dorchester Township Middlesex, Ont., having enlarged his stables and barn, found it necessary to change his horses to
another part of the building, and being in of a hogpen, he ${ }^{\circ}$ set his brains at wing in need transform the old horse stable into a modern ahead-of-date hogpen, and succeeded.
For facility in cleaning out (which one could venience in feeding and handling the hoess "), con ally, the writer has seen nothing to excel it. The floor is of Portland cement, with a perfectly smooth surface. The dimensions of house are 20 10 feet wide by 12 feet between each two pens for freding from teyway passage all along the east side. Retween this passage and the pens is a gutter 15 inches wide y 8 inches than the other. so that liquid is easily soaked up
and handled. As the floor of the pens has a fall of 4 inches in 12 feet (the distanen from west side of pen to gutter), all liquid gravitates that way, and with a steel scraper the coarse dropping can all be scraped there in a fev minutes
by opening the double doors, which swing buck across the long passage. Being 5 feet wide, they exactly close off the passage. The fens are cleaned out every day, the manure heing wheeled out through the passage in a barrow, put on the the door and taken to the field. These double doors between passage and pens are fastened on the inside by an iron hook to raised bed, and on the outside, next passage, by a piece of board 1 by 4 inches and 5 feet long, bolted on one door on the other, holding them securely. Some litter of straw or horse manure thrown in the gutter soaks up all the liquids.
Wherever there was a post required a pin was drawn out. Where a post was placed a gudgeon was inserted in the end of post which was put in the hole in the cement, and the post toe-nailed at the top. The doors that swing over the feed ling, one at top and bottom, with inch. scantligg, one at top and bottom, with inch lumber
well nailed, and swing on a piece of flattened at one end, bolted to under side of top scantling and let into a $\frac{1}{2}$-in. auger hole in post at each end. A simple slide in the middle of these
doors prevent the pigs from getting at the troush when feeding them.
The troughs, 9 feet long, are at present wood but will he changed the coming' summer to sub)-
stantial Portland cement ones. In each cornestantial Portland cement ones. In each corner.
opposite the feed troughs and next the passage, is a short trough, with chute attached, that comes This is for feeding charcoal, sulphur. salt, and also for holding dry chop the last three weeks of
finishing hogs for market. Mr. Neely considers it most important to hare dry chop always befor The raised sleening period.
pen are something entirely new. The beds are
supported ty arranged in this Supported by ${ }^{\frac{3}{y}-\mathrm{in} \text {. iron rods fastened at top hy }}$ wood screw into sleeper, and at bottom through four of these $\frac{3}{4}-\mathrm{in}$. rods on each side of bed, and lengthwise, 10 -in. plank, which make the floor of bed. These beds are 3 ft. 6 ins. above cement
floor at front end, and are boarded up all around space hie ween. In front of this, next passage just owre the gutter, is a small door entering hed
to put in straw for hedding, which they will keep clean for two weeks and over. In this will keep
treat the healthy. The inclined walk to these heds is made
very eacy very eacy hy having them cross one in front of
the othy sn that the pigs from on, eat out of
the fin Thic. ralks, which are slatted every \& inchos.
are 11 f.at long by 18 inches wide, and boarded up aho. 3 long by 18 inches wide, and barded with inch lumber, and there
was no , limealing or crowding, which one gener-
ally hears and sees in hogpens.
, gangway, $\qquad$ wis warned that if he The pen is would be a "dear job "' for him. lights in each. Two doors open out to yard on east side and straw-stack at east side, where on
sunny days the pigs are allowed a little run for health's sake. The walls of this building are stone, which some would object to, but with the arrangement inside it would seem that Mr. Neely The pen will accommodate 40 cost of about $\$ 50$ again. Mr. Neely would make building 22 feet
accommodate 40 hogs. If building wide to allow more trough room.

front of two of mr. nerly's pe
Vertical Construction Plan.

## B, elevated bed; $;$ O, door ; S. chute; E, double d door into alley ; H, swinging dor

In the pen at the time of writer's visit was with mother worthy of special mention. They were a few days over 8 weeks old, bacon ty weighed about 60 pounds each. Little pigs ing. They are two months or more before we barley ground fine, with occasionally some shand and pulped roots. When young pigs are quite small the sows are fed shorts. Chop and pulped roots are mixed with water or whey in barrel. He finishes his hogs at six months old, weighing
from 200 to 210 pounds. The north sleening pen is used for sows to farrow in. Around the out-
side, 8 inches from pickets and about 1 for runs a pole about. 4 inches in diamet 1 foot high, saves the young pigs from being crushed, which have been lost in that way. A small door ( $6 \times 12$ little pigs to leave sow and feed by themselver when they begin to learn to feed. In fattening hogs. Mr. Neely finds it a very great advantage in promoting health and gain to skip a meal (say on Sunday) one day each week. He has practiced
fasting hogs that way for five years, and highly
recommends it. He never has a crippled hof

A Modern Pen for bo Pigs.
we publish herowith plans of a very complete pig house erected last year hy Mr. Mery complete pig-
Middlesex Con McCallum Middlesex County, Ont. The dimensions are $28 \times$
60 ft . containing six pens $11 \times 13 \mathrm{ft}$, accommodating over 50 pigs: a feed room $10 \times 26 \mathrm{ft}$. for straw and feed. The ceilings are 12 fi. storey and 10 ft . below; hip roof. The north end of the upper end door roots can be thrown into cellar conveniently. The south section, $20 \times 28 \mathrm{ft}$.
of the upper storey is used for bedding straw space $10 \times 28 \mathrm{ft}$. for clover, to be cut and mixed With feed; and the balance, $30 \times 28$ ft, for chop,
corn, etc. In the ceilings above pens and hot
"ollol boiler. are fivo ionilator it. These extend upward in second storey, clowely at a point 4 ft above the floor they are 10
inches square. Then they run upward, slanting entering galvanized-iron upward to peak of roof. with a fan that turns freely so as to catch thi.
wind from whatever point it blows. The opening is protected hy a wire screen to keep out the
birds. There is a steel shut-off in vent up-stairs,
to be closed the ventilator, above the floor, is a door, hinged at top so that the hedding can he frecly pushed
thromgh it into the pens h.low. The long rafters
are 2 ft, over $\frac{1}{2}$ pitch. and the short top rafters sonth end. up-stairs. The ceiling is one-inch in south end, up-stairs, betweon the tivo windows

The diagram shows clearls how the house is lail deep) water is obta the cistwn ( 6 it . wide by 10 ft is 10 inches deep set on the hoating pan, which and the pens is by 5 ft 10 in . $\times 2$ ft $\times 20$ in dep Tiwi food were tried this wir roots and meal were first put inist, the palped on, the water hot-water tap from homing box on, the water running into a galvanized-ion dis
tributor the full part of one side of the distributor is perforated so that the hot water runs out evenly over the fed. Mr. McCallum did 24 hours before being pulped roots were eaten freely enough so anotho plan was tried, viz., boiling the pulped root separate till quite soft and then putting a laye of them 4 inches deep in the bottom of the box ground chop (rawz) then or 4 inches of finely o feed thop, and so on till there was enoug Sufficient hot water hand for a couple of days well. The chop consisted of 1 part ground when half. 3 parts of barley and oats, mixed half anc The raw-root mixture : in fact, he never triod food on which pigs thrived and gained so well
The mixing box should be thor The mixing box should be thoroughty cleaned out land cement bottoms with 2 -inch blue oak sides 9 inches wide at top, 6 inches at bottom, and inches deep. Seven -inch rods bolt the back and the pigs from trough together, and also prevent the pigs from crowding along the troughs when
feeding. An inch board 8 inches wide slants ward from trough next feed alley as a receiving hoard, and is very convenient in feeding. The leed is emptied in between this board and swingIng front, and when the latter is pushed back the
food falls into the trough. The partitions between pens are three feet high, and the front be pens swing back over trough, as stated. There is a 4 -inch fall in each pen floor to the door ( 20 x manure is cleaned. The pig beds are which the 8 in. high, of plank resting on grout 8 ft . and mainder of the floor is cement, 4 in . thick. The lower portion was 1 part cement to 5 of gravel,
and the finishing coat 1 to 3 , the walls being 1 part cement to 6 of gravel. The sleeping-hed o
the breeding pens on west side are the breeding pens on west side are being arranged

NORTH 28


SOUTH

THE FARMER'S ADVOCATE


prevent the sows from crushing their young. The ours next ieed alley-are arranged so as to fold another or from pens into alley. The root-house walls are of Queenston cement concrete, 10 ft . high and 12 in. thick. The remainder of the walls
are 3 ft . high and 10 in. thick, cement concrete are 3 ft high and 10 in . thick, cement concrete,
above that double-boarded, with felt paper beabove that double-boarcied, wich lett paper the outside V siding. There are three windows on each side, one to each pen, each having 9 lights 8 -light window west side of 20 ind room there is a feed-room is space for slaughtering pigs. There is an overflow pipe from cistern southward under Illoor, into which a waste-water pipe runs, so that
all wet at killing time is drained away, The cistern is filled from roof, water being collected in galvanized-iron eavestrough. Dressed lumber was painted. The hogs are usually sold alive for the bacon trade and have for years proved a very profitable branch

## Prevention of Milk Fever.

To the Editor "Farmer's Advosute ":
The last case of milk fever we had was in 1895. The veterinary satid: "It is your own faut having these cases; you feed too highly either ignorance or stupidity I had lost the cow, so concluded that we would not lose another from the same cause. Since that, when we start to
dry a cow we always reduce the grain ration, and in some cases
days before cilving, in atrout for a week or thre or four days gradualy an tong as she increases her milik flow the cow out dry When you have her nearly dry
Leave her for six or eight days, then go and equally good to prevent garget. Of retention of membranes, we have only had one case in ten
years, and that was when the cow was on grass. We feed a large amount of wheat to our cowstrouble from it. 1 never save but one case of inyears since. We have had from firteen to twenty-
five cows freshening each year since 95, and have
 clabrider

Peter Colos: Barl Plan.

| Fanclosed lind plim of muy birn for publicatious <br> The barn is $15 \times f 6$, with $\because 1$ foot posts. The co stalls 5 feet vide, with cement floors. 'The doos A and B are double, while the ont <br>  |
| :---: |
| - - |

are excellent winter egg-producers. But it is sel dom that pullets of this breed will do much at laying before they are near seven months old.
Here is where Leghorns have a great advantage. A good Leghorn pullet will go a considerable way toward paying for her raising in two months' time in the fall when eggs are a good price. Rocks must be carefully handled in summer
months or they will want to sit all the time. But this can be greatly overcome by the caretaker Break them up as soon as they exhibit a desire to stay by the nest, and keep them in a lean conWition: Packs and need much the same care. They as proved to be excellent farmer's fowls, and are be-
coming very popular. our breeds. With proper care and careful selecion of hreeders, any one would prove good layers

The Travels of an Egg
A chance whim of a little girl has given a history to a hen's egg. Mirs. Beeson, of 13 Bexley free, Mindsor, purchased some eggs, and upon ne she discovered some writing. It read thus: Fear Iright, Harrow, Ontario. Box 386. The ne ... gets this egs, prase write. I will ing en we Roval borough of Windsor not far from Harow on-the-Hill in the Old Country, and the invitation o correspond was accepted by Mrs. Beeson, wh fent a Christmas card to the unknown writer Jan 9th 1902-Dear Mrs Beeson and Harrow Received your letter and Christmas card on Dec 23 rd. 1 was out at a friend's when I wrote my name on an egg, which Mr. John Stocker sent away with the others. My friend said, 'I wonder egg took a trip to the Old Country. I hope it Was good. I am going to school, am 14 years of is plenty of everything here. My father is of Fne lish descent and my grandfather on my mother's Enge came from England. There are hundreds of off to-day Yoll do not see any bergars on the strects, as all have plenty to live on. My eldest sister is at the Methodist College, St. Thomas, served in South Africa, when it came to Windsor was very nice T send you a Christmas card wishing you all the compliments of the season." hardly realized in the way she thinks, as the shell is still unbroken. Its possessor treasures the egg the attractions the shell covers. Were every egg o have its. place of origin stamped upon it, nd tempt more be talught through the kitchen, National Poultry Association, whose efforts are all directed to fostering poultry-rearing
Old Country.-Windsor (Eng.) Chronicle.

Agriculture Aided by Her Handmaid, Science.
hege of Apmins, her has been able to to the farmer the practical relation of science to agriculture, and also that the agricultural college is a dividend-paying institution, looking at it Drover's Journal states that corn breeding has grown to be a distinct industry in the corn belt, the stimulus of an idea originated l. Dr Hopkins, and that the results of such breeding in the corn section $\$ 300,000$ a year. The illinois Agronomist bred corn by analysis. He found acohol wauled wore of the carbohydrate cond stituent in corn, while the feeder (especially the Cormers) and more protein (flesh-former) the corn. Taking the market demands as his quiding He matle analyses of samples from a large numbe cars, selecting for seed those ears contuining and planted in an isolated field, to avord cross aricty. From the crop obtained, a large numbe of ears are selected and samples of each ear are ontage oi the constituent which it is desired to
 order to be most successful, should not dabble in
too many breeds, and, in fact, carry on the work

It is far more important to the iurmer Mra chosen. At least, speaking generally, this is the noted Take there are exceptions thinct nay breed. In this grand American fowl we liave evera distinct varieties, viz,, Burred, Bun, into classes according to the style of comb, such as single comb, rose-comb, and pea-comb. This is all the as the color goes, it has nothing to do with the utility characteristics of the Plymouth Rock as breed, although in some climates the como has mayy corry when it is dessed it has the sume yellow dlesh yellow shanks, and absence of blac piufeathers. But the color has nothing to do with the egg yield, which is contrary to the ioca as a breed, and we see the same colors and comb as in the Rocks, but again the color has nothmy breed. So we can readily understand that the Color of feather has no consequence with the farmr as far as egg production goes.
13ut in the selection of breeds, a subject is presented to the farmer that is of great impor source of profit in two distinct lines - first, for an abundant supply of eggs, and secondly, when
the days of usefulness as egg producers are over, the days of usefulness as egg producers are over
as dressed poultry for market. Some contend that there is no difirence in breeds as regards laying qualities, providing one gets an "laying strain of an breed. Whie we beneve careful selcetion of breeders the laying capacity of any 1 thed mas be greatly increased, we will not adne as another
breed is as profitable along that line as We have our breeds that are egg- -machines, and
that naturally, and by this method of careful selection of breeding stock, marvellous egg lec As utility fowls, we have four breals that have
 Leghorn has been and is to-day acknowlenged th they are so much in use on the extensice egs that they have been properly named. We helieve $\because$ all-round " fowl. They mature cery early . Liast when we had Leghorn pullets shelling out egs
whive months old, and pullets of oul strain have laid when only four months old. Can
this be said of any other breed? Many are of the opinion that Leghorns will not lay in wint er This is a very wrong impression, as they are
most excellent winter layers when properly housed. They have the advantage of being active respecty ahead of heavier breeds. It is an extremely easy thing to get rocks so fat and layy agaill get them back into laying condition
While the Leghorns are small when dressedl they wou for thenselves a very highe mane as ens


Treatment of Cows at Calving Our treatment for the troubles accompanying the "coming-in" period of the cows in our herd is almost entirely preventive. When our cows are near calving, we do all we can to avoid exciteReduce quantity of concentrated food or such roduces fat, and at the same time remember that too much bulky food should not be given at that cime. As soon as a corv has calved, we like to give a pound of Epsom salts, which helps to cool the blood and assists the expulsion of the afterbirth, as well as regulating the digestion, remov-
ing fever, etc., and greatly lessens the chances of ing fever, etc., and greatly lessens the chances of frequently caused by some undue excitement. Gentle treatment and good wholesome food leave very little else to be done In extreme cases, we
milk before parturition, but whenever , possible allow the calf to draw the first milk. The cali needs it and does better with it. If necessary, we gently remove the placenta with the hand, loosening whenever attached, without pulling. For
garget, we bathe well with very hot water and garget, we bathe well with very hot water, and
then apply white liniment. It is a very bad case of garget that cannot be removed in that way
with plenty of rubbing.
A. W. SMITH. with plenty


#### Abstract

\section*{Travelled Cows}

When the "Ophir" set out upon her memorable oyage in March last, conveying the Royal visit-half-bred Jersey cows. These admirable animals continued to give an abundant supply of most excellent milk until the vessel was within a day or two of Portsmouth, when it began to get a little thin. When one considers the extraordinary variations of climate through which these cows have passed, their performance is seen to be really re- markable, and our readers, says the Globe, will probably be glad to hear that, as a reward for their services, they have been sent down to sandringham, there to pass the remainder of their lives in all the ease and dignity befitting cows lives in all the ease and dignity befitting cows who have done their duty.-Mark Lane Fxpress.


Splendid Milk Record of Holstein Herd. steins, belonging to the estate of the late Mr. E. ing results from the herd in milk production during the past year: ". This herd of 65 cows
(six of them two-year-old heifers) overaped 9,353 lbs. milk in 12 months Five of his best cow averaged 13,117 lbs. milk in $11 \frac{1}{2}$ months ; the 10 months. This showing, we think, is exception ally good, and this standard has been reached by
careful breeding and severe weeding during the past 10 years.'

The Holstein-Friesian View stein-Friesian Association, sends us. the following
summing up of the fitial figures of the records of the ten breeds of cows, each represented by five animals, in the six-months test at the Pan-
American, showing yields and profits in the four points on which prizes were given, net profit and con

| Brisid. |  |  | \% | ̇ |
| :---: | :---: | :---: | :---: | :---: |
| Holstenin | 39260.2 | 25 |  | 15010 |
| Ayrshire, | 32998.2 |  | 1219.4 | 14.3 .7 |
| Shorthorn. | 31845.6 |  | 1238.5 | 1339.6 |
| Red Polled. | 30922.6 | 3.63 | 1123.1 | 1321.353 |
| Guernsey | 27127.6 |  |  | 1.54 .3 |
| Jersey | 26987.1 | 4.55 | 12349 | 1453.0 |
| French Canad | 24664.7 | 3.99 | 984. 1 | 1157.7 |
| Polleal Jersen | 24593.5 20325.5 | 3.4 4 4 | 8.17.5 | ${ }_{1115.6}^{997.0}$ |

faction, but a great deal of it lacks that fime
quality which it is possible to ret from troor Where We Are At inthe Dairy Business a STRONG PLEA FOH BETTER MILK
has spent thousands of dollars annually for the the last fifteen years or more in various methods of Io face with the dairy lines, we are to-day face cheese is not satisfying the demands of the Brit ish market. During the past season, complaints have come thick and fast from the British deal ers who are handling Canadian cheese, and it is that unless there is an improvement in the know ity of our goods, we are soon coing to lose some of the trade which we have so long held against all competition
It may be possible that the taste of the British people is becoming more critical and exacting
as is alwass the case where the taste is pampere and catered to. Fvery dairy country in the world is doing its level best to send its finest goods to
the British market the British market, and that market has the hold our ground we cannot rest we are going to point to the laurels already won as an excuse for lethargy on our part. Take the case of the United States, for example, to show the mighty ellorts which are being put forth to get a share
of the British trade. lt is no secret that the ex porters of dairy products from the U. S. had the door of the British market shut in their faces a decade or so ago on account of their folly in trying the smart game of foisting upon the British
consumer a spurious article under the consumer a spurious article under the name of
cheese. They have repented of their folly long ago, and are now determined of that they folly long to establish a reputation founded on honest and upright dealing, as evidenced by the announce-
ment of the Secretary of Agriculture in the $U$. ment of the Secretary of Agriculture in the U.S.
Crop Reporter for Jan., 1902. The extracts in this announcement go to show that the U. S Government is taking
$\qquad$ thom matter in earnest,
ill honest producers by placing the Government stamp and certificate up ucts and the packages in which they are for warded are of a quality to bring credit to the country from which they are exported.
Are all our exported dairy product. to our country? It would seem that they are not, and if not, why are they not? Our methods
of ripening our cheese may be at fault, but not more faulty than they have been in past years. on sear are asurely better than they were a decade ago, so where does the trouble lie? The indica-
tions would point to the British dealer as a more critical buyer, and our improvements have not kept pace with his demands for an improved qual-
ity of cheese. ity of cheese.
quantities of dairy butter to Great Britaing which satisfied their demands simply because it was as good as they could get from any other part of "se world, but as soon as they got a taste of separator butter from the now famous dairy
countries of Europe, they promptly turned their backs upon our "dairy" butter, and we had to
keep it at home and use it up the best way we coep it at home and use it up the best way we However, as soon as we adopted the co-opera-
tive system of manufacturing and of taking the cream from the milk by the centrifugal method, we have againgot a strong foothold in that marof trade in that line is very rapidly increasing. that the hulk of our butter is not of the finest
quality even when it leaves the creamery it is quality even when it leaves the creamery, It is
true that our butter is giving fairly good satis-
milk.
Many of our factories are faulty in their sanitary surroundings, it is true, and many of our should be. Our curing rooms and cold storages may be at fault, but no cold storage or curing room is going to turn aut tine goods if the were milk it is impossible for any mat a good the finest product
that every factory or creamery receives mor or less good milk is readily conceded, but is there does not get more ress milk which day whic good in quality as when it was drawn from the cow? And is it not this poor milk which is keeping down the quality of our dairy products more than any other factor? Where the milk is drawn
from the cow in a cleanly manner in cla roundings and a pure atmosphere where it carefully strained, aerated and cooled, it will usially reach the factory in a condition fit to make the finest goods. This an seems ensy enough to of the milk sent off our farms to-day which is treated in this way. There is not an article of food coming from the farm which is as sus ceptible to taints and odors as milk, and none we tolerate for absed or carelessly handied. Would water go through such a process of handling does our milk? And yet we allow the milk t become contaminated with filth of different kind farmers a thought or the consequences. Ou the fact that a great deal of the milk sent to our factories does not reach there in as good condition as it ought to be, if we are proing to mak We may more than a medium class of goods factorymen, and we may improve aur cold-ster age and transportation facilities to our hearts content, but we are not getting at the root o poor milk and lead him to see that producer of more to keep down the quality that he is doing ucts than all other causes combined. A good many could be moved by moral suasion if we reached and the matter laid plainly before them hut there are others who have to be touched nor listen to what is said on the subject. The Babcock test alone should not determine the value it milk for either cheese or butter making, unles. for a patron who furnishes milk unclesonable badly cared for to receive as much per pound of fat as the patron who furnishes clean and wholesome milk as it is for the patron who furnishes patron who furnishes 4 -per-cent. milk we make a discrimination we are going to set more or less milk which is a menace to the qualload our dairy products. If a farmer takes a both price and weight and that grain is per in a bin reserved for such prain, and our milk ail more treated in the same way. It would enhe quality work, but we are not going to improve It would not be lry products however, work. mall vat would hold all the poor milk nother difficulty would bring us face to face with milk would not tamely submit to such a procedure without a protest, and would be more than offer his rejected milk which in nine case out of n, would be accepted by the rival factory, and the nuisance would be perpetuated in that factory, while the " maker" in the
other factory would be discouraged in his attempts to improve the quality of his product, and the only consolation that he was improving his product at This is a source of infinite many dairy sections on account trouble in Many ". whakers courage to stand up and tell a patron make butter or cheese from, for fear Hat the patron will leave the factory If we had a system of inspection nich included the milk supply as wel as the factory, it would throw the re
sponsibility off the shoulders of the business it would be to look into the and help the patron to apply a rementy



Meetings should be called in to the standar tion at times most convenient for the farmers attend, for the purpose of discussing the dair
business venerally cality in peartiaular. This chennot ne be done by the the the limited number of men nove employed by our ass
sociations, and the come to their aid with a liberal would have t This would undoubtedly be opposed from man quarters as an unjustifiable expenditure of publi money, but supposing that the value of our dairy
products hy thic products
an eighth
to this means could be increased from an eighth to a quarter of a cent per pound, it
would increase our receipts from abroad from quarter to half a mililion dollars annnually, and surelly an expenditure of, say, $\$ 10,000$ annually
would he hendifiod hy Would be justified by a result like the
which is not only possible, but probable.
The writer has in mind a cheese factery patrons meet at the close of each season's work in a social gathering, where entertainment is provided in the way of speeches, music, etc., the business of the past year is discussed, and the
proceedings wind up with refreshments provided by the ladies. A friendly feeling is cultivated, and it begets an interest in the business of the factory, which has a beneficial influence all around. This is a plan worthy of imitation, and might be expected to take part and the district perience in the work during the season. All meetings in connection with dairy work should have the educational feature well to the front, for we
have much yet to learn, and no opportunity
should be have much yet be lost to drop in a word of encouragemilk. or exhortation to those who produce the
J. STONEHOUSE.
QUESTIONS AND ANSWERS.







tooth trouble and lameness,
seem to cat very well. Iface laken him toesn the veterinary twice, hut he doesn't. secm to know
what is the matter with him. The horse hats
been given powders prescribed by the been given powders prescribed by the . S. has
shows no improvement. His weth hial heon ax-
amined. he docsn't food. I can hear the other horsess giond from …ins




give some idea, through the "Framers
cate, how to treat these horses "
Melita. stibscrizulber
Ans.-1. From the description you give, ${ }^{\text {t }}$
one, which should however, be found on a care ful examination. Feed ground feed ior the pres
ont. Try another veterinarian: he may see something the other man has overiooked. When all you know about the case; it will aid him in arriving at correct conclusions. If the horse car 2 his food, powders would be useless. well, and if no pus (matter) results from the enlargement, would recommend the application the hair of the parts the top of the hoof. tioned on page 131, Feb. 20th issulu. Follow the directions given there.
eCZema in mare.
A four-year-old mare in foal began biting eg is now completely denuded of hair side of the sore. Now she is biting the shoulder on the coat, with perfectly clean condition, has nice eaten a bushel of oats or other strong has not winter. She is fed good hay and a gallon of brat daily. I have given her $\frac{1}{\frac{1}{l}}$ lb. Epsom salts dail.
for two weeks without effect.

SUBSCRIBER.
that often mare has eczema, a skin diseas Some horses are predisposed to it. Under ord nary circumstances it is good practice to or but this mare being in foal, that would be dan gerous. High feeding is a cause in many cases light, especially for a breeding mare. Give hat little boiled oats and bran twice daily
mix 2 ozs. Fowler's solution of arsenic. Dissolve 1. dram corrosive sublimate in $1 \frac{1}{2} \mathrm{qts}$. warm soft ing with strong, warm soft-soap suds, and wash until dry. Then rub a little of the solution men tioned well into the parts twice daily. If the dis ease extends you will have to treat all parts afficted, and if you have comfortable quarters it
will be well to clip her, as that gives a better chance to treat, but you will need to be very careful of her after clipping
enteritis (inflammation miles. Sick after a moderate drive of 4 or and appeared to try to pain, rolled and tumbled would lie stretched out upon his back; then get up quickly, but lie down again at awhile in about this way for about 24 hours. He died in about 48 hours after the first symptoms. Dur ing the last 24 hours he was on his feet most of a mouthful of hay, but not a circle, holding bowels and kidneys acted normally the first His hours, but were inactive afterwards. An experienced veterinarian treated him for inflammation The case is a bysterye medicine had no effect. trouble and cause of death?
Ans.-Your veterinarian SUBSCRIBER.
correct in his diagnosis: the horse had inflam mation of the bowels. It is not surprising that as in a well-marked case of this desired effects has little or no action. A post-mortem would have revealed the correctness of the diapnosia The disease was probably caused by something he his eaten, or as a result of the drive just when intestinal disease easily produced con to render this kind cannot be recognized. Conditions of l luxation of the patella. eral occasions last full 1 noticed her drag her leg
for a few steps, then sh. denly as though she had stringhalt and ap sud-
be all right be all right. About three weok aco she showed
the same symptoms. She has exercise every day. Ans.-Your mare $\mathrm{N} . \mathrm{D}$. ation or displacement of the patella or or stifle lux(commonly called stifled). This is due to po stretching or weakness of the anterior and inout of place she has not power (i) lift the lue
but when it suddenly regains power, and this anment why lent action mentioned. Place line for whe of the joint and aprly quently given details of blistermpe these columntan in that she have a box stall, as the aren more liable to occur if she he tiol. ....
able one blistering will effect a cur
( $A$ colt about nine months old, doing of his urine. I first noticed him in Sep The urine will drip and run quite a stream
casionally without his notice. The dy Clyde. She got a considerable quantity dam (iive cause and remedy, or is he likely to Ans.-The condition is usually due to a par urethra. It may be induced by excessive dond possible the mediciny other diuretic, and it in pregnant had the effect. given to the dam while organs of the fetus by weakening the urinary while the condition was not noticed as fin organs being congenitally weak, the trouble wa regularly to ho practice of giving saltpet.e demned. If a horse be affected too highly coneases of the kidneys, the administration cen dispetre in proper doses is correct treatment sat the common idea that they require the drup. reat any is entirely false. It is bad practice to give to treat or some imminent there be some disease is probable age will have the effect of rem. the trouble, but you can assist nature by giving daily colt 30 grs. powdered nux vomica three times nervous exou notice any muscular twitchings or dose, and if nothing of this kind be decrease the might increase the dose until such symptoms In order and then go back to the original dose necessary to give in dosec sufficient this drug it is its physiological actions expressed as described In addition to giving the drug, inject cold wate e times dail

When about
of our pigs became affected with anths old, thre rheumatism. We first noticed a stifnething lik or three whey gradually became worse for two the trough fors. Since then they will not come to eating will crawl back and lie downg, and afte vered by hunger to come to the trough They For thept in a warm pen, but got little exercise and skimmed mile months they were fed on short about equal parts peas and oat chop and rye

Ans.-Symptoms such as described are cansed in most cases, by damp surroundings, or by
lying in warm quarters and being exposed They may also be caused of sleeping quarters. of exercise. Give them Epsom salts or and want seed oil in their food until they begin to purge sulphur and powdered equal parts Epsom salts, keep their bowels acting freely or turnips daily, and cook all other mangels sible it to become cool before feeding. If but when the them to take a little exercise and sufficient excrcise to improve, see that they get eruptive disease in mare. (in Aug.) begar to that raised a foal last yeal tion revealed small red spots on the An examina fever. Ilis treatment effiected a cure it petechial about the size of pigeon eggs ; her mammary swelled until they became round sore; her legs Christmas her legs, mammary weaned. Since part of her abdomen have been sivollen. The which relieved her her a ball and some powders week ago she has been idle and fed on oat straw and gets timothy hay she is doing some work,
reduces the some oats. Exercise reduces the swelling in the legs, but it reappears
during the night, and the lumps have little pointed dry scales on theme lumps have little, health, espectally in hind legs. She is in good Ans. The first symptoms given rather indicate mo doubt predisposed to it had existed. She is Night wen entma. (ive her a brisk purgative of wie thredram doses hyposulphite of soda three
 W.. What and give a couple of carrots those spots reappear in the
probably typhoid influenza. Had a horse four years old; took sick suve him one pint of linseed onf, but it did not at home, his assistant came, who thought it was marsh rever; gave the horse an injection, but
little came away: he made water all right. He dienll down in the manger and pressed his head against the "all would shake his body, but days, then died hard. Never sweat any till the last day, atchough he was in a warm stable Work, just chores; was not thirsty
Kores I' O. Ans.-In swamp or marsh fever the appetite
keeps' up. The symptoms point towards an at tack of typhoid influenza. In several of such seems to have partially lost control of his limbs If the disease is what we suspect, others may
take it. The dose of oil was too small to do any have been better The quassing of the head against the manger showed that the blood in the brain vessels was not in its natural condition,
which maty be due to a number of causes. In all such conditions the bowels, kidneys and skim should, as iar as loossible, be kept working. whether the pulse and temperature was increased, the symp
disorders

## fisidla un heifers leg.

Last November we noticed a small lump on the posed she had bruised it. We opened it and ait lowed the matter to escape, but instead of heal ing, the leg swelled up to the hock and continued to discharge matte carbolic acid two or thre times a week. Ans.-There is either some foreign body, as piece of stick, in the leg, else the bone is injured It is possible a cure will result from the presen injected into the opening every day. It would be wise to get a veterinarian to probe the wound and if any foreign body can be found he will re move it, and if the bone be diseased he will en


Miscellaneous
POULTRY PAPER wanter.
I take the liberty of Writing to you to find
out where 1 can get a first-class poultry maga zine or paper, and what is the subscription price per year?
Sidiney, Man
Ans The Ans.-The Canadian Poultry Journal, Toron ada; price, $\$ 1.00$ per year. The Reliable Poulrry Journal, Quincy, Ill., is one of the best American poultry papers; the subscription pric black lambs, In your issue of Feb. 5th, " Sheep 13reeder
complatains of it Shropshire ram when bred to hi purebret ewes producing a large proportion of
lilack lambs. Many years since, in Ontario, know of a flock of pure-ired Leicesters throwing rided the cause could be traced to a black dog I(1) lime looking I Leceesters in every particular bu
VILL CHAMPION. What batuli of questions Would you please answer following questions your valuable paper? 2. What is meant by the term, Shire horse? I mean what is his origin, and where is he bred? Is he superior to the Clyde as a draft horse? 3. When were the first ada, and by whom? 4. Is it absolutely neces ary for our stock-brceders to continue importing horses, cattle, sheep and swine from the British benefit of what some people eall the introduction of fresh blood into our flocks and herds. Now, I
would like to know where the breeders of Britain get their fresh blood; or perhaps it is our climate that is faulty, though 1 have always heard it said
we have a good country and climate for raising 111 kinds of domestic animals. Ans.-1. We do not know. Long enough, we $\because$ It is supposed that the original stock from Holland, but the honor of providing the oldes puligreed horse of the breed belongs to Leicester-
Shire, the animal being Blaze 183, foaled in 1770 The 1.nglith shires, or counties, notably Notting-
hatm, Leicester. Derby, Stafford, and Lincoln, may be regarded as the nursery of the breed in its
in most of the counties of England. As a rule,
the Shires are larger and heavier than the Clydes-
dales and make a splendid appearance, but until dales and make a splendid appearance, but until
recently they did not comfiare well with the latter in cleanness and quality of bone and feet. How ever, under more strict rules of inspection for soundness, of late years, in judging at the lead ing shows, very great improvement has been made in this regard, and the best shire horses com in quality of bone. It is generally conceded that Clydesdales trace their origin to an importation of Flemish stallions to Lanarkshire, Scotland
about the middle of the 18 h century, and that they derived their name from the valley of the River Clyde, or, in other words, from the most fertile portions of the County of Lanark. of In 1825 or Brunswick Boar horn bulls from England, and these are believed to be the first brought into Canada direct fron England. In 1833, the first importation that has been of much vatue to the country was made by Guelph six heifers and two bulls.
4. The experience and observation of breeders tends to the belief that to keep up the vigor o the stock and to make steady improvement, it is
necessary to make occasional importations fresh blood, and the records of the prize-lists at the leading shows support this theory. The mild er, moister climate of Great Britain may in part account for their success, the animals living more feeding of roots, the richness of their permanen pastures, and the variety of soils in differen sections, a change from one soil to another being often as helpful as from one country to another Plan of ctrcular bakn
barn that will hoid as much as a barn $45 \times 80$ feet cost of material, etc.? SUBSCRIBER. Stanstead Co., Que.
Ans.-We reproduce, for Subscriber's benefit, a plan of circular barn, with description, prepared and published in the "Farmer's Advocate" some five years ago.
The rectangular form of silo is rapidly giving way to the round, the latter being better and form does not find the favor it is entitled to for not only is it cheaper to build, but much less liable to be damaged by storms. Two reasons may be given why so few round barns are to 1. seen in passing through the country: First, the
supposed difficulty of building circular walls: sec ond, the waste of room. With regard to the first it will be found that a circuiar wall can be con structed without any real difficulty, as the sill and plates are sily secured by sawing slightl

By examining the accompanying plan it will be seen that there wi!l not necessarily be any more
vaste space than in any other form, as the irregalar space is devoted to ined room. At the same time the plan affords considerable elasticity equirements. For instance. if more cattle stanls are fequired they can be arranged to mplace pox
stall and extend across the huildine cultine of part of rool cellar, learing a passage opposite sheep alley. The advantages of two silos are recognized, and the root cellar can be filled from hoor above. The dotted line from water tank water animals or dampen feed. The tank is placed so as to avoid freezing.
Now, as to cost, it will be found much cheaper
han the rectangular form. Let us compare the - cir f 4,418 square feet, which would rectuive area
 siding ; sarking, 4,800 ; shingles, 712 . While or the frame of a circular barn a fen logs would provide scantlings enough, the frame timber of ,
As I have BLUuK, WALL.
As I have seen some half dozen cedar-block say conscientiously they make a goød, warm, and much drier stable than stone, when well built How to build: First dig a trench for foundation about two feet deep and two feet wide; then fil
trench with small stone, and on top of stone build about a foot of good stone-mason work twenty inches thick. Now for the blocks. To build up corners you require pieces $8 \times 8$ and feet long, time about each way, one outside and of doors and windows, split the round block through the center and lay flat side of block to jam. Where door opens inside, it is advisable to trim off blocks so that inside of jambs will be flaring. Before building with the blocks, remov each block down solid with two or three light taps with an axe. Door jambs should be $6 \times 8$ inches or if they were 10 inches wide all the better, an questions inctructive to valuab who are going to build, I have written the above with pleasure.

NOAH COTTON,

crooked logs into two-inch thicknesses, and by laying a pattern on these and marking them they two thicknesses on foundation wall so as to break joints and spike together.
and stayed on the of the pe pre thicknesses of planks and spike as before. The If the siding is to be laid on horizontally, it cad befluences of the weather better by being perpendicular, it can be done by naling scatudding every four feet. To these nail the siding. Next, for Wall 24 feet high, take $2 \times 4$ scantlings 16 fee stay, and proceed with siding as before. Spike on Wates and the wall is ready for the roof. Now ing and nailing together four thicknesses of $1 \times 1$
inch lumber. Support this on posts half the the roof to serve as a purline plate. The sarking consists of strips one inch square Tength of shingle exposed to the weather, which
will be about five inches from center to center.
Carpenter and Builide.


Montreal Markets.








## Chicago Markets.



 British Cattle Market

THE FARMER'S ADVOCATE


We look too high for things cle And lose what Nature found<br>But soon w<br>ee etaurht the worlid

One of the Girls" Moralizes
Where nothing blossomed and nothing stirred,
Whase carolest thou in the death of the year Where wobody travelleth by to hear
Praiso for the past, and tho promise of summe
Those of us who have been in our winter woods (and most country girls have jumped on a
bobsleigh and gone "logging" with the men, for bobsleigh and gone "logging" with the men, for
a bit of fun), can never forget the little wood birds, with their tuneful throats, singing from frozen leafless boughs their notes of love and pleasure, clear as the summer songstress. With what incentive I never could understand, but we can accept this pretty idea of the poets and say it is in praise for the past and promise of summer.
While these little birds are singing in our frozen woods, what are we doing in comfortable, warm homes, sure of food, warm beds, and the
promise of more than summer ? Never a song of praise from us. No, indeed, we won't sing ! Because father has a windmill with all the lates machine. That is' what havenen a new washinghe home department of oull awricultural usper and call us "pack-horses" and "drudges", "oners woman lately, in her "nerve-wasted" article, holds out the cheerful hope of an insane asylum gathering us all in at the end, because worn-out farmers' wives are filling up such establishments.
On the same page with this article was another On the same page with this article was another
called ." Notes on the toad," and, plebeian as it sounds, I could not help think ing what wholesome reading it was, for it made me try to remember whether our toads do hop, or have they the
European mode of locomotion; eat flies, bumblebees, ants, or what? In the spring I mean to watch the ugly but interesting creatures and find out. I know such articles like the one first men-
tioned are written in the kindest spirit. intendinr tone are written in the kindest spirit, intending
to frighten men into making our kitchens more to frighten men into making our kitchens more
convenient and getting us up-to-date articles. But there is not a single man who would ever think bought written for his benefit, because he had
bought a goou churn only Lwenty years ago! II is wife a drudge, the idea! No woman in the counday in winter, and every rainy day in summer, she can have a horse to go and see all her friends for one hour, if not more. And his sympathy
rivets itself un som PTVets itself upon some poor. widow who is tryin
to grow her pigs and potatoes on a rock in Mus kokt, or some other barren land. ©ur fothers are
only men, after all, not inthuman mortals, and ii, after a good dinner, a woman would ask for her weing pleasant about it, she would stand a much being pleasant about it, she would stand a much by having in sympatlintic friend write up her cast in the paper.
Cheerfulness in a home has wonderful power it refining and raising the characters of its inmates
and keeps nerves from going to waste ful hoome does not suggest inpossithe things, no
furnishings of costly Persian rups or furnishings of costly Persian rugs or Bagdad cur
tains, but bright tains, but bright, pretty wall papers, clean cul
tains, and a house where boys and girls are no tains, and a house where
afraid to laugh and sinere.
their walls hung with nothing but religions pice tures, and only books of areligious nature ath
Iored in the house, and a mosprel hymn book th
,imit to





## 3

more. as children of the furm, we hive day blessings of which we never think. A Alessing up. The proud priviriege of watching the oxen
uneel of a christmas midnight; see the sun dance kneel of a christmas midnight; see the sun dance
on the hills Easter morning; and when May-day comes, we can own broad ampes, and and away to thak streans
ourd ownd
and groves to celebrate the feast of Flora! And and groves to celebrate the feast of Flora! And
that old invitation that Herrick sing many years ago, "C Come, my Corinna, come, let's go a-May
ing," will repeat itself in the heart of every coun-

> ry girl. Under haw hor boughs we recall the feats Und of archery in the May-days of long ago, with its daring band-Robin Hood, Friar Tuck, and Maid
Marian. But 1 am getting ahead of time. It was a happy jump, though, that brought
me to the hawthorn boughs, since there is a connection between my first and last-birds and flowers. With the best of wishes, from $\begin{gathered}\text { ONE OF THE GIRLS. }\end{gathered}$


Perhaps there are no pictures which could the chosen for the pages of the Furmer's Advocate more Inkely to come home co its readers than us, are more or less familiar. There seldom is any need to give name or title to any picture from his brush, whether of a single tigure on group. So carefully has he studied the animal he portrays that it tells its own tale. Though dumb
it speaks to us, as it were. in quizical and droll, sometimes patient and pal quiring interpretation. The secret of Land-
seer's success was.
 that to his genius he
added careful observation and patient study of anatomy. Hayden mupil, disscat a boy pupil, dissect a lion
before he paintecd king of beasts. $13 u t$ whilst being content with nothing short of technical perfection, group in the "Blacksmith's Shop,
his ${ }^{\text {Nember }}$,
Benevolent
so portrays
consciousness
four-legged subjects of he lets us ush, that secret, too, without
possibility of missin its meaning.

Things to Know an polish with a soft leather. Enroan. An
 sple at the seams while stored away for the win- ching the lumes. One of the of the nose before
 To

 and windows open. The quality of

[^0]
 solve a little salt in some lemon muce ; rub this A glass of sage tan, to which half a teaspoont
 ICING A CAKIB-To prevent the icing from antomit of salt and quinine the size of half a pea,
running off, rub a little dry flour over hio calke adted to a glass of water also makes an excellent will have no difficulty in making the icing stay mon woon preventive against cold is to close the Silk sunsiradis.-These are rather apt to the froutly air may be properly warmed by pass-

## Treatment of Colds.

fatigue, lack of sufficient clothing, or lac
nourishing food. Whatever tends nourishing iood. "hitaterct as the systemfatigued or enfeebled is not able to resist dis.
One should dress in such even heat, and preserve an even circulato the whole body. Women's dress is often very hygienic, with heavy skirts fastened by means possiole tightly about the waist that it is in protected only with cotiong, while the fee soled shoes. On being told to wear thick shom girl asked what her feet had to do wout, throat. She did not know that when the blome is driven from the extremities by the cold it goo
to other parts of the body, which are sunsit easily inflamed, and congestion and disease follow An eminent physician advises women, instead skirts, to wear two entire suits of underwear cotton next the skin and woollen over the cotton
with cotton stockings under woollen ones severe cold weather, this manner of dress keeps one comfortably warm. The same physician ad
vises for a cold, a capsicum foot-bations plasters applicd a capsicum foot-bath, mustard and legs, and a stimulant as follows abdomen, arms ounces of pure glycerine add one dram or aqued Take one teaspoond once of fluid extract of ginger hour before each One dram of menthol crystals added to four edy for a cold, either to snuff or to be taken

MEMBER OF THE BENEVOLHNT SOCIETY."
BER OF THE BENETOLFNT SOCIETY.
The throat.

$\qquad$

Humorous.

Winace the cheapest piene und it seems to me there will he a prat hio


Travelling Notes Magazine of the 5 th of December, I gave som the Duke and Duchess of Cornwall and York (the Prince and Princess of Wales) upon their return from their How historica visit ho lhe tell you something of another popular demon stration, somewhat similar in detail, althoug differing trivileged to witness that still more wonderful pageant on the occasion of the coronation of His Majesty King Edward the Seventh, for which elaborate preparations are already being made, and in ancices to be standing upon the tip toe of expectation, 1 shall hope to tell you about that too. I only wish, in the telling, that I could convey to you who may read my records of these stirring scenes one hall of the hemspration the the and what and are to those who actuatry see them, and what in try can be learnt by those intellipent enough to interpret the meaning of each scene as it flashe past. It makes one's heart bound with pride t inalienable ownership in the historical significance by the colors of each regiment, or by the trophic

hey were such magnificent cream, with - black, bay, and gold and silver, their manes richly dressed with carming
silk. cream - colored Hanoverian horses, ridden by postillions, drew the State carriage,
which, with its Royal occupants, was the cynosure of
all eyes. I will not attempt oo describe its grotesque carvings, its paint and pic-
tures, its glass all around it. for the very good reason spare just then for anything our King, in his field for chal's uniform, sitting bareheaded within, and for the sweet Queen Consort hy his
side, with her ermine cloak covering her full-dress coak tume, and her small diawomanly head, gracefully bowing their acknowledroffered them. As they passed my little corner I waved my
handkerchief with
frantic should, and my reward was smile and a how from
hoth. let who will claim them likewise.
As the through the king passed cheering subjects, he was to
them not only a sovereign beloved of his people, but the living, breathing symbol
oi a unity which makes the Brit ish Empire unique
amongst the nations of the
To the Colonial mind,
carlot life chards. The latter wore large scarlet and gold umiforms, and indeed their white, covered the horses too, for the cloaks are pur mosely made to fit both very neatly as occasion taking up their position in front of the police, the officers being nearly all titled men. Some of these young officers tickled my Canadian sense o
humor. They were such perfect dudes. Their uniforms, cut after the German fashion, fitted them perfectly, imparting a somerhat ladylike air, but had looked much as thoy ti, types of many wh until the battle cry sounded in their ears when they had given proof of the true heroism which was enshrined within. Next in order came the till halberds. These were splendidly with their figures, in their Tudor hats and slashed doublets tillwart veterans, with broad, bemedalled and he trimmed their venorathe had carefully and neatly all either wholly white beards, which were nearly Pathos and dignity were alike represented by stirre men, who could probably have each told of After spalenes in their days of youth and vigor invidious to mention as these, it seems almost wonderful procession were the coachmen ant sorgeous generally resplendent flunkeys in thei Then the hous.
lips. Parents themselves ought to avoid the dear little soft ne mouth. The sweet cheeks over tempting nooks ior kisces without hands, all ing the child's comfort or health. I have seen mok, whose breath was vile with stale tobacco mover, press his mouth to that of a tiny infant being poisoned by the coutor hatys lungs were being poisoned by the co

The Joy of Coming Home There's joy in sailing outward
Though we leave upon the pie With racs grieved and
Our very dearest dear Our very dearest dear;
Though the sea shall roll hetween
For perhaps a whole round year

There's ioy in climbing mountain In peerding into rling In we'vectead atout in bool But the joy of joys is our

Untouclied hy
When we take the home-bom
And ceatch the home-liound thain
There's nothing half so phesant

The Beanty of Wrinkles
WITHOUT THEM THE FACE WOULD BF In a recent number of the Weekly Scotsman, lady gave full instructions on "How to Remove Wrinkles may mean the " first approach of old age," but that "' they make sad havoc with a
woman's beauty ". is a statement not ated for one
What makes the wrimkles amel whe are they Wecall love the soft, chutby face of the bahy smooth and clear of as atery blank tablesstmess. Aht as the mind of the child develops, Nature, the only per day, lines which become an index of the mind lines without which the face would be meaning less and void. But nature is not self-wilted over viduality of each one of her childron wo the indihand to engrave, be they the eracefil upware the most the happy, contented mind, which makes side, or the harsh downwward strokes of discontent and bad temper, which pat rarely catcha a rosy avenue of the sun through the long or shor What nonsense to say that wrinkies make Fancy our sweet old grammothers with all deeply by happiness, hy sadness, by min end but rering endured and hidden with smiles, by trals wrinkle from their beamtiful old faces? The stages between bahyhood and old age have each to become less attractive by prowing old as long at she grows ond fraterumy complexion the soft an inderfinatble of pirlhood, but, adds in its stead siley with the firmer lines of the face, with the other but more subetle changres locks, and with such advice as "How to what class of women peals. Certainly not to the young girl in the first blush of youth and womanhood, nor to the unmarrica torman of lo-day, who is known for her sound common sense; nor to the happy wife
and mother, whose face becomes more beautiful day by day, as she in retiring forgetfulness of Self lives again in her children: nor to our peer-
less old grandmothers, whose swert fice s revel the profusion of wrinkles. advice seriously, and wo throush the ake tike gesticulations recommended, that sutely these
would be the freaks of womankind athl not the
 Our great mastors paimtine woshm
 oth men and women. They did not spond thei
$\qquad$

THE FARMER'S ADVOCATE

## THE QUIET HOUR

## Beauty.

Wonderful the whiteness of Thy glory
Can we truly that perfection share?
yes: our lives are pages of Thy story
Can we truly that perfection share ?
yes: our lives are page of Thy story,
We Thy shape and superscription bear
Tarnished forms, arn lonene then
Tarnished forms, torn leaves, but Thou canst
them ,
Thou Thine own completeness canst unf, Id
From our imperfections, and wilt end them-
Dross consuming, turning dust to gold.".
The love of beauty is very strong in the human heart, and why should anyone try to crush out
this healthy instinct? Beauty of face or figure is for Him. It may be a mighty power for good or evil, for men in all ages have been greatly influenced by it. The Bible does not hide the fact that Esther's beauty helped very largely to save the
Jews when King Ahasuerus had allowed the order for their destruction to be sent into all his provinces. On the other hand, the great beauty o Bathsheba led King David into crimes which seem. utterly foreign to his noble character. But we are
often told that beauty is only skin deep, and a love of beauty leads to vanity and worldliness. But why should beauty be only skin deep? A true King's daughter "is all glorious within,"' and the King Himself shall "greatly desire her
beauty." as the Psalmist says. God is "the perfection of beauty," and we ought to pray, "Let fection of beauty, and we ought beauty of the Lord our God be upon us." The command is given over and over again "Worship the Lord in the beauty of holiness." Even the plainest race may be transfigured an glorified by a beautiful spirit within, the face
character is always writing its name on the with indelible ink." Those who spend much of their time consciously in Christ's presence cannot
help reflecting some of His beauty. As the face of help reflecting some of His beauty. As to gore as
Moses shone when he had been talking to God Moses shone when he had heen talking to God as
a man talks with his friend; as the face of the martyr Stephen was bright with spiritual beauty as he gazed up into his Master's face; so we all know people who show by their appearance, as
well as by their words and actions, that they have been with Jesus. in : it is no use trying to cultivate an outward imitation of it. The world is not easily deceived, and scorns mock Christianit, whiltivate an amiable expression is something like the plan of the man who brought the hands of his clock to a watchmaker, asking him to " fix them."

Where's the clock?" said the watchmaker.
There's nothing wrong with the clock," wa the answer, "but the hands won't keep time." the answer, "but the hands won't keep time. the trouble was in the works, and it is just as impossible to cultivate the beauty of holiness in
the face without setting the heart right. If Christ the face without setting the heart right. If Chr
reigns in our hearts, if all our thoughts and afreigns in are in subiection to
fections
hardly fail to grow like Him.
As some rare perfume in a vase of clay
Pervades it with a fragrance not its own
Pervades it with a fragrance not its own,
So, when Christ dwelleth in a mortal soul,
All heaven's own sweetness seems around it thrown. There is an old legend that when the people
living in Nazareth were in trouble they used to say, ". Let us go and look on Mary's Son." I did them good even to gaze in that face which
was so bright with the beauty of holiness. Surewas so bright wave been a fact, for even to look at the faces of His true disciples, who are reflecting very imperfectly His image, is a help and an in-
spiration to-day, as it has been in all the censpiration to-day, as it has balked visibly among men. Is there any necessity for christians to bring disdisagreeable? Good manners don't wear out with using, like good clothes. There is no need to keep them for Sundays and holidays. If used
every day they improve all the time, and they form a very important part of the heanty of holiness. It has been said that hehavior is a mir-
ror in which everyone displays his image. That surely applies to everyday behavior. for anyone can put on company manners for a little whi'e
but it is the everyday manners that reveal the - It was only a glad, good morning !
As she passed along the way, - It was only a glad good morning
As she passed along the way
But it spread the morning story
Over the livelong day.
$\qquad$ Cana of Gallilee was. Those who oley the orrier Whatsoever He sath unto von, do th", oheve it

 transfigured. for purifying purposes, was thancurel itwo, eoom

 from the heart, with good w.ill doing
A beatifill life may be ived anywhere. Neen
in the worst slums of New York, as Jacoh Riis
says, there are thousands of devoted lives labor-
ing earnestly to make the most of their scanty opportunities for good; of heroic men and women
striving patiently against fearful odds, and by striving patiently against fearful odds, and by
their very courage coming off victors in the their very courage coming off victors in the
battle; of womanhood pure and undefiled. That battle ; of womanhood pure an atmosphere is one
it should blossom in such an
of the mysteries of life. And yet it is not an unoommon thing to find sweet and iinocent girls, singularly untouched by the evil around them. the infamous tenement houses.

- We who are of the earth need not be earthy,
God made our nature like His own, divine

Nothing but selfishness can be unworthy to shine
Of His pure image meant through us to
The death of deaths it is ourselves to enother
The death of deaths it is, ourselves to smothe
In our own pleasures, His dishonored gift.
And life-eternal life-to love each other
" If I could be such a beautiful old lady that, I shouldn't mind growing old," said a
visitor. Well, if you want to be that kind of an old lady, you'd better begin making her right away,"
laughed a companion. "She doesn't strike me as laughed a companion. "She doesn't strike me has taken a long time to make her what she is. If you are going to paint that sort of a portrait
of yourself to leave to the world, you'd better begin mixing the colors now." painting day after day, week after week, year after year ? Are we reflecting as a mirror the beauty of Christ. growing more like Him every day, steadily preparing for the time when "we shall be like Him
for we shall see Him as He is? " HOPE.

## Ingle Nook Chats.

My dear Guests,-
"Ah March! wo know thou art
Kind-heartec, spite of ugly looks and threats,
Kind heot of sight ort nursing violets."
The ever-increasing length and brightness of our still wintry days fill our minds with thoughts of the fast-approaching spring; and spring-time is universally admitted to be synonymous with
flower-time, and already we are beginning to plan for our garden already we are beginning to plat contains offers of bulbs and seeds at such reasonable rates that we long for space and time to grow them all. It is unwise, however, to attempt will give more return than a larger one if neglected, as a large one frequently is. It is always well to begin preparations in time, and just here I shall offer one suggestion: buy your seeds from a reliable and tried seedsman, and then, circum-
stances being ordinarily favorable, you may hope stances being ordinarily favorable, you may hope sive from the fact that they do not always turn out as represented. Study your catalogues and make your selections now, and order as early as ossible, the virgins disappoirthents.
store of earth laid by, in which seedlings may be started long before King Frost gives up his reign; but should such provision not have been made,
there is usually some sunny corner where a small there is usually some sunny corner where a small
quantity of earth may be procured sufficiently carly to start the ordinary annuals. Have any of you tried planting bulbs for winter flowers? If so, what do you do with them when they have
ceased to bloom? I have a fev tulips in bloom now, and mean to put the bulbs in the garden,

The care and culture of plants can scarcely fail to be instructive and interesting to all who
are in any degree given to looking beneath the surface of things. We plant a bulb, a thing pos-
sessing in itself no visible beauty and after a time some green leaves appear: and hen, oh! miracle! some bright morning we find emerged from its prison in the heart of the ugly
tuber. Who, gazing daily upon such wonders of nature, is not strongly impressed with the remembrance of that glorious resurrection which
araits humanity, when, its carthly duties done, it, too, rests in the bosom of all-embracing
mother earth? Ruskin says: "Flowers seem in mother earth? Ruskin says: Follace of ordinary humanity. They
tended for the solater
are the cottager's treasure: and, in the crowded town. Mark, as with a littie broken fragment of heart rests the covenant of peace."
The phight of those who fail to appreciate the Cramty of is peres because perchance they are tumate ones who thice datharmel frome the erma a 5n

fully recovered. "L Ewart"-You are quite a'
letter-writter for a boy of nine, and have made a
gool bectinn ing in the puzzle line. We have ha goor beginning in the puzzle line. We have ha
torms here. too but 1 hope they are ove
bot corms here too but o hope they are ove
1thre think some of our guests made a
sugtestion some time ago I should like to Suggetion some time ago 1 should like to at
it but it means an immense amount of laloor-,
more than one would suppose at first thought. day perhapa we may do so ; in any case I thank
for the surgestion. I holie the drawing contest announced in
issue will have many competitors, as it is somet
new in our columns. It should be of special int
int ew in our columns. It should be of special int
and girls, a large number of wh
on school boys
and Ingle Nook Chats, Pakenham, THE HOSTES

THE CHILDREN'S CORNER Do What You Can.
There's enough for you children to do
To keep you as busy as any old mouse
To keep youn ins yusy as any old inous.
 You'll be glad when you're grow
1o a woman or man.
There's enough for you children to do all about
If you try you will very soon find some work
$\qquad$
Wou will find you can do if your
So, children, be swart,
And do what you can,
you'll be glad when you're gro.
There's enough for you children to do anywher
So hurry around and each do your full share

You'll be glad when you're grown $\begin{gathered}\text { So, children, take care } \\ \text { To do what }\end{gathered}$
And, children, whatever you do, do it well,
People always in looking it over can tell
Wh you hurry it through,
Whatever you do,
So whatever you do,
Do the best you can;

## Grandmother's Remedy

Bobby was almost always as happy as he eady to entertain a whole family of smiles, morning, noon and night. But one day Bobby growled and grumbled, and two deep wrinkles in what do you sot drese an the smiles away. And "Girls don't have to do anything !" declared Bobby, as he sat down, with a thump, on the shoe-box in grandmother's room. " Girls don't was to feed hens or fill the wood-box! I wish I " Girls don't have to do anything !"' exclaimed Grandmother Stone, in surprise. " Well, well,
well! You come with me a minute, Bobby; and Bobby followed grandmother into the sitting Bobby followed grandmother into the sitting-
room. But when they got there room. But when they got there, both were sur-
prised; for sitting in the big rocker was Beth, her eyes full of tears. said, sorrowfully. 'I m tired as anything of
dusting rooms. Boys don't have to dust or mend stockings, or do anything! Oh, dear ! dear ! dear!", And Beth hid her curly head in the ". Well, I never did!" exclaimed grandmother. " Supposing you do lBobby's work to-day, and he to change work with you." But would voul belicye it Crandmother was But would you believe it? Grandmother was
mistaken, for Bobby shook his head. mistaken, for Bobby shook his head.
" I'm going to feed the hens mysel
decidedly.

Beth wiped her eyes in a hurry. " Girls never And
grumbling for they both laughed, and stopped

The Stamp.
I stick to my duty, I wish you to know
The very best thing i could do;
T travel wherever they tell me to go,
I'mput in the corner and willingly stay,
The envelope frequentive asking the way-
l never have known him go wrong.


Na. Nuw wrow why where whe wixhed


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H. R. LAMB, BOOK REVIEW.


[^1]THE FARMER'S ADVOCATE
Letter from ex-Dairy Supt, of Manitoba De Laval Machines.
The De Laval Separator C
Co., Winnipe $\qquad$
Winnipeg. February 14, 190 entlemen,- After years spent in constant touch with the various makes of cream separators, it affords me pleasure to advice you, and throngh you the
dairymen of the West. that I am thoroughly convinced of the unqualified In my capacity as dairy instructor for nine veara thad unlimited oppory unities for comparison of separators in dairy stations and else where. M
ubservations have led me to believe that the
Alpha Disc " bowl makes prac
 tures as well, without impairing its capacity.
Recently, I had the pleasure of visiting the large factory in Montreal wher ough to the finisish In design, workmanship, material, durability and finish,
he. Alpha" De I, val machines easily rank frst. In short, they embody eve he "Alpha" De Laval machines easily rank hrst. An sor are in a olass by theni A few years ago in the Canadian North west little attention was paid to the
onntroction or skimming qualities of a separator but thingw have ehanged since then, and to-day the practical dairymen are buying solety on the basis
nierit. I have recently severed my connection with The Melotte Cream Separator
o., therefore am not interested in the sale of any separator, but believe it is only a short time till the "esurvival of the fittest" will be seen.
In conclusion, I beg toad vise you that The Pure Milk Co., of Winnipeg, are
now wating for the arrival of the No. "Alpha "Turbine Clarifier, and we will


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Minnio May 3rd-Ins. Rammace, Verbena 22 nnd J, C. Mills. Minnie May Mth-B. Harris... Fancy Maid-F. J. Slade Cent. Morning Glory - Robt. Harvey, baror Mon Maid 11th-J. R. Hux,
 Sutton Belle 3 3rd-O. Rhordes.......... 66
Mina-Albert Sinith, Chatham...... Sheep shearing is made easy and
economical by the use of the clipping economical by the use ot the Clipping
machines furnished by the Chicago
Flexible Shaft Co. Whose advertise-
ment runs in the ."Farmer's Advotun by hand power, and can testify
to the excellemce of the work done, the
fleece being removed without any
any feece being removed without any
danger of cutting the skin of the sheep,
getting the whole of the wool without loss and leavinge the theeer in the bithout
possible condition to prosper, uanam-
pered by an unreasonable purden and thriving in condition. The same or
similar antachment answers ndmirably convenience and serves an excellent
ant ant ase the advertisement of this
pompany, and send for their circular.
westerv falr dates The Western Fair (London, Ont.) will

1. held this year from Sept. 12 th
to
20th. AN IMPROVED . PLOW, advertised in
this issue, is the ."Wonder Plow., which it is clowing made easy." It is an attacmine of wheels for regulating the
depth of furrow, and will run without
holding. It is ensily beam of any plow, and will wear a life-
time. Write the Wonder Plow Co Room 10, Hiscox Building, London, Ont., for

## BOOK REVIEW

be ordered through thes oflce,
at the price stated. M. H. Hayes, of England, who con-
tributed the interesting and instructive article on South African horses in the
Christmas ". F'armer's Advocate," has just published a timely volume en-
titlect, '. Horses on Shipboard-A Guive ested in the remount question will apillustrated with 24 photo-engravings of
horse-transportation scenes, appliances for handling horses on board the boat etc. Among the points which the Cap
tain emphasizes for the welfare of th horses are security of fastrnings, ah
sence of overcrowling, aunple ventilu
tion, good foothold, suitatule food and unlintited drinking, water, facilities for South Africa, froments of remounts
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$\qquad$ as the sampe as at the guelph sate los Jear
 but there were ome, was better than last year, were quite inferior
and no credit to the breed. The buyers were mainly Ontario farmerctimane United States
breeder bought two animals. About 10 hoad
were taken by two Nova Scotia buyers and Mr. S. Renie Toronto, bought four or five pre.
sumably for a amadian Northwest ranching
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Insuectur-lv Maple Bank Judge-J'ohn llughson, 10 Wylie-Isac Andrew, I, Incknow
Crimson Cruickshank-WII. Scarf








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Do your lungs pain you?
Is your throot sore and inflamed? Do you spit up phlegm?
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Are your lungs delicate?
Are you losing flesh?
Are you pale and thin?
These symptamina
have in your body the seeds of the mos
dangerous malady that has ever devas dangerous malady that has
tated the earth-consumption.
have been brought up in the those who beliefs that this disease was hereditary,
that it was fatal, that none could recover that it was fatal, that none could recover
who were once firmly clasped in its relentless grip.
But now known
But now known to be curable, made so
by the discoveries of that man whose mame tras been given to this new system
of treatment.
Now known curable by following and practising his
teachings. The new system of treatment will cur you of consumption and of all diseases
which can be traced back to weak lungs as a foundation.
It is not a drug system, but a system of germ destruction and body
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Thice Socum System consists of Four Preparations
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Shires and Hackneys. om
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 Bawden \& McDonell, Exter, Ont. Clydesdale Stallions One 8t ven-year-old.
One three year-old. Also a few mares and fillies of good size and good
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Smith \& Richardson clydesdale stallions. Our hatet imporatation of tatilloni in




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 INGLESIDE HEREFORDS and souncore helithe by


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Hackney stallion illustrated in the in
Horse department of ind by Mr. F. C. Stevens, Attica, N. Y. He
is a chestnut, with two white hind fee
stands 15 hands bred by Seth Lofthouse, Tadcaste Yorkshire, Fngland; foaled in 1890
imported in 1893: won six first and first at National Horse Show New York, for Hackney stallion 15.2 or over succession for stallion three years in succession for stallion and get; first at
the Pan-Anerican for stallion and getShow winners then onther stallio ciety's Challenge years in succession by Fandango a
Within the limits of the corporation
the village of Markham, Ont., lies the
stock farm of Mr. F. D. Robinson
whose herd of imported and home-bred Whose herd of imported and home-brec
Shorthorn cattle, representing sucl dens, Isabellas, Urys, Broadhooks
Orange Blossoms, Lady Dorothys, and
bessies, are quartered in his magnificent
stables. This herd was established fou emales out of Mr. John Isaac's im-
ported cows. Since then annually cions have been made to the herd, pri
cipally from the herds of the Messt
Isaac, the major

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60495, dam Ruffy, by Queen's Guard
57953. He is a rich roan of more than
ordinary quality and svmmetrv, andl will


16352 . He is a rev, and individually
a splendid type of the present-day Shor
splendid type of the present-day Sho
horn and has proven himstil a sire
the first rank. This bull is now
hale.
sale. A glance at the preeding of a fer
of the cows will show that nothing ha
lieen overlooked in the establishment
this herd to at once place them amon
the bert Imm. Jessili., by Merlin 2n
6.9119 . dam



were cows, with the others in the herd
merit, purchased for their ind individual
mand
by the stack lrels out of ont these cows and
calf, somect (some it
not). that are for sale, and
roan four-monts that are for sulf, imported is in
dam, sired by (iolden Fame ond
the cow, Jessic. This youngster will
likely he heard from in the future in the
prize-ring, as he is a perfect model ond





Twenty months old; red; also younger ones, as
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 6-POLLED ANGUS BULLS-6 Six young bulls, from 6 to 11 months old ; prize
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 Aurora is 24 miles north of Toronto, by Met-
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Marcil 5, 1902
THE FARMER'S ADVOCATE
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Shorthorn Cattle, Clydesdale Horses, Lelcester and 0xford Sheep, and Berkshipe Pigs.
Our herd oontains such families as Matchlesees,
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fords,
$=1$ junior champiof̉ of 1901, now heads the herd.
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thirty-five ewes and ewe lambs and fifteen rams, Farms 2 miles from Elora Stn, G.T.R. and
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 From 6 to 18 months old. Nearly all fromimp. damm, and sired by the imp. Golden
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John Miller \& Sons, Brougham P. 0.

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Also Bronze turkeys. A. W. SMITH
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Robin $=28259=$ = bred by Jo W. W. B. Watt) yrandson
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Nothing reserved.
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Shakespeare $\mathbb{P}$. CRERAR
SHORTHORNS


Bonnie Burn Stock Farm, $\begin{aligned} & 40 \text { rods north of } \\ & \text { stouffille } \\ & \text { Slatio on }\end{aligned}$ nt., offers Shorthorn bulls and heifers with calfi
Shropshire ewes with lamb, and Berkshire pigs. Ali

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 om ARTHUR JOHNSTON, Vandeleur, Ont LAKE VIEW STOCK FARM Meaford Station, good as the best.
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BOWES, Shorthorns, Yorkshires and Berkshires monthmediate sale t bred right and buills tipht. Also pizg of



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## dispersion sale of importedand home-bred <br> SHORTHORNS

Scotch-topped, from Cumberland, Gloucestershire, or Canadian dairy strain, and raise DEIEP-MILE-
ING, BIG-FRAMED COWS AND BABY BEEF in nature's way. Many cows that do not pay

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SHORTHORNS (imported)
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## Hillhurst Shorthorn Bull,

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## Shorthorn Bulls.

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 ticulars, or, better, come and see them.DAVID MILNE \& SON, ETHEL P. O.,
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Come and see or write for prices.
 Robert Hunter, Manager Por W. Watson Ogilvie, Lachine Rapids, Quebee.
shorthorns, shropshires, cors wolls.
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Scotch Shorthorns and Shropshire Sheep,
Are ofiering 10 Imp. buls from 10 months to
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Homee bered ows and heifers all ages. Also a grand lot of

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 years old, by Mungo 2nd and Scottish Bard. Also
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 money and dirat for flick at the Pan-Ameri-
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few heiters of choice breeding and superior quality. | om |
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## SHORTHORNS

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Hudson Usher, QUEENSTON, ONT. om
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Tredinnock Ayrshires,


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PEDIGREE AYRSHIRES. Cows and heifers, all bred trom prizewinning
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COTSWOLD HILL STOCK FARM Offers imp. and home-bred Cotswolds of both sexes
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 Ten Cents. and state where you saw this advertisement, we will mail our Handsome Catalogue for 1902, and include, Free of Charge, our Special 50 cent Flower Seed Collection-Asters, Giant Comet;
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