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Dear Stro-After two years experience with Dr marneoks U UstrkURE in heeling fleeh wounds,
am convice it the moit suocestul hening com-
Dound ever discovered. Its wonderful ourative prop
 I ever mw. One er my colte a short time ago was cut on the leç Just below the ahontder ; the wound was
eight inches long and right to the bone. ULOIRR
 in 1 diys, in my eitimation, no stock owner a
 Sent $\& 3 c$, stamp to the Western Veterinary Co.
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FEBRUARY $20,1899$. CONTENTS OF THIS NUMBER.


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 If the Teesa are not as good er you can get elecwitiono It 50 e. ., retur them got our exyento and got yout

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To send uiethatr wacthen for fophti, Thid apprectate finteloles workinanthly and the very moderate prices we charge. Wo glve
 tul edfuetment, We want you to feel whies you cend your watolk to an the work wili be done right. When wo soturn it yon willite \& poit card win bring youre niming bos, if you heven's Jne. Wo elve a graphitie with our work that gurranies. Brandon, Man.

Isuruer of I Marriage

## FLEMINE'S

Marititha Seedis tor Manitoba Farmers ${ }^{\text {tran }}$ I Manitoba Firma.
All seeds reelected upon the epecill recommende mental Send for our catologue ass soon.
nivertilement. if \#inl phy yow.
FLEMING \& SONS, BRANDON.

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FOUNDED 1896

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or. Market and Main Sts
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nenty lisuev. It is everywhere acknowledged to be the biggent and best famlly newspaper pablished in Canada west of Lake Saperlor, It Wili be even a greater newspaper than ever for the coming year.
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malting barley for sale wolld WELI. To send us samples. we are prepared to pay hegest cash EDWARD L. DREWRY, - Winnipeg, Man.
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## THIS SPRING!

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## SEEDS <br> THAT WILL GROW !

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J. M. PERKIIIS, Seedsman, 221 Market street, winnipeg, man. DO YOU LIKE THE BEST? if so
drink Stone's Ideal Tea
 w. H. STONE, Grocer, please mention farmer's advocate.

## Vol. XXXIV

LONDON, ONT., and WINNIPEG, MAN., FEBRUARY 20, 1899.

Don't Use Damp Grain for Seed
Elsewhere in this issue Superintendent Bedford warns an enquirer of the danger of using damp wheat for seed. A few days ago one of the local
Provincial papers commented editorially port a farmer in the neighborhood had received sample of wet wheat. The editor drew the infer ence that damp and damaged wheat, that commanded a low price on the market, was first-class seed. This, of course, is the gravest folly. Damp gnd while thable to heat the first warm weather, perfect before gny chation such grain may be it is difficult to tell when of weather takes place, and the vitality of the grain almost are particularly liable to injury from heating and the greatest care should be exercised that only sound grain be used for seed. The temptation is sometimes great to use cheap seed, but the risk-a
year's crop-is too great. Don't take chances

## Canadian Poetry and Butter.

Mr. C. C. James, Deputy Minister of Agriculture for Ontario, takes advantage of the opportunity which is aforded him when replying to the freparts of the world respecting epartment from all parts of the world respecting Ontario to bring ents. Recently he forwarded to $\mathbf{M r}$. Thomas Hutchinson, of Pegswood, Morpeth, England, whe has been making the acquaintance of Ontario by correspondence, copies of the Christmas numbers of the Farmer's Advocate and Acta Victoriana, in which were poems by Mr. J. W. Bengough. The Hutching Mr. Bengough received a letter from Mr. Hutchinson expressing admiration of his poems, and adds: ' I, for one, as one of the directors of superlative quality of your , can vouch for the butter in particular. But it is as andian produceof Canadian poetry that I am inflicting this letter Buy a Cream Separator and Save the Wife To the Editor Farmer's advocate:
In FArmer's
In FARMER's Advocate of Jan. 5th you ask those of your readers who use a cream separator to
write you. Last spring I bought from Brigham \&
James, Moosomin James, Moosomin, an Alexandra cream separator No. 12, and believe it was one of the best investments
I ever made. Would not be without it. We milked seven cows and passed the milk through the separathe morning in from fifteen to twenty minutes about ten quarts of cream ; pithing we received abocived from thirteen to fifteen quarts per day.
receiver
Your readers may reckon the difference at 25 cent Your readers may reckon the difference at 25 cents
per quart, the price paid in Moosomin; then we had One mistake, I think
make, is buying one of the larger separators-a No 8 or $7 \frac{1}{7}$. My advice to my brother farmers is if you Alexandra, or if another make, one to correspond to that size, it is plenty large, enough, and is far more convenient. A complaint I hear from several
farmers is that the separator requires so much When I brought my separator home I could run it quite easily. My wife would turn it once in a while, but my hittle girls could not manage it. I found it
becoming harder each week, until finally I could
hardly turn it myself and examined wrong; finally I examined the rubber ring which
held the boxing ofspindle. I found it had swollen boxing pressed against head of spindle. I removed ring and put in a new one. Now my little girls,
eight and ten years old, turn it without any trouble. Perhaps in the majority of cases where the separater turns so hard it could be remedied if a new ring
was put in. My advice is to see that the head spindle is at least a sixteenth of an inch from boxing. I am speaking of the Alexandra, as I have never had
anything to do with the other makes ; they may he a better machine, but I am well satisfied with the
Alexandra. I bought it upon the recommendation
of Senator Perly, Professor Robinson, and qthers. whe separator is a great saving of labor, especially harvest in winter ; no bother setting milk morning and evening; crawling through a manhole into ice cans of milk. A farmer said to me the containing "My hired man and I milked ten cows and had the friend, that is better than hour." Very well, my but what about the other work? Oh, wife attond to that. Poor wife! If you had a No. $11 \frac{1}{1}$ separator your wife would be saved a lot of labor. Yonl or your the calves, etc. I said to another, "Look at the it, so it isn't lost" "What about what you feed the pigs?"," "I suppose they get the cream, it won't hurt into gilt-edge butter, and give the pigs the butter-
person conclusion, Mr. Editor, I would advise every person to get a small separator, and if you have
from eight to ten cows it will pay for itself in one
year in the greater quantity year in the greater quantity of butter made. I have perience.
East Assiniboia.

## Steer Feeding on a Wheat Farm.

fo the Editor FARMER'S ADVOCATE:
In answer to your request to give our method of
stall-feeding cattle, of which we have 68 head: Our
feed consists feed consists of hay, green oat sheaves, good green We feed cut green oat sheaves and oat strawabout one-half of each. Mix together with chop, and oats. Feed as much chop as the cattle will We feed this until about the 10th of February, soon will teach in place of oat straw. Experience grain. Give a bran mash twice a week enough little salt in feed and a little sulphur at intervals. Give cattle a change once in a while from the cut
feed to whole feed, such as hay or green sheaves We water by means of a covered trough in front of feeding, when we keep the trough covered by lids teep it clean. All our chopping, which gives pood satisfaction by a 15 -foot windmill,
ing and evening, all they arly twice a day, mornwhile being fed in the morning they are cleaned out and bedded with dry whent straw; in the evenil they can and drink they lie right. down and rest
Keep them as quiet as possible. We wash with they are all clean from lice, which they are sure have in the fall less or more. Our cattle are clipped on the back to keep them cool. We use a little oil cept fourteen head, which are in a hox stall Stables are good and warm and well ventilated. We spread the manure from the stable on land
which we are going to summer fallow nex Our opinion is a own steers, and to raise good ones never raise his get thin, and when he comes to stall-feed them they We are not experienced foed
glad to get a few good ideas on feeding would be of your readers who have more experience. We Will write you again when we know what result we
will ohtain.
Central Assiniboin \& G. MUTCH.

## Dairy Product of Assiniboia for 1898.

 A party in a position to know whereof he speaksfurnishes us with the following estimate of the products of the dairy industry in the district of As siniboia and Saskatchewan for the year 1898 : Of
creamery butter there was 308,000 pounds creamery butter there was 308,000 pounds manufac-
tured, which iealized 19 cents at the creameries netting the patrons 15 cents. In some cases 20 cent was realized, making 16 cents to the patrons. Of which realized the farmer from 7 t to 17.000 pounds. average of 11 cents. Factory and homemade, oheese about 90,000 pounds, averaging the farmor about
8 cents. This totals as follows :- Amount roterved by the farmers: Creamery butter, $\$ 4,2010)$; homene
dairy butter, $\$ 25,300$; cheese, $\$ 7,000$. Total $\$ 75,700$.

Good Results from the Use of the Weeder.
think over these things, I offer mers to read and killing weeds after the grain is sown. I have used years or more in harrowing grain after sowing to kill small weeds, with mure or ol less success. In some conditions of the ground the ordinary harrow severe on the grain, but other puts it back it is entirely too or burying too much of it so thet it tay pulling out too long to recover, and is liable to make the erop water in ripening. I borrowed one of the Bread it was not enough better than it, but concluded that Last winter I intended to get a varrow to get one. harrow made for the purpose. but saw a new looking over their circulars carefully I sent Aftor a single one, 71 feet, and a 12 foot one for two with what I consider very good results, and am wen pleased with them, I consider I owe a portion me many times over last year. I never had pild had a pretty clean crop and a last spoding stilf had a pretty clean crop and a good yielt. The steel, rounded at the point, and are so arranged in three rows on the angle iron frame that they clog
less with rubbish and do better work than any harrow or weeder I know of The smatt one is harhandy on a potato patch or garden, and does quite people will likely prefer the larger place, but many of the extra speed they make. The on aecount the large one arranged with wheels and levers
etc., for '00. They can be bought either wey. Ito etc., for' 9 . They can be bonght either way. I do other than riding instead of walking (quite a consideration, some will think), wasking (quite a coilthe cuts of them yet. I have found it is better to pretty well harrowed either hefore or affer sowing so that the ground is pretty level on the sowing. and the freer from rubbish the better; also fairly you can kill the weeds better with less condition the grain. I think the best time to go injury to grain first time is just before or about the the the grain is coming through the ground. The killed ait that stage, and it does very little harm to the grain at that time. You can't kill large weed with either weeder or harrow, as what we weed kill
them will hurt the grain. The use of the will can be repeated if necessary. The use of the weeder
cill the grain is
high. high. The horses feet will do the moat harm. weeder is a great beneftit. It saves the moiet a for the grain, that the weeds would draw outsture ground, and seems to prevent evaporation to some extent, causing a much better growth of grain
than if not used. the ordinary harrowing the crops, especially with ripening to some extent, and perhaps maky the I have never lost much that with the winds, although harrowing. The weeders are much safer to nae than any harrow on account of working much nearer the surface and doing the grain less injuch, weeders over the harrow is that the grain is sown surface above the grain an weeder teeth work the half, killing the surface weeds and diutarbing the ear so liable to. The flat spring teeth are not It is called the "Success Anti-Clog Weeder and I could not advise the purchase of a mathe. less the work is done when the of a weeder un-
if necessary leaving all other wore small. Judging by lata seasorm work till afterwande have to do something of that kind or if we will grow a good proption of our crop, for we cant the same land at the same time. crop of weeds on
Brandon, Man. Nichot

No art is fraught with so many dimiculties or has than that of agriculture. The long winter magement afford the best time in the world winter evenings Experience is a good school, and a lottle theory for
dessert will not come amiss.

The 'H ARMER'S ADVOCATE and Home Magazine. tife leadina agrioultural jovinal in

AGRIGULTURAL
THE DOMINION.
THE WILLIAM WELD COMPANY (EmatsD),
Lnspox, oxthaio, asp Whmirze, Manitobs.
Lospox, Exauard, Ornoz:
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Strand, London, W. C., England,
THE FARMERS ADVO
tieth of each month.




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must be made as rentinuance. All payments of arrearages
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12. LETTERE intended for
13. WE INVIE FARMERS to write us on any aygiloultural topio.

 atter they hav
be returned
Ald

Address - THE FARMER's ADVOCATE, or
?HE WILLAM WELD CO,

## Farmers' Institute Meetings.

Mr. H. McKellar, Ohief Clerk of the Department
Agriculture, and Rev. W. A. Burman, of of Agriculture, and Rev. W. A. Burman, of
St, John's College, gave $a$ number of addresses at
Farmers' Institue meetings, in the County of DenFarmers' Institue meetings, in the County of Den-
nis, during the week ending Jan. 28 . On. . the 24 th.
the first meeting was held at Bradwardine, Mr. nis, during the week en hel at Bradwardine, Mr.
the first meeting was held and
Jasper in the chair. The schoolhouse was crowded With an appreciative audience, including several
with at ater meetings, Mr. McKellar, ladies. At this, as at later meetings, Mr. Mckellar, considerable length upon "Subjects suitable for consideration at Farmers' Institutes."
The subjects suggested per acre?" "Stacking;" tity of seed shall we sow per acre?" "Stacking ;",
"Feeding cattle for market;" "Farm buildings;", "The farmer's garden;"" "Noxious weeds;" "Swine," etc. The Rev. W. A. Burman followed with an ad
dress on "Plant life in reference to noxious weeds." dress on
Both speakers were listened to with marked atton-
tion, and at the close apreciative remarks were made by Mr. Norris, M. P. P., and Rev. I). A. B. The Institute in this district is in $a$ flourishing The next day (Wednesday) a meeting was held at
And Avon River, with Mr. Lynch in the chair. Atcnough
a blizzard was blowing, there was fair attendance a blizzard was bownch interest was evinced by those present.
and mula
After the meeting the speakers drove to Virden, After the meeting the speakers drove to virden,
twenty five miles through the blizzard, whence they proceeded to ellowing day. The attendance was doubtless the following day. inthed by the intense cold and high wind
dimevertheless, there was a goodly number of farmers neverthess, there was a in the proceedings proved
present, whose interest
their earnestness in the work of the Institute. present, whose interest in the proceerk of the Institute.
their earnestnes in the work
The next meeting was nt Virden. It was a bitterly cold day, yet the attendance of farmers was
very concouraking, and in addition a number of the very concomiting, and in addition a number of the
sminumblamsi, the public school were present by
imvitalim, so th, the hall was well filled. The chair


 varied to
case with io
with weeds with weed
district.

Corn and Oats a Good Substitute for Hay. To the Ealtor Farmer's advocatr: I wish to compliment you on the Christmas num-
ber. It was very good, only $I$ think if the illustrations were all of Shorthorn cattle, Yorkshire pigs, and Cotswold sheep, the country would soon be a
great deal richer. $f$ see Mr. Martin, of Regina dis great deal, is the only one who has come out in support of hauling out green manure., His farm may not be
 late a reat, loss besies cultivating weeds. I I ould
give Iots of tests, but will confline myself to the experience of last year. Last fall I thought I would and lightyly plow in and give one stroke of har-
rows. With this in view, in the fall I covered about rows. With this in view, in the falle covered ate rate of ten loads per acre. In the spring 1 did other three
acres with green manure from the stables at the same rate. In the second weel of June I sowed it; rain came when we were working at it, so all got a time came, what was green manured wàs fully six inches shorter than where there was no manure and where the rotted was applied the crop was fully nine inches longer than when there was no
manure. It was all a fine crop. I cut with the binder and took off twenty-four good loads-a grand substitute for hay. In fact, I think, far better than prairie hay. I intend following this up. Sorry
cannot accept of Mr. Martin's invitation at present, but if paced may avail myself of it on some fyture
JAMFs MILINLIN. occasion,
Pipestone Municipality, Man.
Symmetry Should Not be Lost Sight of in the Dairy Cow.
To the Editor Farmer's advocate:
I rather like the advocate, and among the excellether artikeces the ADVADCATE, and among the excelt time there are none that I have enjoyed
time to
reading better than those by Mr. F. S. Peer. This reading better than those by Mr. F. S. Peer. Mis
last one from his pen, in your January 20th issue, last one from his pen, in your January eoth issue,
is, Ithink, the best yet. While the Ayrhire
breeders in Scotland may have erred hi not giving breeders in Scotland may have erred in not giving
sufficient attention to the utility side of the question, I think a great many of the expert judges of dairy catte e whave on extrene, some of them
too much to the other er en thit
seem to think that all the virtues of a dairy cow seem to think that all the virtues of a dairy coiv
are in the backbone, the hide and the milk vein are if the bacoth, symmetrical animal is placed before them they are sure to arrive at the conclusion
that that animal is no good for dairy purposes As far as Ayrshires are concerned a greater mis take could not be made. Type, style, symmetry breeds of live stock, and I trust the Ayrshire
breeders will not let these expert theorists fool breeders will not let these expert theorists foo
them into dropping the substance and grasping a
GEoRGE STEEL. "the shadow. Ledge Farm," Glenboro, Man.
A Satisfactory and Cheap Food Boiler.
To tho Edilor Farmer's Advocatr
I have just read, in your issue of Jan. 5th, "In. ning of this winter I made $a$ wooden cooker with sheet-iron hottom, nfter the style of the one used
by Mr. Brethour mid twice illustrated in the ADvo ATE. It is about 8 ft . long by ft . 8 in. wide and 2 in. deep. . have a tight wood lid on it. The
total cost, including stovepi pes, elbow and damper, was a little under
walls of rough stones well plastered, 12 in. high two walls of rough stones well plastered, 12 in. high and
ft . between them. The ellow is set in the stone work at the end to connect to the upright stove pipe or chimney, and an old piece of sheet iron is
used for a door at the other end. This rig gives Mrqualificel satis faction, and I am only sorry that
 (unch a lange surface is expoeed to the heat, and by quite warm next morning, aven when it is $20^{\circ}$ be having enough wate in it to prevent the bottom
from burning. Trusting that this may be of use to some hrother farmer
Turtle Mountains, Man.

Self-Confidence Needed.
To the Editor Framers Alvocate:
Will you please give an old realer of the ADVOCATE a small space in your paper to mak
some remarks on breedink stock. It semms rery strange to me somet imes th hear old brederers fini can't raise stock here to 'compete with Ontario ani have means buising goocl animals to compete with


 proof for what I tum ong rixht here withmy own ishat was called
and at eight months 897 pounds. Now, this is what deffes the world. And if you turn ta the ADVO representative said about the calf, which would be well worth a reprint to prove what can be done when we try, and don't mind what anyone says, and is practice that I speak from
Now, a word on heavy horses, that lots of people say can't be grown in this country. I raised two in 1801 that at seven months weighed 717 pound
and 720 pounds respectively. Canadian Lion was and of the colts. And there is a four-year-old now on the farm of Robert Grames that is albout $17 \frac{1}{2}$ hands high, and weights about 1,600 . When on my own fancy, I can show two here now out of a small, well-bred mare, Sleepy Molly, 15 $\frac{1}{2}$ hand high, by Daniel (2.28), dam Gold Dust, that I thin Molly Sprague is coming four years, full 16 hand high; May Sprague, a full. sister, coming thre years, is 16 hands high, with good body and limbs (or a roadster. A letter in January 5th ADVo ought to please a lot more breeders in striving to get size as well as quality. This can be done, too, if you try, for a big driver is what we need,
especially when they have good breeding and can "gocially whe." Now, when I can raise such animals as mentioned, why not others? They can if they try, for there are lots of good breeders in Manitaba tha
can do more than they think they can, for the sim ple reason that they lack self-confidence, and think t no use trying to beat some great man in Ontario or England.
Hoping more will take a greater interest in
JAMES A. MULLEN. Manitoba.
Puts Green Manure on Barley Land.
The Editor Farmer's advocat
The question raised in your last issue as to the nure I think a very important question. I will give you my plan, which I find very satisfactory. I use nethod: I select the poorest piece of land con venient to yard and plow in the fall; then all the manure we make in the stables we apply through the spring put the heavy Randle harrows on and give it one stroke. This starts the weeds. Then as soon as we finish our wheat and oats we draw all the manure out of the yard and Randle-harrow in disk seeder, which puts it in very well.
My reacon for handling in this way is (1st) we My reason for handling in this way is (lst) we
do not plow our weed seeds under to be plowed up do not plow our weed seeds under to be plowed up (2nd) We find the barley a great exterminator of weeds. The weeds start, but the barley makes such a rapid growth it smothers them, and they
don't amount to anything. (3rd) Handling direct from the stable and yard we find a great quantity of oats grow, which if the land is sown to wheat is a detriment, but as we use all our barley for feed a the barley rather on the green side the straw me barley rather on the green side the straw The next year follow with wheat, and summerfallow or seed down the third year. We apply
about eighteen loads per acre. In regard to cultivated grasses, we had good
success with timothy last year. Have eighty acres success with timothy last year. Have eighty acres
for hav the coming season if our new seeding comes or hav the coming season if our new seeding comes summer-fallow, then seed down. Also had a piece of Brome grass which did well. but find the seed Stephen Benson.

## The Live Stock Outlook.

Reports which we have just received from feedrs in several districts indicate a decidedly imare already mention export cattle.. Several sales veight for May diliver cents per pound, live old $\$ 2000$ worth of stock. in the post ten deys," This included, we understand, his stall-fed beasts and a few breeding animals besides. Better prices for export beeves will react favorably on stock for home consumption. Since the removal of the ninety-day quarantine many thousands of feeders rices drawn away to the States at very good lesirable type. It has had doubtless a stimulating ffiect upon trade, but in our opinion a better class order rder that the full advantage of the industry be
derived. 'The prices being realized for other farm stock are also encouraging.
There has been a corresponding advance in the
prices, and demand for breeding stock. The annual meetings of the Canadian live stock breeders in innst mucurawing throughout, as we foreshadowed onght to b, record year with the Canadian

## The Conventions.

 Thiry annual gatherings of the live stock breeders year held during Bonspiel week in Winnipeg, cer tainly proved the most successful, in point of num bers a and interest taken in the proceedings, ofany yet held.
distances it it a counntry distances it cannot be hoped to collect a very large
concourse of people concourse of peope at any one point for meeting
of this sort, but it is most gratifying that the attend ance is yearly increasing and that so many of the these conventions. On every hand were heard expressions to the effect that this year's meetings
Were the best teverthe that thit
tede discussions whish followed were of a a moead and and the discussions wher whit follow
ful and encouraging nature.
of The opening meeting, on the evening of the 7th of Feebruary, was a joint gathering of cattle and
shand
swine attendance was good, the large council chamber of
the City Hall being filled to the doors. It was of Mayor Andrews, who was extremely aprionce offer a fitting welcome to the representatives of
these important interests. Illness also detained these important interests. Illoess also detained
Hon. Thos. Greenway, whose address was looked for as one of the chief features of interest. He, sions, and delivered an interesting address. After a few words of welcome from Alderman Mathers,
and a happy reply on behalf of the stock and dairv,
 Prairie, John. A. Oraii, Professor. of Animal. Hus-
bandry at the Agricultural College, Ames, Iowa, bandry at the Agricultural College, Ames, Iowa,
addressed the meeting on Selection in Stock-rvising. The Professor is a clear, fluent speaker, thor-
oughly conversant with his subject catch his audience delivered two addresses during the week, and was always ready to take came up and to give the results of his wide experi-
ence in experimental stock feeding and breeding, In In the absence of two speakers who were on the
 of Brandon, kindly consented to read A. their pedoprars that were on the programme for other sessions.
Mr. McKay read a valuable paper on Root Cultivation, and Mr. Beedford spoke oper Grusses and Fod Cod-

## Sheep and Swine Breeders' Association.

 The fifth annual meeting of the Sheep and Swine held in Winnipeg on February 8th, was unquestion interest yot held. The report of numbers and Treasurer showed the Association to have a larged increased membership, and that the work undercaken in the interests of the breeders of sheep and the Association's representatives to the Winnipeg Industrial and Brandon Exhibitions, as well as many local agricultural fairs, testifted durther as tothe influence and usefulness of the Association's efforts.
President S. J. Thompson, V. S., reported, as
representative to the Winnipeg Industrial, on last year's work, and suggested further improvements or the future. Henry Nichol represented the Asso-
ciation at the Western Fair. Brandon. and made most encouraging report. As a mark of the appre-
ciation for past services, both these representatives ciation for past services, both these representatives were elected as follows: President Jas. Riddell M. P. P., Rosebank, F First Vive.President, Andrew Brown, Portage la Prairie; Secretary-Treasurer, $G$. Well, Oak Lake; O. W. Bailey, High Bluft HelliB. Jickling, Carberry; W. Wállace, Neverville Directors representing swine - Jas. Bray, Long-
bunn : J. Achill. Meepawa ; Jas. Yule, CrystalCity, and K. McLeod, Dugald. Auditors, , Whaugh, Hugh McKellar. Representatives to Exhibition Boards-
Winnipeg, S. S. Thompson ; Brandon, Hy. Nichol ; Winnipeg, S. S. Thompson; Brandon, Hy. Nichol;
Portage la Prairie, James Bray; Carberry, J. G.
of A letter was read from F. W. Wominion Swine Breeders' Asson, Secretartion, stat. ing that the sum of 8100 had heen voted for the the appropriation was made too late to be available under the conditions named to apply to the 1898
show, but could be counted on for 1809. It was decided that the executive take this matter up and decided that the executive take this matter up and
see if the amount Which was intended for last year
could not be obtained, as well as a like amount for this year, as the Dominion Association received a
very large share of its fees from the breeders of this Province.
Mr. Riddell, M. P. P. Rosebank, read a paper on
Regitution to
Restrict the Deprelations of the Iegistation to Pestrict the Depretations of the
Prairie Wolf. He presented a strong array of facts showing that the prairie wolf had almost mad
sheep breeding an impossilifity, and strongl favored legislation that would give an increased
bounty and provide for an unlimited payment of bounty and provide for an unlimited payment of
bounty ${ }^{\text {n }}$ interesting disccussion followed, which
resulted in a resolution heing cirn ernment provide unlimited funds for payment of
wolf bounty; that the bounty be increased, and
that dogs be taxed, and the funds so raised be
applied on the wolt bounty fund. $A$ Satiofactory Pougery for Manitoba was the on Prairie Home stock farm was described in igeail H. W. Kellar, Chief Clerk, Department of Agri culture, presented some statistics on the hog indus Mivating
min Mri. P- Foreman of the J. Y. Grifin \& Oo. pork

Pure-bred Cattle Breeders' Association. The above Association held its eighth annual gathering on the afternoon of February 8th, in the of President Gray, the Vioe President for the
$\mathrm{N} . \mathrm{W} . \mathrm{T}$., Mr. Angus McKay, of Indian Head, took the chair. After the reading and adoption of the minutes of the last meeting, the President's addres and the report of the Secretary-Treasurer, the nominations for President, and it required fare ballots to decide the election. The result was President, Walter Lynch, Westbourne is First Vice
President, Andrew Graham, Pomeroy: Second Vice President, F. W. Brown. Portage la Prairie ; Vice Secretary-Treasurer, G. H. Greig, Winnipeg; Audi f Breeds - Hon. Thos, Greanellar. Representative Shannaed, Herefords, Hreenway, Shorthorns; Wm Angus, Wm. Martin, Holloway; D. Monloe Jor
seys: Geo. Steel, Ayrshires ; Jas. Glennie, Holsteins.
 James Ray. Representative to the Winnipeg Indus
trial Board, J. . . Barron.
$A$ resolution the appreciation of the A resolution expressing the appreciation of the
Association at the action of the Local Government. in giving a cash grant of $\$ 2.500$ to the Winnipeg amount would be granted this year, was unani-
mously carried, on motion of Geo. Steel, seconded mously carried, on
Barn Buidding, by S. A. Bedford ; Corn Arapers on Darked Moe. Both papers were listened to with showing that there is an inc earningestly discuased in these subjects, both of which are so intimately Hoct hreat syir stock-raising
At the evening session, which was a joint meet delivered by several prominent speakers. Charle Cegina, read, a paper on the Interdependence of the chowed the impon Farm and Ranch. He flrs referred to the countries from whence the world'
supply supply was chiefly derived. The Argentine he con-
sidered Canada's chief rival; she had for several years been importing vast numbers of choice berals
of the best breeds Which must tend toward improved quality, while he spect, at least the quality of the sfock on the ranches of the West was deteriorating owing to the use of inferior sires. In order to assist in improving the
quality of the cattle, the Government of the tories was prepared to bear a large portion of the freight charges on pure-bred hulls porported from Ontario through the Dominion Cattle Breeders' or vided some responsible organization, such as the Pure-bred Cattle Breeders' ' ssociation, would undertake to collect the animals and have them forwarded under pilities of the several beef hreeds for randy to and stall-feeding purposes. He also referred to
some of the drawhacks to some of the draw backs to breeding cattle on the ranches, and the heavy percentage of loss to calves
the firts year. stock could be proittably bred on the
farm and sent as yearlings to the ranges to be
finished. finished.
James
the Dairy Clennie read a very amusing paper on pose beef cow, the special purpose dainy purand the os-called general purpose cow, He was a firm believer in the special purpose animal, and found in the Holstein his ideal for his purpose. He of the Englishman would before long change as re-
gards his beef, as it had done with bacon, until he gards his beet, as it had done with oacon, until he
would demand that the tail be left on the beef car-
coss, so that he could be certain his beef whe that a hlack and white animal. Dr. Rutherford. M. P., Portage la Prairie, spoke briefly outherford, M. Ptable, Portage was, he sald, a years' exportience in an extended veterinary tice was very little understood. He explained the system of ventiation that after many years experi-
menting he had in his stable, and which when actual Loorking guccess, not a mere theory He hal
a good-sized ventilator in the center, hroviled with a good-sized ventilator in the center, provided with
a damper that could be opened or closed at plasurr, and then fresh air ine opesen under the wat pl af the
stahle, through air-tight boxes, pipess Prof. John A. (Traig gave an addruss onn, virmp


College on cattle feeding. In answer to questions, that gave sar pounds and over of butter a year, and the steer calves from these same cows had been fed sidered profitable, and they had been able to breed heifers from them that would surpass their dams. Of course, he cad not maintain that steers from such beef sires and daims. But under conditions existing in some sections where there is a lot of roughage to use up, he considered animals of that
sort would best answer the purpose. Dr. Rutherford said that in some of the best districts in Scotland duced a general purpose beast par excellence: in fact, steers from that cross were better feedere than
pure Shorthorns, and the females the best of dairy pure
cattle
Prof.
Prof. Craig considered the dangers of crossing
breeds serious; it was diffcult to know just what treeds serious; it wa.

CILLS FOR THE NORTHWEST
At a directors' meeting of the Pure-bred Cattle with the Torritorial it was decided to co-operate the handling of pure-bred bulls shipped from Manithe to Territorial points. Under this arrangement Greig, Winnipee, of any sales of bulla for shiliment to the Territories. The sirret car will likely be for-
warded early in April. A careful man will he fent In charge, and every attention given to the stock The Government assumes all transportation charges except $\$ 5$ a head, which the purchaser deposits with
the Department of Agriculture, Regina along with his appication.

In spite of the fact that the dairy industry has wished, the annual gathering was well attended and a yery live interest taken in the proceedings report was presented after the reading of the minmatters in exhaustively into the situation someo of the difficulties that were confronting the industry, pointed out many causes for hopefunness A recommendation was made that as a larg portion of this Province was more adapted to mixed farming than wheat-raising, alone, the dairy in connection with the Brandon Experiment al Farm, and also that more attention be given to the feeding and breeding of dairy stoek on the cxperimental Farm. The queston or whettio the Winnipeg next year was reverted to and discuased at length, it being finally decided that Winnipe was the most suitable place for holding the conver ventions could proftably be held in cifiorant tions of the country. The Directors were instructed to use th
 pog Industrial Exhibition, Mr. Munroe, reported on nstigation the eren adation to accomplish. At his gg aad been made for the exhibition of cream Faparrators and dairy utensils. The Judge. Prof. tire satisfaction, and the score cards had been nailed to every exhibitor a few dayy after the fair Buttermaking, with the suecoueses and fallures of the past season, Wm. Grassick gave a very inter
esting resume of the Pilot Mound Creamury, season, a report of which appeared in our last I Imase W. B. Giliroy spoke for the McGregor Creamery A.
R. Fanning for Newdale, Dr. Young for Mantou, R. Fanning or Newdale, Dr. Young or Manitou, sion on The Duty of the Patron to the Creamern giving in a pointed way some of the treamery.
patrons ought and ought not to do. David Jeote son, of Newdale, followed, drawing speciel atten tion to the laxity of many patrons in taking care of the cream. A portion of spoiled cream getting in
with a whole gathering would not only geftect tho value of the product for the party sending it, but
that of every be attended to with minute and constant care. He spoke of the carelessness of many in the care o
crean cans. Deep cans with taps at the botiom werre often used that were difficult to clean.
$W \mathrm{~m}$. Scott called
fresh, warm net called attention to the fact that mixed with cold cream until it has been cooled be vising Mactonald spoke at length on this subject, ad immediately frome separator. Separate the milk cool immediately as low as possible Kecessary, then can immersed under cold waser. if
oses itep
kept dry it
cream ted. He then explained why the oil-test churn i the only yractical test for the conditions prevailing
in this country. of course, care in sampling win essential. Stirring the cream would not property inix it it should be poured from can to cen, so as
to get proper sample. Drivers must be made so get proper sample. Drivers must be made to
sample properly and the maker to do the work
thoroughly and carefully. Mr. Bonsfield found

## Annual Meeting of the Manitoba Dairy <br> Annual Meeting of the Manitebe Dairy

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good cream from deep-setting cans, if proper care is
used. Always skim from on top, never running off by tap awtury sottom. C.O. Macconald endorsed what was said, point-

 with taps and graduated ealese at thite bottom. A. D. Murroe spoke, emphasizing these points.


 thhat each creamery asesoiation stould dend one of
their directors or cream gatherers of seeretaries to thair directors or cream gatherers or secretaries to
take at course at the dintry school and study the batimpting of oream and the oil test churn:

Election of offickrs.

 tary,-Treasurer. E. Cora Hind, Winipeg; Repre:



fect of an exxeellent paper by Alex. Scott, of Ham.
 Many creameries had been built of green, ansean soned lumber, which hecame impregnated with gother with cleanineess. Superintendent Macdonald tobe butter thirs past eeason, but thought the etateant ot thgerraed, tries. ha heen reently toisitid Brittibh oolumbie and been bhown molly byited.
 trigerators were at fault, and a proper refrigerator was only posibile by baving chemical refrigeration. Ho continued at length to explain why he claimed ordinary creamery
botia, eneld the iee refreceraterors they had in in the carvermment creameries in Assinibiboia and Sas-
 atmosphere kept dryt The ice tubes gathered the
moliture from the
timoshere
A man who was not capabalo of looking atter an ie reftrigerator
certainl would not be competent to take charge of Chomicat loe machine
being present, wairy Superintendent for Alberta, betig. present, was asked for his oninion on this
question, and said at the Innisfail Creamery, re-
 Trouble from mod This creamery was an old one whan sunke about bix feet tinto the ground, and was

 utensils ocacaionally Apply the white wash one day and sorub off the next thade the wood
 rreameries was entirell satisfaftory. They mixed ight per cent. sat with the ice in the ice tubbes,
mod this gathers the moisture onto the outside of
 frigeration was all rin
serinous consideration,
Geo. Harcourt quoted from the experience of
Yrot. Dean and ofthers, summing up the chief point to bo oberved to prevent mold- to keep the cold storages dry, the parechment paper in a dry
Dlace, to use seasoned wood for buildings, tubs, tec. and proper insulation of builaings.
jo A. Kinsella read a short but pithy paper on
he conditions of the creamery industry of the
Evening session.
A joint meeting of the Dairy and Breeders' Asso-
ciations brought the convention to a close. Mr. Champion, ex. President of the Dairy Association, Couppeat he chair, A resoliution sent rind by the Secretary, , ande elieictetd consididrable discussion. In
sulbetance ubstance the resolution read
zing the daninkert to human life from trite milk of
 thererforw wull urge ulon the Dominicion and tocal



 Ind responsils physical sis


may be deemed ft for human food, and as a mean-
time measure the careful pasteurization of the mill from cows so anfected, whether intended for human food or for the lower animals; (1) the careful
disisfection of reemises in which aitected animals have been keptet; (5) carreful attention to light, vertiliation, drainage, and general sanitation of sta-
bles. ble ${ }^{\text {Th }}$
M. Phe guestion was dise used by Dr. Rutherford
 son, of Carberry; and A Aratham, of Pomeroy.
Finaly, by a show of hands, the resolution was enidiorsedo otion of the Dairy Superintendent a resolu
 to pronitit the use of the square-box
age of of any thing but creamery butter.



 Baboock. People who attended dairy meetings and
read the read ted any arguments to prove the reliability of

 work done, and have full information and sen by the huttermakers. Itt is time enought to thile of of intro ducing the individual teat in the dairy herds after
the patrons are all believers in its accurracy. Some

 milker (a slow milker tends to make lower-testing
milk), irregularity in time of milking, climatic conditions, etc.
 referred to the pleasure it gave him to attend such
$\mathbf{a}$ meeting. Fver since coming to Manitoba and appreceinsting itver capabilititees, the heig hat of his nambi.
 stocked, with hood buildings and free from debt,
and some of his friends knew how far he had succeed dod. He referred to the Winnipeg Industrial
 Considered it one of the best agencies for showing
the cappabilities of the country.
$H$ He onted

 to the prize list of the Winnipeg Indusstrial. They were, hee supposese, trying toito induce the the stockThey were, he supposed, trying to induce the stock-
men of Manitobato go oow and
anchase more of
 iesured by the Winnineg Ind ustrial he noticed the
announcement that 35,000 farmers had produced announcement that 35,000 farmers had produced
$827,50,000$ worth of products in 1888. That was a wond offul showing, but what would they have propracticed by a great tarnming this ceun- miry was not


 also referred to the hog question, pointing out that
this Province did not at the present time produce
 mand mutton also wass being imported, and also
poultry, cheese and butter-things that ought to be produced on the farms of our own Province. Comparaint was frequently made about trangportation
rates, but if we would concentrate our products int a form that would stand thentrate our prosuactis ino
demmind
of the mank farming more proftable and more permanent tot Atter hearty votes of thanks hat been accorded to the speakers, , who ohad so hep ped to make the con-
ventions a suceess, the meeting, losesed with the sinking of "Giol Sive the Queen,"

Western Horticultural Society.
 on February 10 th 1 therroon anid evening sessions
were held. An intertstine were hed. An intersesting programume was preerically, was very appreciative $\begin{aligned} & \text { The papers read } \\ & \text { elicited unimated and practical } \\ & \text { discususion, and }\end{aligned}$ and elicited
on the
success
success.
After the recei committee and treasurer, the election of officers resulted as follows: President, Prof. A. B. Baird. ford, Brandon; A. P. Stevenson, Nelson: Angus McKay, Indian Head ; Thos. Franklin, Stonewall: G. S. McGregar, Mekiwin. Secretary, A. F. Angut
Treasurer, W. G. Scott. Councillors: Rev, Dr:
Bryce, H. C. Whelment, and Geo. H. Greig. by T. Franklin, regarding the San Jose Scale Act by T. Franklin, regarding the San Jose Scale Act
was, after a pretty full discussion, carried unanimously. The preamble of the resolution pointed scale would not do any injury in this comery: that
it did not exist in Mimesota, while there was considerable of it in Ontario. Ontario-grownstom was
almost worthless in Mamitoba, whereas Minmewta-
 tation of fruit trees, but all forest and ornamentals
as well. And one of the most rapid-growing and
useful trees for our Western country, the American aseful trees for our Western country, the America
cottonwood, could only be got in quantities from Minnesota or Dakota.
A. P. Stevenson referred to some of the advantages in Minnesota-grown fruit and other tree Ontario nurseries. The Ontario nurseries are most ly situated in southern part of that Province. The stock from there is grown under forced conditions Whip-shaped, and sure to sun-scald. In Minnesota adapted to conditions in this country, while there is not a plum grown in Ontario that is of any use here. He found the cottonwood one of the best and most rapid growing of Mrest trees, and ou many varieties of ornamental shrubs and trees got from Minnesota were hardy, while the same sorts
from Ontario were absolutely useless.

A McKay could not see that any harm could come from the importation of the varieties desire in this country from the States immediately to the south of us. Cottonwood trees, one of the most be supplied without access to the northern States. He would like to see the restrictions removed, a least as far as the Territories are concerned. He any harm in this country. He found any Ontario grown trees, or even the native Manitoba maples grown from seed sent down to Ottawa and the young trees brought back here, were only hal were perfectly hardy. $\mathbf{R}$. Alston also spoke in favor of the removal of the embargo, as did several others. It was resolved that action should be taken
to get the Government to take off the restrictions placed on the importation of fruit and forest trees from Minnesota, which State was free from the San José scale. It was left to the Executive to bring ments. The advisability of holding a flower show in the
fall was. discussed, introduced by Mr. Frankland those present was in favor of holding opinion o those present was in favor of holding a horticul
tural show. The matter was finally left with the directors. S. A. Bedford read a valuable paper on Hedges can white willow, sharp-leaf willow, cottonwood can white willow, sharp-leat willow, cottonwood,
and native maple. These should be trimmed once a year at least. Many questions were answered regarding other varieties, methods of trimming, Asiatic maple, native snow berry, and the arte mesia, were among the most satisfactory for smal Apple-groving in
Apple-growing in Winnipeg was the subject of long experience, had tried many varieties. Has Tradscendent, Hyslop crabs that have been very
fruitful ; also several varieties of standard apples He also referred to many individual trees in various parts of the city and neighborhood that had survived out of the thousands that had been planted.
Minnesota-grown Minnesota-grown nursery stock
the most suitable for this climate.
Early Difficulties in Apple-growing in Minne sota was the subject of a short but most encourag-
ing letter from Mr. Wyman Elliot, of ing letter held out strong hope of ultimate success of growing in this country. Disappointment after disappointment met the early attempts made in MinneAt the evening session, Mr. Middleton, Secretary of the Brandon Horticultural Society, read a paper on the Flower Show held in Brandon last autumn, which was a decided success. He also indicated ciety was undertaking to promote the general interest in the various branches of horticulture.

Mr. T. Frankland read a paper on Plum-growing
Manitoba, strongly recommending the improved native varieties of plums over any easter improved Cheany, Desotu, and Weaver were among the best. subject of a practical address by A. P. Stevenson, Indian Head Experimental Farm, read a paper on Fruit.growing in the Territories. Some of the of snow, and May frosts are: cold winters, lack currants, hardy gooseberries, and a few raspberries gether successfully grown. Manitoba native paltogrown from pits, have so far given promise of good fence, or shelter belts of forest trees, planting all his experience, it is practically useless to plant with are much better than when higher, as a high shelter che circulation of air, leaves the plants more liable (o) injury Hy nommer frost. helpful paper Brckeoping, from his experience of
many your in Manitoha. He had been remarkably succesistul lay- :art, having taken over one hundred



Manitoba Veterinary Association. Association was held in Winnipeg on February 7th. There was a large gathering of veterinarians
 Sec.-.reas, , Dr. Dunhar, for the past year, sub-
mitted his report, which was adopted, atter which the apointment of officers for the present, year
took place resulting as follows:
President, took place, resulting as follows President, H D.
Smith, Winnipeg, Vice-President, John Virden; Sec.-Treas, and Registrar, W. J. Hinman, Winnipeg; Examining Committee, W. S. HenderWinnipeg. "Dr. Hillon, of Portage la Prairie, read was of interest to the meetting, and was full wish
cussed. A resolution was passed dealing with the cussed. A resolution was passed dealing with the
question of tuberculosis in cattle, and submitted to a joint meet
indorsation.
How Can We Produce the Export Steer? [Paper read by Walter Lynch before the Manitoba and
Northwees Cattul emreederer Asocoiation.] When your Committee asked me for a paper on me an easy job. But I have set myself a much duce him at a profit. If I were to simply answer Your question, I would say, "Get calles and give
them plenty of good food and attendance and somee hem plenty of good food and attendance and some
of them will grow into steers fit for export, in time", of them will grow into steers fit for export, in time.
Of course they may, and probably will, cost you good deal nore money than you can get for them, but that is outside the record; besides, this part of some way, and I do not know of any easier or more
certain way of losing it in lopgitimate busines. certain way of losing it, in legitimate business, than by handling haphazard cattle in a haphazard way.
It beats poker "out of sight" and is not open to the charge of being a game of chance chargee afout it. But as these men do dotere need any
advice from moe, I will cut this part short advice from me, I will cut this part short and ad-
dress myself to those who, like myself have dheir mysear and butter out of this business. I I do not believe, and never have believed, that meat of any kind can be produced as a separate industry at
present prices. $\quad$ have seen it proved, theoretically present prices. Thave seen it proved, heoretically,
a thousand times that it can, but every time I have
sen it to proved I have ben more finmly seen it so proved, I have been more firmly convince it can not be done
eturn, that the steer that gives n eturn, except his beef value, will not pay the cos
of his production on land worth fifteen dollars o even ten dollars an acre, or on land where the rent ng to wild land), fust the same as (eam refe ing to wild land, just the same as a pig will no fair prices. Then how are we to get him? I think see three ways of doing it, but each of them has ome disadvantages. The first way is to steal him
as nearly fit for market as possible. The second is to raise him at some other person's expense And the third way is to raise him ourselves in con
nection with other industries mixed farming." The first way is the easiest well as the most ancient and honorable way of "r rais igy cattle," but it has several disadvantages. Oftenation, and sometimes makes trouble about it at the time or afterward. But even a greater disadvan-
age is the difffculty in finding cattle an honest can steal without forfeiting his self-respect for here are a terrible lot of cattle that are not only a reater disgrace to the namen who stole them erson's expense." There are several way we othe this. One of them was well illustrated when Sandy told Toneel, "Tugal was in jail for stealing a coo!
"Stealing a coo," said Toneel ; "what for ta fool will not pocht ta, coo, and not pay for her !", But as
 of raising them at some other person's expense, wa the huge amount of vacant land in the newer parts
of this country where a man may graze his cattle and cut hay for them free, or nearly so. Here a a
good lively theorist can figure out fortunes that good lively theorist can figure out fortunes that
wwarf the Yukon gold -flucers into pigmies. We will figue on it later on, buts I frost pant to stop
here to say that I believe the first step towards a systematic production of first-class steers for ex port, either oead or alive, will be taken when the
older and more expensive land that is now dev the entirely to wheat-growing shall have struck when
their fertility is so far exhausted that growing alone will not be proftitable. And that
time is probably much nearer the anticcipate. Then muc whearer than many of us
much manure he can make instowd of try how much manure he can make. instead of, as now, how
much he can destroy, and if he has not carried the exhausting process too far, will grow coarser grain
for the purpose of feeding to make manure, which will then have a a cash value which he wire, whill count a
part of his profit on feeling. For this purpose he part of his pront on feeding. For this purpose he
will go to the ranges and buy sters at thirty He will have to have for export at three years. afford to feed poor ones, and the ranchman will not
only have to breed a little better, but he will also have to feed a little better, for the first year, at
leant, and furnish a steer weighing 1,2 2ho pounds off
the the grass at thirty months. For this steer the farin.
er wrill pay thre ents per poond and finish him
to 1,500 pounds at four and a-half cents to 1,500 pounds at four and a-half cents per pound.
That, with the manure, will be a fair profit. no
more How will the ranchman, on free laind, come
out on such a deal? duce a steer of that kind must be a good one and worth as much as as steer at thirty years old will be must get interest on that investment, a fair allow ance for depreciation in value and insurance servic for failure tost of keep, and twenty per cent. added out in this way
 contribute something to their support instaed of
being a charge on them, and his offspring bealt the
better for it istler for it. I said he was a bit of a rake, but that would be ne has been taught to be one; but it teach him to be a slave. Prof. Shaw cloces his paper by saying that farmers raising their own This paper not fear the competition of pange cattere. anchman from the farmers, but it can ongly to to on a small scale, for on a farm a man might raise be raised at a loss. It a proft, where a dozen would ould only afford to said early in this papar a man one on that basis throughout. Prof. Shay have ure Shorthorns; if he had had something better hem. If any one can find much more money out of figures, I hope it will be in the way of shin these teers may be produced cheaper and sold dearer: le talk of warn them berorehand, that when peopound of grass, or even making of meat out of one out of two or three pounds of grain, they are away ahead of the average feeder and he hi inclined to
aceept all such statements with a very small grain

## Horse Breeders Mee

Thi the N.-W. T. held Association of Manitobe the City Hall, Winnipeg, Thursday, February oth. There was a good attendance and important ques tions were discussed and disposed of. One decision of hofd their annual meeting the same time of year a the other live stock associations. The election of mreers for the ensuing year resulted as follows:
President, D. Rutherford, M. P., Portage In Prairie; Vice-Preedident for Manittoha, R.
Power, Carberry ; Vice-President for the N.W. T., C. W. Peterson, Regina; Secretary-Treanurver, W. Lanuxiey, Brinnipeg, Exexecutive Committee John Hackneys; N. Boyd, Carberry. Thoroughtrede Glen Ounnbell, Danphin, Shires, John W, Smith;
Brandon, Olydesdales ; J. W. Knittel, Boinevain; Coach Horses; also Dr. Thompon and Dr. Shaw,
Carberry, and Geo. Harcourt, Winntinem

## Bog Spavin.

Professor McCall, Glasgow, at a recent meeting
veterinarians held at Manchester, Eng., is sall of the Horseman to have given hils opinion on bo spavin as an unsoundnoss, and on the mertits of the
new treatment introduced by Mr. Deans, of Bisho Auckland. Bog spavin, whether large or small, con stituted legal unsoundness; but he ventured to say way effected the animats uvefultoss nind they in no endurance. He eaid he had paid the greetest attion tion to these enlarged capules of the hook, and
rarely, in comparison to their found lameness of the hock associated with their presence. Indeed, if a horse pleased him in other respects, and had the power of free flexion and ex pass the animal as sound, he would aldom rioc him. Professor McCall maintained that a moese With a straight conformation of the hind limb inva.
riably has the capsules of his hook ointed and the straighter the limb the more distended wa the swelling or so-called bog spavin in front. $w_{\text {In }}$ Scotland," said Profesoor MMCAII, an eminent breeder dale horses in which this oonformation yof Olydes ous. The celebrated Prince of Wales stallion be. onged to this family, and, being one of the most formation of hocter to eny. He lived for twenty years and averaged one hundred mares per annum. When four years ond, on account of the conformation of his hocks, he was
condemned for bog spavins, and lost the prize for which he was contending. 1 knew the horse during the whole of his life. Hie never was lame, and to the day of his deatti hisg action was the admiration ff limb and hock joint, owing to the frormation sion of the joint and consequent pressing forward of the synovial fluid when the joint is in a state of exto a bulging outwards and inwards of the centeme. which thus becomes a perrmanent defeet, and no ordinary treatment, he said, will reduce the awelland injector, and the fluid he reecmmender to he injected, Professor McCall, after making experiments on his own animais and others, con-
siddered it a hayndons and don in some chases it was a great success, in othere a
omplete failure, or even worse; und in all, if the peration be properly performed, viz, the joint ex-
hansted of its synovial secretion and hansted of its synovial secretion, and thereafter
injected with the liquid, it causes excruciating and suffering for not less than twenty-four hours He was of opinion that the fluid injected is too conentrated and too much of an liritant to the delicate synovial membrane, and that only a propor-
tion, and not the whole, of the synovial fuid within the joint should be aspirated at one operation. It
is only fair to add that Mr. Deans, in reply to Preessor McCail's criticisms, said that "having oper,reeders, without any bad resulte, he had every anfidence in the succes of resulte, he had

The Value of Crop Statistics.
Mr, C. W. Peterson, the Deputy Commissioner of Agriculture for the Northwest Territories, in gave some interesting information regarding the work the Department, which was only organized last June, was doing in the way of discovering, developing and utilizing the resources of the Terrisaid:
"The collection of statistics was a more impor-
tant matter than was often recognized. Uncertainty in the knowledge of production was always a factor in depreciating prices. He would give an
instance. In the Koctenay there was a demand for instance. In the Koutenay there was a demand for
oats. Now, as the quantity of oats produced in the Northwest was unknown, the dealers came, espe-
cially along the Edmonton line, and offered very low prices, and the farmers having no means of ascertaining what the demand was the first oppor-
what supply there was, sold at thity, perhaps at 15 c . or 20 c . a bushel, sooner than run any risk. One of the objects of the department
rume
was to find out what was the demand what was Was to find out what was the demand, what was the supp
Rotted Manure on Timothy Sod Better Than Summer-fallow on Heavy Soil.
To the Edito Farmer's advocatr :
it is easier to put it on the field from the stable, yet I think it safer to let it heat and rot in pile to destroy the vitality of weed seeds. We haul manure
from stable on wooden sleigh three feet wide and eight feet long. With a well-broken, strong horse We can clean out a stable of fifteen cows and six horses in one load. By mixing the manure from keeps going down, we keep on drawing to same pile safe to put on the land. Applying manure, we have also top dress timothy barley to good effect. We heavy harrows, until meadows, and harrow with five loads per acre-with good result. Then the This does not seem to help the gress much the first year, because it is late in the season when put on, but the next year it improves the grass very much. up. As soon as hay is off, we plow down the sod, top
dress with manure and disk in, then that field is dress with manure and disk in, then that field is read our best wheat. We don't put manure on sum-mer-failow, as our land is very heavy and grows very much. I think it better to seed down to timothy, cut once or twice, and then pasture. For heavy
land, with good natural drainage, I think this plan land, with good natural drainage, I think this plan is best, but don't think it wound suit lighter soils.
Our new meadows were fairly good; the old meadows were very light, even where manure was
put on in the spring. May and June were very dry put on in the spring. May and June were very dry
in Southern Manitoba. One piece of old meadow
we did not cut, but on that piece the cattle got We did not cut, but on that piece the cattle got
splendid fall feed, and I think it was a very protit-
able piece of grass land. I had a piece of Brome able piece of grass land. I had a piece of Brome Grass
Municipality Louise, Man. ${ }^{\text {J. J. Jore }}$. Ring.

Finishing Period for Beef Cattle.
The finishing period for fat cattle requires close
beervation and careful attention to details on the pheervation and careful attention to details on the
part of the feder. A successful feeder is born, not
made, and it requires experience and close study to run a, beef animal to its full capacity and not over-
do it. An animal "stalled" or "of its feed" through do it. An animal stailed" or orf its feed whrough a week or ten days than can be put on again in the next month. An experienced feeder who can push a bunch of cattie pared to a skilful engineer in a large manufactory distant part of the building by a change in the motion or hum of his engine. With the engineer
his ear will detect the change, and with the feeder his experienced eye will enable him to know when he is approaching the "safety line."
show that a gradually increasing quantity of meal given quantity month is better and cheaper than a period. Fuantity fed daily throughout the feeding meriod. For "xample, say 1 pound for the first
month, 2 pounds for the second month, 4 pounds
for thind, and is to 7 pounds for fourth month or


 given atho,
feeding beef
 cate feeding
sary, besides : twice per day un :
much and overload

## .

clover hay, plenty of roots and ensilage, a fair allowance of meal, and regular supply of salt, conhours for feeding may be $5.30 \mathrm{a} . \mathrm{m}$., 11.30 a a. m., and twice per day, which will prevent them drinking oo much cold water at one time.
little export cattle would be much the better of a day. The advantages are : Keping the legs and digestive organs in good shape, enabling them to without the large loss by shrinkage which so many tall-fed animals loose
Beef animals thoroughly enjoy a good currying the skin clean, and the animals are more content; they should have it at least two or three times per week. Beef cattle require plenty of light and good ventilation in the buildings. The temperature is or about 45 degrees.
Cattle fed regularly at the same hour, by the time arrives, and he could set his watch by their actions and not be many minutes astray.

Fattening Cattle Without Roots or Ensilage.
Mr. John P. Beattie's stables in Dorchester each season contain a good bunch of steers, finished fo Ther are fed tied with chaims in double stalls and are let out once a day for exercise and water pumped from a well in a sheltered location near the stable. To destroy vermin the most thoroughly oil and coal oil (one third of the latter), rubbed on with a brush. These cattle are being fattened without the use either of roots or ensilage. With the last feed of meal each evening is given a table-
spoonful of mixture one-third sulphur and
two-thirds Epsom salts. This has been done for ome three weeks past with apparently very satis actory results, so far as the thrift and condition o fed has been a mixture of oats and barley, the former predominating, the two being grown together. They have been given four feeds of two quarts each per day, beginaing with a feed the firs
thing in the morning, followed by a feed of stray to pick over, what is left being used for bedding.
Between 10 and 11 o'clock the cattle are out for Between 10 and 11 o'clock the cattle are out for water and the stable cleaned. On coming in they
get the second grain feed, followed by hay. In the afternoon they again receive grain and straw, and in the evening the fourth feed of grain, followed
by hay. From now on the zeal feed will consist of the oots and barley mixture, with American corn added, ground in about equal quantities, and the
feeds increased to three quarts each four times pe feeds increased to three quarts each four times per
day or more if they will take it to advantage. At this
well.

A Philistinic Colt Breaker.
Albert G. Hubbard, horse-breeder, who hails and literary worlds, gives a lesson in the art of coltbreaking in the last issue of his periodical of pro-
test, The Philistine. He says: Some of Theodore Roosevelt's admirers a short : time ago presented hoosevelt's admirers a short time ago presented
him with a stuette, entitled. "The Bronco Bus- The work was done by Frederick Remington, and shows a lank, lean horse in a perfect agony of
fear. So well has the talented artist done his task that. the poor horse seems to be sweating blood at every pore ; his eyes are bursting from their sockets,
the savage bit is tearing the delicate membranes of The savage bit is tearing the delicate membranes of
his mouth, while the long, sharp spur on the right foot of the rider is ripping his hide from ear to tail. theorist, writing from the sixteenth floor of a city office building. I own horses, raise colts, and train
them to saddle and harnes. I have ridden horses horses on the plains, in pasture, on the track and in age barn: and this 1 know : the horse is not a sav,
as found it is one age animal. Whenewer a so-called ". vicious horse
is found, it is one that has heen monkeyed with by
a "broncol luster," The process of "busting lroncos" is to lasso an it into submission, clap a saddle on its back, cinch
this saddle with two girths until the horse can scarcely breathe, them leap, onto its back and hy
whip, curb and spur, followed up with wild hallow ing, force the poor heast into a paroxysm of revolt. Then the rider simply sticks untir the frantic, formstricken animal exhansts its strength. To break
the spirit of the proud amimal is the result desired
The other way tol them slowly, ". fuss" "aromel home is to work with with them, and
intended, put th
horse is the most cherful mol willing servant That nass excepting th
$\mathbf{w}$ ith the same dogs in puppyhool, in al fiw gencrations yom hen

horses. Many men are constantly engaged in training colts, and for one of these men to get into a
struggle or a fight with an animal is regarded as struggle or a fight with an animal is regarded as
sufficient grounds for that man's dismissal. The superintendent of this farm tells me that the entire scheme of training must be toward securing the
confidence of the animal; keep him cheerful and confidence of the animal; keep hime. To subdue a horse and break his spirit is as villainous a thing to do as to break the spirit of a man, or the heart of a woman. There are now various horse ranches in
the West where no "bronco buster" is allowed to set foot. The horses are trained by gentle means. It takes a little more time, but gives you a better house. And then such a thing.
Teddy Roosevelt is a pretty good fellow, but he is getting to a time in life when he should leave brutality behind. His desire should no longer be sink that statuette sink that statuette, which reveals the very quintes-
sence of shocking cruelty, deep in Oyster Bay.-The Horseman.
Feeding Calves of Beef Breeds.--- Successful Feeder's Methods.
In regard to feeding and management of calves animal: If the calf is from a fleshy cow and not a very heavy milker-that is, if she won't give any
more milk than will raise the calf well-I would let the calf suck the cow three times a day for four to eat a few pulped turnips with a little ground oat and pea chop mixed with the turnips. Just commence with a handful and keep increasing it every eat it un clean, take it out and cive it to does not something that will eat it, and give it a little fresh and a little clover hay in the same manner. I precows, letting the calf run loose in a box stall behind the many together if the pen is small, and they will go ahead till they are seven months old, and then you can be weaned and with plent.
cise they will grow right along.
On the other hand, if you give eighteen or twenty quart milk her and feed the calf on skimmed milk. As coon as the calf is dropped, take it away from the a good hand rubbing with straw till it is dry. Then milk the cow and give the calf three or four quarts of the milk daily in three feeds, and keep increasing quarts. Feed it three times a day. When it is six days old, start and feed it a little skimmed milk, say a quart, mixed with the whole milk, and keep in-
creasing it till you get it to all skimmed mill, but creasing it till you get it to all skimmed milk, but
be sure and always make the skimmed milk lukewarm by putting it on the stove a few minutes, and hen there is no danger of chilling the calf and havthe it going around with its back humped up, and care at this age of the calf will increase its value a
great deal for beefing purposes. In regard to feedgreat deal for beefing purposes. In regard to feed-
ing the calf prepared food or cooked flax-seed meal, ing the calf prepared food or cooked flax-seed meal,
etc., I think it is useless; that is, if your cows are properly fed with clover, hay, a little meal of some quantity of turnips to keep their bowels in good right. Feed it some pulped turnips mixed with a
little meal and clover hay - the same I advised feeding the calf that sucked the cow, and when it is one that sucked it will be a little thinner than the months old you won't be able to tell which one sucked the cow or fed on skimmed milk, providing
they are all bred the same.

## It was The Storage of Ice.

It was necessary to give information in the the least expense and the greatest success in keeping the ice available for use during the warm season.
In the storage of ice in a cheap ice-house, the following points are essential to prevent waste by melting:These are likely to get in around the bottom of the 2. Provision for the drainage of any water from 3. Close packing of the ice, any spaces between
the blocks lleing packed with pieces of broken ice when the ice house is being filled during cold
weather. the ice from the ordinary atmosphere. :2z Fahr. The increase in temperature comes from is tiv wow external to the ine. When a lump of ice meltex the, heat from the ground on which it ilies,
and hy hum from the air which surrounds it To pri... that, insulating materials of different used. An insulating material for
any substance which prevents, or mevents, the passage through itself
cnergy known as heat. Different cing good conductors or poor cond Whaterer is a good conductor of


Dominion Shorthorn Breeders' Association Annual Meeting.
The 13th annual meeting of the Dominion Shorthorv BreedThiere was an unusially large attendanoo of memotrs from,










 Shorthereas, this A Asociation has learnd that purchasers of





John Dryded further: John I. That a committee cobsisting of Hon



 and number of the bull
females of breading age.
पE TUBERCUN TE
ge. tuberculin trest.

 Government to allow catle to come into Canad
Britain without boing tosted tor tuberoulosis
 Fair at Liondon, whichever offers the best torms by way on
supplementing the amount offered in prizes in this clase




 received too late to be read at the meeting









 Co Gardiner Charlotetown, P. .D. L. F. G. Borver, George
town, P. E. I. Secretary and Editor, Henry Wade. Toronto

Annual Meeting of the Holstein-Friesian Association.














 the Thear.








 suchat ourse
None of



The Canadian Clydesdale Horse Breeders' Association.



being manifest. With the improved demand has come a
renewal of fimportations of breoding stock from the
 the last year, Among those who have introducad new blood






Mr. Davere, in hin annual addrees, congratulated the mem-
bera upon the prevent condition of the horse market. The de mand, he salid, while not brisk. What certain, and, ast in every:

 horra trade had a promising future: Iresident Peter (Christion






aiopter by the shorthorn Assonlation and the Shie Horme tion in the Canaitian Clydegaitiale Record to past ho beistoms

 Dominion Cattle Rreeders' Association



 out inp oominion, a condition will of our stoct
explained. W. Hodison, the Sooretary, in his annual report Hook and the privluges which bad been obbained by the Ase
ciator in the rospot
It









Dominion Sheep Breeders' Association Annual Meeting.























How a Carload of Steers Were Fed. To the Editor FRMMR's ADvocark: day to Glasgow by the way of Portland. One of the feeding them, they were finished on cut feed made out of corn (sown in drills three and one-half feet apart, and stalks eight to ten inches apart in the up, with two pails of water added to it, fed three two A nay. The ehop-sturf was one quart oated twice times a day, with all the hay they conld ent W. fed this; way for the last month. ${ }^{\text {They }}$ dpan't get much outdoor exercise, as they were fed in box
Atalls, and kept warm.
ratel to
Waterwheel to Run Cream Separator. Thos. Cairns, B. C:- - Could any of your readers arator, De Laval No. 2 Baby? The water diecharge | We invite four inches in diameter. ormation desired. Who can, to give us the inwheel is what Mr. Cairns should use.

The New Cure for Millk Fever The new cure for milk fever by the injection into the udder of a solution of iodide of potash is xcellent by veterinarians and others to give very nized in certain quarters as one of the most reliable remedies yet introduced. As already pointed out in these columns, it consists in injecting into the udder (through the teats) one dram of iodide of potassium mixed with one quart of boiling water, Half a pint of in the injected quarter of the udder. The 'animal should then be placed in a comfortable position on her chest, and the udder gently rubbed. Her position should be changed every two or three hours, and only one injection is necessary. It should be borne in mind that before the injection is given the udder and teats should be carefully washed with soap and water, to which a little carbolic acid has been added.-Farmers' Gazette (Ireland).
(Dr. Wm. Mole, M. R. O. V. S., writes us as follows, commenting on the above: "With reference absorption process, I cannot speak with any degree of the disease, and should be looked upon with
favor until proved incorrect. If you will refer to favor until proved incorrect. If you will refer to once took place in the ADVocate, you will see that I have always argued that it was due to re-introf parturition, due in many cases to want of time causing toxic blood poisoning, coma, and death tromexhaustion, , oo that by injecting a material that could be absorbed along the same lines, the brain
pressure would be relieved and the animal recover rapidly. There is quite a mass of correspondence in the veterinary journals as to this matter, and he general opinion of those men who I know to peated trials of both methods the chloral hydrate peated uriais of more successful. On the other hand, many men just as good pin their faith to the new solution of iodide of potassium as detailed in the above statement."]

## Overcoming Long Churning

To the editor farmer's advocate:
GantLemen,--Two very interesting letters are Jose of Messis. Black and McDonald, in issue of nyone to chu, though churn and get nothing but exation of spirit and a tired-out body. It is just about a year since I wrote to the ADvocate on th
same subject. I felt ashamed to do so, as I was greenhorn at buttermaking, but if Mr. McDonald has the same disappointment after forty years xperience I need not grumble. Since reading Mr.
Sleightholm's kind answer I have failed only thrice In getting butter, and the reason was the cows were strippers. Since last May up till the presen I have had to churn quite a long time -on two I have had to churn quite a long time-on two
occasions two hours, and that in the end of 1898
Since May 19th last my average time required to Since May 19th last my average time required to
churn has been thirty-three minutes. Should like churn has been thirty-three minutes. Should like as other methods interest me. I churn once a
week. For gathering the cream in we bought a week. For gathering the cream in we bought a ventilation, and the handle prevents dust from getting in. Oream is stirred when fresh cream is added. But during cold weather I have to keep the situated as I am? Heat is necessary, and we have only the kitchen stove going. For twenty-four
hours before churning no fresh cream is added, but hours before churning no fresh cream is added, but
the pailful is often stirred and kept ripening. the pailful is often stirred and kept ripening.
Churning temperature is from $65^{\circ}$ to $69^{\text {. }}$. The
churn is scalded and scrubbed, but in this cold sen churn is scalded and sorubbed, but in this cold sea-
son it is not cooled, but allowed to sit till I am
"ready the butter by adding salt. Last week it seemed as the butter by adding salt. Last week it seemed as
if it would not come for a long time, but we had been reading those letters and the answers, so pan of warm water and raised in temperature in a what was needed : butter after a few minutes' more churning. I do not believe in adding hot water to
the cream, as it only thins it and makes matters worse. For starter I use a proportion of good
buttermilk, and find it works well. I keep a note of all details, such as pounds of cream, temperature, time reymred to chum, pounds of butter made,
price, ete, and tind it in most useful record. I have
to thank the failures are rowncow, for much information. If

 P. s. 1
heese cloth $1!$ Ontarione Comber is.

How to Handle Breeding Stock in Order Get a Large Percentage of Well Fertilized Eggs for Hatching.
BX. E. w. Andrews

The breed of fowls kept should depend mainly poultry. Not more than twelve fowls should be pouttry. Not more than twelve fowls should be health and properly fed, not only will almost every raising the chicks.
To keep a hen in good condition for laving she not wrong to give a light meal of warm mixed food sloppy food at asil. The fowls should go away from food, getting it grain by grain, engaging in healthy exercise in order to obtain it. Feeding soft foo I believe in free range, providing the range is good. During the sumge, providing the range is
quire less food than in the winter hens require less food than in the winter, though it demany eggs they lay. When on the range they cannot fail to secure a full supply of all they require
if they are active and industrious. When hens are confined in their winter quarters without range, their morning food should consist of a warm mash, made from equal parts of corn meal, wheat bran,
and ground oats. If it is customary to mix vegetables in the morning mash, these can be used in conjunction with the above mixture. Feed what let them try to find the remaining quantity desired.
$K e$
flne and scalded, meat and bone three hay, chopped a week, and wheat at night. Keep plenty of grit fresh water. It is a good plan to change the variety of grain two or three times a week. Do not

irst prize winning pair of tight brahmas
nd to give fresh ground meat. Follow this pla The wail get fertile eggs.
ncubators during the winter months. They fill small buildings and not properly fed. What i the results? Not twenty-five per cent: of the eggs hatch. They continue in this way all winter, and
condemn the incubator. Toward spring, when the weather begins to warm up, the fowls are turned out into the runs or given free range. Then they get a change of food in the way of green grass and more active and in much better condition, and lay eggs fromg thesse thrifty hens are placed under hei, and the result is a good hatch.
Now, on the other hand if
able to have his hens sit in the winter when he started his inculators, on crgss from hens that were not properly fed and in pooir condition, what would
have been the result? chicks at all. Would he have satid the hens werd No , he would say it was the frult of the engs that
they were chilled or not fertile. Readers, if you will give your hens the proper excrease and food in place of insects, green grass. etc., that they gel when they have the range in the spring, you wil per cent. of strong, healthy chicks than any hen on The incubator is " necessity on any well-aon
ducted poultry plant. The inculator chick is ion from vermin, therefore is stronger and if placed in with less trouble than :a fozen moler an what hent The fancier who has a small plate in a city on thyn

when they have free range. The pouttry raiser on the farm should have a good comfortable laying. the eggs under the barns and other buildings. All early pullets that will be matured by th very, very careful not to let them get fat. That is condition a fowl should be in when ready foOverfeeding causes more diseases than anything else. If the pullets are not fully feathered when
winter comes, as well as being in good condition winter comes, as well as being in good condition, almost any kind of a scrub will lay. If you keep common hens, commence culling them out as soo as possible and fatten the culls for market, keeping
only those you can see are liable to do you good service this winter. Keep only the roosters you wish to breed from, and I would advise you to keep them by themselves until breeding time. You o you that you were wisé in doing so.-Artificial Incubating and Brooding.

Feeding a Calf for Beef Purposes. In the first place take good care of the cow while feed it from a pail we do not allow the cow to lick it, but rab it ond leave it for three or four hours to get hungry. Then take some milk from the cow but do not milk her out thoroughly for forty-eight against garget - carving. This is a great safeguar and increase gradually as the calf requires it; feed three times a day first'week, but be very careful not to overfeed, as scours when once started are very
hard to stop sometimes. When two weeks old add a little warm skim milk, and increase it so that at four weeks old they are taking skim milk entire mid to the skim milk add a little meal, corn meal order named. It is not good to mix 4,2 in the like oat chop in milk; put a tablespoonful or two in at first, and increase as the calf seems to relish it. When about three weeks old put some oat chop in and as it licks it up clean keep increasing; also let them have access to salt; also fine, well-saved clover hay and pulped roots. Do not leave it to get
stale before them, but keep the manger clean and put in fresh feed. There is nothing that helps them to eat better than learning them to leave a clean plate. Be careful to feed regularly both as regards changing the food at times to increase these lines, and in summer when flies are bad let them appetite, moderately dark, well-ventilated place to stay in night. When they are weaned from milk in the night. When they are weaned from milk in the
fall, a run on rape for a month or two puts their stomachs in a fine shape to take hold of the coarser
fodder in winter quarters. Calves fed in will generally grow well and have a good amount will generally grow well and have a good amount
of flesh, awhich should be always kept on and increased until they are finished. A great deal depends on the attendant-if he likes the calf and the
work. work. $\mathrm{Wellington} \mathrm{Co.}, \mathrm{Ont}$.

The Canadian Shire Horse Breeders' Association.
The Shire Horse Breeders' Association held their annual
meeting at the Albion Hotel, Toronto. Feb. 9th. President H. N.

 The Secretary Trasurer, Mr. H. Wade, presented his
reprot. There the been rather better results during the year
in the way or registration and membershin fees bin
 caving a balane on hand of $\$ 55.68$. hte cuse during the prest during the coming year than has been
pre eatiled, and a more active demand. Better prices had lately The Association adopted a resolution asking the U. U. S .
muthorites to aceept certificates of registration in recognized






Prizewinning Light Brahmas
The hirlh Brahma corkerel illustrated above won 1 st and

 $454 v a=4$

February 20, 1899
QUESTIONS AND ANSWERS.

## Veterinary.

H. Hill, York Co., Ont.:-" 'We have a batch of pigs four Honths old, and., some of have a have thone pigs oon thoir legs. We feod them on boiled roots,
shorts, and a little peas. Would you tell me what o do for them in
[It seems difficult to account for pigs going lame
the way Mr. Hill refers to, as not uncommonly the most careful pig breeders have trouble in the winter months. We would ask our readers who
can to suggest what should be done in such cases. ideation of the patelica, with arsoess.
Hugh C. McLean, Bruce Co., Ont:-: "I have a
olt that was hurt last July in the stifle joint. The colt that was hurt last July in the stifle joint. The
veterinary surgeon said that there were no bones veterinary surgeon said that there were no bone sprained. For the last two months it is breaking out in running sores. He cannot step over any thing
higher than six inches. Please send an early cure. igher than acter can be given in the case. See reply to a simi-
ar
guestion in this issue and we lar question in this issue, and we would recombeing worthless and not caparble of being cured

## Miscellaneous.

Regina:- "Could you give me any idea of the
alue of the red willow for fence posts. Are they durable?" where willow can be got large enough for diameter, they will last fairly well as fence posts. one farmer who has used them extensively tells us they last as well as oak posts. And he has fences
with willow and oak posts that have stood 10 years.] damp wheat for seed.
W. A., Hartney, Man:- "I have a quantity of
damp wheat on hand, and am only offered a low price for it. Will it be safe to keep this for seed (I would strongly advise you to sell your yam Wheat and purchase good, sound, clean, dry wheat. The trouble with the damp wheat is that it may just as soon as the soft weather of spring sets in it vill start to heat, and the germinating power may he destroyed. I consider it very unsafe indeed to disk is too great, as you or have it so bally thinned out that your crop
vould be greatly lessened. S. A. BEDFORD, Supt. would be greatly lessened. S. A. BE C. F., St. Paul's, Man.:-""Can you recommend
the sowing of a crop on new breaking ; and if so what kind of grain would give the best returns?
How would flax suit for this purpose? When should I sow, and how muich se
Would peas suit for this purpose?
Hax cives a small croo fon breaking we find that 15 to 20 pounds of seed per acre ing. We use about some time during the month of May. The average crop will depend largely on the seed, but it is no ufficient, I fancy, to make it pay. Peas do no small one indeed. There is no crop that I would recommend for spring breaking. Not only is the
yield small, but the land is injuriously affected for a number of years afterwards. I have known it to
cefuse to give a full crop for four years after bein own. I would strongly recommend that, instead of wasting the time in growing a small crop, the
settler use his time in breaking a larger area of land. There is no money whatever in sowing a crop on breaking. I can speak from experience in
this matter, as I have been 22 years in the country and have known many settlers to sow on breaking I.

Experimental Farm, Brandon.]
W. M., Grey Co., Ont.- " Can you give me some
advice as to what kind of farm power would be the most suitable to me? I want it to run a smal hresher, a crusher, cutting box, turnip pulper, and bout 7 horse-power, although 6 can run them [We incline to the opinion that for all the purposes named a good tread power would probably be the most satisfactory. For many of the purposes for the cream separator, which requires a steady
power and one available regularly twice a day, the windmill could not, for obvious reasons, be depended acturers of gasoline engines as to their cost and capability for the purposes specified.
G. W. M., P. E. Island :-"Kindly advise me as calves. I will have several next month, and wish to raise them in the best possible manner. How
much milk can be safely fed (skimmed milk)? have the following feeds besides milk: Flaxseed, ation of these for a calf. Any information on the subject will be greatly appreciated?"
[We would refer our correspondent to several
letters elsewhere in this issue

CROSSIRS FOR REGISTRATION - vOMITING STEER-
MIEASURIVG HORSE-IPAER CROSS-FIRING, Subscribre Lanark Con Ont-Will you be kind enough to answer the following questions through the ADVOCATE, in February $20 t \mathrm{~h}$ number, if possible. 1. How many crosses of pure breed do dam's side before they are eligible for registration? 2. What is the proper treatment for persistent vomiting in a two-year-old steer which is being
stall-fed? It does not appear sick in any way, only vomits everything it swaflows, a few minutes after. 3. In measuring the height of horses, is the shoe in-
cluded? 4. What season of the year is the best cluded? plant maples; also cedar, for a hedge ; and the proper way to plant a cedlar hedge? And proper way to shoe a pacer that cuts the inside quarter of left frond like as full an explanation on this ing? I would like as
[1. In the Clydesdale Association a filly has have four crosses of registered sires to entitle her to be entered in the Clydesdale Stud Book. The ney horses we follow a different plan. There is what we call an inspected mare, who is supposed to have lots of high action and be nearly thoroughtion stock, and is inspected. A filly from her by e pure-bred sire will what we call " halif register, With cattl it is different Every class registered. record haye to trace, in all crosses, to an imported
dem. Sheep require to trace to some flock books in England, or to the American Sheep Record books. have to trace to an imported dam, while the AmeriJerseys, and Polach as the Ohester Whites, DurocJorseys, and Poland-Oninas, trace to the books. They are a made-up breed.
H. WADE, Registrar of Live Stock, Toronto. 2. The causes of persistent vomiting are not previously to this one. In both it seemed to depend on indigestion, producing hiccough, and the
animal was generally in very poor condition, the fogd coarse and innutritious. In one case it was due to ulceration of the second stomach from mal receive a good purgative: 1 lb , of Epsom salts, 1 ounce of aloes afterwards, some good tonic powders: carbonate of iron, 2 ounces; powdered gentian, 2 ounces; powdered cinchona, 2 ounces ounce; powdered charcoal, 4 ounces ; to be mixed and divided into twelve powders; give one night
and morning in a quart of gruel. This will remove the cause. 3. When a horse is measured for sale or in a showring his height is taken as he stands, whether he is raised up on calks the height of the calks must plates, about the same depth of hoof is removed as iron is put on. 4. Maples should be planted in spring any time before the leaves are out. Saplings fully dug, leaving on all the fibrous roots possible, and not allowing them to become dried, usually live if set in loamy earth, well packed down and ten feet from the ground. In setting out cedar for a hedge, first of all the groound should be prepared in much the same manner as it would be for fruit manuring so that a fine, mellow, rich tilth is obprevious to planting the cedars. It is the custom of some to set out the plants just after grain seeding in spring. Plants from two to three feet high about one foot apart in the row. The larger plants may be trimmed buck to the height of the smaller well to draw home a few extra and put them in a block for transplanting into the hedge row next season. The ground on each side of the row should the second. Very little more attention is needed, are secured from their native location, it is prefer able to take them from fairly high ground. As a
rule, nursery stock has superior root growth, and ruse, nursery stock has superior root growth, and
usually does well. 5 . First of all see that the feet are absolutely level, with a good amount of around. Then seek to guide the legs by careful
weighting. Put on 4 -oz inside weights on front feet, protecting them with light quarter-boots, and
4 -oz. on the outside of right hind foot, and the outside of left hind foot. It is impossible to fix a rule that will suit every horse having the same scalpers with weight pockets, as they can be put on able slow driving for a few weeks, so as to develop the muscles that influence the leg.steering. Then
commence to speed easy at first. It may be necessary to use a little more weight for a couple of we able to carry himself straight with lighter side weights before attempting to speed. Balancing lying it, the study becomes very interal laws. inder-

Chatty Stock Letter from Chicage. Following were the prices lately carrent, with


Sir,-In your issue of November 5th last your veterinarian replies to an enquiry about "Anthrax in Calves." The calves in question, from the deserip tion of the disease given, died of symptomatic anthrax or, as it is commonly called, black leg or eldom seen in animals less than six months or mos than four years of age, but is nearly always ween in calves and yearlings. It is due to a microbe called the Bacterium Chauvei.
True anthrax or, as it is scientiflcally called, Bacteridium anthrax, is due to a microbe called the Bacillis Anthrasis, and, of course, is an entirely diferent disease from symptomatic anthrax. Hoccur epizootic in all species of animals except rats, but in most cases it confines itself to the bovine species. The writer, in giving his description, seems to have
got these two diseases somewhat mixed, for he goes on to say that anthrax is due to the anthrax bacilue which is quite true, but black leg is the disease in question and not anthrax. Black leg is not anthrax neither is anthrax black leg, there being as much
difference between the two diseases as there is between tuberculosis and glanders.
In the district of Novgorod, in Russia, in 1807-8 an epizootic of anthrax occurred, in which it claime and 500 human beings. Black leg is an entire different disease ; the flesh may be eaten wit impunity by the pig and dog and also by man, as
they are entirely refractory to the disease. Black leg was once supposed to be a precursor of true anthrax, hence they were at one tirme thought to be one disease, until isolation of the different to be entirely different diseases. I remain, $V$. . T. Thos. V. SIMPSON, V.

Peter McNAb, Reeve of Langford, Neepawa,
Man., says:-"I have been a reader of the ADvoATE for over twenty-five years, and find it too old


AN AMERICAN GIRL IN LONDON.
(Continued from pape 88.)



































elevator. is is not, I think, the address of














curiointy not thow woint bithether you, pe




 OWn" Ileft the burden of explanation wholly to Mr. Pink, content. ing gyeaif with to the hifofot of this that omentile not help wondering how many










xix.








 for looking at me go sharply, ininnatti, I understand from Mr Pink., the the contituruel Lady Batabourtoir from Mr. Pinck that you came from Chin-



 I. sanid I wae sair it would be interesting.
IIt is very difficulte said Lady Bando difticuit. It tis imposisibie that you should know how difleult Ih iremarked modestly, by way of reply, that I believed few
 aminhly ven perkh", it is not so difficult, after all," I repliod,

 course oppmparantan
good time. diosnt











 in Wilts-1 could take any body therol !
 thero itte and atew things ilie that,
notit sonds charming, Iremaried

"Yes I" Isaid.


 e extra, Miss Wick" " Lady Randobust stated, itm

s



 "I Ihould like to hear them," I seaid
mply residence, youn understand that, chapperonage does not





 window pane, "but that is a matter of detail" ${ }^{\text {" }}$ "O Course, 1 said, because I could think of nothing else to




 sill, you understand. That 1 should not navise - very bad
form, 'she wate married in October," Lady Randobust continued
 xandobust went on a absently, family. Miss Boningsbin. La






 Tady Bandobust fnally brought her offer down to oevent t tha
















${ }^{6}$ OId Songs."
What memories are sometimes conjured up by "old songs!" There is a subtle charm and power in music which seems to belong to it alone. In those who feel music naturally, this charm and power will recall, with almost cruel force, some lost scene or loved one, whilst other airs, reminiscences of the same time, will make but a faint impression. It is like with some flower, picture, poem, or even perfume ; but I think music has the strongest influence of this kind, it being so eminently emotional.
How can we be sure of what this sweet girl is thinking! She is young, so we must hope she has not had much of life's burden to bear. Perhaps she is only first trying over a few of the "old songs" she is a young lady of our modern timesit is hard to say; for in these days of so many revived old fashions in dress, who can tell? True, the piano is old, evidently, but one sees such in many homes.

Whether of far-off or modern times, however, there is still a touch of sadness over this pretty picture of "Old Songs," seeming to speak of some hidden chord which strikes that young heart and brings that grave expression to the sweet, earnest face.

MINNIE MAY'S DEPARTMENT. is a great honey producer. Its pollen, adhering to

## My dear Ninces,

More than 5,000 years ago a young man gave to his friends the following riddle, which doubtlessly you all know the answer to-Here is the riddle Out of the strong came forth sweetness," Of Let us think a little about this sweetness for which we are indebted to such a tiny creature as the bee Honey was probably the first sweet article known to man, for it is very frequently mentioned in the Sacred Writings. In olden times it was associated with many rites: It was mixed in th acred water sprinkled on the newly-born child Year rejoicings, and was also offered to the dead In England, before tea was heard of the fovorite drink was mead, which was composed of honey and water. Even yet we speak of the "honeymoon," which is so-called because of the ancient practice of drinking mead for a month after a wedding. It tell the bees" of a death in the family.
Honevbees were brought to America
Honeybees were brought to America from Cashmere and the north of India generally. The Indians said that "as the bee advanced, the Indian and the
buffalo retired." Certain it is, they have been the
honey, and golden-rod honey is said to be thicker han other kinds and to granulate more easily Other favorite blossoms of the bee are the apple, "dospberry, maple, buckwheat, and wild aster, "fifle metto, and cotton. Sometimes honey has a pery undesirable flavor on account of the bee selecting objectionable blossoms, such as the alder and the wild onion. But this is not all. Some plants give poisonous not only disagreeable but positively soldiers, having eaten honey near Trebizonde, became very sick. This was attributed to the laurel access. A strange feature, to which the bees had bees themselves seem none the worse of the nectar which they collect from those blossoms. A scientist in France is trying an experiment by
which he hopes to do away with medicines, and to use instead, medicated honey. He has a number of bees which are obliged to gather nectar from cerlain plants only: the honey from these plants is extracts from the same plants. It is doubtful if this Frenchman will succeed in superseding medicine, but if he do, how many children, aye, and
Honey is so delicious in its natural state that Honey is so delicious in its natural state that
there is fittle need for its culinary use. In "Sing a Song of Sixpence," the Queen used it with bread,
for we know that she was "down stairs eating


## "OLD songs."

## Do It Well.

## ver re wian

While the many are looking about for the road 0 good fortune, there are some who seem to walk steadily ahead toward the desired goal, without any would be difficult to discover the coveted way. It their success consists, hut to an observer it would all, their effort to do their best in the smallest par ticular. These qualities grant a royalty to their possessors that will, sooner or later, bring them into recognition.
No matter what may be the starting place, the and does that work well, is starting toward the top whether his duty consists in rolling clods or making wooks, in selling prints and laces, or in drummin Two lawyers, engager in a hotly-contested case,
became somewhat personal in their running crossbecame somewhat personal in their running cross-
fire of remarks. that yelieve," said one, with a meanness of spirit "Yes, sir," quickly retorted the other, "and I sold good milk. I did my work well."
whether it is driving a milk wagon, or what motte who keeps honest and does his work well is the good orkman, and the good workman need never blush to own his work.
heralds of civilization, steadily moving west as people went west. The old Western settlers give the exact year when the first bee crossed the Missis.
sippi, but the date is not really known. It is said to have been about 100 years ago, and they reached arrived there. This state-California-appears to be a leading place in the honey-producing way sesses a honey farm there of ofo hives, and finds it a good investment.
The ancients used honey as a basis for many beverages. etc., as we may see when we remember
that the Latin word for honey is mel Hence we have hydromel, a beverage of honey and water, and oxymel, a mixture of honey and vinegar, used
as a demulcent. Then we have mel in such words as melada (crude sugar), mellic grass (found in Britain and much liked by cattle), and melilot (a plant of the clover species, used as fodder). And O-day we still use honey as freely as they did in
davs of old. not only as a table delicacy, but medici. nally. It should be considered us a food more than a relish, and is said to be more desirable than cane sugar for persons of weak digestive powers. The but is rendered easier of digestion by the aill of thi: bee. The quality of honey is affected live the nature of the plants from which it is obtained 'The famous
honey of Hymettus derives its excellones from tho wild thyme which grows so plentifully on th. mountain-sides. The beekeeper, of courn, Hponds
upon clover for the finest honey. (iond
bread and honey," and no doubt she enjoyed it as much as any of her subjects would. It is said
that fruit can be preserved by packing in jars
and flling, all the spaces with honey, and my and flling all the spaces with honey and my
younger nieces will he glad to know (if they are yot already aware) that a little honey added to
not
candies is an improvement. Nearly candies is an improvement. Nearly all of us have
a '"sweet tooth, ${ }^{p}$ and so nearly all of us like honey. a "sweet tooth," and so nearly all of us like honey.
Now, I wish to talk just for a moment about en Now, I wish to talk just for a moment about an-
other side of this sweetness. Do not let all the honey and all the sweetness remain in the hive but take it into the home. Do not keep it all in
the cupboard, but bring it into all the roome it the cupboard, but bring it into all the rooms-let it
be everywhere-make the home a hive of sweetnese too. Let us emulate that little creature, the bee in its life of sweetness. That we may all try not to
collect sweetness, but to diffue it wheraver we go, collect sweetness, but to diffuse it wherever we go,
is the wish of - Your loving old auntie, Minnie May
A clergyman was annoyed by people talking and
gigkling. He paused, looked at the diturhers, said: : Some years since, as I was preaching, a young man who sat before me was constantly laugh
ing. talking and making uncouth ing. taiking and making uncouth grimaces. I the close of the service a gentleman said to me 'sir, you made a great mistake: that voung man was an idiot.' Since then I Ihave alwayg been afraid to reprove those who misbehave themselves in chapel, lest shonld repeat that mistake and re-
prove another idiot." During the rest of the service
there was good order.


Teddy's Trials.
So many steps to be taken!
Bo many errands to run! Pooplearo midithty wistaten
Thinking a boy hes much fun.
 Whish Wasiame-ye. TC ruther
 When isis oormenencesto flattor
"Deareat" and "darling" and "Teeddy," Butirim not always ready:
 If thero aro tuepst to betaren.
The Emperor's New Clothes. Many years ago there lived an. Emperor who cared so enormousily fher new that he might be very fine. He had a coat for every haur of the day; and just as they say of ${ }^{8}$ tinc "He is in council," one
always said of him, ""The Emperor is in the wardrobe."
robo.ne day two cheats arrived in the city. They said they were weavers, and could weave were their colors and patterns uncomthe stuff possessed the wonderful quality that they became invisible to anyone
who was unft for the offlce he held, or was incorrigibly stupia. "Those would be capital clothes," thought the Emperor. "If I wore those in my empire are not fit for the places
they have. I could distinguish the clever from the stupid. Yes, the stuff must be directly!"
And he gave the two cheats a great their work at once.
To be working ; but they had nothing at to be working jout they had nothing at
all on their looms The at once demanded the finests silk and the costliest gold, This they put in their own
pookets, and worked at the empty looms pockets, and worked at
fill late into the night.
All the people in the city knew what
peculiar power the stuff possessed, and peculiar power the stuff possessed, and
all were anxious to see how bad or how stupid their neighbors were. II will send my honest minister to see how the weaver's are getting on," thought
the Emperor. "He can judge best how the stuff looks, for he has sense, , and no one understands his office better than he.""
So the good old minister went out into the hall So the good old minister went out into the hall
where the two cheats sat working at the empty looms.
 "I cannot see any thing at all !" But he did not say asked him if he approved of the colins and the pattern, but the poor old mini
for there was nothing to see.
or there was nothing to see. "0, not ft for my office? No, it will never do for me no say that I could not see the stuff.
"Do you say nothing to it P" said one of the "Oh, it is charming-quite enchanting," answered
the old minister. "What a fine pattern, and what oolors. Yes, I shall tell the Emperor that I am very much pleased with it."
The Emperor soon sent again, dispatching anwas goinest statesman, He fared just like the the trst. Heaving looked and looked, but, as the looms were empty, ${ }^{\text {of course he could see nothing. }}$ "I am not stulid," he thoug
good office, fort which I am not fit. It must not let it be noticed." ".il so he praised the stuff which he
dide not see, anil "xressed his plensure to the
 "Is it not whomid. ". ? the two old statesmen




father; and one whispered to another what the whole people at length. That touched the Emperor,
for it seemed to him that they were right; but he thought within himself, "I must go through with tighter than ever, And carried the train which did
thent exist at all. not exist at all.
"Your Choice for a Dollar."


The no I can't hear to sell then

Recipes.
To one cup shredded codfish add two of water boil briskly twenty minutes, pour off water, ald butter, half a salt-spoonful of pepper, one beaten
egg. Allow this to simmer ten minutes. Serve on egg. Allow this to sim)

Peel and boil until tender, mash (while hot) sufficient to make one pint, beat into this two talle spoonfuss or mutwr, two of cream, a heaten egge
one heaping teaspounful of salt, a little pepper: Bugod laver of the parsmins, then a iaver crumbs, until the dish is full using a layer of
crumbs last. Sprimkle a very little salt and perppe
 melted butter, in
rapidly in the oven

orange marmalade, one-quarter pound sugar, four well-beaten eggs. Mix all together, press into
buttered mold or basin, tie down with a floured cloth, boil two hours or steam three. Be sure not so light. of course, the pudding is plunged into boiling water sufficient to cover it; as it boils away add boiling water from the kettle. These boiled puddings are very wholeso custapo to make.
of milk brough For the Above
Pint of milk brought to a boil, and add to it one
well-beaten egg and level teaspoonful cornstarch (moistened with a little cold misik), two teaspoon-
fuls sugar. Boil up once and serve.

## THE QUIET HOUR.

"Desultory Work."
With wnen a phianiniopist Eaili
"When a philanthropist said p To work your great grits you ought spent goureet
 Buis part He gives to me for which my past

 To ta and do the the the very et is tatar,
During the waiting season while God withholds active work from a man, He often gives little ser-
vices to be done for Him, which may be called "desultory work"-work that may happen one day and not another, "here a little and there a little, and which is often left undone just because it is Many have been turned from evil ways through the instrumentality of such desultory work. The religious book lent to a neighbor; the persuasive
letter to a distant friend ; the sermon listened to at the entreaty of a companion t the tract found in a railway station, the short,
sudden, but heaven-heard and and heavensudden, but heaven-heard and heaven-
answered prayer: the timely word spoken by the wayside; the striking anecdote treasured up and repeated; the anecointed text of Scripture that went into the heart, sharpened as al two-eaked sworc, - whar
but tod Himself can tell what such apparently trivial seeds as these may grow into?
 Through the long day an heaventy freahness kee
II, knowing how the day and the days

This " watering betimes with dews of prayer" is a very important part of
such desultory work, without which we need hardly expect it to prosper from the Master's hand-the fragments that remain from what He gives His strong ones, the corners of time snatched
from the more secular work of every day ought to be treasured by the Christian. They whose time is much at the disposal of others, or who are much in the habit
of traveling from place to place and therefore peculiarlv fitted for a "wayside wittherefore peculiarty neted tor a wayside witimportance of seizing all opportunities for desul-

"Each word wo eppak has infinite effocts


How well it would be if each in going through
he world were to remember what the old writer said of life-that it consisted of two heaps, a large whoever carried the very smallest atom from the one to the other did God a service: much more those who are instrumental in any way in leading or helping one precious sour nearer wo
if you think yourself unable or unworthy to attemipt any such high and important work, remember that the work is God's, and that Ho is able to fit you for it. If He inspired Bezaleel and
Aholiab with wisdom and understanding, filling them with the Spirit of God so that they might be able to work in gold and silver, in carving of stone And of wood, for the building of the earthly taber-
nacle, surely much more will He give wisdom to nacle, surely much more will He give wisdom to
those who ree trying to help in the building of the great spiritual temple.

The bruised reed is amplystoge
Let us take heed, then, to be faithful in the sinallest things, or how can we expect to "rule over
ten cities:" Let us watch over the little cloud, Trom which, though no larger than a man's hand, Let us nurturr the tiny seed which may spring up neo the furching tree, for though our words and



Figrruary 20,1860
THE F゙ARMER'S ADVOCATE.

## Our Library Table.

II beg to inform book-lovers that the books recovers), ranging from an low as ten cents, and very
fow being beyond twen yond twenty-five cents. 1
"Nothe Lavrel Bush." "A Noble Life And Other Stomes." Miss Mu-lock- Miss Mulocr. is so well known through her
celebrated novel " John Halifon" ther bearing her name may be taken for granted as worth reading. There is a pure, healthy tone pervading her work which is a refreshing contrast to draw attention to some of her works not quite so widely known. "The Laurel Bush" is an old-fash-
ioned love story-full of truth and pathos It ioned love story-full of truth and pathos. It tells two faithful hearts through the merest chance. The whole story is so natural, the characters so exactly what one may meet any day, that it only
serves to show how true it is that romance often accompanies the most ordinary surroundings. To
tell the end of this "old sweet story" would be a pity, so I leave its readers to enjoy it to the full. English earl), doomed from infancy, to a life of inaction, but possessed of a heart of gold, which
lifts him above all earthly ailment. His faithful manservant, in whose arms he almost lives, is a frail young earl and the big, tender-hearted Scotchman is most beautifully depicted. The "Noble Life" is described from childhood to manhood, and happiness can be dispensed by even those who are
amongst the "sore afflcted" of this earth, and of how a high and lovely nature can completely rise
above self. In "Noth
ollection of short tales which are little gems. The character of Jean Douglas in the first story is finely her. We cannot help, too, feeling in sy about with her handsome young lover, although he did make a mistake.
"The QUEEN,", Mrs. Oliphant.-Those of our of her everyday life up to a few years ago should read this book. It shows to us the true zooman, and seems to bring us into closer communion with
our noble and Christian Queen. The book was written by special sanction, and every opportunity afforded to the talented authoress for toporthnuly depicting the daily life of Her Majesty. One reads doings, written by those who really have no authentic source of information, that a book like this should be widely appreciauted." E P B author (only lately dead) has an enviable and wide spread reputation as a writer of pure novels that can be put into the hands of our youths and maidns. The story mencioned is haraly to be called ovel in the usualy accepted sense. It is a plain
account of how a small-salaried clerk in New York City is struggling to keep his wife and family in the children have no playground save cheap fat he children have no playground save the street
and the anxious parents see evil looming in the future. The father at last resolves to break away from such associations, resigns shis situation, col. a different life on a country farm. At first things look very black, for his experience is chiefly from books and what little information he could pick up,
but a brave and trustful spirit animates them all. but a brave and trustful spirit animates them all
The parents wisely give occupation to the very youngest child, thus creating an equal interest in
work. Their everyday life is told in a simple and work. Their everyday life is told in a simple and
fascinating way The father makes a ooint of ex garding them as co-workers, and the story is thus made full of usefut information, besides being most interesting as a story alone. Young people should
especially read this little book, although it can be especialy read this little book, although it can be
thoroughly enjoyed by people of any age. FELIX.

## Puzzles.








 _"."Hidex Gires."
Six little maids are hiding here-
One in each hine, a pretty dear.


MY Firre is what to una ue to pay



##  






 $\qquad$



a Tate two thousinact ofrom ano and manve asharp sound
 an article $\begin{gathered}\text { b. Take } \\ \text {. } \\ \text {. }\end{gathered}$ rengious band and leaveademonse
H. $C . G$.
Ho gaid, as about to statrt on a tour,


Herres a man ${ }^{10-C h a r a d k . ~}$
Ypaetoon hever country woll mind truly;



 noted English novel. ${ }^{2}$ Jessale At school one day. when all was tun,
In there came old $\mathbf{~ W n c l e ~}$
ONE.
He eare came he was giad to see us piny

This vaxed ond ove, and he didew:


You tanink that FIV RT THREE.
Yet he tries to teach bu atl man, han
Andif we cut up any more




Chastisement.
Solvers to January bth puzzure

Answers to January 20th Puzzles.



 ${ }^{7-t} \mathrm{~h}^{2} \mathrm{i} 8$



A famous man my primals show,
By flanals in what clases ho is recko


second il an insect like a bear and like a bee, and the total
appear like apparks on a dark night in tummer. M. A. A.
15.-RkBus.

5 me 6 for $\mathbf{T}$.

There are so many cole-culsor
 To win a prize is quite an honor
Whooe er succeecks, should thank the donor.


But it was because this Arry was the old-ume Honry Reveve
Who in by $e n e$ days second puzziling much honor did achieve,




## Answers to January 5 th Puzzles

 Merry Christmax. Happy New Year.

a b a te 14-(l) Dan, den, din, don, dun $\begin{array}{lll}\text { l } \\ \text { l } & \text { e r s } & \text { (2) Mass, mess, miss, mose, mure. }\end{array}$ (3) Mate, mete, mite, mote, mute.
e, Kamloops, Conneeticut, Regina,
ronto.
$16-\mathrm{M}$
" Kan,", Solvers to January 20ich Puzaiks


$$
\begin{aligned}
& \text { Cousinvir Ciat. } \\
& \text { loave us on that }
\end{aligned}
$$

"Toledo."-Do not leave us on that account. M. N. is, too
you buve ompany. and now let's forget all about that antifle. Tom of your apology so you intend to inflict them on others. Well, do. Ithink you are kood at them. prize is for the whole quarter. Send more
Bhan one, so I mpy dhoose the best.
 am glad you intend are stay with uas. 1 am "cousin" to all the "Kna." Will you please sign name as well as nom-de to No. 10, white not the one intended by the author, wan quite
 appear in the answer in this iseue are suificient. Wordis as they you. Would fare well. the prize offered in Jan. oth to be open
col verx nas well as cont trithntory of


 preferabile. -Your puzzle was too long, so I only'used part " Boz" and "Simple simpon."- Your work came in too late
for this iscue. Glad to hear from you, though. A Midnight Visitor.
Alexander Williamson went cooflly to bed,
And on the pillow, ont and white he lait hery head
But at the very moment that hl held A certain something happened which ts terrible ot toll.
And he was filled with wonderment that made him cold and

 The grte three days you knew me you were caroful ascon

 You tore a button off my coat and loat it in the street;
You scrambled up a brambele bank to catch abumblebee,
And in your very
 Now, Ale xander Willianmon, tui well that Wristband low
That though I do not often cone to vishlt vou to wrould kno

 That Alexander Wolllamson- he coveres du h he heded.
Cow if on any morning you hould wander down our
ind chance to meet ial


EXECUTORS' SALE
(F. W. Stone Estate Farms), ON SATURDAY, MARCH 4th, 1899.







 mainder on portrage a many be mmangeed.
F. W. STO ESE ESTATE,


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30 Head of Shorthorns,

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Bulls at head of herd: JuDon $=23419=$ and Shorthorn and Ayrahire cattle, Shropshire
Yorkshire and Berkhtrire swine.
ond Berkshires, by the great boar, King Clere, and
ut of such sows ns Harmony and Oold Drop. York shires, by the sweepstakes boar, Yorkshire Bill, and
out on smich sows as stanina, Jubilee Queen, and
Markham Maid Markham Maid. J.E.SMITH

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FIVE HoRses and Four cours. All Farm Implements, Grain, etc., will be sold at the same time. JOHNISMITH, J. G. SNELL ESTATE, Railway Stations: Snelgrove, C. P. R., two miles; Brampton, C. P. R. and G. T. R. tour milea,

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## SHORTHORN CATTLE

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O UR entire herd or shorthorns, consisting ot 3 hend, comprising suen well -lnown sootch families she




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I Have wix tor sale, from
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thistea I will


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| Spray |  |

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His Clydeedales are an extre choloe lot, posesealns

COACH STALLION


 W. G. BROWU, MEADOWVALE, OUT.

THOROUOHBRED STALLTOTI, "Monotony," to Change hands.

 F. J. BiLLLilloubni, V. S., Tionilili, Onit CLYDESDALE STALLIONs.




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ned and rame himpord perim Miniter, om
w. D. FLATT, HAMLITOI P, D, ant TEEEGRAPH OFFICE,


TEN CHOICE SHORTHORI BULLS FITTEEN COWS AND HEIFERS, expaby Mork dul, ooven hue



Greenwood P. O, and Telegreph offlice,


17 mnexyounas SHORTHORII BULLS
 BERKSHIRE BOARS AIID SOWS FOR SALE $\underset{\text { Claromont station, O. P. R. }}{\substack{\text { Clomer } \\ \text { Plokerling Station, G. T. R. } \\ \hline}}$ River Bow Stock Farm. B. SNARY a SONS, CROTON, ONT., horthorn Ont 11 Poland-Ohina and Ohester White Swine. Vooffer for sale seven good
young bulls. from seven to
welve months old ; eight
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Seven red and three roan, from 10 to 16
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THE HERD HAS PRODUCED
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damm. Some splendid Leicester ewes and rams for | sale also. |
| :--- |
| - om |
| 8 SH | 8 Shorthorn Bulls 8 Red and roan by bed Mitagrant met st. Ebolss. ont.



7 - SHORTHORII BULLS - 7 SCOTCH BREEDING.
sowthy ones from 5 to 15 months, Also an
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\begin{aligned}
& \text { Good young bulls of Scotch breeding } \\
& \text { and a devirable lot of heifers or rale. }
\end{aligned}
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H. K. FAIRBAIRN, Rose Cottage Stock Farm, Thedford, Ont., 2 SHORTHORN BULLS 2 SHORTHORN BULLS, one 3 years old and
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of work horses have been exportod to the lark

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hons on mocount of his wide aequaintance







horses
year
(880)
also
als




 again due in Augusist ghe eight yeing old and
 year-old cow, with immense milk ,our











 promsing young thinge are on
grent many cowi are yet to calve.
AYRSHIIE CATTLE of the moot fachionable and


4 HiLTEII-FRIESAM, BuLLS Apm Willam Suntring serniggille, ont.

 Omanser Trez of Bacor noos Oak Lodge herd of Larg Yorkshires mokity





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Herd headed by four first prize stook boars of
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waid or Howne whte eaged bine








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 For Feeding to Mlloh Cows-Noted for its wonderful Butter-producing quall-ties-Of fine shape; splendid color; a very heavy cropper and easily harvested.

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