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le Farmer's Advocate.



Vol XXXY
LONDON, ONT., AND WINNIPEG, MAN., Al"(il'š if, 1900
No. . 0 -

Politics and Xewspaper Postage.
The Fammer's Abrocite never has and does hewspaper postage. Being business enterprises, it newspaper postage. Being business enterprises, it for the service which the fovernment renders in Gurying them from she portion of the country to another, though there is room for fair argument that they should be encouraged rather than discouraged, on the ground that the public is advantaged by the spread of knowledge. We believe that the public business of this countryshould beconducted upon business principles, and it would great v simplify and lessen the cost of the conduct of pubic affairs if governments would not only do that. but curtail rather than expand their functions, which latter seems to be the patronage-creating fad of the present day. Prior to July 1st, 1sirg, papers had been carried free through the Canadian mats for a considerable period of time. With heir increasing circulation and the increasing bulk of a good many newspapers, in imitation of the ponderous and trashy sunday "yellow" journals of the I nited states, the burden upon the postal department at last became simply intolerable, and the Postmaster General of the present (anadian with the subject and the result was a bill whereby papurs werecharged of a cent per pound forthe first ix months of last vear, and thereafter a a cent per pound, except thosecirculating within a twenty mile adius of the office of publication, which go free. in case of papers located upon a lake, their zone was measured t" miles on one side of the office. This mother, was a sop to the country weeklies and the infortunate political price paid for getting the measure through Parliament, because we believe the riginal intention must have been to treat all alike t incolved taxing the journals of greatest merit, cirblation and influence.for the benefit of the littleorgan or the comery.
 tion tor large numberof enterprises, hat the foe run of the countes. To the Faramis
 flea hite, and no relief from the unjust imposition of the hill. Edited for the imporement of ath mor and ai -uperion merit it- virulation extends. nat mally. not only into every part of the Province Ponimar Mamitobat, the Nom thwest, and Britioh Columtia: also very generally through Michigath,
 and hent Britain. Australia, Xew \%ralamd, amd Indid.ore well as sereral bumpean comentries: in
 UPE B He received and highly prizal for it help.
 ancoment wi this sreat induster and if the whon the homwerge and -timulus impated to the public

rature is "franked" at the public expense, doubt less on the ground that it contains information for the public
The $\leq$ cent per pound rate having been protested against as onerous, the Postmaster (ieneral at the session of Parliament just orer introduced an within the provinces in which they are published ! of a cent per pound, while still charging half a ent per pound on those going from one province to another or out of the Iominion, and as we unlerstand it, leaving the $2(1)$-mile zone still free, so that the ADvocate would have had the small free area, the provincial $\frac{1}{}$ of a cent per pound rate, and beyond that the $\frac{d}{d}$ cent rate variety enough, in all conscience. The House of Commons passed the bill, but it was thrown out by the Senate bolily, for they could not modify it, it being held that an amendat the power to amend, they should have roused themselves a year earlier and thrown out the origihal measure. As a result the old injustice is still perpetuated.
It is lamentable that the postal administration that has shown such commendable energy in many he two-cent letter rate boon and Imperial penny postage, should be marred by a retrograde and pety newspaper postage policy

## Summer Institute Meetings

Our first meeting was held at Russell at sp. Im. Between 7 and 8 oclock it began to rain hemes This we were more or less for over three tirst in in we were given to understand, was the are rather late on that acous erops in the locality poorly attended ahout 1) heing persent Mn ley Butler, instructor in the Dairy School, in the course of his remarks, unged the farmers to wive more attention to dairying, and predicted that it mould eventually supersede wheat-growing. If farored winter dairying as affording the hest man ket. The process of buttermaking was followed The use of the separator wisen as to each step. matataing that the cream seomed wats one thime more than by the deep settingsystem. This cream, bowever, would have to be coobled to for and degreve or it would ripen too fast. The dempedting can setting cans are noed at all, the (ream should setting cans are weed at all, the "ream shomal of at come at the (one erment bains school weme ing to feecomerammantal with the hest mathowh meefing on the sul jeot of fromit wom ing. If laid down some semeal principle th be wheme.... and







brow these fruitep and or andee sever try te borer got into that stem the bust would be killed outright. Currants and gooseberries should be planted 4 feet apart each way. In planting out red caspberries always cut the top off the plants. These might be allowed to thicken out to form a row of stalks, is inches wide, moperly pruned, but the suckers should be kept down bet ween the rows. In grown in Ontario, there is not a single variety now grown in Ontario that is any goocd atal it ini advised to select a tree of the native plum which bears superior fruit: mark it during the fruiting season, and in the late fall take out cuttings of the
surface roots for setting out the following spring. The planting of pits gives no satisfaction, as the seedlings nearly always turn out to be other and poorer sorts. The growing of crab apples has passed the experimenta stage in some parts of best. The speaker found it necessary to wrap the ing. A vote of thanks was
the close of the meeting

This was a lively meeting, with some good dis
ussions on creamery matters. Thout thirty wert present.

After waiting till long past the hour, we started present. Complaint was made of the brief notice received regarding meetings. The usual subject vere dealt with by the speakers, and good interest was manifested. strathol.лir.
We had also an attendance here of fifteen, but it was claimed that double that would have been present had more extended notice been given.

Sfter waiting an hour and a half, we comeded ath tendance of one, so andience and speaker ad hurned to the creamery, where some good objer his point can only be attributed to indifference in he part of the farmers

I fine meeting wats had here. over thirty-fic buttermaking were thoronghof rone into no endud thestions beng asked and answered Th. menting shaving had it pofitathe amb interesting fome so to grealle beoneft be the fine rain that fell the so to grathy bemefit

Onacomut of it lu-ing holiday (lominion laty
 lait se.ed amberne kathered in the crening at the


 than thar furthe smoth, ompe of the lating
 Wr. ham athonhmiatir moethy at this place


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The ARMER'S ADVOCATE and Home Magazine. the leadiva agricultural journal in the dominton:

the willian weld company (Limithd<br>Eastrras Officr:<br><br>Strand London, W. C., E. urland.



Benefits of Humms and Clover.
iom an interesting and valuable address on he growth of legumes "before the Natural History of the Dom. Exp. Farmi, we clip the following ex trats as being of special interest to our readers where:
plant food in soils, it is de simathe that I should cat your attention to the importance of humns as a soil
constituent. since the method of employing clover as a fertilizer is dependeyt in a very large degree ties of this material to the soil.
 tor of nitrogen, which elemen is the most expen
sive of atl phant foods when it becomes necersary 2nd. It furnishes the food upon which the soil micon-mganisms live and which, hy their life funt
tions-
 minetal then comsthmet- Thesere in the further
been noticed that the amount of humus presen of the amount of organic nitrogen the soil possesses. disappears the nitrogen goes with it. Cultivation air, as by our ordinary farm methods with the plow, harrow, atc. - tends to dissipate the humus, and, as a natural consequence, to decrease the nitrogen. Soils growing grain exclusively, year after year,
lose, it is stated, more nitrogen by this humus oxidation that is removed in the crop, and this loss is greatest in those soils which are richest in nitrogen. At the Minnesota Experiment station it was determined that for every prounds of mitrogen a number of years) 140 pounds of nitrogen were lost due to oxidation of organic matter.

In 1 sir, eight plots were sown with grain, four pounds to the acre, four without the addition of pounds to the acre, forer in October of the same year the crop of clover was turned under. the adjoining "no clover" plots beng plowed at the same time. The grain own on these plots were : Preston wheat, Banner without any application of manure, was sown in
Is!s with Banner oats. Regarding the appearance of the growing cropson these plots, Dr. Saunders speaksas follows: "The difference in the growth able, and as the season advanced, especially just
hefore the heads appeared, the difference in height and vigor of growth in favor of the plots where th
clover had been grown was very remarkible. clearly was this manifest, that the difference would be distinctly seen at a considerable distance, and the ontime of those pots on which no clover hat ly shorter and less vigorous growth. After the grain was fully headed, the difference in appearnce was not so clearly seen at a distance, but by careful exammation conte cut and threshed separately, and weighings made of the grain and straw from each plot obtained. The results show an average increase in
the vield of grain from the fourclover plotsof the yield of grain from the four clover plots of more
than 11 bushels per acre over that on the plots on which there had been no clover sown.
To ascertain what natural value there might he from the clover the second year after plowing
ander, these sime plot, without the addition of any under, these same plot, without the addition of any
manure or fertilizer, were sown in 1s. sury harley. Again a great difference on the plots
that had grown clover in 1sid was noticed, and the harrested result showed the average yield on the four clover plots orer that of the four "no
clover" plots amounted to almost nine bushels per acre Another experiment in which equally striking and important results were obtained may be de
scribed as follows:-In
lisid other and uniform as regards size and character of
soil were selected: Xo. I was sown with barley and soil were selected: Xo. I was sown with barley and
agrass mixture containing clover seed: Xo. Wats similarly sown, with the exception that there was crops of hay were taken off each plot. In the spring of 1 shi they were plowed and sown with Ba-
 the plot which hat grown clover over that on the plot sown with grass seed only. This increase was mase hy the decay of the clow- roots only, for in
fise two crops of hav had heen taken off.

## To Encourage (iood Breeding.

sul: Letely here has been mum h discussion in the
 as this is an old matter, and practicallo ont of an there is hardly any use of my reopening the gues tion. At the same time I would like to pase an improve the stock of the country, hut as to the srruh stock and the breeder of them.
Iam tat her of the cpinion that the (: I', R, womld the stock farmens and cattlemen had the interest of a tarift discriminating agatinst the expertation of scrub-hed aatle. The distaict in which 1 live so one Several of the farmers here have gone to some ex. pense in importing pure-tred sires from Ontario. the hest of their herds have hoped to ratse such is Maw of catte as would. when put on the market as mof. fot h mome remmerative prices than hat paid
the luyer pays the same price for any class of catt for the farmer who is interested in good cattle to invest his money in pure-bred sires.

The scrub-raiser must be forced to improve his stock, and the him in price. so that he has either to improve his cattle or have them left on his hands


## The Best Bacon Hog

 al Furisdale, Igriculturist of the Experime Agricultural (ommittee of the House of Commone during the late session in referring to the best breed of hogs for hacon purposes, stated that while experiments had not been conducted at the bixperito which were sathestreeds and crosses to produce long side bacon, his personal opinion was that the Torkshizes and Tamworths and their crosses, and the new Improved Berkshites onot the shomtBerkshires, of which there are toon many country, are the best for this purpose. fed, on account of the tendency, which this breed has torise on the shoulder. Which spoils the fong side. He had had good rewts with berkshire and croses had not given pood results. He considery
the Tamworth and lorkshive as the hest cros.

Does the Bare Fallow Imporerish the Soil.
that the soil loses largely of plant food ats at resent of the hare fallow,and the system of summer fallowsecretary of the Farmers Institute Portage la Ohio, shutt, aking fo his opinion Following is his reply, which will he read with general interest:
by Mr. (iould, of Ohio, are in the main ceferect though their interpretation for any soil or localit) must not be undertaken witfor and The losses spoken of refer chiefly to nitrogen and humus: the mineral elements of plant food potash, phosphoric acid and lime would remather the soil were bare or not. excepting those amomets, of course, which would be withdrawn ly the crop were there one growing.
Soil nitrogen must he converted into mitrotos beprocess of nitrification froceeds during the stmmen months, and the amomit of nitrogen so converted into nitrates would to a considerable extent depend upon the conditions of moisture, temperature amd
character of soil. Now, the nitrates are ly soluhle compounds, and consequently may be largely washed below the reach of the roint of the
succeeding crops on entirely leached away if there is no growing crop to appropriate them, and reason that "Catch crops" are sown in the autumm in England, and might also be employed in many it has been eated by a pronninent agriault mist in England that the soils of our Vorthwest lose their mitrates considerably from this cause, I very much
doubt the correctness of the statement the dryness of your winters. On this point we are now conducting a series of experments.
prohathy be a year or two hefore we ate in a position to speak definitely:
Of course like any other operation, fallowing it is quite gnestionable whet her under a good sy:tom of rotation and hetter manuring it will he a necessary for eastern farmers in the futures it has Teen in the past. In Manitoba and the Aorthwest fatlowing appears to be the storing -up of misture for the crop of the following vear. In di-tricts
where the rainfall is sparse the guestion of the coll-
 impmetence 1 amalso of the opinion that fallowThy does at quod work in promoting nitritication. heing los to any extent during the ensaing winter losc of hamms and nitrogen by a process ikin to and ofntiow combustion when land is kept hare Comprisecopping with grate and failowing alter soil is graduall- hexime a pmotion of the hap thet


 humbi-whinderayed rese athe matto
（：arberry Fair：
 fine，with the exception of Pather high weather was what dusts and disarom，dab．Which made it some－
 Was very sutisfactory．The exhibits in the live－ stock classes were fulty up to the a verage as were
also most of the depatments in the main building： so that，uron the whole，the fair was most satisfac－ wry to exhibitors and managers allike．Is nsual Carbery Plains are well known ats one of the best horses being well West，both light and heavy were judged by Thomas Kelly，of Brandon，and the heavy horses by Alfent Chambers，of Watwanesa，
Do complaints regarding the awards were heard： in fact．there did not appeare to be roome for any：
The single－indre sise The single－judge system is strongly to be com－
mended，and shouli be adopted at all fairs，care being taken to get competent men from outside
districts．In Thoronghbeds．Mr．R．Futon，of and was awarded tirst mize Dr Shaw had it fow， entries in this clase，and R I．M．Power was first in brood mare and final
statlion was awarded（liss）Dr．Henderson＇s pacing first with a very good style of mare and foal，and Dan Mc（aig showed a ver nice yearling．In single Mr．Dunsmore，of Franklin，second．Fom Roadster teams competed，（iregg－Barret＇s winning first，with
W＇m．Henderson，of Wiawanesa，second．very handsome little saddle heath helonging to（ivegg．
lbarret won in a fainll
 In the Corch class，W，Mo Caig Was a warded red
ticket on Ryshawk，with Mchenzie，of Brookdale， second．Three carrage teams competed，Arthur Mack，Carberry，wiming first，and R．S．Fulton，of under lif hands，came out in the carriage class，
Alex．May winning tirst and（C．Trumper second． show the dydesdale class two aged stallions were outstanding tirst，with Woodbine Prince，owned by Hugh Stewart，of Arden，second．Dr．Swenerton Rosemont a son of loung Mict in the twon，shar－old fettle，but without compretion．W．Bailev showed mare and foil classes．There were but few entries only brood mare and winning cocoud onaving the R．Smith fisst，both foals by the Clsdesdale Prince of Wales．The principal interest centered in the
teams，in which the compretition was strong，and teams，in which the compretition was strong，and
many of the entries of special merit．Three agri－ cultural teams contered，and were placed in the and M．Craig．Two magnificent heary daft toams belonging ti Rober bodds and J．©．Humiston purpose teams competed，tirst going to a pair of second to a pair of greys belonging to．Iohn（iithson， bumber of good teams were left ont of the preckes a The eattle Were indged hy Jahe Elliott，of Bata－ Aon，amb Mr．Hall．of Cambery，The entries were was mado up，in mality the the presonce of at strong

 Over Aord Stanley，who wa－－hown by Allan（irant． the rest of the clas．s．the wntries all being in fine fit． peg Industrial report，nothing further need he satid egarding them here．In illam Ramon，of Cablary， Atkin a few female of thi－hoed．The grate catle
were good，what wa－of them：（ieorge Hope win－ with cows of revy fredial merit
 The exhitht of eraill wa－mont mentitable，there






with the exhibit as a whote the arepage contes were Johner（iorrell，Mrs．Thg the principal winners Mrs．D．A．Reynolds，and Mrs $\mathbf{W i m}$ ．Rowe a pood programme of races and special attrac tions were provided，and doubtless helped to dratw

## Portage la Prairie Summer Fair

Portage tan lpaxire and Lakeside Igricultural Society was held on July ith，Isth and l：9th，at stock exhibit the best that has heen turned and the Portage la Praitie for a number of years，Fivery
thing，in fact，went off surcessull， thing，in fact，went off surcessfully，except that the
attendance was not as large as it should have heen In horses，the exhibit was large and of part iculativ high quality throughout．
very large．IV．（i．Iatle won the sweenstakes of heavy draft stallion，James bell second．James three of his get．David Iatle won the sweepstake for the hest mare，any age or hreed． winner，showing a number of good was the principat Lytle won with a very handsome．well mateched team． $3,2(1)$ lhe and ove
In the agricultural classes the competition was
keen．F．H．Muin won firse on le keen．E．H．Muir won first on hrom mare Thomas
（iibson second．For three－vear－old fill：Mohn Bre don first and James（iibh second．Two yeatold James leytle first and James（iibh，seconid．Yeal lings，John Rose first and James Mr－kiemzie second
James Mc Kenzie won tirst on foal，with Fi．It．Mluin second．On agricultural teams，sim or over．Thos Wallace won first，Robert Hocowan second，and Brown if Carruth third．These teams would do credit to any showring，and were show in splendid
condition，and were well handed．In renepal condition，and were well handled．In genemal pur winning out，with W． $1 \mathbf{C}$ ．Caskey secomel，and M Howie third．Of course，a generail purpose class is an almost impossible one，for horses of many types type the judge considers the general pumpose type The principal winners in the single entries of this fors were John Brydon，R．（raig and Robert（iib） year－old filly or gelding，Yuill l3ros and I．I．．．Insley were first and second．T，I．Bell was tirst on two sear－old：John Wishart in the warling section． were judged by Wim．（harlton and IV in．Fiduard The light horse judges were T．J．Charlton and Wohn Simpson，Poplar Point In the light horse and standard classes．F．V．Kilmisten won first on aged stallion，is．Shamon on three－yearoold stallion，and also on threegear old filly．（harle－ In Standard－hred and mare or gelding to harness In the Roadster class the competition was prety First，V uill Bros：Second．II m．（iray ；third．Jas third，and I．I．Insley second．Two yearold dames Dalzell first．H．Kirkwood second，and If： Robinson third． vas a st rong clais．F．Fi，Suiden wimmint with
 of Roadsters John Ros first In the opeeriatoprewed
 thind．

 Was sown in good form．Jame Mrenem was firat
 order named on yeatings
 Pair in hathese the entriw wore atowe the onerase in number，the compertion hering keen in the．Shent 11．Brown，and Thomat Wallan womp．．．．pmemted． of Midalechmon，with atitachion wall Isomen 1．Mdhurst wa－an ary firet in the ．new elat with

 aman wind

and phmpest calves we have seen out this year． third prize went tocond with a real good red．The bull． by Simpson，of Poplay Point Ingus were shown shown Syon，of Poplar Point．Avohires wete Competition．＂xacept in bull orer three vears，in stakes．I Whehster showed won first and sweep． in the Holstein classes，showing several particularly frood things，all of which will be poparticularl Winnipeg Industrial，his imported hull calf，＂Chief Mercedes
mention． except for milk cows，when eleven good animal lined up，the first going to（＇harles Braithwaite．the The dairy cattle wer
（h） lameep were judged by George Tidshury and dion in the various breeds representeal Topo heicesters：of Oakville．showed some very grod arrioch，Shrophires，
Berkshires were the only breed in which there Chester Whites；James biaw，Yorkshires doh Jones showed first prize aged Yorkshite han：I＂ Brown being first and second on I old，first and diploma on aged sow．William kit son，of Burnside，was first on pair under a year，ame batr unter six months，and swepsiakes on hat was first on sow and lither and on sew．Boww months．J．A．Fraser was first on sow under two fears and under one year．These classes were ndyed by I．Mchenzie hibit：the prizes were pretty alemly dishod ex among a mumber of exhibitors．The show of grain was very small wht What there was of it was of first and second respecticelv for the specibl were by the lake of the Woods Nilling（ $o$ o，for simerel if lied lyyfe wheat．Yuill Bros．were first on six owed harler，and William Dickson，of（irenfell．on oats，and I．E．Mellon on black oate bo whic fine sample of timothy was shown by H．Ugittree Wimming first：Mrs．M．Cuthbert winning first nhome grass secd Garrioen won first on hax irst and Rubert Mctowan second for collection of Wrains products were judged by bairy Superin－ large exhilit，the qualit y wo rod thrumbent aromes rumning high．This wis the titst time that the Prore ward has heen introluced at the Portage la rairie Fair，and it gave entire satisfaction，every ghide them．The principal winners in the dairy Monses were John Rrydon，Hemry Kirkwoed，Mac onald Mrs．Win．（uthbert，Dustin：II Ggiltree kobinson，（akville：and T．I．L．e．In en of these conod low were then（n）points． hery latge and excentemt exhibit of homemat Lake of the Whods and Grilvie Milline Gumper The hortionttural，dairy，and grains，atoo the fine arts and ladies department worawommondated ift the hopeed that hefore another year this soriety the ondest the Province will tw povided with a int I land Daist

Dates of Nommer Fairs

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| Some little time aroasmall wouden bex omtain－ tal little pinco of dry lwige．＂pon which <br>  be mail without matme of sender or any <br> Wi．hatw pationtly awaited＝ome ex Wht lwobtained reqardinet the |  |
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Subsoil Packer，





How to Raise a Nkim Milk ('alf. Sun with the wow produces a goond one the kind feeders want :and the daingman must provide. as nearly as posible the satae conditions for the calf as it has when with its mother, and h produce the calf demanded we the teeder
The cow feeds the calf often. and milk that is
what wem hood wam, Sween and fer fomm germs. Leate condition and her milk all right. This gives the aif the same tratment at the start that he gets if
he is to stay with the cow all the time matil weaning if the cows ndecer i, had and feverish, rub. Fet fooll reduces the swelling and soffens the from the cow, the best results are obtained by feeding wam whole milk three times a day two quarts in the morning, one yuart at noon, and two quats at night Stwe this the calf with do wedt if fedonly Nt the chit of thee weeks, beging to get the calf on skime milk, hat do this gradually. The first time take out half a pint of whole milk and put in its
plate half a pint of skim milk: the second feed use place halt a pint of sim take ont a pint of whole at pint ot
milk Thi methol takes ten days to change from
whole milh to skim milk. Increase the amount Whole mitk to skim milk. Increase the amomt membering that ten quiarts of skim milk is a full feed for a calt five to sid months old. warm. Foed toth whole milk and skimolk at his temperater is
whenthe chatf ite or six monthisold.
The wows milk contains all the materials needed


heed. Milk pails and cans hould be washed and scalded. the same as if the milk was intended for
the table. For scouring, give one tot wo ounces of castor oil, or. if the case is had, ten to fifteen drops of laudanmm a day, until the tronble is checked Change feed
Finally, remember that the calf is a batberand give it the kindness and care due every haby: The hetter a calf likes you the more it will gain. Pet it. it warm in cold weather and give it cool shade in summer. We like a shed open on all sides for summer shade as this will protect from the sun and hllow the air to blow through freely. The College has a harge stone harn with hasement. but we found shed than they did in this harn. The hasement was not as well lighted and ventilated as the shed.
Flies often annoy calves so that thev donot gam Fhiesoften amoy calves sothat they donot gam mology of this station furnished us a formula that we used on the calves in this experiment at a cost of
one fourth to one-half cent a dav and kept the tlies one four th to one-half cent a day and kept the tlies
off. It is as follows: Pulverized resin, 2 parts. by measure: : soap shavings, 1 part: water, part: tisis nol, 1 part ocil of tar, I part : kerosene, 1 part : water 3 parts. Place the resin, soap shacings part of Water and fish oil together in a receptacle and boid wall the resin is dissolved: then add the 3 parts of kerosene. Stir the mixture well and allow it to hoil for fifteen minutes. When cool, the mixture is
being applied.
From one-righth to one-half pint is sutticient for

Summer Treatment of loung and Breeding Horses
To know how young horses are cared for at such hoted studs as that of Messre. 1). (1) (). Sorby cery great evception, and the finest class of stock the rule, is valuable information to anyone attempt ng to rear horse stock. During a recent visit to
the home of this firm. we observed many point that are worthy at least of consideration, if not emulation. First of all, we observed that all the horses. Whether mares and foals. yearlings or
horses of other classes, were housed during the day horses of other classes, were housed during the day
time away from the sun and tlies. This is com menced as early in the summer as the tlies begin to torment the animals. They are all brought in be fore the heat of the day commences and again turned out into roomy and rich pastures about six stalls, as is done on many farms, but each animal has an airy, light, well-bedded brick box stall about is feet square or larger. The fact is, there is not a
ingle horse stall on the farm, the three substantial roomy ranges each consisting of two rows of boz italls with a wide passage (10 or 12 feet) het ween Each stall has a water hox supplied from a spring well by windmill. besides necessary mangers fo
feed. Whatever the season of vear. these are the quarters in which the stock is foused, and seldom day passes at any season when the amimals oung or old. are not given their liberty in a field or romy fenced plot. At this season, two of the
stallions have access to these plots during the mights, and the third stallion takes his exercise a ew hours during the mornings and evenings. I ill well informed stockmen understand, plenty of
pratins to take the state of
the huter fal taken ont of the milk staren sint not he used to support life. outil it hat heen changed
 Gomomshly the grain is masticated the better it gomertion of starch that will be changed to sugarhat,y calf and it will chew and whew for a hong fime ons smath mantity of the grate, gettimg the spaill with the wilk and it is quickly aden and ot that it can be used by hlowe the calf mo grond. bimging on indigestion
harge painters hows. It first it is well tomake an Afterwads an application wory other day will to proted the contire amimal, hat omly those pato not reached hy the head or tail. It is perfocetly sate health of the ce has it appeated detrimental to the Farmers often object to the expense of hamaling calves int the way we have indicated it does mot take much time 'Two hours a day wasall the time part of this time was used for tah ing weights and letion wo are feedins forle time of writ ing thi- bul intu five lots. and dath lot fed a difterent way it take-five hours day while if the were all fed
alike, and cach feed dad not have to be weighed. much les- time would the needed. It does not take
muth mome time to feed at skim milk calf so that he will gain two permend a day than it hoes to feed him on that huw will become is rant, but it dur take

$$
\begin{aligned}
& \text { iment herw- han where wan be easily } \\
& \text { on mith and ted amd hamded so that }
\end{aligned}
$$

$\qquad$
require but litte attention, and their feet go far wwars taking cate of themselves. but during groomed tirequently, if not daily; and their hoots are dressed in naturat, level form, as their condition requires. The object from begimning to end, as it more especially with pure bred stock, is to treat every animal every day in such it way as to develop
the very best that is in it, which is atcomplished only by a close observation of the laws of breeding and feeding, systematically followed with intelligent

As to Conserving Moisture
Whe conservation of moisture is aproblem Which might be of advantage on one variety of soil may be the reverse on another. The pesent acpossible after seeding, and then keep hamrowing at summer. On soil not liable to drift, his system un doubtedly prepares the soil for an effort the following season, by keeping the soil moist thereby soil plowed later. When the moisture was evapoBut we have thousands of acres now on which effects of it the fiber is all used up and as from the ly it drifts with the least hreeze of which lint think quite a few of us have abundant evidence this summer. The conserving of moist ure in the sum-mer-fallow sometimes is of very little use the fol-
lowing season, so far as moisture is concerned. Tise for instance. the spring of 90 , when mostly all soil had too much moisture, so that the only ad vantag. obtained from the extra cultivation of the previous plant food. Again, take the present vear I have in view two fields of wheat lying alongside each other: loth were summer fallowed last year, same sort of soil: one was gang-plowed two or three tokill the germinated weeds during the summer, and then plowed six or seven inches deep before harcest ; harrowed again several times before fall; was
carefully drilled in the spring, resulting in a wery carefully drilled in the spring. resulting in a very
fine stand of grain at first: now there is only an odd head of wheat to be seen in a mat of weeds. The other field was plowed once (about midsummer) and harrowed once or twice after, resulting in at
least twice the wheat and less than one-half the weeds. I do not give this example to show that one system is better than another, hom merely to
thow that conserving moisture in the summer fal show that conserving moisture in the summer fal weeds the following seation a 1 think it will be geenerally conceded that land is at its hest for resist ing drought when it is sufticiently pulverized to lie close together after breaking that is before too
much of the vegetable matter is nsed un, and before much of the regetable matter is used up, and before
the subsoil gets too hard, which should clearly show hat the more regetable matter in the soil the bet er it absorbs and retains mosture: consequently. f we kept the soil supplied with vegetable matter erishing it. K. Nl IVER, rishmy it.
Wallace

## A Handy Wire diate.

Oo the Editor farmer's Aworatr:
I enclose a sketch of the form of gate used on hearly all batred wire fence in the Whet. Ascomgles. and gets under the horses feet. It can never open. It has only two redeeming features: it is quickty made and cheap.


Some Sugrestions on the Harrectine of C'ultivated Fodder C'rops.

The quality of fonder of all kinds deponds vee hest of ane curing. I- the different kinds of fodder plapts, in cluding grasses, vequire special treatment, no fixed to thoro to thoronghy cure the crop and at the same tme easily accomplished with such grasses ats Weester rye and timothy, but such succulent plants as fod der oats and hrome grass will in ordinary years $r$ If grasses are generalls fit for harvesting first will begin with them. drought, will be small throushout owing to the Province. For that reason if for ao pher it or the be preserved in the very hest possiber and notice that the prevailing error committed by the average farmer is to cut tmothy too late in the stance not at all equal to the early cut, bright sureen article. Timothy should be cont just as seon as the head is formed, allowed to wilt slightly in the sum be opened again the following morning aftes cat dew is off if necessary. If the crop is a light the the portion cut in the early part of the day will the sufficiently cured without this second spreading out a bright prem color. out a bright green colos
next fodder plant to matureand is as easily cured as (imothy, and the same system will suit it equally it is specially important that it he cut carly, other indeed.
Alonless Brome Ciratss $b$, incomis is one of the most difticult grasses we have to cure poperly
IIts large sappy leaves and abundant undergrowti retain the moisture so long that it is often stacked in ter a bad color and verv dusty. This plang the winery heavy crop in an arerage seasomamd it will be foumd necessary to turn the swaths. or, at least, I haven no dould that the sum may penetrate them. ingly useful where lame areas of this exceed grown. (ienerally speaking, Irome grass requires ured. If exposed for two days it should, if ponsille, be bunched the serond evening and opened again for the third days exposure We have found it compactly and does not permit of the air penetratng. differing very much from the timothy and
 mixture of Brome and western rye an improce ment. Tests for the purpose of ascertatining the on this farm.
Willots. Owing to millets being verv susceptible
ofrosts ther reguire cutting during the middle of lugust, and besides. millets ane often injurious to
animals when fed after the seed is formed. This mimals when fed after the seed is formed. This and at once placed mider cover. Allhongh a smail thatntity of grit is usually foumd in millet crop, if ting with a hinder Nillet lies very compactly in the sheaf, and it is atmos imposible to come it cock for a day or so the Millets, can remaing in the of the grasese now come to the fodder plant des thed to he wir primepal dependence if it were









Ge the straw, and the cattle will सtwelily ar buth
 the "oara bly
ate wasted.
hent fodder is heing grownes each yeare of this exceleasily obtamed, the yield is large and the fodler, if moperly curect, is much apprectated by both catte
and horses. To what the maximum amount of nutriment it should the cut iust at the top kemel en the head is turning brown. The sheales should be made as small as the hinder will admit and as
loose as possible, otherwise the heal of that will become mouldy and of little nse for feodine purposes. The sheaves should bo stooked immedr ately after cutting and allowed to remain motil considerable time. The in some sasons will tate overcuring, ats only the ontside of be lithe danger a bleached, but if starked too soon the result will lo disastrons. We have found that mice are ver much injury in the stack for that sentom sufticient for al cuttingr should tee drawn into the harn at one time. While referring to the harvest Ing of oat sheares I would like tor call attention t. the great advantage in using a cutting box. II ting oat sheaves is practically nil, while if fed whole there is always more or less thrown out into the bedding. Then, again, the cut sheaves lend them
selves readily to mixing with chopped nein, enses readily to mixing with chopped prain, Thotdayer of cut sheaves in a long.shallow hox. sprinkle On these the reguired guantity. of chopped grain
ooots or ensilage. This is then mixedamd nto a corner, where it remains for amper twelt four hours before being fed. This makes a satory mess which is relished by all classes of stuch.

## Preparing for Drought.

The necessity, on the part of dairyme of regulaty making provision for a supply of green drousht which anem the pasture in the perionds of drought which almost certainly come in some by a correspondent of the .j.rac!/ $\mathcal{B}$ ullalut in the ollowing sentences: Today the owner of dairy cows who has mot Today the owner of dary cows who has now rought is almost at rowstack and shock pil. Whom winter maintenance of his dry cattle. The drought is every it as sure to come als the winter. .han
winter, it is variable in its severity. In some par ticulars its effects are more disastrous that the ffects of winter, because cattle can withatand cold Wetter than heat and hunget
The shrinkage of milk consequent on the drought he regarded as the prime injurv, bum it is is apt the effeet of a shinkage of milk from the drought is gradual, but permanent. It contimues not only milking capacity of the cow is never afterward what it would have been. This efleet is ceperciatly njurions upon heifers in the first periond of lactat ion t tends to shorten their milking times and the "onfirmed hathit, lasting through life.
The effect of the ammally recurring drought is etarding the development of whole herds of cows arery gar there is more or lese of drought hromgh rgions where the dry epell dow the reath into : difliculty satisy themselves. That cow- can with limited and the years so few that are not drought atfected. That it is the part of wiatom tor prepare win with the sime ragulatly that we propare tom It is nut tow late in some. Werions to make. the todo is easy to tell and how to. do it mot dillicult Ghe apart a liberal allowance of lamd, IWrulated be
 Homeratian amal pas orghom. .o.n para millet. in time and furnith at laghe - reply of palatathen and
 all the. The hay mow or the shatw will take gate of dav hang the drambht twenty tome home neate

Mr. Ruldick at Montreal
$\qquad$



Our Neolfinh lefter.
The tamsition -tage in scottish ayricultur
through which we ate at prosent passing is trvin many usuages and methemis which had become hoary and vencrable. The keemess of competition amongst the time-honored institutions about pass away is the milkmaid. In the south the milk matd is unk nown and the milkman has take mon place, but in not a few districts both milkman and milkmaidare awanting. In this stress, mens eyes and several of these are on trial at the recent show of the Rogal at look. but the jurors declared that neither had sufticieney of merit to warrant an award being made. This is保 is in constant use on farms in the west and sonch west of cotland teat by steady suction, and is thus dewoid of the pulsating mowement which accompamies the operak fions of the calf. This machine was awarded firs prize a few years ago after an exhaustive trial by the Highland and Agricultural Societs, and there he reports of the jurors that relatively the decision was somnd. Whether the atssence of an award at the Royal. York, contradicts this is not known, but I should think it does not, for this reason: A wow celative merits of the competing adechines. where as the award at the Royal appears to have pro ceeded on the assumption that the judges were to make an award based, not on relative, but on absolute merit. The competing machines both in ingenious pulsating motion in the teat cup which gives very much the same result as the intermittent
suckling of the calf. ['nfortunatelv, to obtain this suckling of the calf. Cnfortunately, to obtain this
motion somewhat intricate machinery is neressary and while this is ingeniously contrived. it also nakesit difficult to thoroughly clean the milking apparatus and tubes, and consequently the milk
drawn by this pulsating machine was found to be of indifferent keeping quality, What really condemns these machines is the difficulty of keeping the mechanism clean, and although they embody an idea, until this difticulty be overcome
not the ely to prove an umpualified success.
sell established as a feasille itleal, and the fairly two trials of such machinery at Lork. Both a watrds went to one house, the classitication being for
machines wrought by hand or foot and machines nachines wrought by hand or foot and machines
wrought by mechanical power. Such mechanism is ikely to he pretty well known in Canada, and need not be written about in detail. So far no one has bower to purposes of agriculture. Judging he what Was seen at York, this is largely due to the fact that too many thingsare being attempted at first,
and consequently the machines are fright fulty: and consequently the machines are frightfully vas so ungainly and unwieldy that it is far removed from the arena of commercial success. After all. there is no pressing need for undue haste in the agriculture. The motor-car is very far from being commercial success, and white no doubt the day is coming when the guick acting economical motive power of electricity will he everywhere employed,
the slower going then who wait tintil they are able to see such power spelling success in a commercial
sense will be the first to give it undivided support. sense will be the first to give it undivided support.
A fatal blunder hats lueen made by several agricul A fatal blunder hat heeen made by several agricul
terat engineers in phatimy new mathes on the market embodying excellent ideas but by no means genuine trimmph of such imventions. There is luck in leisure here as sheep breedescifom all quate hede an inter consmbed regarding many prints of interent io the ir calling, the ir great ideat being todosomet hing
to prevent fraud in connection with the ato to prevent frad in comection with the sale and
expmotation of sheep. Some forequ and colonial Spokem imdtated a fort that at tuyer dot mat

Ecomomical Itorse Raising for Farmers.
The wommir farme wha has sutticient work th do to justity him in keeping horses for that purpose
is the mam whon can raise horses most economically. and with him the colt is a by product, a net profit in the transation. If a farmer has work for four horses he can aftord to keep five mares or for two of whaterper heed. Aet them be good usefulanimals and of good disposition. He should mate thes with the best sires of the same hreed in the vicinity and should got the trouble in connection with his company or some other waly, the selvices of a suit able hoise in that neighborhood. He can use his mares right up to the time of foaling, provided they are put at ordinary farm work. They are hee used during the summer at ordinary farm worl: and with proper care he can grow the kind of a horse that farmers regmire. If any one fails to produce a ant in the spring, hee can breed her for a fall colt with the kind of horses which the markets require A good colt, well hred and well cared for, is satable
There are other farmers who are willing to buy these colts and grow them, for the very good reaso duce them. These are farmers that have a large amount of pasture, especially blue grass pasture frowing them
he sold who is und erortmary circumstances, to the farme feason wants vounc horses to work. These men heep them until they are ready to go to the city market, and can sell them at considerable advance
The economical breeding and growing of horses is, therefore. the work of three or four different mares, another grows them for the consumption of his waste pasture and the work is finished by the man who has light work for them to do and thus advance in the price. This is the way horses are and, in fact ince, to a great extent in (ireat Britain, and, infact. in every other country. It is the way of labor.
If an
frofits in keeping lurood mares for the sole profit of raising a colt. we ask them to do a little figuring They can make their own figures. only they must not allow their imagination to run away with them. ince themselves that we have in the above pointed out the only

## Swinelets.

The the think about protecting pigs from a
The rio iz net half eq fithy. it hates The pig is not half so filthy in its habits as man
think- it is, and to that fact the filthiness so often seen is largely due.
The too handy corn crib, with its abundant and heap contents, often makes the sow so fond of het pigs that she devours them
haring contagion or epidemic disease and the healthy suw has no appetite for her own pigs. last spring. meall the cincumstance with or veglect

$$
\begin{aligned}
& \text { Widing the mistake next spring, } \\
& \text { The pig is a slow. slugg:sh. }
\end{aligned}
$$

The pige is a slow, sluggsh, yuiet fellow, and reason of the vers unconfortable quarters he has What to feed. and how to feed, are important questions. hut when to feed is equally important, every day: or hos yad ato sonrces of worms in hogs. The pure the water riven them the less worms in hogs Wildy laxative cooling, soothing, non-fattenong her litule ones will make how love them enongh 6) that the will mot thestre to wat them.

The man who think the hog the nastiest is

ea month ins the pige posible in the Il for the mothers a Phine and to do that care well for the motherse 1. mathe intwathick manh with clower-haty teat

A Ciood (Quality in a Buar, Size Without Coarmelless.
in the thent importants to he arved much size section of it is par is that he shall have as much size as it is posible to obtain without any secure an ideal sire in this respect, because as hogs increase in size they are much disposed to the depecialls in the head amomi of coarseness, es peciatily in the head and shoulders. The specia cause the most valuable parts of the pig lie to the back of its shoulders, and the better proportioned a pig is "behind the saddle" the more fully will he compers, and the better price he and his progeny will fetch when sent to market. While it is essential to have a comparatively small head in the case of a
boar, care must lne taken to anoid eflemina this direction is they is mothing molemmacy in of inbreeding or lack of constitution than a thin narrow head with a weak snout. formers (oul

## The Government Whitewash.

The enduring whitewash used in all department: preparation is needed is thus mater : lime. slake it
Take a half bushel of unslaked lime with boiling water. cover during the process to or strainer and add to it a peck of salt a fine siev dissolved in warm water: three pounde of mromet fice boiled to a thin paste and stimed in while hot half a pound Spanish whiting and one pound of and then hansing over in a small pot hung in larger one filled with water. Add five gallons of hot water to the mixture, stir well and let it stand few dayscovered from dirt. It should be applied minace. Whe the presidentio house in Wish ngton is embellished by this brilliant whitewash and it is used by the covernment to whitewash applied, will cover a symate yard, and will be atmost as serviceable as paint for wood, brick or stone, and is much cheaper than the cheapest paint.
Buckwheat --- Quantity of Need and Time to Now.

Sir, some time ago 1 noticed an ompuiry re-
garding the growing and management of buck wheat, and your answer पuite differs with our experience in this section. We find that we have
better success on the average soning the last week in June, and one vers successtul grower says he
would not sow his buick wheat hefore the tih July if his ground was reatly creer solong before. An other difference we sow only two perks to the acre
f our ground is in good condition. We find that ground plowed in thall, in the spring harrowed and disked, plowed harrowed amd again disked,
again well plowed to kill all gnath and thistles, thoroughly and fine harrowed, sisee the proper tilth for a successful crop. The straw we throw
loosely on the barnsard to lue tramped intomame during the eavly winter, quite in quant ity of forage during the early winter, quite :a quat ity of forage
being taken ont of it loy the attle Wie sold ours two seasons ago at tec. and the past season it was
worth inc. Wi. worth inc. Wh. get usually -3 to :an hushels to
the acre, hut know of those who hate had returns the acre, but know of those who hate had returns
of anthushels per acre from 2 peeks sowing. Iddington (O.) ()nt.

## Jerseys as Butter Producere

## In the annual repmot of the linglish lerseg cattle

 Society for last year. iunt phblis hed on interesting summary skiven of the rewhtson the butter tests the society during the wator. The returns givenshow that the average yold of milk per cow of the :36 amimals publicly te-led during the year worked
 average daty vied of huthe per con was i 1h, Il
 milk. The best daily vidh of houthe qiven hy any Which was produced the the owe Sumdew ith, the property of tomd held


 - ${ }^{2}$ in whet raising. but -
 mental lames. hat home por and
 tion menting at bsadfend in -uptemben, and ake the oppontunity to virt "xperimental station- in

The Winniper Industrial Exhibition country only a fow wing reports coming from the exhibition appear next to impossible hut ever since the breaking of the drought eaty in Anty the prospects have daty improved, until it was realized on the closing dates that the most successful shon int the history of the Association hian ronch There were more and heorer anmak shown that
 dation had to be provided after the stock com-


- ROSEmotNT.


## oram Indentate stallion

 cover, there were sheep, horses and cattle in the well looked fier the from exhibitors. who evidently accepted the incom renient, but best obtainable, accommodation in the *pirit it was givem.For a country so young, it is truly remarkable that such at collection of live stock cam he hrough together, and it serves well to indicate the posithm
ties of Wiestern (anada as a stock pooducing comm try. Much credit is due Mamager Heubech and his able toard for the provision made fon the exhibitor: of whom seem to fully apprectiate the wfforts made on their hehatf. In fact, the stockmen feel at home Wrach an extent that it would seem quite safe to in the interest of visitom with a view 1 . incerat the educatimal value of the exhithition. The "In as much as the larger shows of the East, and the divection int mentiond. To, this wal we wombl enger date amd then keeping the on cloced. If this were done there would be mo exame for an incomplete and imperfect liwestock cataloglue, which wa-

 ins and attached to the attendant on animal whils. the rine or on patade. The intention ingetting on
 aryving out the -y after all, and came to the lixhithitom to be emter tained wather that rothe the Wimipery Imbutral

 properons paritions tue mad.


trotted out as the occasion demanded, so that atl who wished could see and learn the desirathe points of the best animals. In this sonnection, toro, much he eroring acoll
 mimal forms That wew is a demand for sub animal forms. That there is a demand for such during the judging of cattle and horses, when the erowds surounded the animals so colosely that wither the julge nor anvone else could obtain thar view of the competitors. The comdition of the horse riug also needs attention, pecially where the action of the prectanty shere the the the shown. If the ground cannot be all made level. at least a track a few sards wide could be provided surrounding the cinders, gravel or crushed stomecammot be gotten to cower such a track, the ground could at least be levelled and re-sodded so that a horse could trust himself to show his action without fear of receiving at spain. These are a few of the needed improwements to send this kxhibition forward in at substan tial, helpful mamer, and will, if carried out along with other features of a like nature, do more to help the show in public favor and financial suppert than all the Midway per formances, "exell thongh of at much more elevated character display this year beneath the canvas.
sheaking of the entertainment sature as provided before the gramd stand, it is a pleasime to note that the hoard deserve praise for providing such a liberal programme of worthy performances. In addition to the sucression of meritorions and keenly
contested home races during the afley 1 the wed horse races during the after
$\qquad$ the wonderfully grand vents winding up each evening's prowame th immense crowds that thronged the camarions the comfortable new grand stand were maintained in the hest of humor by the clever feats of performers which seemed to rest and please the immense con features done or had truded the founds of the stock ranges and other buildongs earlier in the day
buildags eartier in the day.
From Monday morning till satme day night, when nearly all of the daybits had been removed, tho weather was as nearly ideal ats the weatheould have wished. It mo time "als it excessively warm, disagreeably windy. or at all wet. so that it was was the recomblomaker in the history of the I Asociation. The clatsen, towe
that came in from the farms of the Camadian or American West or from woth encomaging as visitom old wedodevopment. Whather Imghe saxom or those spakmg in foreigh iressed and intelligent: F:xhbition dowe mothing mom than Etrant out-iders and then -how them will remmers, it hat dome a work that


1-1"n"..

Trdesdales put up a showing that would do in the western combry presentedamimals which were producel mom the leading studs of (igeat britain matrow and the Imtedstates of limericat. Th Ypical lot and renerally presented in tlesh and litued form regarilless of having concluded heaty tudseasonsatrey womt dates. Among these wer he folowing: : hown as a twoyeatold in (hicages (ien) Catt wright's (iolden flem, a thick-modicd, good leqged knownt thats in popmants, a, bis an Erakime Ladl whed these, however, wore pirvileged to participate in the spoils, alt hough in the opinion of many good have inslly domes The decision wior mot hmeredly given, net was it a light task. The first awand wal fairly populats, going as it did to. J. A. S. Vacmil Gan's Pigrim, a really good sort, sited hy Maclame He is ampstanding, massive heown, with a grand Gick and deop before and hehind, and calmes proud head. His action is fine, perhaps a tritle wide tosuit a Sootchman. Win he Hexes The hock award fell to a bior roung. well-topped homes brought up from ()ntario at the commencement of the present stud seasom. Ne is ontmee rronce i) Fraser d Sons, Emerson, and sired he dinture Hero (imp). The thid prize fell to the tried and true Balgreggan Hero, anderen year old horse that hat: done thonsands of donals of valnath servecon la. Q.Turners rameh, (algary. Ile is a grand specimen) of the breed. one of the wearing sont. qued in all his parts and at all gats. The butge atmited his sme been afiw yous vounger. The ewearolds imelud ed only three entricsof good type It was here that the sweepstakes mate was looked for and when the final contest came the interest was keren astwe Prince ('harleds that came against Piggrim, lomt the older horse hy his matmity canted the day. Prince Charles is indeed a have colt to famle is he has Chumdance of substance for his yoms, while he is of paits. He was bied in Sootland and sined by Sir Moredl Mckenzie. Ilis clato tivals were (i it iv. bemmess Aberdeen amd D. Stephensons smoned Giaham bros, Claremiont, Ont: Wongood premiums in castern competitions. ile appeared on this occasion in only moderate condition, lout defeat do by a marrow majority the more many, finer yeaterd section present dive really heambiful eolte



Gined up before the jmble, who sent the red to the imp. K nuckle Duster. ant of imp. Seatuty lith, and of Prairie Home 架 Judge, made a close second: with Barrons big, lusty, dark red Lord Kitchene
third: and Purve Thompsons Field Marshal, by third: and Purve Thompsons Field Marshal. by (itaham agatn hat the winning number in the
lass for bull calses of callendar vear in a som of his sock bull. Boh- is a smonth, handsome, neat red cull of promise. II (1) Arearst, Middechureh, came Chadburne, patphton, thimd. For the sweepstakes Browns landhurst :3rd, Cockhom's (ieorge Brace Barrons Topmans Wuke (ireenway's Sittyton croup of toppers. the searling sity mato up the George Bruce being favorites rombd the ring, which When thio arual
When the ared cons were called, no less thain 1 in the bunch: inf fact, many had figured in sweepstake rings at this and other leading Canadian fairs. Sime entries came from the stalls of the Prairie oould scarcely be equalleql bs ams other boeder in amada, or the - nited states, for that matter. Mr. bavidson was careful and painstaking in his crutiny, and after long deliberation, drew out of place. sending the thue to the red Mathhess lith, d. W, 13. Watt, Salem. Ont and sired by imp. the head of the three-vear old class at the Toronto Industriallast year, the hig handsome red being also female sweppstakes. Iner sucressful tall mate now ver the himd guarters and is also more smoothly oold to W. II. Flatt forsplon! each, and are being sale at Chicagoon the Th. Bamronsimported roan. emme hind ith. made a very good third. She is fresh condition. W. Lister s red liosabella. sweepstakes female in how s years old, low-set placed such grand cows as Grenways Isabella Bracelet sth, and Matchless Mth. Ihister's Medora 1.2th, and Rose Montrath ith, Walter Lynch:
Rosette luth, and Bamons Laurette Ith. The three year old class was also strong, (ireenway again win-
 sud place with the Topsman cow, lily Lorne a Gon Re tidybast. well hought ont: (irahams Com Prairie Iome herd had an insincible contry in the orize yearling at Tomonto last year. a wonderfully thick-tleshed, smowth red. with good head and fascinating style. She was aterward awarded the
female sweepstakes of the breed. For end place the judge selected (irahamis Golden Belles by the hooks forwarel, hut a trifle slack belined the
 son Cloud, and Burons Red Bamoms unplaced well fitted string of varling heifers I dozen limed
un) in this class, and a heantiful bot they were hanager fule -ont ont five fom the (ireemway thee Mantuhat hief heifers his own heeding,
all goad ones and one cach weresent out hy hynch,
 mot imestigation. Gremway- Village Princess a
 Chief: and ditenway-hise stong math of le. Duff hreeding, be Bomin Lat. Were dawn out, and it his mind which whe to hurin :nt. Howero.e the alf clates atso homsht ond atrong otringe to the






calves. Cow and progeny was won hy (imemway with Barron and Ayearst following. Iterd bull an (ireenway $2 n d$, and (iraham:ard.
One of the grandest rings ever seen here wa: that comprising the open herds. The Prairie Hom herd was represented and and the red cows. Matchless isth, Beigonia, Match less 24 th, and Dora stamford: the other wan throughout, Judge, Nildred ©ith. Mat hless 1 !th It and Princess, in the order named. Lhary wen won on Topsman's Duke, Jemny limd, I oretto Ith) I ad Corne and Louisa : with (irahams entry th. The herd mize on four ammals, any age ored hy ex iraham, (ineenway Bawon won the home-boed herd, (ireenway the young herd, with (iraham and Barron following
The Canadian Pacific ottered a special classitica previously winning any prizes. In vearling hulls Ayearst won on a good level. growithy white, by Fravesend Heir II.: Preston, of Pilot Mound, getting and. Ayearst won with another white in the call In three vear-olds, 1 .ynch'shathdsome roan, Imogene won the red : Purvis Thompson (Pilot Mound) won end on a mice smooth red and Ayreast ird. Four dass, (ireenway wimning with Xinga Jubiloi (hween Wred by J. (i. Washington: Walter lanch end on Faith: and Chadburnes entry following In the by Purvis Thompson winner in must imp pany, and won on her 1st-prize and sweepistakes female. The calf class was also a good strong one: iraham's lily ODay defeating Lanchs handsome
Inigue end, with a good strong calf of Bennie bros following. latheh won the herd prize and Aye arst's white yearling. (rimson sirdar, the male


SITETON HERO ith soss:

Two herds wete mpesemted, ). (ammange of
 herds were shown oft grats, in comel comdition. The some of his entries coming ont in wor nitu bloone
 ohn Trapuair, who be the was Waraborn for thi fine skin Thi this hull allo wont the diplomal fol he best mate any aye. Fios oul yatling bull and








Tass, lst went to Hannah of Hope a particular red at the Hope Farm.

Gear year the competition in ". white taces vere brought out the stongest exhilit exer bade on the Trest. Xot only were the different sections xceedingly groud honors keen throughout. The herds represented Beresford : F. B. Millat © Son, Solsgith : John Baird, Wimnipeg, and Alfred Mo.Muray, Solsgithl. pean in fin fom and seside was hromgt ont this Ic.Murays entre, Bawister beiner end In the ear olds, John Wallace showed a yearling, Rock ake Duke, a hig, strong, smoothbell, well hrought hown in rather thin condition The vearling class alled out five of the best Hereford entries that had cer been seen in 10 immpeg. three of them bred by Correctorth. Compton, P. Q.. two lemy by the ard, of H. judge drew out (Chapman's I.ord Ingles lanna, for the red ticket. He is a low down, thick set bull, particularly well covered over the loin and
back good head and neck, well filled bet ween the houlders, with well-packed thighs. He wase after vards declared sweepstakes over all ages in a strong Gass, second place went to a very even, smooth Marples Rex of Ingleside, Di, Sohn Worace, Whis is a bulf of tine quality, straight and smooth, but not in high condition. The bull calves were a very nice, man's entry the ble and varple the phat (irove 3rd place. Eight cows in the four-vearold class were brought out in very creditable condition. Wallace won out on Lady Belle a deep, thick man coming out fury at the (an what Chat good owge the shoulder, and brought out in tine fit, Wht a tritle hare on the batck. In the three year-olds Marples got lst on Isabel, "cow of good size and
denth: Paidts entry and int two vearold heifers Mapples again won ist and and on lady Marioriee a
good quality beast with ia nice face, well marked, but a trifte off on horn: and comontese of Poplar God place. In young heifers Mamples wats ayain suceessful on a nice pair by spotless of lagleside. Nallace won on hedifer calf, with Mapples end. haples won 1st and end on open herd, st on young herd, st on three females by one bull, hred in Mam"lallace winning end on young herd, End on thee

For the first bime sime the inception of the Industrial, this class was represiented, or, rather. town, Ont who had evidently come WMe knowing , piek un a few dompers in priza ,monews thathen heneft the breed. Some of his contries would have neen a disgrace to a grade class of any compty fair.
As there are no Devons in Manitoha, it would serm advisable for the exhibition association to col this mexhilit.

The Holsteins, Aerseys, atm Ayrhaires, particn as a rule thess breeds are not kiven the proparatom rings: consermently the innmats, particulaty it and show the effert of sun and weathere These clasise were judged by A. ( Hatlman, New bundee, manner, getting through it expeditionsly, aml giv

The exhithtoms in this clate were : Jat Gikene
 Wantom: Witha few entriw from 1 illiam Ramom

 hame yatold, of good dairy form, with well Wheloped dudimentaric fine quatity of kin, show nimal in the proup, pushated zond. the showies
 Whit wolt to Gughton's Royal buke. :a som of in Let! a hige strong amimal) hot comsidered hy the then hall were well homght ont Bred Al




and End on cows: 1). Fraser d Sons, Emerson, :3nt 11. L. Whermoti. of Headingly, won 1st and and
in two-verold heifers. Allison won on the female herd. If. Fraser s. sons ond.
The clase for fall callle is becomine hess and lese patronized. The day for massive fat carcanses seems to have passed away, and with it the tombenallack ditranme. Wimniperg. were the promei pal exhibitore honor heine atont even. (ireenway and R. II. Shore. of Manitom, also had entries in this chass. sherer ber
dimatite of em Andate in decided revival in the sheep indu-try age of titted animals, than in recent fommer yars,
is we have repeatedly puint od out, exhibitors do not all reali\%e the importance of presenting the it amimals in a becoming and reasonable length of woot. On this as on former oncasions theke ap,
 fudge some men, too, hing in animal of inferion typeright oft the prairie hot these latterate learnthat i fent mome seatons will cored this objection-
 mixed farming is introduced. heep will take then phaces as they hate dome in the otder previne of of the single jud

The exhibitors of this heed were the follow
 Mosomin, and Emest F. W. Hysop. Killation type, hut motley in appeatance heranse of al ade amiformity in fleere in tittings. In rams. Mesers
 troner sheop micely conered amil in fine were al B. smith presented a neefal areed ram. On "hich, in won ond. Gnghton coming third in the aged aection ane top with a well developed rath. followed by Lessis brown for end and :ind. Honom wew well diviled in females, at lass. Brown won lat athd

 on sharlings. Itsor Bown captumed lat on peat and on pair any ase Hy=op eoming zut on pent.
Three Howh - contested in this bacel. - bown b Bramdon, and II F: Preatoll (ilen Fiven Tin

 of rams Mr. Simelatr champiom male is a vely
fine amimal, having a smonth, firm, ramdli Hesheed back, and holi
lu-ty form. In sharline the tathes tmon in primes th ath -ond fotmos. Smलan wimmer and ace ammats all had mice pink hins, andperent widently suceeded in whine emp reton



#### Abstract

Walker, Dentield, Ont., and his sheating was mported from the moted English thoek of Whr 华 wes, One of which was a Royal wimner in ?! ! , were breeding condition, The Roval wimning shearling ewe Was bred in the English flock of Mr. Wright. Of Noton, and came latterly from the tho Capt.T. S. Rohson. MI.P.P. Idderton, (ant.   xhilited in this clase, the competition lay between limis hare of the vietories falling to the creditable whtres of Mr. Cobte t, who hats I sheep, which were well broght out as by an atentive and ontained many typicalimimals, hut inonly nice field ondition. The remainder of this hreed shom in pality and form. In aged rams, Mr. Corbett won The 1st-prize sheep was shong and useful son of the famed Xowtom Land that did valued serviee in the Hock of Nr. John famphell, Woodville. Ont.  W. Camphell. Messis. Fased won ond on a usef ful Onsons of the Nirwtom Lord ram, Gireenway winning Srd oll a nicely topped plump youngster, and Pres- ton 1 th in a seetion of tive. The aged, also the shearting, cowe sections contained really high-class. ither case, Gorbeit won list and :hd, with direenway bet wedn. In ewe lambs, Corbett won lst and wnd , the thind going to Oughtom. Nomistake would have heen made by setting the thind pair farther up, although they were not well mated. One of them, however was perhaps the best female shown lit on pair any age, and first on beat femate in the



 hut The ahd M. Smith, rantield matme Ont The chief competition of Messis. Jult and Jickling, eath hating entries in almost every section. The only native
nam was at ragy, lean sheep, owned hy NeLaren, ram was a rangy, lean sheop owned hy Ne areen,
who alon showedit lean pair of aged one which he stood th. Mr. Smiths only entry was a wather creditable ram, that won - nd premium. Nessers
Jull and Jickling furnished the rematinder of the Chasis, that would have dome credit to almost angy
showring. The Jianitoba flock was too much for the strangers in every calse where they met in com petition, wiming mot only fort
leasing the sum award for Mr. Jull.
were exhbited by Mesme M, M. Smith Fairfeld Plaths:A B. Smith Susomin: and
1). Fraser A Soms. Fumson. The Ontario fook contained a number of wather typical specimens of the bred. being of good color and covering, and trim and neat in apparance but too math to do
the breed credt. The Manitoba hots were a hit plain and mang of thenton bar of head, and ats that wom lst and A. B. Smitho 181 and Snd-prize
 and the femaneswerpsitnes S. R. Smithis natio are the pentan pathe prome
entries.
 diale sont They were not at highly fitted lot hot semed the ind cater the natmand whendions
swove

 Welk known Berkhim breded, of Concord. Ont.







 remarkably strong ome Mr. (inemwiy won zond and under two. Vr. (ireenway ed with, Amakniti cent sow, Exhibition Bealys: bed br F. I. Cox
 wands given the sweepstakes for the best sow any wads given the sweepstakes
 bred by T. A. Cox. In sows ower six momthe and Jewer and Gerssal Jean. wom lst and ?nd and the


 showing, ah his entries in the fomget cian heng
 two with Hones Tom, a Fit\% I Ae bar bred be I. C: suell: Ist ont hatr under at year with buki of Cliftord. ind by his own (ieneral Booth: lit on



 Booth. To bisentry, Daisy, aloo went the lat prize forsow and litter of piss.
Highelere N. J. W. Brown won hat onaged hat with




 and for the home bred herd boarr and there femalos any aree). Ist prize went to brownse ontride fitting that somene of his rivals hand Ilis Teasiate boar, Western Boy, wasplacedsod intwo-gatolds pigs of his own breeding. On boar undersix mont hs:
 inder sis months, and a sird prize on sow and littor with a cox hed sow, Burnide lats. Thind prize
for the home-hed boar and hore femalus alon went for he home-ned ho:
to Mr. Kitsons entry

IIf this class, competition was rem hern in maty all the sections, and some anmats of great mer cit burn. Somis, won with a Flatt sow, Potter win-
 for Boars is months and under a bats Brethour ing
Saunders, of Bunford. Ontario, had the wining

 Potter, Sontgomery, Asa...on Nike bred lig him-
 his wwn heceling: :3d and th soing to biay on pigs bed by himself. thaged sows, brethour d some entry ond Dak Iodge. Nimic, Bay wiming olnt a number of real good entries hang hoft mplatad.










## 




Gntry of aged roase In class for boar under two "ith britioh (Champion. last years sweepstakes
 hind :mhle Thard went to Bradley. Boar under a year. II. V. Batdiwin won st on British Prince, at
rem smoth, ewen hog that was considered gound mongh to win the diploma and special by the Do"minion Swine Breders Ssociation for the best boar any age second in this clase went to J. B.
lichling and and tol.. I Bradlev boans under si . It-hling, and :ird tol. I. Bradleg. Boars under six wimning lot and ㄹnd: W. F. Baldwin, Std and th. Mn sows wer two years odd, Bradleys six-year-old Magre agam wom tore red ticker, the sitme exhib
 two vals, Smith was 1st. W: لa. Baldwin End and Bradles Brd. sow momer a vear. W. E: Baldwin Won ori 1 ady Elgin, athoner entry long, deep-sided liadley ond and bid. Sows under six months, the prizes went to the Ontario whibitor. Bradley"s aged sow, Maggle, Won the female sweepstakes and the bomimion sume bradders sectat. The male championship, In the class for sow, and litter,
Bradley wom lis with (irace Darling. W: F. Batd win ond with Peanl of sminglank, and II... Batd prizes for how at praced in the same ordere and in the sention for herd of four sows, 1. I. Batadley won lst

In this class, W. L. Tramn, Mrstal City, MI. tield Platins. Ont. were the only exhibitors: Tram winning in the haar sections. and the sweepstakes Goar, with Mamitoba Chip. The female champon prize sow and litter and herd of four soms
 moder I vear, -nd

Beetions were added to the prize list the year For hacon hogs, in place of the old-fashioned class Por fat hops In he pen of thre pure-heds, A. 1 . matched, typical lonkshimes, a trifle lean, maybe
 2nd with a tro of Tamworths. In the grade pen,

1. 1 . Nectill won with a very aron, well-fitted trio of pure white hogs, crosses bet ween Berkshires and Chester Whites.

Perhaps no judge in the poultry class of any pretask to pertorm at Mr. (imen). Holden this vear. In spitc of this, gencrab satisiaction seems of have aneng given by his work. The number of entries wer the shows of the laty few years,
 guineat. Collion had somb good things in light SHang do. Wimnpeg, won a large number of prason the ir Godian (ames, Goblen yamothes N. Naw.of Winmipegs oloceded in upholding his rputation, "per cally for herding bronge turkeys - Vidwinter, lamise bridge, while not showing as large a momber of binds as Minal had om some

 Bildwin is Sim, V:antan, and dhos Roid.
This whithit wan larated in the new British
 - hhibit of the thenhed spath very hamdsome

 of the halding: and pored a gred attattion. In

 lifuining the noxion- wed stathd, the Jominion






 2nd proze given hy $1 F$. Wh. Thompoon Namager of ine bushel lots. attamed mo less than whe thirteen entries, neary all of it being choice and the being represented. Indging was done by (hief Grain Inspector Horne and Mr. S. Spink of the Grain Exchange. The first prize was captured hy Alex. Donaldson, of Fort Quappelle, on a hig bright sample: ?nd hy. I. II. Lyons, Carberry by James Mccullough, Stonewall: ID. H. Hardy, Pomeroy, and J. B. Shepherd. Hartues, In the © P. R. special for five bushel lots of Red Fyfe wheat end: Harver Coates, Brd, and James McCullouri, Stonewall. ith. The winners throughout the halane of this class will be given in our next
in which the full prize list wlll be published.

## DAIEY pRODCCTS

The dairyexhibits attracted greater interest than has beent the case in previous years. The prizes in
the rarious butter sections were keenly contested for, and although the a verage score was not particu hibits was in evers instance excellent In the dairy section, Mr. Robert
Devil's Lake, Issac., carried off the sweepstakes, of a sample which scored !ni! points. Other successful
exhibitors were : John Ralston. Rapid City R. W. Wilcox, Wimnipeg : John (iorrell, Ciulyerry and Mrs. N., Scott, Meadow Learell, Mex. Scout. Morris, was awarded the sweepstakes in the cream-
ery division, his exhibit scoring! Mis. Some of his ery division, his exhibit scoring! Sh, Some of hi Forkton: F. WI. Ferguson, Regina: W, R. (iilroy Austin: E. A. Struthers, Barnardo Home; and H.
Neelson, Minnedosa. In all, upwards of gin samCelson, Minnedosat, In all, upwards of ehn sam
ples of butter were shown. The cheese exhibit was much weaker than might have been expected, only some 1.5 entries heing made and the quality in some cases was far from good. chool, won the sweepstakes on a sample, scoring Chiso, won the sweepstakes on a sample, scoring Benj. Dutton. Birtle : Chas, Mignault, St. Pierre . Tholmen, Ste. Rose du Lac, and others. the work of the judge. Prof. Mckay, of Ames

## Milk Yields of Dairy Cows.

Though most people hold that a dairy cow, in order to be worth being given a place in a herd he year, orratherintenmonths (ix) gatlons of milk in of lactation usually extends, it is very much to b feared that if reliable statistics regarding th yuantity of milk produced by cows throughout he country were forthcoming, the average yield There work to a digure far short of that stated specially noted for their fine stratins of dairy cows, and on which yields of tim) gallons per cow would not be at all out of the question; but taking one part of the conntry with another, we are very work out to a figure much nearer $4(1)$ than (ill) gallons of milk in the year. As a standard of not eatr is well within range of gossibility in the case of well-kept dairy cows, these figures show how creat a margin there is for the mprovement of the airy cattle of the country. As with the milk, so , It is usnally held that a good dairy It is rery much to be feared that the average for
the whole country falls very far short indeed of this figure

## Gansas Seed Wheat for Ontario



How Whait is difown in latisas.
 Hothy all fom kis to mente per hushel. © B bickinoon Comet sive grower of wheat, besides interested largely in writes to Secretary F. I) Cohum of the markets, Board of Agricult ne wome very valuable and timely from the Kamsas standpoint. He salse im pattary . Neglecting to plow carly, so that the soil will get theoughly sethed and compact, is perhaps the cother of Sometimes it is impossible on account harver mosture, to plow the ground soon after drill the wheat into mis the case I would rather from weeds and insects, than plow late. Plowing can minally he finished by the list of Jugust, giving
One amd a half to two and a half monthe helong seeding.
time of sowing. no definite rule can be given. Wlldepends upme the condition of the soi plowed in July, sow the last week in september or
the first two weeks in October. If sown earlier the first two weeks in October. If sown earlier.
there is danger from insects or from wheat getting too rank "if enough moisture) or sickly (if not stunted toolong be standing in the hot, dry autumn growth from the time the seed drops into the ground until it goes into printer puarters into the again from the time the suns wam rays and the spring showers awaken it to life and growth until
the heaty heads of well-filled grain nod towats a meh and bessed harvest
into dry soil and remains in that condition until the spring rans canse it to prout. Sometimes the plant has more vitality than if it had sprouted in the fall but had not had sufficient moisture to root and stool. Thate been unable to detect any wheat which did not start to and quality of the although continued spring sowing would no doubt deteriorate the quality, and call for a change of seed more frequenty.
"The next great factors in wheat culture are the to be sown. There are four great divisions of wheat in the l nited states the spring wheats. the hard winter wheats, the soft winter. wheats, and
the California white wheat. Each of these divides and subdivides into many kinds and varieties Among the spring wheats is the nor thern hard, chief-
Iy grown in the Dakotas. The softer varieties grow in Wisconsin, Michigan, Nebraska, and to a limited are numerous, and are grown in every winter-wheat growing State. Kirginia, New Iork, Pennsylvania, gan, Wisconsin and lllinois winter whaty. Michi good. The Califormia white wheat is a spring wheat, and is grown jatmost exclusively in all the mountain states of the West. extending down to It is a white wheat, makes a light flour deficient in atrength, but exeelent for Ciraham. and a very limited puantity of a few varieties of hard winter wheat in quantities worth mentioning. This is unipue and deservesonsideration. In fact,
upon this, 1 think. depends the sumemace which upon this, think. depend the supremacy which
Kiansas holds over all ot her states. and will continle tohold in the production of wheat.
aldhoushian wheat, as it is commonly calle although it has seremal other names in different Was first hrought tio Kand Wheat. Hungarian, etc., nonites, who came to the state in large numbers ? 0 Or years ago. For vears after its introduction it Was disparaged by millers and grain buyers but its grown in ccer increasing aros in spite of the to be price it commanded. Finally athouthis yeare ago superion gualit ies of this much doppised wheat, and remodeling of their entive plants, and begen the mambacture of Kansas hatd-wheat flours, since become noted in the words markets as superior to equal to the wodd-timome Humet nited statesand from the "honiest wheat- grown in llungary and
bohemia. The bex variots of hatd wonter wheat is the crimeath. "Many varietterof soft or red winter wheat are

 it from coolorado,
hrive. It is eren
womber wheat that
 hardy and prolitie, will tahe the torld if it has hatity hatuce, and is excoedingly diftioult to vadicat shrivelled wheat, if sulticientle matured to spout will, under fatorable conditions, produce at good anp, but will surely calle the variety 10 "runcout stutf is rell years. patchon which he pows what for seed This he should give the best cate, should plow deep and earls, heep there from weeds. use the hest vari this sow his parger fied and Ile might products of adrantage, plant diflerent varieties and sow his general tields only with onch ats hate proven them paratively small cost. exchamre comata at am farmers from time to time and in that mane grow the very best patity and lamest puantity. "Ohanging sed itom one locality to another i still belter from distant sorthern localitien torsmonthern is bether tham from southern ocalties or somthe

## Carmall Summer Fair

orad "hivision Amal exhitition of the butperin Elec
 held by the sonfety. and was, with the exception or roots and regetables, quite up to former years The exhibit of grain was certainly a good one good sample. Both the lst and eind prizes vent to farmers from the Pomeroy district. Hatrey coate 1). Hardy, of pery unifom, bright, latge sample which was gowarded at lit of white. Thure wan wheat showing in white olts. The samples were all good Alex. Morrison won lst, with a fine sample, the end Going to Thomas Hutwn, of Pomeroy, II. 11 . (itaham lat on six-wwed. These iwn exhbiter atso showed collections "f grain, and won in the order named atowe. I. I. Morrison and I). Mchn and taveren samples of timothy ng of homemad. hread. in-me no less than twelve competitors. Mrs. Win. Regy was the successful
Ist-prize wimer. and l: her Bros.
 there were nine competitoms. The lst went to Mrs 11. crocked butter there were also ngine In the enp in this also, End going to $R$ (iannell in winning lst there were eleven competitors, lst going to Mrs 10
 hadian Dairy supply company, "imnipeg, had a dairverupplies.
horthorns. I. (irathan was good, particularly in some $1: 3$ head of good ones. His lot was headed by mponted prime Vinister: Proncese oblay, froil Necklace of Pomeroy, and Evelines, the fome heifers Which matle up the herd that won hat proe in class sides this. some good hompeg last year. BeGraham. Alex. Montison also showiod some Mr. ones. he competition in the two year ohd dats beood Gery keen between him and Mi, (imaham, each of
 Mr. Vorrisomsond. W: W. IItord exhibited a nice Grade cow and heifer. the com being from Manitoba ther grades and lereeys "ere sown. I number of nice Ayshires wete exhibited by Wellington
Hardy, of pomeroy. Two hulls were shong an
 Scotland, and imported io dimada hy Arshite lantsue, stratfond. from uhom he was purchased
 Yearold heifers and tion hater calses, make up I nice lot of home- wereshwn, and the sections
were fails well tilled. comecially in the thood met sect ion of both raddoter and hos in the hood mate


 importedstok. I E.on - Trumg haw hraft, nice Gitahe exhinit
 Wreehmon: al
ders Speme
were



## Testimonial



 1.tated nithind



 Hint mill. :





## Seasonable Poultry Hints.

Now that hot weather is again upon us, and the hatching season. With its many cares and duties,
about over, we have time and it is well to look about $n$ and see if everything has been done that we can do to make our fowl both young and
old as comfortable as possible during the heated term, which is likely to continue for some time. And, while there is danger that I maty be accused of harping too constantly on one subject. I must suggest that, if not already done, one of the first
things to be considered is that of at thorough cleaning up and disinfecting of the poultry quarters: The season is now at hand when lice and vermin of an inds wir mork on the flock to great disadramtage get in their work on the fock to great disad antage and a continual warfare waged against them in all possible ways. Fowls, to be protitable, must be the houses, nests. perches and everything is infested with these parasites it is mot a tmestion of comfort only, but of heath and rigor as well. Everyone wants his or her fowls tol show atl the
signs of health, but this is impossible where the fowls and premises are not kept clear of these pests. They are not only a continual annovance to they sap the very life of the fowl by contimally Much has been said and written about the diseases of poultry, their cause and remedy: but let
me go on record right here by stating that I firmly me go on record right here by stating that firmy
believe that fully three-fourths of all the diseases commonly known among poultry originate in and undoubtedly such a disease as cholera, for instance, I firmly helieve that nine ont of every ten cases
so called cholera is nothing but a case of simple. yes. I will ay it lice: just common evervday lice
i; to work and get rid of thom, and the cholera will suddenly disappear Snother thing tolook after at this time of year
is to see that the fowls, both young and old. have
 vessels ought. by all mans, to be thoroughly washed out and scalded at least once eath week
during hot weather, and pure, fresh water should during hot wenther, and pure, Gresh water shoma convenient. Forls should mot be compelled now allowed to drink warm, stagnant water. This is a
point to be specially looked after in the case of point to be pecialle looked after in the case of
young chicks. third item of great importance
during hot weather is to porde some kind of during hot weather is to prowide some kind of
shade. An orehard is an ideal place for the poultry in summer, and if things can the armanged, therid
will be a donble advantage. as the ponttry will wiltee a dombe insect that prey upon the trees and greatly injure either them wh the fornit. In any
case, provide some kind of shate if it only come hoards or a strip of burtap stretchent ofl stakeNow is a good time also to begin to cull ont all

 send thom tomather and mather mon in the somp


 alla-m-1....-4.
 "han the
 Iuly ligh and ents, was largely attended, and quite yat's growing and grass seed, alsio grain and grasses in the sheaf, Was good. James Dalgleish won first on two bushels of Red fyse wheat, the second groing to 1 Mm . Stephen. There were seven competitors in this class, all showing gox. cheat Was not so large: the sample, however, was good. William stephen won 1st and .J. I). Iohnston 2nd Eider Bros, won 1 st on a splendid sample of grand
oats. Two-rowed and six-rowed hatley of grand quality wats also shown. The Brome grass, rye grass timothy and clover in sheaf were of good Tength for the time of year. There was a splendid
exhibit of ladies work in the main building, which attracted the attention of visitors. The two great essentials in the maintenance of life bread and butter-were largely exhibited. The butter, in
color, grain and tlavor, was of high quality. In the color, grain and Havor, was of high quality. In the Ist prize going to Mrs. R. Bellamy, end to F. W. Chapple, and 3rd to Mrs. Mecloymont. In the 111 pound tuhs, Mrs. Dodds won lst and Mrs. Nialiam ard There was W. Chapple display of butter gramular form and in a 3 pound lots for table use The poultry show was most creditable In
Plymouth Rocks, Mr. (irundy had out a good pen, also a pair of aged birds and some splendid chickens James Rothnie showed goobl birds of this breed. I. II. Higginbotham was out with a hreed-
ing pen. pair and young chichs, in light Brahame ing ren. pair and young chichs, in light Brathams, and wayse exthited by Woonderson and R. Adamson. and White Plymouth Rocks by R. Byrnes. (ieese I.eland, the latter alsoshowing D'ekin ducks. All the horse sections were fairly represented bott: the heary and light classes, and the competi tion in most cases krem. Closely followed by I. I). Mcllattio with : nicely matched team of hays with white faces. In the agricultural teams, six competed, Peter leank hat considered by the judge lat, ond going to R. Tapp and 3ad to I I celand. There was quite a number of promising-looking amimals among the younger sections. Mromas asper .ondwardine judged tomes There were not so many horse out in the light heeds. There was quite a turnout of single drivers. The satale horses were also goond and for the best matched droving team ont ore heavy stallion and two light ones were shown There was not as large a show in shor horns and grates at former aco thengly from the Weet in time for exhibition. Some rery good cattle were some of the prizes were taken up by them. Thoma Shopthom chatles Mrburn atso Miburn winning diploma Shorthorn bull. ©I. Thompson exhibited an aged Shorthorn bull and was awanded the prize ono other competitorsappearing. The grate clatses ath the way through were were shown. 11 id Fi. Mclvon Won lat and zad on herd of four female Robert Elder Bros. won tst memes Hu-10n won Lat il Mundie 2nd and Re. Bellamy hed. The halanco of the prizes in the grade clats were divided between
Volome Bros. There was a good exhibit of Holsein catte mad. hy A. B Potter, Montpomere, when
 Ponald, showiges an aged sow and a mice lot of
roung ones. Potter also shithited in this Matos There was a splendid, xhibit of Yok-hiras. the Latent exer feed at medent Bray and Mr. Whapph also exhibited in this base A few Polamd Chimes
 Shrophine by Thomat lame Jame Wedl- and


> Poultry Rainins.



language that is why they dont come when she
aralls them, s suppose. lsit they .tre strong and "alls them, supphese. hot they are strong and all right without following an old hen around. I admire their independence Our first brod of
chickens was hatched early in April. They ave chekens was hatched for market now intend to sell the foost ers. and keep the pallets, for they lay better in the winter thab old hens. If e have only hot three or fomrelek and the We feed the hens and chocken- tegularly ant always keep plenty of clean woter hetome them are fed twice a day, the chickens four times while they are young. Hard-hoiled eros oatmeal and bread crumbs are good for the little chicks at first somet give the hens wheat. hram. protatoes, ami Ours laid well all winter: they are not laying quite all the time. but we can't expect them to lay wed a vacation, when egge are cheap.
It is a good plan to kill off some of the old ham keep a few old hens for setting. It one should tame. gentle hens, for the hring out best to seleed and make better mothers than the fidgets. fuss hefome hare hatched, or else 1 mempak the eqs chicks when they are coming out of the shell. I is better to set a small-sized hen than a large one time and when they are hatched give them all to one hen, and let the others fo athont them tom Which is to got ready to lay again as soon as pass bat Rut thate to do nest long enough to obtain food, after she has lis tened so eagerly for the tirst somid of the little on breaking the shell and talking so lovingly as if the devoted mother of her beloved whildren ame give them to another seems to mea wery cruel thing to do. We put the hens and chickens in comps un them the voungters are three wock a pond tane in are growing well. We dust them with insed prowder sometimes and keep their slecping rooms weallow There is a pile of shore sam mone the day last winter the hens went down to get a sand bath. How they do enjoy it! I like to stand and watch them make the sand fly. We hate omy and wrandottes. it is yettine rather late in the season to set any more hens, although latechickens: generally turnout tobe pullets. Ithink about eighty young hens well looked ather pryk yores. O food, grain and ground bone or oyster shells, or the will not lay. But when the eggs are twenty to twenty five cents a dozen it pass to be good to on egy Promers

The Now Core for Milli Fever
With which int erest you to hear of the gox result: of potash treatment for milk fever which you lately recommended in the didzelte and fow which The cow in this case is one of our the mitkers C is ahout 10 yalrs of age, amd she lelongs t and seemed guite well up to the morning of the l!th when the herdsman found her suffering from milh fewerand at once reported the rase (o) me ser sathe
 stadl, ki,king vigorou-ly alout, fothing from the
 Onseeting her condition, I at once dewided on havimg hentriced with surh suctes at (:lastevin, and hwand- this end I firs injewted into the whend followed this up with the nitsate of patassimm propared as rexommended A..C.2. drams diluted in howal hat, ons founth of the ghant wats injected ", val tait, :and at man was kopt contlmatly I may ald that whon I tirst naw the cow her mik wat 'lite wolle som atter giveng ond athent an heme :and a half the mith salme haw and
 ham akom diapparat, atmomikner I then save
 a- tofore. the only differnow being that I used

 The ther wat on milk in the whder, but at...rolock



Northwest Territories Farmers Insitute Meptines.

started far too late in the season to semene the foll Anderter derived fom it. An som as senting ter: then by phewing deeply, of or 6 inches ath omming the harwws ore the plowing , quichle, all this, three of four hartowings during the seatem Would be all that the land would require. Hatrow-
ing should he done when a ford growth of weed ing shomad her done whell a good growth of weed either to ripen seeds or mathe such growth as womld draw off too mech moistere foom the lated. Where dand wasexposed, and there was damger of the sme
 grass. the roots of which would put back intw the soil the fiber necessary to hold it. They had suffer ed seversy on he Experimental Farm this yen previously been plowed down. Lwnless bron grass was highly recommended as a crop for colti ration in the Prince Whert District. There would he a good demand for seed for several year- 1 , ture The vield per acre for some years at Indian from lne tosm the of seed, which, if well cleaned. prices. He spokeat lengthon fall plowing, spring plowing, and sowing on stubble. Whithy, egand to tofirst hum off the stubble. sow the seed atrout deep and harrow just before the grain appeared, and again after it was up.
Spraking on the subject of fruits for the lfe he spoke of efforts which had been made to produce mens of these froits grown this vear at Indian Head. The apples had been pronluced by Dr. Simnders, at Ottawa, by hybridizing a very hardy but small fruited crab from Russiak oth some of the tive plums had been made the hasis of experiments for the improvement of this fruit, and hy selection some excellent rarieties had heen secured. which
with a little protection be wind break had wiwe with a little protection by wind-breaks had given
very promising results. Mr. Machay gave ready very promising results. Mr. Machay gave ready
answers to many mactical questions on wions farming matters, and was loudly applatuded by his hearem:
Dr.
Dr. Fletcher contined his remarks
hheir nature and the lest way to fight
hats investigated this subjeet carefull
vears, and has had exceptional opphe for mamy studying them, together with ophertunities of methods of farming in all parts of Canadal. The study of noxions weeds.
colling them, he claimed was
property umberstomb and whe a sadimple matter if these ememies could be accomplished with the or dinary implements of the farm, if the principles
of good farmong which were known th moit Western farmers were practised. The two most important points in commection with noxious weeds were how to know them and how to destrov thenk,
Farmers must never allow themselves to think that any plant which is sutticiently athondant in their crop to attract notice "does mot matter." a some saly. 111 weeds are enemies. They mot the
crop of foom, for all plats tat and drink. They crows and prevent proper development. they callse umeressary wpence in every operation lwoth pratn is turned into the golden ibllat which edery
firmer works for. Jome work. more binder twine farmer work for Sore work, more hinder twine,
more staw to cut and to cars, mone lahor in mote saw to cot and thatry more hathor in trouble in fumbe if dirty sed is sown. tugether
with great depreciation in the value of land if with grat deprexiation in the value of land if
weeds are seen growing upon it. The nature of rach aggressive weed mast hest udied hefore effort are made to fisht it. The classitication is simple All plants cat with their leaves and drinh with their roots and both of these omsans ate neressany
to them of they will starve. IIf plant the then or they win staree on panto may amuals. Which complete the in development and
ripen their sed in one year from the time the seed germinates: twoyear plants, or biembats. which
require two yans : and many bear plants or





 mat he dere and the must he staved mut his
 -an with which they drinh. .t.
atere into existence. "reept from a seed ripuat upmap about similan to itself. Namy people speak they thought that a hime of malignamt, special creat on waspmesible, he which-oil turned into weeds ar the ir great disadramtage: but it was no more
 of wheat or oats mates the sead were sown. There Fere howewer woy many ways by which sededs weretakento prown it and mame of these were mentioned, with Feeds which should twe ghardeyl against. Sll were of lenioulture a Wiead bulletion lately isaned by Mr. Bulyeat, which satw moth valuable information. not only about erery wed they weme likery to find upon their fothem. In cases of doult they should write with out delat, amd send sperimens either to Regina or 1). Fhe the himself at (Mtawa, when all atrailable infe rmation would he sent to them at once. Farm. alages of developmeent, hecause man weeds mesent cilnite-a difterent appearance when young and at fullgowth. A-a gemetal thing, it was far eavien to fight them when young than when they were lan attention was dimected to the value of harmowing of Bing a weeder on rop of growing grain. This Operation not only deatreyed seedlings of all kinds of weeds, without injury to the grain cropse but
gave the lat er the seat adrantase incident upon gave the later the great adrantage incident upon
the cultivation of the surfaco whelh would let in air and prevent the craphation of moisture. Fow
this purpesea light harmw with soping teeth was this purphes a light hartow with sloping teeth was
recommended Reverting to summer-fallowing. so well tratof this methoel, hat made ho persistent adrocacy Mrn, and had enhameet the value of thousands of where in the worth . Dr. Fletoher contirmed whe hat leeen satid as to the value of doing this earls in the season, and pointed out, by means of several that the sommon weers whelh he bad with him. down now, without first mowing amd burnins them, that instead of summer fallowing as a means of reducing weeds the farmer would in reality be
sowing his land to weeds. sewing his land to weeds.
samples of many of the weeds prevalent in crops plained, together with practical advice as to their destruction. The omby imtrentuced weed which had mustaral. This was seen abundants in two or them fiells, ame at few plants in small jallches in most tields. The owness of the lather were advied to
 as the last stimk weat, althonsh rate in the dis trict, wat found in a fow places and farmers were Wanmed to uee evely eflont to prewent the spread. Peppergrase evening primuse false tansy, and the year a romappamt with wherably deep roots For this alats of weeds diak hatrwwing in the antumn or spring was adised. Sweot oate was Gound to he prevalent and troubleome in all the recommemb plowine in Lusust in hot weathel
 These meetinge on the whele were de dededy suc
 Ondow the ratway watatain rathed at Willoughter


Elevator Commissionter.

QUESTIONS IND ANSWERS.

## Teterinary.

ars ohld, whith cones lame - in lene a young home has, as far as appeatance coes, pplendidf feet, but lat thimk it was in his loont at he right forse foont of leg. hims there is no-welling. I keep his feed nice: rums
in box stall, plents of stratw, and beep his feet moist. He is a carriage homse: hate a full brother to him,
and this one went season and was lame for about three mont has: he stable, hut if 1 drive him 10 miles he will he quit |From sympoms siven, everially the hors holding the foot ont or pointing, I should say that he is lame in the foot the tese treatment is give him at long est and blister the coromet every cantharides and hiniodide of mercury, of each 2 drs about $\stackrel{y}{r}$ inches high all around the hoof. put a little of the bister on and rub it well in, put a little mon goond hated rubbines Tie his hesel of hat he coment bite the parts. In 21 hours rub well again with the bister, and in 24 hours longere wash off and apply allow him to run in the het his heal down mow ami until the scale comes off. Blister him this wiy about everv three weeks, and give ats long at rest at possible. It would be hetter if he did nowiork until the a vatuable homse it will probably payy It would LAME: COLT-HORSE: wITI THICKENED LEG vears old that is verv lame in it front feet. It spring, and are very hadd and dry ind maneven. It stend on a plank thoor all winter, lut had exercisa land pasture now. strained his lear between the knee and the fetlock washed it twice a day with hot vinegar and salt petre : lameness att left, that leg is slightly swotlen in next issue of Firambres Abom dors and hy sor doing you will! greatly oblige a reader of you 11. The symptoms given are so indefinite to the cause of lameness in colt. Probathly the animal has ringlomee. If so, there will likely ber in Phlargement noticed just above the hoof. or it maty
be the feet have beconedistased from intlammation. resulting from too much standing on dry plathe. In either case we take it for sranted that the
 horse that is repeated blistering som heeping the hest you can sidopt. Wetails for bosister and it "pphention sume as for athe horse. of hiniontide of merowry and iondid. of potis.inim. Was soft water. Fill an som botle with water thid. Then gradually add the Potat-imn iodide
 apply a little sweet oil daily umtil the part-beombe
smooth agath. when wom will apply the liniment gain until it blister, then oil. etc... ite kewp thi up) unt il the patt regain their momal ize Reme
 he Questions and lnswers colums of your propor I submit a few ghestion- in relation to. a disa-d
年
 mb: What is the name of the di-sancomd i- il tmerely an Thewtiom of the..... Thene
 Imlitis. but the.

Bathe the eves well with waron water there
timesdails: and after each bathing thopatell drops of the following lotion into each eve: Sulphate of
 mal hy the hustril and horn and turn his head sideways: then uth the thomb and forefinger of left into the eye out of a dropper or even a small fath If a bolgsing and dulceration of the everatl take plate it will be necessary to touch the part once dails With it stick of luphar caustic: Should the eyehall in most cases cou will sucoed in effe eament and Should a portion of the eye remain of : whitish color (resembling at scum), after the intlammation ceatses you cam either carefully tonch with lumar
canstic dals or mer a lotion compored of nitrate of sifver tol wz water. It Reme I. A.
 mare, eight years ohid. Bhout four years ago small fethock joints. These lumps grew to resemble emall ringhones. On the right foot it slows on the inside onls. The lamps are havel foot it is on seem to the sime when fouched or rublued. She Was never lame Would tramping on herself caus wive adrice as to theitment probable catuse, athd useful paper.
rours, the enlargenenglones. In some cases as in indes and not in front: they are called ringhomes all around. Ilso, in some cases, thement extended appear in the center, or near the centery of the hone, not involving a joint and not calusing lame hesse The enlargements consist in an incrase of an exulate that wats thrown out during the intlam matory stage of the disease. This entaryenomit home becoming diseased before the exme the thrown ont. When the intlammatory stage is Ghevel is seldom ceases, and umless an joint la involved There is seddom lameness even during this stage ness exists. we consider we have effected a if we cure the lameness, and do not expeot to remove the conlargement. When no lamemess is mare alone. The ere is nolameness the cure and you HORS: THAT WHIL


A keaber, Wellington (oo. Ont.: "1 hate : dition. Ihe is a goned driver and a splendid workey onn the farm. I feed him pretty heavily all the Civill I rencralls feed chomped digest his foom Won hay. Ho is always thin and a great mixed with fon or some of your readers tell me what is lihels the mather with himath what todo for him: drome homed is evidently one of the lean kimet anme homes are congenitaily lean: others, while they con-mone sulticient foimb. dow thot thaghly ther houl ter much. From some lethe I infer that h:a cour vetermatianexamine histeeth thevomay amel probably do requir attention. If mecesears have them draced, then feed only mederate quati hay than he will eat in, at longest. I foms: feed gram liburally, and it would be better if you feil foum fomeanaly Gow in addition to his grain. twoor
 will h dry and while he -how- nossmptome, he
 ally If you-usper worme five...neof the following




 "ith "omm- this will tomen. them, oml if will :al|


Mincullathems

Tort per hour let me know thrometh the burn the tion in hellensed the blowers with entire satisface Con in tilling at silo sh feet high, the cutting box
standing un the stomd, amb it pertable thr stamm hagine bering used, but hardle at the tate of tent tons an home the short cut is at the bate of
 not dull whe well experienee is that it pas - th hew the shorter cut as more easile and chosely anden herem the shene and is
 W. T.. Wellington Co. (ont.: - Could von giv where there is lots of fall to wort allopring Where there is lots of fall to work a ram, but
hardly enough of water. Could a tank te placerd saly, half way down the slope to colleyt the wate for sily, an homs and then he released amtomatically
and work the ram while the suppl -hut itself off and collect the sefore hasted, they description of such device, but cambot say where".


I I tank or i-t ern tor the water towher ing it up. face




The mode of operetion in this wise When there Tho water it the cistorn, the cop will wat on passing out to the ram. When the cistern is nearly full, the thoat will puil up cupe allowing watere to will wam. raine and mons hollow and light. Ghen sette down and le held firm in plow it will Top of ristern should the clacel toprevent frogs ander therupl and prown it fome might gee lis dimen-men of thatwht, ram attachment
 thickners the that tor la. Iment diameter ath 15 tell dewp celin
 Mtomlina up, thanch diametere,




 thiche.... Th. shet at the upur.
 hemi-pherimat. the hates inch.

 thichm....willto.e the rize and

 those conditions，It takes considerable patione and skill to get the vere nest ont of a homee that to impmisible to makeran actor out of a home that is not hred that way．There are of comser exap

## h．HBTNINGEOD CONNETION

hany in London known ats the Ontario lightnine Rod coos A man came here latet fatl．clathing Fepresent that（Co．and put rods on one of my harm－
and made only one ground commection．Xow an Wher man comes along and says there is now－neh
Co．in existence and that rods should hate two Wround comnections．Ite wathts to sond anothre harn What is gour opinion on the ground combetion：
IAfter considerable inguiry
ons such orme ikgis in tombunt learn of tario Lightning Rod Co．In our volume for les．We natle liyhtning rod that hat heap form of homed tom do the cloveds to the conduct ing electric．curtent itom isisues of Jugust ath．September dithand september 20nh．The rod is made of nime atamels of S．．．．． connection is made he inserting then ond of the made by a wo－inch well ather
 are notehed and the cable is stapled inter the

 renty feet apart and wen feet high．They ont ohter point has separategombl comberem．Thi－ Wh Thome Baty Middlane（o．．Ont．He amd hi－


 ing ，hich ens med duchs for mathet．I moterstand hat tore the highest prices one must have the dues not heak up beton，April here，it would be necesany to heep the hinds in warmed houses．I ams anciue in poultry ratising and haven＇t a lot of but I am chase to the bush and can get any amount of lugse tirewond，etc．What would he the most in－ expensive way of heating a house for chickens，and ize of house for＂al chichens and 100 ducks duck－
lings toh hill at 10 weeks Would it the necessary to have brooders if ome had a nicely－warmed house for them torm in，and would it be bad for them to he in ：homse ath the time Now，sir，this is rather a lange onder．but I want to know what is best in of cailh hand－ran ad．ion into experisive things 1 ，rthoul：so if ？on would kindy answer thine questons and uffer any hints that you would th you．（am I get a beok which will tell me how to Thepoultey in the correct way for maket
 ing mome but inactual practice tosuccessfully raise Chichens I Huize ahout as much experitnee as well Wher owupation you can hame，bery handsome
 yery simple：but on a large scale fowls are subject rime We，would advise，unless you have had very con－ －iderable experience，that it would be well to start experience the many little things that can only be Gamed bactual experience，hefore venturing to but much capital inte the
pamphet fiving full descriptions of fattening and Aresing bultre for market．
We Should la pleased to

Wee hould be pleased to publish the experience of partical poultry raisers on the questions in
En．F．A．

Dominion Census Commissioner


Chatty Stock Letter from Chicago．

| price： |  |  | Pri |  |
| :---: | :---: | :---: | :---: | :---: |
| Reef cattle． |  |  | $1 \times 9$ | 1898 |
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THE BIRI ON ITS JOCRNEI

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## Adhersalll lethers to Cousin Domothe Box (4)

The Lookout Regiment.

## 

 orthwes Territory Cowam, Mave Bemantsare: A. Tond, Monie A. tang. (ieorge Rowem. Lama (hiltom. Vielson 1) Indalestone, Bruce Johnstom whotakes a deep interest in foul all reat person. sonters wrotes: a | will tro to keer the twe mes to strent. Thope the army will increase and help has ". read with peasmene Amother says she and hopes that it may be a great succer Regimente sas ${ }^{1} 1$ will do my biest to follow the two rule think this is a good thing. and will help it on all Thave no room to quote from all the letters, but Which to thank Fhorence (ratige esperially for hers Dont forget that all bot ters for the first priat Compust. (iondthot he prosted laefore the end of

The Vain Chipmonk





Tour bownatriph coul and your curly tan



rab and atumel the fox on the gromell

## Making Nunshime

I Was stiting in my room looking out upon the and the sum "use Tho day was a dark, cloudy one that hat ondy theen himing, it would not have wiephed sodreary. I really fill downhearted and III shine out agatin
I was stantled a litt bey a quick rap at the doom and as I opered it a litt kirl stopped in with some -. Why. Kits, whore did vou come from the aromy day 1 asked as I canght a glimpse $\because$ Righe from home and I bromgh you a blossom Now attowored. She rille the the heroht cway, Nowne and a- I stompol to kiss the fatir fate lofore "How rombly you that topluch the flower, when Would hav, ronained freh and sweet so much Hhey mad. the tomen an hom my geranium,


 Th..
 Wh. - .h. inlight, as the hindly deed ambixht to the - woul.

THE QUIET HOUR

## Kuline the Tomene.



We all know that the tongue bath nomp member, very hard to control. Whe have fompd that out by sad experience only too oftom. Perhaps that
was one reason why people whomere tryingtolead was one reason why people whowere trying o
holy lives used to run away fromsometyanget her. fancying the were safe from temptation if the never had anyone to seat to. living a hermit
life in a cave maty be one waty of heeping the tongue life in a cave may be one way of hephing the tongue
out of mischief. way. Besides, it is not open to most of us. ewen it we cared to adopt it.
St. James says that every kind of beast, bird,
serpent and fish can be tamed, "hut the tongue can serpent and fish can he tamed, "oht the tongue can esperially as he has already stated that any man who seeme to be religious is only deceiving himself
unless he suceeds in bridling his tongue. Ite unless he succeds in bridling his tongue. Ite
seems to think that if ans person is athe to perform this almost impossible task, he will he able to controf all the rest of his body: "If any man offend not in word, the same is a perfect man, and able
also to bridle the whole body. If this is a proof of perfection, then we are very far indeed from he ing perfect. How seldom does a day pass without oun parfing something which would have been better left unsaid. Of
ten and often we would sladla re tell and often we would gladly re
call the words as som as they are call the words as som as they
spoken, but that is imposilile.
 Think of all the quarrels you have
heard of, or have been mixed up heard of
with.
His them, at least, been ca words One person has about another, behind his hare h
and some kind friend hat then
and the trouble to repeat these words to the injured parts. And, just if tale-hearers were only sat upon as decidedly by grown-up people as
they are by schooltoos, the world they are by school-moys, the wort
would get on much more confort. ably than it does.
"Behold, how great a matter
a little tire kindleth!" Fizes of a little tire kindlet th anger and hatred, which rage for by words, and fresh fuel is constantly being heaped on the con
tlagration by mone words. What Hagration by more words. alonat
about ourselves about ourselves ine we alwats on we dont start the blaze do we never add a few sticks when
we are discusing the matter: 10 e know well We atre discussing the matter dom does any thing but ham, and we dont want to doharm. Why, then, are we always so cager to dismos intating
subjects? subjects:
Do youknow, I believe when we try to contrin of beginning at the wrong end. Thie tomgue is at sort of indicator of disease withon find it fund and lowk at at mans tongue, and fors with cleansing wathe topluify it. If he could cleanse it in that


Whers, we shomk mot winh to speak evil of them.
What is the use of cle:msing the tongue, if the darkness and corruption withinareallowid to grow Worse and wose so, say, weratent the beginat
the wrong cond, when we tive to contool our conde tather than cour thou,yhts Wath must be. kept wer the door of bur lipes, of course. but it all our wode would fall imblo line matmally and casily:
 wods alome will hever cure thi evil. hou cant !rom grapes on thorns, or tigs wh thist les, athomgh You might be able totic them ons se elerepty hat the word would be dedeived low athe hatr, athd will not be satistied with disciples who aty amto Him, Mord, Lord, hat hring forth mof truit of lover joy amd peate. We have need, then, to be caremal
with words, forr thes are shatpedged lools, and may do terrible mischied if they are carelessly handled. But we have more need to the wath hfit over thoughts, for they are the material from
which wordsate made.
Reep the heart with all Whiligence: for out of it are the issues of life. Fovil within is sure to come to the surface sometimes therefore one whate wods are alwas pertert man be holy in thonght as well as in ant. Only one Mam
was ever porferth sinlese, and and his comies "all the motward ing of this holines, sayins, $\because$ Nover man spake like this Mam." "hen a paraTyed man was lowered to the fred of the (omod Physician, He was not atistied with healing the
bodily disease only. which was an effect rather
 given thee : then of that ancisible healling. We satil.

the bagle House, and thee Arling
ton ate run on the Americam phan. ath be travelle pone preas, cottages the first meationed. and one hat still the privilege of enjoving the
 these hotels and those of New lowely palms. plants and flowers
ancow in the and inst aidd of in the corridors and oftice.. WBell, whe might linger and linger (with
Hoppieal tardiness over this most fascinating island, hat we must lemember that we have written a
little about it before and so beware of possible repetition. We were for
tunate to bee then. Win tunate to be able to land at all
this time. for there has had to be such strict quatrantine in conse-
guence of the Bubonic plague Which we had to be examined four different timestongues and pulses
during our return boyage. Tourist: who have heen going round the Word hate heen teribly disap Srise and tahe up thy bed so it with this ponted a hat law of gatantine wats strict a calle. When the soul is hated and chansed. Is adhered to. pon returning to our ship, which
 heat, so is ha. Wie meve tormeal ome real


## "Nhetchine from Nature









SMand of the Enerivh Latlename

 wheriatey and also you hate to get acymanted "hate down fonto pasiengers, and is it wewe chough shaking! ilell, after these preliminaries of fon went on sames, prizes atc. In imaginaty
 We thing in onder, the ship presenting the honand lady with a magnifeent cahe. grandly iced. and filled with silver bits, nutmegre, thimble bon-
tons. .th. Then we had a mock trial. The prisomer tonsenco the we had an mork that the athongst the passengers) was accused of "riotous behavion with
intent foreretheship!" (Out of this an in whathetintent foreverthe ship!" Out of thisam ine wamst-
ible fund of amusement wats ohtained. The men The fund of amusement was ontamed. The men of the witherses was k biltingly fumby, the counsel Cor the defense being equerially chever Nko we had at judge in wig and gown, which made the
whold Ungs most reatiotic. With thesediversions. arompanied by the loveliest weather. the week. sliphed byand then we had at day at Homoluln
whinh seemed aren more perfect in beanty and Which seemed eren more prefert in beanty and
whate than when we were there be fore Gentain
 Pacifice. Agathe we wathed and
drove and shopped, and asain whe Were astonished at the state of comparatively small to which this hamparatively small and new city tion amidet such at shas civilizaieal luxuriance! The the of trophotels the logal Hawaiian Hotel.
the Fagle House, and the Arlington are runon the Imerican plan.
and hate every convenience, and,
delight ful under these cirmonstances. Another few
home ashore was allowed us at Victoriat amd whint homs ashore wats allowed us at Victoria, and whint
a rush did we make for the fresh fruit, st rawher ries, cherries. etce. Sime of the men satid they just good roll, so delishtful did it and have a regular royage. This wate of course, our first footing on home soil, athough only for a few hours soon now would most of us separate and be whirled away to the four winds. Our genial fellow travel-
lers were from all parts England. Ireland, Scot land, spain, etc. bome gong romed the world. others simply bound for certain prints. All were looking forward to a pleasant feer days in lancou opportunity, though, of entertaining them, and opportunity, thongh, of entertaining them, and
sorry indeed were we all when the inevitahle $\because$ good-byes had to he said. To meet with clever, travelled and genial companions is truly an education which, added to the travel itself. makes ones
mind feel of a very different size. It is a mbstery how anyone who has travelled, and thus seen Xitures glories and met with cultivated. intelli-
gent people, can br vain. However. we are not gent people. can be vain. However, we are not
roing to moralize now. for again are we on Going to moralize now, for again are we on, "1
Cwn shores far away yet, hut still cadilla:



## Whew: But the Wind Blew.

Iovine hours on therg seatories, who opend- his heinure hous on Long thand, hat contributed this
talle of the dangers of the deep to the New tork
James W. Eaton and a party of friomds had at
thrilling thitt six homs experienne on the ice orold thrilling thirty six homs experience on the ice-cold
waters of Long Island coast. The paty left the whart at babylon at $\overline{7}$ a. Mo., in the new taunche lige con route for lew lork. The hoat worked well un-
til after the little craft wats well out on the ocean tilatter the little craft was well out on the oran and headed due wes for lew hork. Then the
values of one of the chyines began to show signs of giving
bivery
Every ellont was made at one ore repair the dedi"ate mechathsm, ght was im avail.


Born of adetermination not tot won batk, the batae crew refused to believe that ther wow in imminent
danger, and remarked to eachother that they would he in the hartor hefore night.
The tiny cratt with her crippled engines comtinmapidly increating wind. which was begimning to mapher male.
Warkhess soon came on and the trath hat lome
"re this devfeed out of sight of lame.
biv this time the sravity of the
at che the time the gravity of the stantiondanned at one uph the entire compange and inst cad of with the other.


 The cabin wimdow were butched downami th. feared wasthend. Wed and wath tor what they The wimd continued to bl
(1) pitchath row like a cork
Whe seas brope weer hot
Thesere broke wer hor combtants, seep was dangerous batimbe. the compans -anh lower imd low. Finally day dawned and an obseration "as
 Howk. 15 it wa- light the and ho. Wa- asain
 jowney intu the fort. The wind wa- coming
 finally the hoeah wat tomportily wo pitad and th... Tese The the intw the hat bor wat ber - Fow. hat the
 incident- of the top whe related wond revarded th..

Birdies Lallaby.

## Recipes

Von one part vare sour apple juice to tro partpeach inice, and make like other jellies. The skins
of hood peaches makes a delivious jelly. These make al mice jelly if proportion of the seeds are red. Heat, crush and stram, and use a promed of sugar to a pint of juice. 1 very nice jelly is made by using half red and fruit and leaves: heat slow crush and crine it a small quantity is stramed, the bag may he ropezed without detriment to the product, but should he
washed often. Heat the surar washed often. Heat the sugar: use pint for pint,
and treat as directed for rhubarb jells, boiliner twenty minutes before the sugar is added. ('urrant felly should the made on a sungy day.

TTTI-FRTTTI IELI
Six together equal quantities of ripe froit comhama, chumzes well add two poumd red bapherries pint off juice, and tinish libe other jelly, but with al lithe lese boiling.
fonl of peat tapiont of ripe cover it with wahd water, and ful of peat tapiona. corer it with cold water, and In the monning add a pint of boiling water, and simmer until the tapionaisclear. Sweoten to tate te, amd add the quart of soned wheries: turn into a serve with whiped cream. Strawlertienose on ond fruit may the used instead of chetries

gronful of sumar of stond two of wateres ald a table a crust as for at stamed pulding. pat intor hape. and stems an home corve on a deep platter with

wer, and led ratand haries pat emongh vinegan to Td, a mound of sugat to one pint of juice. In in it it mimutes and bottle
3 egs. ap eath of agar and bumbryt, add
Puontul of satt, and flour tokneads when light, woll
surat and cimnamon, prinkle with wolante. woll. "It into tombls, and bathe atmout en minutes.
Hare the comants quiteripe weigh and to Noh train the juice adding half a pion oin watar toum
 iNCLE TOM'S DEPARTMENT

March May and dume and even dull Xowomber
 of her istera and crowned bivether Xature with -ae the bumteone field of soldon wavine mat jovou-ly unconseme of the Mproath of the h.wn ath asain the mixh IPrn aftermath whom







 A1.

comatruct largely on the looking glass principle and reftects to each individual much of his own promatily if that be pleasant, the world greets a-pect. Smites are as cheap as frowns, and much lighter to catr, wo should keepa large stock on hand to brighten oll now lots and be a blessing to
 lour lowing I wite Tom.

## Puzzles.

| [The following prizes are offered every quarter, beginning h monthe of ipril. July and Oetober For anwers to <br>  Puzzlex must he orisinat that is must not be copied nother papers they must be written on one side onty of ompany all original pupzle- (preferably on separate paper). not necesary to write out puzzles to which gou send anor the number of puzzle and date of issue is sutticient. of any month hould reach lakenhan not later for than the In the sth of that month. Leate enond iswe not later |
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(i) Fom Ir raining io aduk on hriown




## 

## Answers to July ith Puzales.

## 


(iRATEFII. IOH:



A Little (iirls Lament




 Rovit wat ond

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notice.

GOSSIP
Lant call for the Flatt sale or shorthorns " Chicago.
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of it
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> notice.

Chickell Fattenine in Wertern ontario.

Soiling a Dairy Herd.

oiling twelve to fours. Etc. My own experience in horses may be briefly stated as follow: Thecuiting was done with a D. M. Osborne self take reaper lo 3. I began with a scy the, then the mowing machine but the reaper was the thing, throwing it off in gavels in the best possible way to facilitate handling, and where it will wilt without drying out. Monday morning, for instance, the farm team is minutes enough feed to a days. This reaper to supply the stock for two this purpose, also for cuting the ee seasons for Nowadays the self-rating reaper hat remewe corn.
 several binder companies, saving that thes with guarantee their machines to cut the sua wil for soiling, and no doubt they cam. It need not and should not be bound. The improsed com rutters leave little to be wished for in the gathering of the corn forage for soiling or ensilage, and the work and expense of harvesting are with these machines reduced to a minimum.
belarering to Barm. - I one-horse lumber wagon ruck or half truck with wheels two and one-half to service and will will be found to be of great service, and will answer the purpose until the when a t wo-horse waron with wide for ore (which is also most nseful in havesting things fodder) will be found advisable.
The box for the wagon 1 had in use for this purpose was a double one: the upper box wa- put
on in four separate pieces two end and two side on in four separate pieces two end and two side.
boards) which projected over the sides of the main box.

feeding soiling crops, and that is to the cathe.
fastened in their stalls. Fach cow gets her shame. with no running or chasing about. She eats what possible position to be milked. She is her the best omfort is assured.
Cantom in Feeding. There is more danger of
feeding too much at a time than not enomyh. Ther
is no doubt but that here ties he discouraging results in suiling. Of the three ure was

MUSIC


NOTICES.


GOSSIP.



Mistakes a beginner is apt to make $\quad$. C., teeding time, and feeding too much sowing a time the mather at at probably the greatest mistake of the three. in her manger than she can eat up clean at the time will go hungry sooner than eat it after she has breathed upon it for a time. This, of course,
causes a shrinkage of milk, and is, I am sure reason why the soiling system hats. sure, the cases. been condemned bystem some who suppose their cows abundantly provided for when
their manger stands fuil of feed understand how it is that their cows They camnot well at soiling as at pasture, and they jump to the natural conclusion that the cow or cows are pining for open pasture and if they turn them out they
wonld undoubtedly gain in milk for then ther would say that their cattle do better at pasture than at soiling. The trouble has been that the ir cattle hare been hungry in the midst of plenty. ater at cow breathes on forage left in a manger for the feeder it looks bright and fresh, and she gets no more. perhaps, until hunger compels her to cat
that mp.
Whatever you do, always remove from before ing them a fresh feed. You will be surprised some mome when wou have greedily at a fresh feeding at she failed to eat in the morning. her manger what
If there is anything left in the manger, pass it
over to the hogs. They will be very pleased to hass it
Ifonner of Forling. Experience has taught me that, to produce the best results from milch cows feedings.inmy experience have times a day. Five hanfor, and just as gooblas six.
To think of feeding coors five times a day, when the usual custom is to feed but wice, maty a when a great task, but by systematizing the work it will he found not nearly as difticult as one may imagine. head of cattle five timies a dar in feeding fourteen mon. and at l and $7 \mathrm{p} . \mathrm{m}$. Enough feed has been, deliverad to the barn the evening before for the mamerem when they when tet infer cows find in their Hardor paddock of orchard where they haven spent the night. Ifter breakfast the farm teame is haif an hour has cap enough forage to ly minutes or and ha- Lome oun to its regular farm work. I found a bey lifferon or sixteen years old quite able to do digux work of deawing. feeding. cleaning
day to devote to the regutar farm work. After
hreakfast the boy feeds calves, pigs, etc, and at with the one horse wagon goes to the field and deliwe to the barn the $s$ oclock feeding, which he leaves unto mangers from the wagon, and feeding. The boy is now at liberty for the noon
fork els where on the farm or in the dairy. At noon the forage that was left on the wagon is given to the cows, work of ten or fifteen minutes. Other he yoes to the barnd puts the boy until 33.30 , when and delivers to the cattle their toclock feeding. He
then draws in ene ing. and the first forage for the 7 oclock feeding morning. He then cleatns the stable the followmilking, and at - oclock gives the final or fift feeding to the cattle. which is quickly done. This ends the day, with the exception of turning the free access to water in for the night. They have the night. They require no vord when let out for
day thus relating my own method and practice in providing for fourteen head of dairy cows, I am well to every other man's case. It is hoped, however the general principles of the correct knowledge of whomay wish to adopt it willhave so that those an absolute rule. The things insisted upo absolutely essential to success may be summed up
First Feeding the catle in a
imes, turning them out at nirht Second. -Sow every week d.
and June enough ground to supply a weekrs feeding Third. Remove all forage left in the hefore each fresh feeding.
Fourth. Feed five times a day all the cattle will Fourth. Feed five times a day all the cattle will Fifth. Supply perfect ventilation. Open stable doors at night Keep doors and windows closed Biat this can only be done when the barn is properly But this call
rentilated.).
These five
These five rules are latid down as the cardinal arinciples. As to all the rest, use my experience as adopt any methorl that will best serve the five,

Theletters and articles on wheat growing and (1) many readers, being esperially seecial interest to many readers, being "specially practical and
timely, and are worthy of more than passing
notices

## SECOND ANNUAL SALE HIOH-CLASS SHORTHORNS

dexter park, union stock yards, chicago,

## Tuesday, August 7th, 1900.

60 IMPORTED AND HOME - BRED SCOTCH SHORTHORNS.

|  Fat-imported bulls in Canada: $1 ;$ hoiog imperted bulls, one to <br>  - fimt prize Catadianthed two yearold bulls. of first-clas <br>  and hoitor. Thi <br> ज1a- Showhorm . <br> - dmithedly the ber- <br> comsignment of high |  |  |  |  |  |  |  |
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Show Bulls and Show Cows
 Cattle purMr. Flatis


## COMLPLETE REORGANIZATION.

The Manitolat Fiammes Matmal Hail Insuranto (
 GROP ACREAGE ONLY INSURED, $\begin{gathered}\text { qemuneration } \\ \text { S5.0o per acre }\end{gathered}$
limit wf ascesmemt reduced to Four per cent. (enmals: - 1 ) (rent: per a(re). \$2,000,000 Insurance in force. (ionl reliahle local asents wanted. ('mresponlence solieited.
W. C. GRAHAM, MANAGER, BOX 672, WINNIPEG.

"DOMNNON" PIANOSAOBGANs


Maw's Poultry Farm, Winnipeg.


David Maxwell\&Sons, st. many's. ont. Steel roller bearngs Improved steel frame


CANADIAN DAIRY SUPPLY COMPANY,
236 KING ST., WINNIPEG, MAN

## The Stevens Manufacturina Co'v,

 Manいたaturers of The Stevens Portable maction Engines ${ }^{m}$ Separators

ERTEL VICTOR HAY PRESSES, STEVENS WAGONS, CHALLENGE SLEIGHS.

Stevens Manufacturing Co.
124 Princess Street, Winnipeg, Man

The Veterinary Association of Manitoba.


Shorthorns and Berkshires.


Sitio oㅕㄴ․․
J. E. MARPLES, dELEAU, MAN.

## Galloways

T. M. CAMPBELL,

STEEL BROS., Glenboro, Manitoba,
Inrinime (attle.
Jersey Bulls
Rare Chance

LEICESTERS!

## Do Laval Gram Semaratos <br>  <br> In the handbills now circulated by the R. A. Lister Co., who appear not to be bentath resortin, to all

 manner of trickery and low methods to bolster up their separators, they are accusing us of willfully perverting the truth, claiming that we deliberately put in that testimonial o! instead of :2Now, we think it is evident the mistake, if there is amy, must be latid at the door of mo one but the ir travelling representative," or ex-D airy Commissioner C. C. Matedonald

We are quite sure there is no man endowed with common intelligence, and who has had any experience whatever with Geam separators, who will not concede that there never was a Cream separator put on the market which could not at any time skim down to .1, except, perhaps, the "Alexamdra," owine to it heary gearing and the ditticulty of keeping up the speed while skimming, or such fratuds as the so-called "Hydro Lactic separator" which has ever done as poor skimming as would be indicated by .2

If, therefore, in the testimonial referred to, the ex-l)airy Commissioner has written .2 instead of ont anyone moderstanding the difference of those two readings will easily conceise that it is obvonsly cansed by a Blunder on the part of satid Commissioner, and which camot be rectified be merels accusine us of falsehood, and would, in the eyes of anyone possessing the least knowledge of (ream separators, stamp, its author as a man entirely incompetent and lacking the fundamental knowledse of mechanical separation. We have never looked upon Mr. Macdonald in that light

It is, however, well known that at the time the satid testimoniai wats writem, and ul to the time the (iovermment saw fit to dispense with Mr. C. C. Matenald's services, he considered the Je Latal by far the hest Separator and said so, and we can well understand the inconvenience it mow callsas the ex-l)atiry Commis sioner and his employers to be confronted with this fact.

We sugsest, however, it would have been more gracious of the Mandrer, Mr. Scott, toward their "tratelling representative" if he had taken the medicine as it came, instend of trving th sweten it hy diorem up a humter, which centainty for the sake of Mr. Macelonald had better hoen left lombed

I'eople who live in glass houses should handle stones carefully

In the contest at Portare lat Prairie, the mamer their "travelling reporentative" imsist ed, and for arond
 thoromohly

 or reading will bonteit, to wheh we hate repeatedly challenged them, fully aware that mo mone fomy work

## CANADIAN DAIRY SUPPLY CO.,

Winnipeg, Manitoba

MAPLE (AROME FARM. Norwood Bridge Poultry Yards, IT'S A WINNER.


The FORD STATIONERY CO., PLEASE MENTION FARMER'S ADYOCATE. P. O. Box I273. 407 Main St., Winnipeg.

## \VHAT"S IN A NA, IE?

## THE FAIRCHILD COMPANY, LIMITEED,

The John Deere Plow
The Moline Wagon
represente (i) yearsexperience.
in plowmaking. It has noemal.

The lightest-running and beest

The Wilkinson Plow
The Milner Wagon

BUGGIES, ROAI) WAGONS, SURREYS, CARTS, ETCO,


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