*Agriculture, Stock, Daíry, Poultry, Horticulture, Veterinary, Home Circle.,

Vol. NXN'I. WINNIPEG.
APRIL 20, 1901.
CONTENTS OF TIIS NUMIBER


## 




TMA wrou a likstres sukrukr















Matisig Duke Hekit




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Binow lums.






me madazing
har Fown reme
Gur cmankers Corneh
Tas Quent Hot
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into line on Aprit lst, and spend a fev
months from that date in one of the depart
ments

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consideration. Write for catalogue. No term from April lst. CENTRAL BUSIMESS COLLEGE shaw, Priscimat.
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orramenta
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LIGHTNING WELL MACHY
PUMPS.AIR LIFTS.
GASORINE ENGINES SME

doorerment Hail Insurance．
Prondically，for the past fifteen or sixteen your neen agitated，more particularly in seasoms follow ing disast rous hailstorms．These agitations invari ably come from locatities which have berol most
serionsly atfected．Several times have hills Ineen introduced into the local hagislature hy mon who have given much stuly to the question．Mr James
 just closed，Mr．James Johnston，the member for Turtle Mountain，have each introduced Drovincial hail insurance bills，but each in turn succumbed in the committee stage．The more the details ar ooked into，the more insurmountable do the diflicul It may be literadly true that no district is sulf rom hail，yet there are sections that have never suffered loss from that source since they were ettled fitteen or twenty years ago：while othe districts have been visited so frequently that insm ance of some sort is consitered necessary．The ame condition exists as to frosts，windstorms，etc． and in such locations settlers adapting themselves condicions have become prosperous in other hine Whiculture apart from exclusive grain－growing his puwinet is dependent uron he prosperity the farmer，vet．when no direct benefit is to be derived by a genemal hal tix excopt be the farmer t is certainly not just to ask othere the ont milote to the fund．Not only would the residents of th fowns and cities objeyt to such a tix，but there is arge proportion of the farming community what would also pesist such a moposition．for there we exten－ive areas in the Province where compara tively little attention is gisen to wheat growing stock－rasing and dairying，and the growing of heans of suconiong proved the satest and sures almost welusively to stock tatising and ranching Mmatly an prosperous as those in the more exelu sively grangrowing districts，In this connection In what ate termed the wheat sections there ent fatmer－The careless and imporvident crop a phopertion of the it land year atter yeat
 mom pmbent and intelligent．in order to maintain Ystem：is cotation of crops including summer
 Ahe：Thathour hity per cent，of the cult In the farm of the carelessand shertsighted fome who，throm his locationor patst experi－ and mataon to lear hat would．ander Pro年 Pomen that，wind，drought，Elatshoppers，on ，no compensation．
 nomame rates ate too high．＂Šow，we su． interested in adrocating the ratuse of an cre eredit is due leratand that the Provincial Mutual Com Auring the ten yeats of ite existemec．palit hus every year，and many farmer－an ompans，been sated from what apmatol

Fan－when the domake was light，the rates charged
hatre lown al low ： 12 to 1s and ${ }^{2} 4$ cents per acre．
 P－r armandoment was not sufficient to pay more Thans．，ol．an，and sis，respectively，for these years aroller years sti per are for total losses has heen pain．Thring the ten years the company has been mog conts，and an aremgerage of ssessment has hee total losses．In the cuse of and er comen the ＂İetern Cinadiam Hail Insurunce（ompany IViavamesa，a joint－stock company which has been in operation only a little over a year，all clams have been promptly paid in full．and，as far as we can learn，to the satisfaction of the policy holders．This company，being a joint－stock concern，pays its losses It the rate of s．s per acre for total loss，irrespective of the collection of premiums，and has adopted a graduated scale of premium rates based on the actual hail experience of the land insured，on the ame principle that fire insurance companies charge graduated rates accoraing to the hazard of the masiness involved．The rates are as follows： 17, emt－per acre on the quarter－section upon which ne destructive hail has fallen during the past ten years， 2n cents where once visited by destructive hail in the ten－year period，政；where there have been two for four times
We do not here propose roing into the wespee ive merits of the mutual and joint－stock systems insurance，but have cited these cases merely to show lhat all hail insurance companies are not failures The cost of insurance is，of course，regulated to large extent by the volume of business done and by the amount of risk carried．If a larger proportion of insurance could be secured in districts little sul－ fect to hail，then the hazard would be comespond ingly reduced and the premium rates could he lowered．

## Syndicating Stallions

The question of horse－breeding is a live one in the Wiest at the present time，numbers of farmers heing anvious to beed their mares the coming therefore high in price，with the result that indi vidual investments in such horses are likely to be few．The prospective stallion－owner has several Geasoms which tend to hold him batck from an investment in a stud horse．The high price，rang hig from at least one to two thousand dollans：the risk of losing all by an attach of colic．the ditliculty of collecting stad tees，the expense of advertising
 are herse－deeding to be remuene of great the best sires maly he ased，so that it behooves the intending heveders to cast abont for some scheme Which will in－me them the bae of a good homse The sydicate system，in some form or other hy divided ammensemal，affondabome the omly sond coutural sontery（and do quond work，by offering distriet ghatameeving a cetain momben of mates a as sated priwe It may not be senerally know piated tive humben dollam（xan），to be given in －ngate fitat chato registomed stallions，guaranteeing W）ha－whain in sombland at the present time．I －matate whld be Whed of fixe or mone first crats Gagionm in thein dianio．Fanh man might have hrew enond mate hat th the howe and thus would

the lessening of the risk of loss by the shareholders A stallion thus syondicated is bound to he well advertised，by the very fact of several being inter ested in him．To be successful in its operations （farmers we mean）．some of whom must be good judges of a horse：the horse selected must be a good one and sound，and the stud fee must net be excessive cullions can now be insured under eystem of livestock insurance，so that any probable loss may be mimimized An association of men as indicated，who will stay together and by their agreements，wif be a power for good in the matter of horse－breeding．syndicates for such purposes have been wrecked by crooked dealing，gross igno－
rance．etc．，heretofore，but that is no reason why others can not and should not be successful．

## Arbor Day．

Friday，May 10th，has been fixed upon for the observance of Arbor Day in Manitoba．Prepare to preparing the ground for planting next yearees or

## Farm Siftings．

The poet says that＂in the spring the young man＇s fancy lightly turn to thoughts of love，．，but he does not tell us the direction in which the
thoughts of the farmer turn．However，from prac－ tical experience，we know that several matters call for attention from his think－box at this time，not the least of which is hived help．Good help is hard to get a statement no one will be prepared to re
fute．That product of our present tute．That product of our present farming system，
the winter loafer：whose vocabulary of oaths is as extensive as is his love for poor tobacco and spirit uous liquors．is at no time a desirable inmate for the ordinary farm home．The farm is the place in childrenare being reared fiee from city viciousness yet this advantage may becompletely nullified by the bringing to the farm hired help of the class above described．In order to obtain good workmen．in Parsimony in hired labor is as deadly a mistake as can be made by any farmer．The evil effect of the man of low character soon shows itself on the horses and other live stock of the farm．the imple－
ments．and the buildings． either sex）in the spring．and let them go in the fall． or．perhaps offer the band for the winter＇s work the latter a very poor equivalent for the attentions easy to pescribe but on sotatlet remedies ar or so certain in their effect－I suggest as follows Hire at a good fatir wage by the yearsand alsoon the Profit－sharing hasis，a man whose mind is above the town as is so aptly expressed it litle for the ote－keeper
 churn．butter worker，daty thermometer，good sall printed parchment papor and a hevel－heated mat it comes to the making of that delectable article cleanmuty－－limomd buter．The above combination bimes for lack of－bitahlo cows．speat ing of cols Ghomethom whad wo by the hase of dairy sires she datiry hed animal is for the specialist，with goond Will not stand tampering with by the wee of dairy
 gratucrusther．thene the cattle are in fationg condition． Did the elese relation beeween live tock thrift ime
$\qquad$
か Wenterner The armuent an sume as regulating the rainfath or minimimethe chance land－ape thigether with the shantige to at com th


IHE FAHIMEKS AIMESA!

Tbe ARMER'S Advocate and Home Magazine
the leading agricultural journal in THE DOMNION.
 -mucaronss-Eastrey the willian weld coupan Whertrex Orncs: Eastren, Oerce:
 Lorsoon, Evelasp. Orncer: *. W. chapman, Ageot, Fitalan House strand, 1. ThE FARMERR ADN

It tieth of each month.









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| :---: |
| THE DA |




## 13. Lion inc





-THE FARMER ADVOCATE, or

Vy (Lumpro),

namely. the moncy caluc of di crop of trees. Some of the Governmental forests report an annual income of
as high as fifteen dollars is $\$ 1.1$ per acre. If Canadians expect forestry as a scheme to go. the moner.
making part of it must not he forgotten and supervision of the work needs to he given to per sons holoting higher qualifications the given to party peel-
ers. The O. A. C. (iululph. hias turned out Several ers. The O. A. C.. Cuelph, has turned out several
men well equipped along horticultural lines. who
could doutlesche henefit to all concerned.

The question of compulsory education was brought up in the i.gislature recently. and not be-
fore tiue. There is a yreat need for such a alaw. not only for iynorant parents but for some who are
fairly welleducated themselves, and yet deny their childiven even the rudiments Res and yet deny their
 be in cases where prrents, either from sheer
carelessness or love of money, keep children at home carresssess school entirely, and thus allow them to grow
from shem up in comparative ignorance. Ignorance produces crime in the majority of cases so that a vigorous
compulsory edacation by law will not be out of
place in the Province.

Provincial Hail Insurance does not seem to make much progress through the legislature. Spoon-fed
people never amount to mach. The exercise of people never amount to mach. The exercise of
paternalism by a (iovermment paralyzes individual
effort and iften effort and often demoralizes the beneficiary.
(iovernment Hail Insurance would open the way to
 early mising in seding time it wold discourage
gravs seding and cattle breding. place a premium
on laziness or incapatility, and lie a distinct encoumgement to one line of farming mumely ex-
clusive geaingrowing. And that wold he ietro-


No-W. T. Farmers Institute Meetings.
Through the joint efforts of the Territorial and Dominion Departments of Igriculture the former arramging phaces and dates and atvertising the meetings, and the latter furmsing the delegatesFarmers institute meetings were held throughout the greater portion of Alberta and Assiniboia meetings were well adrertised and the worl, well planned, the country being divided into suitable sections for the different delegations to do their work advantageously : and those whose duty it was to plan and advertise the meetings deserve much
The places of holding meetings were not limited to points along the railway, but included outlying The delegato well, as the accompanying list will show. covered that section of Assiniboia lving along and including a belt fifteen to twenty miles on either side of the C.P. P. between Morse Jaw and Wapella, the following being a list of the meetings
held, together with the attendance at each : Moose Jaw, t1: Marlhorough. 2a: Lumsden, il
 Arad, in: Sintulata, lio: Jolseley, (i): Eillishorw, mede, (ai): Wapella, t0: Hillburn, lia. Total attend
The members of the delegation and their subjects
were: T. (. Raynor, B. S. A. Cultivation of the Were: T. (.. Raynor, R. S. A. Cultivation of the
soil, and composition of common feeding stuffs ; ID.
Drent sheep, swine and poultry, I. Wi. Mitchell, Our dairying.
of attendance the the meetings were from the point from the standpoint of interest manifested by those present. The plan adopted at all of our meetings, delegate to speak brietly, by way of introducing hi subject and referring to what he regarded as the most important points, and then invite questions upon and free discussion of the subject under con-
cideration. The discussions were bost eunhest hearty, and could not fail to prove valuable, for they brought out and helped to clear up many difficulties, while many suggestions were made which will furnish material for reflection and future moment. it seems quite patent that a fair shave of the time of Farmers' Institute meetings should be given up to discussion and the asking and answering of questions, the delegates speaking hriefly to intro
duce their subjects and bring out the most salient points, and then acting as directors of and partici pants in the discussions. In this way only can the ceal olject of such meetings be attained, for local hereby be brought out and discussed, and the par less experience and observations of farmers of the locality brought to bear in solving many knotty problems. An exchange of ideas amongst the features of an Institute meeting. and they should, and doubtless will, become a fixed feature of the work of the two Departments of ment of the agricultural interests of the Territories My reasons for saying that the country is ripe for Institute meetings are that the conditions under and climate the weed pests, etc pre new fin of soil known, and the farmers are in a position to state these and their individual difticulties, and to discuss them intelligently. One could not fail to he imlistening to the discussions at our recent meetings.
THE CSE OF MANTRE
arious meetings was that even in farmers at our mamure can be used to good advantage. There was some difference of opinion as to the best methods of farmers advocated returning it to the poil, and not casting it aside or burning it. Besides it fertilizing value, it seems to have the effect of cansing a grain crop to mature earlier. To the truth of this,
several farmers attested strongly owrupur
Just a word, in conclusion, to our Ontario breth the question was referred to-it was complained that many of the Ontario fruit packers have been acting dishonestly by filling the middles of the that at the ends, and inquiries of our merchents elicited the same complaint. Even should the new Dominion enactment fail in any respect to compel honesty in the packing of fruit, it will not pay to honesty, rather. will be found the hest mats, There is a proverb. "Once bitten, twice shy," and while good Ontario fruit is in high faver here, yet
we can and will purchase elsewhere rather than have deception pacticed upon us. What I have said does not apply to adl, or even the majority, of
the Gntario fruit packers and dealers but the
trouhie is that one dishonest matn hrings his fellows

Another point : The freight upon a bat prices in Ong equalio, it will grever pay us inferior fruit: for the relative prices of good fruit to the consumer are so nearly equal sumer sis.in cost him over ahout \$100 Which is he lith mo want. and which will it pay him to purchase:

## Manitoloa Estimates for 1901

 At the last session of the Local L.egislature the Department for 1901 were passed :
## 

## 

Commicsion matistice
itaions weed inspection
hatiry shluen and dairy in


uciation
To the Sheep and Swine Breeders and Home each, the grant for limu not having been taken up. The estimates show an increase of nearly \& . inw cost of inspectors, salaries and expenses. A cheere and a butter instructor are to be appointed for the

## The Quarter-Section Mixed Farmer

H. A.s letter puts one side of the question, and puts it well. I note he dates from the Territorie apt any one writing from the Territories is very a true cose sight of one thing, and that is, that to get ent conditions, which one should not deal with pres is ther will be. This is purticuly, but with thing question like the one under discussion. Owing the alternate-section principle, there probally is no quarter section farmer in the Territories who hat not the advantage of free pasture on vacant railway or other wild lands. In considering whether tis acres is enough to "mixed farm" upon, the proper maginary fence nround the matter in to cones he farmer to that lia actes for everything load of wild hay, not a stick of fuel or building tim her, not a days pasture must be credited to the free districts. When vou have doy coming to in some your lialacres on this basis: and the closest figuring and most economical and industrious management can only produce something like a bare living. The struggling along. They certain point without the free range. They will b able to keep a few cattle, a ferwhogs, a few hens, and aise a few hushels of grain. Now, H. A apparently oesn't want to see enterprising farmers, who wan satisfied with living a quiet flife within a will b circle. There are two sides to the question. H. A has put one. I will try and put the other. res point of view. H. A. says wheat growigrow failure if a man can do on lin acres. Prowing is a with him. Let us figure on l(a) acres farm for wheat take the Regina soil He will need kind. Now They will need something to need horee horse: hay, etc., will take up a part of the low acres. He must either buy butter or have some cow pasture and a horse pasture is not a had thing. Without
going into details too closels, I think if grower has $1 \geqslant 1$ acres ont of the lin) atvailable for wheat, he will not be doing badly. At the least if acres of this should be in summer-fallow. That
leaves io acres of wheat a year's expenses, live, raise a family, and provide throughy. Now, the man who is content provide per annume on nothing else but sil acres of wheat carious, is easily pleased. If you take the mixed farmer, he is in a worse plight. The native pasture
soon runs out. If he has to provide pasture, winter fodder and everything else on liil acres, without assistance from the free rang, he will make a fair
living in good vears, with the aning in good years, with the best management. short, he will come out at the small end of the hore It all depends upon the way you look at it. If way of husiness, under are content to be in a small of his going to a certain very limited only admit 100) acres is enough. If you want prosperous farm ers, liii acres is too little. What I mean, in a nutshell. is that dirmers who want to see a great grist of farmers, and who can't be anything else but small ers who will be in a position to make something There is an immense amount of arable land in the quarter-section I think the half-section and not the quarter-section farmer is the man we are looking
for in the Territories.
Carnduff I. II.

## Rape.

As the questions of cheap meat-production and probitate catte--rasing come more to the fore for stockers, as well as pigs and sheep, must come mory stockerse to the front.
green food alone. but the importancer and necessit of feeding him on such is very often overlossited Another cons datue of different forage phants for the end in view. The conditions governing the feeding
operations, however, enter into this matter. and operations, however, enter into this matter, and
frenuently such crops as can le most conveniently produced or utilized must take prec
others better adaptel to the end in view
Of the various crops more or less extensively cultivated as forage crops at the Central vixperi-
mental farm during the past few years, for cattle.
 for forage is I) wratf Fissex. During the past yeal about to acres have been under rape. The pitots Plot 1. This plot. [1 acres
slighty loamy sand. It was mannred 15 tons to the acre in May, and the rape sown in drills sis inches
apart, on Nay IPth. This crop grew very rapidly apart, on way int. Tugist. es tons green very rapidy acre. A second crop grew up and gave atout 3 tons Plot 2 This plot. 11 acres in area, was a good
Po mas manured 12 tons to the
 Angust it cut 2 y tons to the acre and the lend was then plowed
Plot $:$. This Plot : 3 -This plot. 'acre in area, was sown
broadcast, on June lith. This plot had been used at pig pasture the preceding summer so no mannure
was necessary. . $h$ his plot was used as a pasture for store pigs.
Plot 1.
Prent 1 .- This plot, three-sixteenths of an acre in used as pasture for pigs.
Plot :
This plot,
sod plowed July lith ficres manure was was sown on was prepared, and the plot sown July $\cdot 3$ and in drills ${ }^{\text {sis inches apart, and partly broadeast partly }}$ land being lather dirty and in ${ }^{\text {a }}$, poor state of
tith, this plot did not do very well. The part sown broadcast was a very light croo indeed. The part
sown in drills did very much better howe the was possible to cultivate by means of the handwhee hoe.
Prots 1 and 2 were cut and used as soiling crops sible to get any idea of the exact feeding value from the animats fed. The steers. 11 in number, averaged 1, (ont) pounds weight, and made gain at the rate of 2 pounds per diem each while on the rape nograin sumil , uartities ate it with avidity and were quite given a good feed daily at of ten steer calves were juicy leaves and stems very much, and to thrive and ate it down quite close. As soon as turned up, on the rape they began to improve in Heses. The
greattest value of the crop would appear to greatest
pasture for pige of
with a lot of six pigs:


## 

From a study of the habits of pigs pasturiny on
plot 1 thould say that the best results would he mpart, at the mate of apout three pounds of seed can be cultivated the acte has a tendency to branch out and develop a large esting to watcr han go to stem. It is most interesting to watch the niceness of descrimination exer-
cised hy your practical rape-ating pix as he strolls
leiswoly down leisurely down the row and selectsthejimic leaves that
lest please his fancy. Ihdere obsereed, ton that your trest please his fancy. Thave observed, tor that your
trained pig is equal to the best of chemists in picktrained pig is equal to the best of chemists in pick-
ing out those parts of the plant most valuable for
foord. He soon food. He soon learns to shun the larger or old juice, A study of the chemisitry, of the thend the whl
be foumd in the report of Mr. F. T. Shutt. (hemill of the tixperimental Farms.

##  <br> Nith ind ink wn

Ni.w whive


## 

## Territorial Crop Statisties.

sit compluted the compilation of threshegina has wor the year I! mone. Below will be found a statement varions seetions of the Territories ans erop in the puison with the figures for the preceding season



 Torriturion amblay







Territorico .... 357. E1
The total area under crops of whent, oats and in the year 1900, and from this was harvested 8, ,iv) (,bie bushels of grain. This shows 93,610 more preceding year, lute the yield falls short by $3,331,118$
p preceding year, hat the yield falls short by 3331,118 dry spring and early summer in the eastern por-
tions of the Territories and by bad harwe tions of the Territories and hy bad harevesting
weather throughout. Early snowstorms in the weather throughout. Early snowstorms in the
West caused heavy losses by lodging the grain, and thus materially reduced the yield.

## An Unfavorable Opinion of Spelt.

 The following is a letter from an Iowa correread with interest by many of our readers:If your correspondent from Narshall If Your correspondent from Marshall county, fully look through the catalogues of several seedsmeil, he will soon discover that the identical cuts used by some of them to show the wonderful stooling properties of spelt are used by others to to represent certain grass. Qtack grass could be mucpresetter represested by these cuts than spelt Those cuts have induced many farmers to introduce this new kind of grain.
Being short on
this grain last spring. It matured several acres of this grain last spring. Matured after the barley mowed man stacked the same as hay. In bulk the spelt exceeded che oats, but in welgat it was much
less at time of stacking, less at time of stacking.
During the winter the
horses, had free access to the pigs, and often the contained barley, oats, spelt, clover, prairie hay stover, corn fodder, and millet. The unanimous preterence which these animals exhibited for cer-
tain stacks, and their disinclination for others, proved a valuable object lesson.
It was clearly evident
chief attraction. After that the harley was the cher fatraction, Atter that in order came oats,
corn fodder, clover, millet, prairie hay, The corn stover which I hauled out into a dry feed lot was the only feed which my dairy cows had during the day, but at night I filled their mangers
with oat hav, with an coccasional dessert of and a siunday dinner of fodder corn.
and Is spring approached, the oat hay disappeared to tonch it grew gaunt and decreased the supply of milk, and while the horses ate some of it, yet
they seemed to take any other grain or hay better: It was stacked rainprof, and came out fresh and hright, but the fiber is too woody, in my opinion, to
hee oft much value as hav. The grain is less in Maility and quantity than oats. I will not sow any
 wollowemd bilt hay, cut insi hedoue it is fulls riph


A llay with a Westerm Nhepheren.
The Doukhobors and Galicians and their cus have becume part of ter sting to as, because they lack the initial interest of fellowship and ot the nationality that many other settlers in the West have for their eastern friends. Apart from the arge foreign immigration that is setting in Canada vards, the TVest has absorbed a great many enst rin men or boys who have felt that they could do better they only had the chance, and have conse mently left the competition of the east for the en praries of the west. These may be artisans, armers sons, or varsity grads. If they come is . West as Southern Alberta or W estern Assini nder the tindy grasses and balmy winter climate he cattle chinook, they soon conclude that and the goal of most is business of the country cows: hence, many start riding for the tig a few and convert their annual savings into catle outfits, nough their bunch to grow until it is larre ient to afford constant employment and suffi-quarter-section, putting up a shack he cow business in an independent wayg int nd boy life has been written and talked of " good picturesqu, as the Western phrase goes. The by fulsome newspaper correspondents neglected the pomp and circumstance of the old cowboy life agger cartridge belts, guns, rough-riding, and nence and emphasises, have been given a promihumdrum working conditions warrant pual prent Western men are not rough-riding, irresponsible cowboys: they are not even cattlemen at all. mere sem goodmany shepherds. The newspape they are an interesting and an important up, but factor of Western life just the same.

Fe had decided to see them at work. The natural grasses soon exhaust near the towns, and possible. A visit to a sheep ranch does netse is, if arive in a broad-cushioned phaeton for three miles The idenrn, but a horseback ride of twenty miles is on the frisky pical way, of traveling in the West called. He may be heady and fresh at first pony is your a bit for the first couple of miles for the heulthy pony is fond of moving. His wind and constitu tion are good, for he has been brought up outside dry feed. By and by you get closer to your Mexi can saddle, with its high pommel and cantel Mexd it is much more comfortable than the diminutive English saddle - "postage stamp," the cow-man pagne. Your whole frame is in pleasurable exer dru, and you feel for once independent of the druggist and his drugs. But this is another story our shepherd host har brought us to the camp of ouven over tulting a real varsity man, but he has light enough to see the camp lay-out. Large shed tural more noticeabie for its extent than architec plant, wool press, at mower, horse-rake, dipping basket wagon, with which to gather the larg prairie hay, against an occasional bad winter spell. the shack of the proprietor seeders: and, finally, before us as we jolted down the coulee to picture "bottom," protected on both sides by highiver banks which carried up the bench lands at both sides of the stream. The sheep bunch were in the corral for the night. We could see the white mass ber of the flock, who allways seemed to have two or three, or perhaps half a dozen, imitators.
We ate and slept, and ate again, the last time shopherd must he early afield. The dogs were already clamorous to be out before the lamp was extinguished-two collies and a greyhound, the
collies to work the flock, the grey the panicky, stupid sheep greyhound to protect the panicky, stupid sheep against wolves and
coyotes. The greyhound hore many a scar, and was quiet and sedate, but the Scotch dogs were all movement, back and forth, and had to be brought noisy: a second's pause found hock were already then came a regular chorus until the corral sent out a confused din of sheep calls. The corral is opened, a black goat is the recognized leader, but
hundreds of quick hooves are striking the hund trodden, dry way up the coulee. the dogs hard quickening the front ranks by barking along the sides, and are shooting lack to hurry the loiterers
behind, and the daves worl behind, and the day's work has opened. The pace slackens after the corral is empty, and the flock
ascend the slope to the bench in long files, one after one, in a continuous, wary movement. that seems of one sheep instead of twenty five hundred the grass are reached, the head ones panse for and to right and the ones behind spread and dress up oir hatf a mile fiont, and in this wasy the cirole for the day progreses A amomb men. the aggresive
bunch go in advance of the cripples and crones,
that have to be kept jogging behind, for all musi be kept in sight, agatinst the possibility of scatter shep gather their food quickly Hy eleven occasional groups are seeking the airy knolls to
rest and ruminate. But we were lucky enough to rest and ruminate. But we were luck enough to
get all that was coming to us in sights and experiences: Things became suddenly mixed at one end of the flock. At vicious coyote is in the midst,
suapping and biting in all directions, and the poor, panicky ewes are spreading away from him, hui the center, but the quiet grerhound is in the midst without hesitation. A few flerce velps and sudden turnovers, another scar or two for the greyhound.
with the collies in at the death on the word of the shepherd, and it is all over with the word of the there is another skin for the shepherds rug. An
couple of hours more romination and rest fur the couple of hours more rmmination and rest for the
ewes, and a square meal from the shepherd's ewes, and a square meal from the shepherds
hamper for us, and the flock are again in motionand
busp, and the second halfof is begun. We swung around to the right in the morning, and are circling hack to the left. towards the head of the coulee, for evening, having coverwd not less than six or seven miles. The sheep, get
very busy with the close of the afternoon. The head ones need no urging. The crones and cripples have gone as far, but have probally not got as
much: but they are all of one thoot and in much: but they are all of one thock, and must
march with the bunch. The sum has already dropped when the black. The sun has already
trotuing down the coulee fond strong ones are dropped when the bock goat and strong ones are
trotting down the coulee for camp: the collies are
busy at mide busy at the sides and rear of the thock: the grey hound, in the rear, is still more sedate. The areva ens as the night darkens ens as the night darkens
they are all aheard of us
on the down-grade. The
latch of the corral clack
into its niche. There is
still an occasional still an occasional unhap.
py sheep call. and ther is done.

## Nelecting and Buying a Draft Stallion.

 With the present de ings and the good prices paid for them, there is demand for draft stal ions this spring. Many into the will no doubt go who have hads of men xperience in the stallion few hintsalong the lines of buying and selecting may be beneficial to someof this class of buyers it is ot my intemtion champion any of the dafit hreeds, hut leave this question to the men who fore going into the stal. important that a man satisfy himself as to the Olydes have been lived in the locality and there are a number of good Clyde mares and little or no
other draft blood, then, by all means, buy a
Clydesdale. If, however, Shires have been used to any extent and there are
well-bred Shire mares a vailable, then I think it wise to invest in a Shire stallion, as the success of
the persistence of the farmers along one line on breed of horses. Though the Clydesdales and Shires resemble
each other very much, and, no doubt, crossing each other very much, and, no doubt, crossing
between the two breeds would give very good results, yet I think it wise, under present condi-
tions, to keep to the one breed or the other Having tions, to keep to the one hreed or the other. Having
decided on the breed of horse most suitable to your thing is to fix in your mind your ideal horsertant is, the horse moser mind your ideal horse that results from tho chas of manes that are likely to be bred. A hose that is sucrestol at the head of winner is not always the best horse to go to the average farmets onathes Thas of mates, of say, the In the vears of dupessime of th. hom tradent

this is the case all over the country, or that there but there certainly are more of this class than any
other in many localities: thus it is uite evident that in many loramties: thus it is quite eviden sound feet, with good strong, harv, flinty goo with well-museled arms, good strong, well-museled shouders, well shaped to tit to the collar: back of good length to give a good dinner basket and plenty of room for digestive organs: chest deep and broad, with legs well set under. Coupled with pere qualities will generally he found a good tem. and as many of the qualities that go to make your horse attractive as you can: but, by no means sacrifice पualities of strength and endurance for wather To be useful, a dratt horse must he a goon use of all the joints of his leges strite, making tre The best place to buy a hor
importers stable. Do not be induced to buy holse that may be sent to your nearest town by term). As the class of horses this class of men deal in in the above-named way do not appear as good have to paiy the expense of sending you will also expense of two or three men for a the horse, the times weeks in caring for the horse and soliciting Guyers for him, or trying to work up a compans or fold in his do not say that mo good horses are this class of horses does not great majority of cases, man can alwars do thes not give satisfaction, and man ctablelways Io better at a breeder's or import

The Management of Brood Ahares In the stock farm, where the only reve rived from a mare consists in the production effort toward getting every one of his mares in emeh year: then, ifter getting them in foul, 1 h . of accidents tending to prodnce abortion shoul. details of conery day mand all the seemingly mimon be attended to with the utmost care and attent in As regards the ordinary causes of ahortion (exchaof contagiousabortion and those that are a sepm. etc. ) cases are frequently produced by the follanins. 1. Slipping on icy spots and either falling or ber bucing a strain
in the Fightomen with other horses and getting his hal \% (ietting pinched in lox-stall doors while mer ing stall (this is where the doors swing out) t. Cetting into deep snowdrifts or muck holes 5. Nares, in sespering.
sell will get into all kinds of traps, such as het ween wimit is ahuut hif or to get through some opening thal into a feeding pen for sucking colls ween them get
 and they come to get out, they usually get excited nd alvortion fullower the top. get hing up, and it Another canses. and have to be driven in from the yard by force: hamden thern, it is still their stalls run them into they do go innally, when stall, it is a toery right the rump to strike them over board. or with a hather comes handy; just as that jump throvigh the door causing the mare to fall This took place while let ting them in from the yarre lost her foal that night. Of coure, ther are many other cause and the foregoing are simply examples of a feo of the minor accident that have come under my
notice, and mizht hapin ist any time. The remedy for thi crution. If there is ice in the ravi, and there is to
much of it to he chopped thp, ashes or mabure may wet down, so that it will athere and freeze to the that are meath should not outhers, and it may be necessary to let them themselves. Box-stali
doors should alwers be fastened open before the mares are let in for the
night, and it is wonderfiul how soon exch one will learn her place and selfied, visit sereral stables comisons, and, if not satis- get into the wrong stall fied, visit seceral stables and take a little time to 1 prefer earth floors in as the danger of slipping is stalls and alloways floor, especiatly in winter, whess than on a playk by the appearance on the sceme of some oither floor, espectaty it winter, when their feet, on very satistied yourself with horse have thoroughly pay for him, fallow gets the horse, you don't alliays pay a man to loy for cash. Nany. It will will sell oin credit, hut will allow a large discoums for cash, so any reliable man, if he has not the money in hand, can get it at a lower rate of interest

Best in Canada.
 we. atong matical hiots in tilling the soil as well a
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sometimes elevating them from the ground three the haills ones, of the it feet before they are let into the arranged so there will he no sill te door should be mare will somere will be no sill to step over, as a One hind foot in going over is sill, and slip off iust when the most weight comes on the foot, thereby cassing her either to knuckle at the fetlock or comengiomormal extension of the hock and general to see that the food in of the hest and that no smurefty corn or rusty cats are fed. It is also rather dangerous to allow pregnant mares free acress to straw stacks as is done in the West, Flas straw is magative wall the bromd-mare owner to try his - vevememixi 2verwiveve avew
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# A18＊！ご，1801 

HE rAMMEKS AUVOLAIE
again，even if they did come in heat．I have sem mares that were lired in April refuse twice a week cases of this kind it is probable that abortion takes place，bet owing to the early stage of impregnation， the external signs of abortion，such as soiled con of the ablomen，are not noticed．Sometimes mare is noticed in whom it is almost impmss wil allow a horse to tease her and will shand perfectl quiet．The only way to tell is that if she is met oner her．This kind of mare is a source of cons tinual annoyance to all concerned．
out of doors，on a good grassplot，hat mare to foal eather arrives arrangements must unt warn oaling inside in a good－sixed box stall，in which fhere should be plenty of luedding．Mares that foa inside should le watched both night and day， hat in cass of non－rupt ure of the futal membranes dur ng labor，they can be opened by the attemdan
refore the foal suifocates（this also applies to mare onling out of dobrs）．Another reason for repuiting an attendant is to prevent the mare from lying own with her hind parts apainst the sides of the aso to catch the foal from those mares that persis in foating in the standing position，and in so doing． preventing the foal from falling and forobly strik
ing the floor．These are the principal difficulties祭 with by the attendant，exclusion of course of the many different phases of difticult parturition．
mmediately after foaling，the foal should be care－ ully placed in one corner of the stall，where the bedting is usnaly compratively dry，The stat！ the foal attempts to stand，as it is bad policy to allow a young foal to slip and sprawl about on a
slippery floor．This should be done regardless of slippery Hoor．This should be done regardless of
the time of night or how sleepy the attendant may he，and it will lee formd that smell attentions of this kind will go a long way toward making the business a success－J．J．

## Dairy Legislation．

At the last session of the Local Legislature，an Act was passed respecting the branding and sule of as a butter factory where the milk or cream of fifty or more cows is received，or where tell or more patrons contribute mike or cream，a private dairy being defined as a place where milk of less than fifty cows，owney by one person or frm，is manu－ are defined on the same basis．The Act stipulates that every creamery，cheese factory，and maker of dairy butter and home dairy cheese shall register
with the Department of Agriculture a stencil show－ ing the name．address and number，and every package of dairy produce exceeding 10 lbs in weight Shall be branded with the stencil as approved by the produce shall register a stencil showing name address and number，and shall brand every package of dairy produce handled．The penalty for infringe－
ment may be a fine of sil or $\$ 30$ ，or imprisonment ment may be a fine of sio or
for a period of three months．
Another bill was also passed affecting dairy tories and the milk supply of towns and citio－ entitled the Milk and Creali，Standards Act．This fixes the standard for milk and cr
penalty for infringement，as follows
taining pess than shall sell milk in this province con total solids，or less than eight and one－half per cent of solids not fat，or less than three per cent．of less than tifteen per cent of butterfat！＂containing

## Winnipeg Prize List．

the prize list of the Wimmipeg Industriat mentioned in our last issue，the following will be of special gives simu dican（ralloway Breeder sweepstakes male and female．The American Oxfort Down Association gives specials for Mani－ In the daing ela
States separator companies ge Live specials．Diated Superintendent Murray gives a special in the newly intirounced buttermaking competition．for which prove an interesting and is offered．This should not m．fessionals，and four batches of burter be maie by each competitor．A buiding will he pectady fitted up for this porpase and churns， will in furnished．Dairy superintendents Wilson harge of the competition The prize list has been issued in neat torm，free

Arhoot of Agricultume（riticised．
Believes in Fresh Manure
Sile．Poor yields on old land are to be looked for in a dry season，especially if it is late summer mature，they lie in the ground like so many bushes keeping the ground open．I see a good many never
think of harrowing in the summer nr fall which is a great mistake．I find the more i work my land the more bushels I get to the acre．I would advise plowing old land first of June，harrow two weeks after plowing，then cultivate well the middle of
July，and，if necessary，harrow again m July，and，if necessary，harrow again．In culti
rating，leave two or three acres ancultivated till after harvest，and another strip till spring；then ohserve the difference in the crop following and it have found cultivating in the of early cultivation． ven on fallow，is of advantage．Ot，land to be fallowed should have a good fair coat of manure green If too far，to haul manure，manure to the harrows twice over the field to be fallowed dis sow some kind of grain just before it freezes up，so it won＇t sprout，and it will make a good growth hefore the midde of June，which makes splendi manure to plow under．The best green manure well in this country．I have had it for a good man years，Red might do for one or two years．I thin ing manum labor for five or six years afterwards．Where the and has been worked for fifteen or twenty vear and the humus has all been worked out，it should he seeded down for two years at least，say forty for hay：next year plow under when eight or te inches high． 1 can see no object to be gained b rotting manure．It is a waste of some of the bes qualities contained in it．Green manure，applied and，having its full strength，will go much further It is a waste of time and manure to pile it in littl heaps．We are very particular in spreading the
manure to have it evenly distributed over the whole surface，and not too thick The harrow the whol ator are the surest means of killing weeds：when they are one to two inches high is the time to do it nows nothing of the exhaustion on a new place $h$ has to do is to break what he intends sor crop All and one－half inches deep，and backset it to the depth of four inches and harrow it well，or disk it first and then harrow．The finer the seed－bed the more oam，it will grow three crops of wheat in succession and the third crop will be better than the second On light land only two crops of wheat should be xpected，then oats，followed by summer－fallow urning up one－half an inch of new land every tim
$t$ Seep．
｜Eirtorial Note．－We do not think there would be any advantage from the kind of green manuring （clover，peas，etc．）take fertility from the air and store it in their roots，but other grain crops do not and while growing in the spring they would b pumping moisture out of the soil，whereas one of store up moisture．There is，too，a danger of put－
ting seed into the ground late in the fall，as it is liable to rot before the soil becomes warm enough for it to grow．We also feel impelled to take issue
with Mr．Thompson when he advises harrowing two weeks after plowing．To conserve moisture and germinate another crop of weed seeds on the summer－fallow，it should be harrowed as
it is plowed as the harrow will work well．）

## Dominion Veterimary Inspectors of Cattle

 In addition to the recognition by the $\mathrm{U} . \mathrm{S}$ ． Rutherfora， Government in Great Britain for the purpose of testing cattle intended for export，the following the Dominion Minister of Agriculture and Dr．Mc－ Eachran，representing the Department of Agricul ture of Canada，and secretary Wilson and Dr．Salm 1st．Thecerthentes iseued in ins selected and duly appointed as officials of the Government of Canada will be accepted for breed ing cattle and dairy？nd．The certincates of of cattle tested by them in Great Britain，accepted at Canadian quarantines，when endorsed by the chief inspector of veterinary superintendents of points of entry．The following are the veterinary surgeons who are official veterinaries of the Depart－ ment of Agricuitere thpply the tubercuin test to ick．Central Bedeque，P．E．I．：W．N．M．Iakeman， Qe．s．，Halifax，N．S．：J．H．Frink，，M．S．St．Johns，
Que：J．A．（Conture，N．S．，Quebec：A．E．Moore，V． Ni．Tontreal：Chas H．Higgins，S．．．Montreal Toronto Mhackland，Little，W，\＆，Winnipeg ：J．©．Star

IHE FARMERS ADVORAIE
Tounderi inam

## Our Neottish Letter.

The month of March is usually a busy one witl conttish farmers: this year it has theen a peculiarly close of the month, except for the lengthening day, is'more like January than March, and winter with a vengeance is lingering in the lap of spring. The ponds bearing, north east, gales, and many other natural features well fitted to retard the progress of the crops. Fery little seed has been sown, and the bitterness of the cold makes outdoor labor a does not yet appear. The one redeeming thing alout the situation is that by the heat of the sun

bright star (Vol. as).
"lydesdale stallion: foaled in 188: sire Prince of Carruchan slis
legree mitipated during part of the ary gricultural show season in prospect. farmers are not for awhile, is now in arrears, was wellad vanced gricultie, is now in arrears, and managers of this year. Many of them last yuch to give away the wrong side, and should there be a repetition on the same state of matters this year. a few of them may cease to be. There are too many shows, and exhibitors will not be sorry if a few of them cease tax on agriculture, and nothing will wipe out the superfluous portion of them but lack of funds.
with discussions on army remounts, and horse Whith davessions on army remounts, and horse
shows harder of the day in London. The Hackney Horse Show was an unqualified success, and a very popular event in every way. Hackneys are sound, and when the breeders conhorses thev are likelv to attain producing drivingsuccess. The scarcity of good driving-horses in this country is well seen when one looks at the number of foreign horses in use in the West End of London. with this. If horses can lue produced more cheaply under the agis of the state in continental nations, reat Britain gets the benefit by her open ports. Horses are dear in this country because the land on because there is a demand for it. This is not proof of poverty, but of wealth. Agriculture here $s$ certainly depressed, compared with what it once was, and many farmers have a hard struggle to and leave substantial sums for division amongst their heirs.
The Problem of Army Remoments in this country
is this: The Exchequer will not allow the War Office to pay heyond a certain mrice for horses, and
farmers cannot produce a sufficient number of horses of the clats wanted at the money. The problem is it serious one, and the lessons of the
South African war shoult not be lost sight of. The issue, so far as horseflesh is concerned, has been to demonstrate the weakness of our present lack of
rstem, and it is well that this weakness has been system, and it is well that this weakness has been
discorered in comection with w wre the issue of
which, notwithotanding all which, not withetanding all our hungling. wat never
doubtin! Whether the present Riva! Commission on

has come out with the standard showing 12 per cent. total solids, and are up in arms against this and there is some reason to fear that the committee. which was not alsolutely unanimous, has overshot the mark. The witnesses examined included dairy farmers, milk
distributors and analysts (ienerally, the firstnamed advocated a high standard, the distributors a low standard and some of them no standard. while the analysts were disposed to back the farmers rather than the distrin
Barham. one of the members of
the Committee disented from the Committee. dissented from the majority and put in a report mended ia standard of recomthe four months of March, A pril, for the other eight months of ard for total solids of 11 - standdoubt, theoretically there is season to be said in favor of a form limit, but the difticua uniadministering such would be very great, and a backward or substantial difference a very at the particular perinds quality Was very little evidence There seasonal limitee in favor of a jority of withese the great mahered 49, advocated a: 3 per cent standard. The evidence of farmto examiad taken the trouble themselves went to show that the quality of milk in an ordimuch higher than is generally supposed. Individual cows there are in all herds which give milk of poor quality, but taking an average tymian quality than people generally result is a higher farmers examined who had kept the best the ords and made most investigations were gener been held in (ilasgow and Edinheetings have dairymen and dairy farmers alike have petitioned present stated warranted by the evidence and thy present state of knowledge, iz. 11. .is total solids,
 2-vew wive


ADSWORTH JEWEL

## . inn

he youngster to eat as soon as possible. Be gentle asily handled. Do not on any at is young and net in inclement weather, for the texture of a foal's ride andins the moisture and causes inflammation. helps nature to throw off some of the poisonos mhstances which atccumulate. Pay of pood poisonous to his feet, paring the hoof occusionally. Do this feet on your horsi and you will avoid contracted weaned at the age of sic monthis or coungeny be not let it suckle too long, as it tends to weaken th hext fual if the mare is in foal again to weaken th

A Handy and Well Equipped Stoch Barn.
 McP .. of Ontario Co., Ontario, ash for phans of of Mr. M. H. Penhalès harn and root house for their inoot siding and a high roof, making it aloout as feet from thor to peak of roof. It is on a stone watl 9 fret high, with a ceiling ifeet is inches in the clesir
from thasement floor, which is atove the level of ground outside of basement, so that the water can-
not rum in. not rum in. hoouse is a brick arch, and was described issue. Mr. R. A. Penhale was the first Nomem the ides and carry it into effect, building his six
years ago. Since that time thirteen have been built years ago. Since that time thirteen have been built
near here, and four have made application for the frame arches for this season already. There is which has Ineen so well described in those two issue that it is not necessary to do more than refer to the

## H/IM

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arch. When they are once bmilt, they will do for many other root houses if taken out with care proach to the larns except one, which is used similap barn and codways to a hill. a little way from hi the rest of the arches, and is as good as any of them and makes a cheap, durable root house. It is filled from the top, and roots are taken out from the end sides four box stalls. It has concrete floor through below the hall tloor, and the mangers of loox stalls are one inch above the hall fooor, so that no liquid
can run in the mangers or on cat run in the mangers or on the hall from the stand is five feet. and slopes three inches to the gutter. The gutter is fourteen inches wide at the oottom, sixteen at the top, and four inches deen The five feet where the cattle stand is covered with on an angle to correspond with the slope in the floor
of three inches in five ffet. of three inches in five fee
with 2 by $t$ scantling half-inch apart. which puts the cattle standing
drainage ath thorough
under them arainage under them
to the gut er. The aloce the bottom of gutter. These platforms are movable, and can be draw wh hack or
pushed up to the re
quired length of indi ridual cattle. If length is required, they are
drawn lack and a plank is dropped under their front feet on cement.
The manger bottoms are made of cement, and ate two inches
atove the cattle's feet. good rig for tying the
cattle up, by chatins or stanchions, which can
be changee in a few
minutes. using stanch
ions for tons for the cows when
they are just in for milk
ing, and chains for winter use. One box stall has
smaall stamchions for calves. which cam be tied up when heing fed milk. They are given it few
monthimlen monthfuls of dry chop to pievent sucking one thing that is reguired. At the present Mr. Penhale
has The stables are well lighted and whell wasement having $1: 3$ windows of six panes 12 by 14 , hung with pivots ahout one third up, from the window sill, above that below the sath. In thice way the sash Thote wat in the way of the cattle, to be broken. Mr. Pwhale cleans out the stabluperith as wanted. up. In clataning the manure to the field when frozen he clos hack the out the side next the root house,
by dof. which forme a pasage to the the diagram




Fiell Roots for Dairy Cattle.
It is very generally acknowledged that for the best results milch cows require some succulent food, Field of soil, usuatly if properly grown on the right kind and the quatity is unsurge return in this Province Scloction aind Proparation of Soil.- The soil should be a deep, rich, black loam, naturally moist. germination of seed, and too full of trash to allow the drill to work satisfactorily. We usually find it an the same ground roots for a succession of years on the same ground. This can be done by alterafter a crop of swedes one year, to be followed by a crop of carrots the next. This plan gave good satisAction for a number of years until last season, when was no possibility of getting the seed to germinate. Perhaps the best preparation for the average farm is a well-worked summerfallow. This should be plowed in June of the previous year, and surface If properly done, the soil will be moist, there will be cery few weed seeds near the surface, and a light harrowing is all the spring preparation required. If and applied the previous year. l'ndecayed rotted keeps the soil in a very dry condition, making it diffi cult to obtain an even germination or rapid growth. Hore and Whon to Sore. - The growing season all kinds of field roots during the month of May generally about the 20 th of that month, but depending somewhat on the season. The usual practice in the Eastern Provinces is to ridge up the plan in a country where the rainfall is abundant or it permits of the plants being readily thinned, but here the rainfall is too light to perrity of this practice, as the ridges dry outt too quickly. Much on the

level. After destroying all weeds, we use an ordinary hand drill with a marker attached. The depth controlled by these machines and the wort done quickly. Turnips, mangels and sugar beets should all be sown in drills, from in to itionches apart. As soon as the young plants have become firmly leaving the plants froms to 12 inches apart in the row, depending on the variety: is weed and field roots do not thrive together the former should receive attention before reaching any considerable size. A one-horse cultivator with
flat-shaped hoes gives the best satisfaction in black loam soil, hut no cultivator will work successfully
if the weeds are allowed to get large before the work is commenced. The varieties of tield roots prolucing the heaviest
vields on the lirandon Fixperimental Frarm for the past four or five years are as follows: Selected



The Vitality of the Wheat, Barley and oats Grown in wanitoba alld the Northwest Territories in 1900.
During the past few weeks a large number of samples of grain have been sent to the Central in different parts of Manitohal ayd the Northwest Territories, for the purpose of ascertaining their
vitality or germinating power vitality or germinating power. The results of the
tests have heen communicated it will, no doubt interest the public senders, but general way what the outcome of these tests has been.

Whent.-Of this grain, 34 samples have been tested, forwarded from ali parts of the Province : 199 of these have germinated in the proportion of from $90 \%$ to $100 \%$, and $\&$ from $80 \%$ to $90 \%$. There
were $\overline{51}$ samples of which from 50 to $80 \%$ germinated, and only 12 out of the whole number fell below, $50^{\circ}$. Of these latter, the lowest was $8 \%$, but the 12 averaged $32 \%$.
oats. In 79 of these the tested 212 samples of every kernel spronting: lie germinated over $900^{\circ}$, and yl between 80 and 190, There were 33 sam oles ranging from $50 \%$ to 80 , the average being 68 was 28 and the average of the seven the lowest Barley. - Of this grain, 56 samples hase boen tested, 20 of which have shown a vitality of from 90 to $101 \%$, and 18 from 810 to $90 \%$. There were 13 samples which ranged from $.0 \%$ to $80 \%$ with an less than 50 of vitality : the lowest of thes had $21 \%$ and the average $29 \%$
TESTS OF GRAIN GROWN IN THE NORTHWEST
Wherat.- The samples of wheat received for test of from the Northwest Territories numbered 110 and 20 from $80^{\circ}$ to $90^{\circ}$. Of the others of varied from $50^{\circ}$ to $80 \%$, the average being $67.7 \%$ Onl four samples out of the 110 fell below $50 \%$ : the owest of these was $: 9 \%$, and the average 4.5
Oats.-Of oats, 158 samples grown in the tories have been tested, fis of which in the Terri from $90^{\circ}$ to $100 \%$, and , 6 from which have ranged $80 \%$ to $90 \%$. There were 46 samples which varied from $50 \%$ to $80 \%$, the a gerage of these being $68.4 \%$, and 25 samples with having lost all vitality, but the average of the $\%$ was $37.4^{\circ}$ Bar. - Of barley, only 11 samples were eceived, four were three which ranged from $50^{\circ}$ to $80 \%^{\circ}$ Ther average of $61^{\circ}$ : while only one sample fell below 0 , this showing a vitality of 12

It has been customary at the Experimental pwands as 00 , maiples germinating from $80^{\circ}$ \% samples range from $50^{\circ}$ to s. $10^{\circ}$ are generally advised, when using such grain for seed, to sow an increased quantity, sufficient to make up ior the lack of vitality, and all samples falling below 50 From this standpoint the result.
are very gratifying. Of the tos samples of wheat tested, representing all parts of the Northwest country, only 16 (scarcely 4\%, were unfit for seed 400 samples tested, only ice fell below $50 \%$, equal to but $\mathrm{s}^{\%}$ of the whole. Of the ti7 samples of barley tested, only four were found unfit for seed.
of the Northwest grain crop of 1900 which is unfit for seed should make the farmers careful to inquire into the vitality of untested seed, yet. when we consider the very unfavorable weather of last year, it seems marvellous that the grain all over the
country should make so good a showing as to its germinating power.
INoTk.-These tests show much more favorably
for Western oats than those recently made by th Manitobarn Department of Agriculture. Manitoba Department of Agriculture. Samples
were selected from cars of Alberta oats coming from the points mentioned below, and were tested in duplicate, one test, that showing the lowest germination, being made under conditions some-
what more favorable than ordinary field conditions, the other in the forcing room of a green house, and in both cases every grain that germi percentage of them, showed such very considerable percentage of them showed such weak growth that been very much smaller.



Itorticulture in Manitohat
 the Western Horticulturad soriety in Wimnipug,
March, thus deseribes his visit in the VI.mes.
 the annual meeting of the Western Honticultural Society at Winnipeg, March 11, 1 Mn. Mr, M, A.
Hoverstad, Superintendent of Minnessot: Subfrom Ninnesota itate Horticultural hociet ind from Minnesota state repor himpresion
will
and Flowers of Minnesota.
"Having been asked by Secretary Latham contribute a paper on my impressions of the horti
cultural interests of the orthwest, from me stand point as delegate of Lew Jersey State Horticultural
societs, I cheerfully comply. Society, I cheerfully comply,
progresisive one, and though they think they ate fow icultural societies. The field is rast, but the earnest lahorers are few. Judged by results, the
Western Horticultural Lociety, is doing a great work for Northwestern horticultural interests, and is en From among the members of this society a corps of
farmers Institute workers could be selected, thor Farmers Institute workers could be selected, tho
oughly competent for educating the farmer in the oughly comprtent for
pursit of horticulture
""When in naming varieties of strawherries sue and Gandy given is the brest, many of the prepplex-
ang questions in pioneer strawhery culture vaning guesthons These three varieties, where successfully grown, comprise the broad
mercial strawhery culture
"The Crescent, in plant growt hand yield, covery
the field for light soil and repuires no great knowl edge to be successful with. When soil becomes to rich, it runs to plant growth and does not produce
fruit. It is the plant for the masses, and the hest
one to thegin with. It camnot be set alone, as the one to begin with. It camnot be set alone as the be phanted atoongside, to have it fruit in paying
guantities. This other variety will hatee to bee quantities. This other variety will have to be "The Wibson is next in order in strawbery alone, is its tlower is perfect. The culture of this variety is a stepping-stone to better quality. It does's not
heary lan
light soil.
"The (ramdy originated on a mucky, back soil,
toodry for crambervy culture. It will fill the bill on moist, dark soil. Wherever it will succeed, no fears strawlerry, as any lach of moisture is sure to "ut itscrop short. It can be set alone. makers, and if all runners are allowed tol set. the plants are hut weeds and of no use to grow: hence, the stmabrerv-grower should be able to assign a
reason for atlowing them to remain. In matted ows the tendency of most growers is to allow oo many plants. These tend to waste the moisture through the fruiting season, too thick foliage tends 10 soften the berry, lighten the color and decrease
ize. I am inclined to think that forlhwestern growers do not pay attention enough to this subject bhe allow too many plants to set. "The red, yellow and black raspberries do well mert, and Loudo
. Many growers prefer Cuthbert and colden
Whe Golden Queen is a sport of the Cuth hert and is inclined to be rather a more vigoron Grwer, and is of better quadity than Philadelphia berries sell for about and cents a quart, and this should be a great incentive to grow them.
"Currante. black, white, and red, succeed admir "irosebery: The Houghton is the most havdy and consiterye the best in quatity of American ". (rapes: Very few grown: too few to judge of Early Richmond has fruited a single tree of the severely pruned and latid fimd wont to Whimipege ignorant oi what I should mysolf hut foud no one who knew any particn-
las. Fon it was an nakown conntry, inme


 Woh, and its members have reached that point in
Whitaturs whereamagriculturat colleze has berome
at neweity
 the binc enemation must for enthutel in the

## War hat herome a necessity, no tonger a

## Territorial Stock Breeders Meet.

 of the Howh situated pretty well back to the west hnown is the lorthwest Territories, yet Galgary conntry immediately facilities, splendid ranching accominulutionstely adjacent, together with the for the purposes herein, seemed pecnliarlyadapted stock-hreeters conventions. One of the faiture Which impresses one is the appearance of solidarity of the town and the stockmen. Cowhere in Canada, spercimens of the genus homo than were to be seen
## MTRE-RKEN COTTLE RREEDER

The second annual meeting of the association of Hexander Harll: J. A. Turner, Nillarville presid in Rontine husiness was proceeded with after the reception of the secretary's report, which dealt The matter of anction sales was mentioned and reasons advanced for the holding of such sales ful titting of sule stock on necessity for the care ahly sold at at loss. The Dominion Live Stoo Commissioner was present, and steered the Association in the direction of such reforms as revision the prize lists, selection of judges at fairs, and ings being touched upon by the Secretary The election of officers resulted as follows: President Tho, A. Turner, Millarville: Vice-Preidents, $P$ B. Mclonald, New Oxley Serret, Crane Lake: A IV. Peterson, Regina. Directors: Shorthorns, Raikes, Pine Lake: Herefords, E. D. Adams Millarville: Polled Angus, H. W. Metcalf, Lacombe
Cialloways H. A. Wallace, High River: dairy breeds, C. A. Marker, Calgary. Other directors Jace IL Walter, I., combe: W. W. R. Stewart. Mac wan, and the Hon. G. H. . . Caswell, saskatch IV. Hodson. Ex-officio directors: Rogina, and $\mathbb{F}$ P. Talbot, D. H. Andrews A. B. McDonald, C. W A resolution was passed
hive-stock auction sales, only animals of continuing local breeders to be offered at such a sale. The Secretary stated that not ten (10) per cent. of the
bulls required are produced in the country. F WV Hodson stated that the prices obtained at the auction sales were not of as sacrificial a nature as had been frequently claimed by those opposed to the method.

IoN of Western worie breemers.
A good representative meeting of breeders, under on Wednesday in Alexander Hall. The army remount question, the coming of Colonel Dent,
Indian stallions and other matters gave a lively turn to the meetings. About forty members were The President's address drew attention to the damage done to the ranchers by the scrub stallions from the reserves: suggested Government inter ference in the matter. Secretary C. W. Peterson's to the breeders touched upon. In spite of the fact that the numbers of horses annually bred were insufticient foreven local demands, it was suggested that steps be taken to limit the importation of minimum valuation to sinl. Attention was the drawn to the comparatively poor demand for light draft and saddle horses. The importation of horses for one year into the ...II.T. from the U.S. reached exported. ('ol. l)entis description of the remount horses required, which information had filtered via Dr. McFachram, was given as follows: Cohs, 14.1 to 1.. 1 hands high: cavalry horses, 15.1 to $15 \geqslant$ : must nuts only will be accepted, unless perhaps an iron gray : mares and geldings, no stallions or ridgelings will be accepted. All the horses must que mount and dismount, and somand. It this juncture, sioner, suggested it wond be hemer to tionof the horses reypured direct from (ol. Dent, and nut througha second party. The Secretarys report mistit :mmail hors fairs to dispose of the misfits Major forermment stallions was adversely criticised. (ieo. good stallions for the Indians in place of the ioyuse statlions now in ase or roaming on the range mam. Evidently a practical homse- loreeder, thet th adoption of a similar scheme to that tried by th Hatitur I'torinces ri, that the (iovermment pur ment harnme the has Nowt. Tuner. Thempson

Gaverfering with private enterprise. 'ol. Herchmer officer, stating that small horses gave the hest re sults in South Africa, and said that good cavalr horses were scarce, and referred to the fact that th did not consider that it rould hol pay to loreed fur army remounts alone. Ir. Riddell, who accompanied the Znd Contingent, C. M. R., said that any quantity of mounted-infantry horses can be got here I. Cross, M. I A. A., said that a good horse was reduced the price purpose, that the breeding such horses: cow ponies were plentiful, the other types scarce. Mr. Cross thought th
matter would be righted if the Dominion Govern ment would establish a proper market so as encourage the breeding of the right type of horses by which people purs brought to light a grievance by which people purporting to be settlers from south arguing that an increase in the valuation of properly-imported horses would be unfair as long as such conditions existed. Each settler is at present allowed to bring in sixteen horses free of duty. Th ommending the Government purchase of stallion and re-sale by them, as mentigned above, was put and losh. An amendment, recommending that it used to establish remount stations, expend it be Capt. Inglis stated that the end C. M. R. horse were the only real Alberta horses, and that they Were the best horses taken by any one to South Arrally at Protoria up to sto apiece. stated that mare motion was introduced that the Dominion Govern ment establish one or more permanent depots, at Revision of the prize lists of the fairs was also Revision of the prize lists of the fairs was also The following
duty on mature motion was crrried: "That the valuation of $\$ 50$, and that settlers from the II S only alloweat o bring in six ( $(\mathrm{i}$ ) in place of sixteen (16) The election of officers resulted in the boand elace in office for another year of the entire ooard elected in 1900
The Executive waited on Hon. Mr. Bulyea reHodson outlined the policy of his department in the matter of improving the fairs and the judging done at those places, to study the markets and issue bulletins on their requirements, provide experts to gested that the Association appoint delegates to the various fair boards. The 1Fxecutive and other gentlemen present yoiced the Horse Breeders' hearty appreciation of their Secretary's work
It was stated that the Association possible precautions to prevent frauds being perpe-
trated on Col. Dent.

## (irowing Flax Along with Wheat

In some parts of Northern Minnesota and
Dakota flax and wheat are grown together, and, judging from reports of such crops published frou ame to time in the agricultural papers of those States, the results are satisfactory The following
letter, which appeared recently in the St. Pail Former, is interesting in this connection My plan of seeding is first harrow the ground with Cyclone Broadcast seeder attached tow flax This is to save time and labor. I aim to sow about ne peck of flax per acre. I follow this with five wheat per acre. The work of the drill will cover wheat per acre. The work of the drill will cover
flax sufficiently. Of course, a light harrowing will do no harm. The main object in this plan of seeding is to have flax browdcast and wheat in rows, and one kind of grain does not crowd the other. wise be supporting a growth of weeds of varions kinds. The last year was a very bad one generally for small grain in the locality, nevertheless I har ested y crop of four and one-half bushels of tlax per acre and eighteen bushels of wheat where I had
the two sown together, and not over ten bushels wheat where there was no hax sown with it. just as it comes from the threshing machine. They take a sample and screen it and determine the per cent. of each. Hax and wheat, and pay for each out of the shock last year, and sold my flaresher and did not get the top price. I sold for sil. $1 .{ }^{\text {arr }}$ netted in is readily seen that my flax crop alone wheat being better where say nothing about the cost me four cents per bushel for the eshing, satm as was charged for threshing clear wheat.


Spring and Summer Fair Dates.


Importance of the Dairy Interest. TRIBITE TO DAIRY INTEREST. Inan address before the I. A. National Cream-
on Buttermakers sadd: Buttermakers" Association. Mr. Jules Lumbard "There is an impression abroad that the dairy
interests of the country are of comparatively little consequence.and that such vocation is trivial and un important. Its products are considered and treated as mere incidents of living, and regarded as mere
condiments of the table. The fact is, that its proiuct is of more value than any other branch of agriculture. It sells for more money by fifty million dollars per year than all the grain we raise.

myRnie -qobs






The broonder is

Adiantages of the Brooder. necessity to every progressive, up-to-date poultryraiser. The use of a lorooder does not necessarily amply the use of an incubator, although a brooder will prove a greater success by hatching with an in makator. But a good brooder costs less than a good moubator, and with hens to hatch the chickens and A good brooder in which to raise them, the added protit made possible by the use of the latter will bon enable the purchase of the incubator. I know aged, will raise :a) per cent. more chickens than if the brooding is done the brooding is done many good makes of hrociders on the market, at different prices,
and as a rule the higherpriced brooders.
made by reliable firms. give the best results The regulation of the heate as in an inculator so that even in cold
weather the chickens weather the chickens
may be kept in a uni form summer temper is heated with a lamp the cost of oil mustalso be taken into consider ation. The 吘per cent.
we claim in favor of the brooder will more than pay for the cost
of the brooder and oil, time saced by of the the hen from the care of her brood, and thus allowing her to join
the army of egg-producers at an early date tages gained in feeding when the chicks are in only have chickens to feed on chick food, and also the hens to feed that chick food is mow costly than food for hoooder and run, we
tion made regarding the comparative value of the dairy and grain products, he has but to consult the to refer in detail. But let him reflect that the time age prices one pound of butter is worth thirty-five pounds of corn, and that the dairy crop is harrested a year, as against a single harresting for the cereals Multiplication does the rest. A gallon of milk is a small thing, a pound of butter a smaller thing, but combination, forms the bed upon which the mighty ocean rests."

Testing Dairy Herds
Mr. J. H. Grisdale. Agriculturist of the Central Experimental Farm, some time ago sent out a seeking information as to their methods of feeding rations used in summer and winter, breeds, and the use made of whey and skim milk, Enquiry was
also made as to whet her the farmers would be willing also made as to whet her the farmers would be willing with dairymen in other sections of Canada and the dairy herd at the Experimental Farm, Ottawa The only expense apart from the labor, would be Mr. (irisdale undertakies to fumish thilk daily blanks each month for keeping the records. The replies received encouraged himg to give the matter greater publicitr, so that any desiring to join in such a co-operative record or test may do so. Any
of our readers desirous of tatking part may obtain the necessary particulars hy addressing the Agri-

New, Dairy Nuperintendent for Assiniboia.
ofticer in Dairy years inc Charge of the work under Prof. past two however, eaves under pressure of a promotion, and
the diary intemet of wosater the dairy interests of Norat scotia will henceforth experience in dairy mattere During his time of office subseantia! propress has chanacterized the incmace in the quatity of output being ens per
cent hise yoar Mer the meceding season. His kingrong in show, who ads had considerable
are enabled to feed the chickens just the proper food for quick and vigorous growth. This food is far too stolen from the chickens, when running at large with a hen. Every one who raises poultry know What it means when a sudden storm makes it
sary to get the chickens under shelter. This necessitates a determined hustle when the chickens are in a large number of broods out into the fields, and live have wandered to be driven in the right direction efforts are useless. When the chickens are they will seek its shelter and protection. They regard the brooder as a place of refuge, and when once they are shut in
the brooder, they are dry and warm. They can be raised to the best adval tage when put in flocks of about fifty. It is much easier to feed this number in one to hunt all over the farm to find themhecome sturdy, independent chickens soon looking out for themselves. The brooder wet grass, into dangerons places the long, not carry around an abundant supply of lice and mites to share liberally with the chickens, It is quiet and docile, and al-
ways ready to receive the chicl-s will ways ready to receive the chicks with a trails her young out into the wet grass and loses the whole hrond in a single day, and at other times she leaves them when quite possitile to take care of very early-hatched chicks. when there is no sign of spring in the air, but also far beyond the season they can be raised successfully by the hen. The $f_{\text {fll }}$ when the earlier-hatched pell the nex The cockerels will makegood pullets are moulting. winter, while the culls are desirable for the table or market. The brooder answers the question of raismy late-hatched chickens in the most satisfactory able than one or two large ones as flock service more tham fifty thrive better than larger numbers. All chicks in a tlock should be of the same age. By chickens make six hair flock for time, the resulting nsing common sense in management, and keeping in mind a few of these facts, a really progressive $2=-2+5$

tWo-mear-old lincoln ram


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gathered before they are chilled. Then place the eags ina wooden box lined with flannel and keep in
the kithen at an even temperature Turn your epys daily to prevent the top side drying po or
sprinkle sparingly with tepid water. Try to foliow
the natural methods of the goose: She covers her eggs to warm then, she turns the : She co time she
lats and she comes to them with fenther wet Setting. A goose will generally lay about fifteen cgrs: so it is ad visable to set the first tive eggs Set on the gromad on a mound of earth to keen the eyg moist and still have them dry. earth to keopentery of straw. Set ten eggs, wider in orrinary goose.

A11811 ? 20, 1901
THF FAEMER'S ANVOCATE
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of giving a goose wo many uggs. They rempire a hee "rom simply attracted by color, for he must, in Cure of loung, Leave in the nest for thirly th and let out on a green sod. Young goslings require care for alout two weeks; after that they will fish
for themselves. Do not let them get weat for themselves. Do not let them get wet or do not up, feeding well till the yombg areable to rom: then I put them into a field and they live on grass until
near feathering time. They must have fresh water near feathe
every day.
Finfewing. When full-grown, i shut them up forn, and they will lue fat enough for ang grain and Profil. - The profits are two-fold: feathers and
roasters. First. I pick ganders four times a year,

and geese three times and young ones once. Pluck week in April. Wil can easily the males the last them hy watching when they legin to pick pluck selves, or try one to see if the feathers are ripe. If the ends are boody, they will not keep. With the four pickings of mature geese and the goslings once, goose, at 60 cents of pound, which will pay for the cost of keeping her, and you have the goslings clear profit. This with alout ten goslings, each weigh ing 15 pounds, at scents a pound, or for twenty
young ones, sel. (m) from each trio. Counting a tri young ones,
worth st.in, this means a main of Counting a trio over 210 per cent, above the gain on hens in their over 301 per cent.
luxurions houses.
Addrutuges Orer Other Poultry. - They are free twenty-five years-i goose is in her prime from the
fifth to the twenty-fifth year

turhers or chicks. They protect their young vigorbe easily confined by clipping one wing. (ieese are proftiathe on a large scate in Virginia, where they farming is a profitable busimess. There they form the national luxury for feasts on all festive days It sherking ifter the small investments that makes the farmer rich, and nothing on the farm will help
Wipe out a mortgage quicker than "(Old Mother

Poultry Breeds for Fatteninu. puan making choice of any animal for domestic sar point, is to consider, the structure of the animain relation to the work which it is to perform.
It 1 ..ald be suicidal on the part of a horse-buyer if
the firs imply attracted by color, for he must, in work he desires it enes enabling it to perform the laid the case of cows, and this same is equally true Fortury for the guidance of all poultry keepers poultry ecomomic qualities, and this is at once an important Our tirst selection of breeds.
ducing table poultry is that the bird shall be built in such a manner as to carry a large yuantity of flesh in the right place, that it shall have good quality, be hy nature a quick grower, fattening easily, and is sufin the selection of table poultry for export is as to color of skin and flesh, if we cater to that high-class market over the Atlantic, willing to pay fancy
prices for the properly-finished bird of the right
class.
For some reason our market prefers yellowalways look upon those birds carrying the whitest Hesh as being the best for table purposes, and there export who desires to attain the best poultry for keep this point in view It will be well just different hreeds, showing the color of their skin and conformation, and in this I quote from my own experience, as an industry for farmers and poultry-
keepers. The most suitable breeds for this purpose are: Plymouth Rocks, Wyandottes, Brahmas, Cochins, Cornish Indian Games, and Dorkings, or crosses of these, the Barred Rocks being the best but not very hardy in this climate with white bird, and legs. In Britain there has been a strong prejudice in favor of white-legged fowls for table purposes. Happily, this prejudice is dying out for it has been abundantly proved that our poultry is equal, if not superior, to any other country
for table properties, and, of course, most of them are yellow-legged fowl. The color of the pedal limbs is not influenced by, nor does it influence, or the fesh and skin on the body.
A nother important matter is as to the shape of poultry is that the fowl shall be (1) good length in oody, (2) broad in breast, (3) deep in body, (4) with short cream or white colored legs, medium bone, small offal, such as comb, and giving the bird massive and compact appearance. The length of body gives the bird a large amount of breast meat, and the width across the shoulder and depth which is the choicest part of a fowl. on the breast, As far as possible the main points
re: Heavy-boned : narrow-breasted be with noided depth; long-necked; long-legged, as the legs are composed of sinews and veins, which are tough and legs and hock, which are so common on the Cochin and Brahma breeds, as a large percentage of feathers. require to be maintained, and this can only be done sired, as the birds are sold by a small comb is deheads on. The selecting of poultry to feed for the table is just as important as breeds of cattle for beef. You might as well try to feed a narrow, long legged, raw-boned steer, and expect a fine specimen boned, long-necked cockerel, and expect to het a fleshy, plump bird. Another important item in connection with this class of poultry is that they lay good-sized brown egg, for which there has been who regard large brown eggs as being much supe, rior to white ones.
In feeding hens for eggs to hatch, you should not orget to see that they get plenty of lean meat and quick-growing chicks Seleot for strong, healthy sized eggs: keep the young chicks growing good the time they are out of the shell till they are ready to coop. If you have them confined, see that they are supplied with plenty of meat scraps. They need
meat-food to ensure rapid and vigorous growth. Fig, 1 --Represents a cockerel weighing 11 b Fig. I.-Represents a cockerel weighing 11 lbs short neck; fair length : very plump.
Fig. $\therefore$-Cockerel weighing $9 \frac{1}{2}$ lbs.; same age; same weight when put in to feed.
Bird No. 1 gained 1! lbs more in sel much more fleshy. No. 2 too long in the time, and large in bone; narrow, with no depth : long neck Fig. - Pullet weighing 讨 lbs.; correct shape for Fig. S.-Pullet same age, weighing is 1 bs :
poor shape, from a feeder and breeder's stand point

## Operating Incubators.

Many unreliable makes of incubators are being perated in this country. These mathines give endbeing small in number, the few chickens that do hatch being unhealthy and in some instances cripject has been given by Mr. A. (i, Gilbert, Poultry
Manager of the Dominion Experimental Farm,

Ottawa. It is printed in pamphlet form, and has Farm's experience with thiving the Experimental bators. In it he gives details of machines they operated with no success, also results with up-to of certainty that was unknown with a degree These reports are very interesting ind instructive, and parties interested would do well to write the demartment for a copy. The large and increasing improvement. Nen with years of experience great devoted time and monev, their aim being to pro duce a perfect machine. For years the great trouble has been how to regulate the moisture. Many macannot have succeeded in regulating the heat, but time, in a great many fully-developed chicks being

suffocated in the shell. For years the poultry press and new systems advocated, still the chickens died At last a gentleman, named Cyphers, published book on "Artificial Incubation." which solved the problem, doing away with moist ure pans and cold air ventilation, substituting a system that diffused the eggs, causing no drafts, leaving the moisture in the eggs, and carrying off, through a shallow underchamber, all the impure air. He studied nature and he imitated the hen. Most of you out-of-the-way place and return home with a full hatch of chickens. Instinct taught that hen to make a nest. She chose a place with no under 103 degrees, she neither she had a fever heat of 103 degrees, she neither absorbed nor added to th an up-to-date machine and are having trouble, a few

hints would not be out of place, by one who has experienced many of the troubles and disappointments, it is, naming the machine, and I will cheerfully give you my ideas on the subject.
In starting the machine, carefully read and study the directions. Place it in as good a location as pos. bus, on a perfect level, and let it run for several all the parts evenly warmed up. If dure to get time you have not got the regulator working true it would be well to put in a few eggs not intended you have mastered porery the machine on them till eggs, try and get those that have solecting the in the shell, avoiding all extra large eggs, as they are probably double yoked, and very small eggs, as
they are often deficient in germ, and will either not
hatch or produce a very delicate chick. Remove all

THE FARMER'S ADVOCATE
dert from the shells, and place eggs carefully in mat fully followed directions, which are very simple (it is only a matter of turning the eggs twice a day and
trimming the lamp $-a$ few minutes work) the mat chine will do the rest. If your machine has mois ture pans and takes in cold air through holes in the or a warm room, with an even either in a cella style of machine is not adapted to our climate). Th later and best machines are made with well-packed walls, hot-air chamber, no moisture pans, and no cold air drafts. This is the ideal for Manitoba and can be operated in an ordinary room withou
a fire. But, unfortunately for many, the old style o machines predominate, and we have to do the hest we can. When the machine is once started, avoid opening the door of the egg chamber as much as possible, for this reason: In opening. you alter the
atmosphere and at the same time the moisture. If opened often, some of the moisture will be taken from the eggs. causing the germ to dry and stick to the inner sheli. In some machines, the egg-turning apparatus catches some of the larger eggs and premark the eqgs and see that they are turned propseen whole hatches spoiled by the thermomete registering wrong. A large percentage of the thermometers supplied with incubators are unre will register right, but at 103 degrees be one or two degrees out. Get one of the very best. In placing the thermometer, put the bulb on a fertile egg. in such a position that you can read it without
opening the door. If possible, have two thermom opening the door. If possible, have two thermomtray. In poor machines you will find a difference of heat from extremes to center. In an up-to-date machine, the egg trays are square, and can be
reversed each day without handling the eggs. In hot-water machines, examine the tank carefully each hatch. A small leak will spoil a big lot of exgs. In filling the hot-water tank, use soft water: tank. On the eighteenth day make all preparations to close up your machine till the hatch is out. Don't open the door during hatching. It seems hard to see a chick struggling to get out of the shell: you help is not much good. If it can't liberate itself, blame the machine or the bad operator. Keep the door closed: by opening it you probably take necessary moisture from other eggs at a critical suffocate. Wait till all the chicks have had time to hatch before removing any. If your machine has run right, all chicks should be out before the end of the twenty-first day. If they begin hatching on the nineteenth and twentieth day, you have had too much heat ; if they come on the twenty-second,
it has been too cold. In either case, either the machine or the operator or the thermometer is entitled to the blame. In conclusion, take advice only from someone who knows by experience what he is vour machine: follow it to the letter. You had confidence to spend your dollars on that machine. The maker has probably sold it to you, thoroughly believing all he stated was true. Give it a good. vou can't make a success, write or see someone who has a machine of the same make. Prob-
ably he can put you right. To those who have not yet got a machine, take advice: Don't buy a honest, well-built machine as cheap as a machine honest, well-buitt machine as cheap as a machine Many are all right in warm climates, but no good or early hatches in Manitoba. Before buying an or Mr. ( i ilbert, for their experience. Of one thing cou may be sure, you can't make a success of poultry farming without an incubator. By its help you get early hatches, and that means lots of eggs in
the winter and well-developed cockerels for the fall market. There are plenty of good machines, honstly made and easy to operate. Be sure you get one - it will be as good an investment as you have n the farm

Approved Rations for Cows
ollege, says: Dean. of the Ontario Agricultural luring ten vears, but now different kinds of foods pasture, green peas and oats, corn silage and bran, lowing ration we have found satisfactory

## な? <br> - This ration is git The first is fed about ${ }^{2}$ at on...after milking. The man mem 

I C'ity Chap's Experience with Homs.
It was on the occasion of the celebration of the Hammah baker that sile Andrews told alout the poultry eyperience of his eity ousin. 1 mow the The " women folks "were visiting with sweet old Mrs. Baker in the south parlor, and the men were Itl assembled with (iites in the north parlor, before a good old-fashioned open fire, for it was a frosty ember night
The talk had fallen on the knack that some mople have with hens, while others, try as they may,
"I never bothered with 'em myself," said diiles. "other's had em an' got tired of 'em, and had 'em ag'in, but mever seemed to me as if they was whth "That's the trouble lon snow had," said sile been eating into the fire. "Never hear baout my 1 wasglad to bende to sny 1 hal mot
was story from Mr. Andrewe and for it meant experience that he had what the crities call .. good sense of selection
He leaned forward and rested his chin un his hand and said:
the city, which was a misfortme to start with, in hesides
hen-
"An

An' he was all-fired pig-headed, too," put in
Well, I'm comin' to that When he got 'bunt forty year old the doctor told him he 'd got to stop or hed in an office an go into the country to live ask ef he could visit us fer a spell, an' I wrote lo Come on, an' he come
". When he got to the haouse he was the whites mos pindlin' lookin man 1 ever see. Looked as if He moped araound the haouse a few days talked crops ter me at meal times an' in the even until I wisht Id never took up farmin!. (iosht, was awful to hear his views. Finally he said that farmin. I choked daown my feelin an' said he varn't built fer heavy farmin', but mebbe he might oa little hen business. 'Then Mis' Andrews, sh Kot talkin' to him. I kep my maouth shet fer up good on the proper food an' he nodded his head ery wise, sif he knew it all but was glad to hav her freshen up his memory. He wanted to go righ hout an boy some hens that night. Thought hatred would do fer a starter. But Ma tol him that fifteen to twenty was all he could manage at the start an he finally agreed. 'What sort ll you she, an', I could see by the way he hesitated an last said, ' Braown Leggings, "very distinct, that he didn't know anything whatever banout hens
to buy the hens. He had purt near five hundred walkin' raound his farm on Redtop. They did with em. He asks the old deacon haow much he: charge apiece and the deacon says, 'Seventy five didn' know if it was or not. Then helooked riound witha critterkal eye an' he says, feathers. I never cared fer the little sober ones. ... I mean. save'Lon with all the dignity that city man could git on to him, 'that I wamt the bis varity, the ones with the large combs and the bis all. might as well have good thens and way an might as well have good hens as poor ones.
door to conceal his feelin's, which was paowerful at the time, an when he comes aont he was as sober lookin as Ion. All right, says he, but I'll tell
you honest, it's the little ones atll lay the most egga But lon couldn't be changed. He was goin in fer looks, he satid, an anyhow he gussed he id

charge ye a dollar apiece. Lon warn t no way
small, an he agreed to the terms an arranged ti
comeat night an git em. "I remember em," said barlow. As purty nock to go upan tell your cousin that he wayht to exhibit emat Merwinton Fair, an he satt he guessed Was yuar lsome am slow to get to lay in Wat I sars
 nothin hot went to feedin em fer cugs accordin
as Mad told him the fust mght. She said it was that largied that it kep himb buyy aout er doois in

Chere was a move in the other rom that sume - Wells matters went onf fer hatout three so plemtiful that they was usin emh to stopg comes into the barn where I was sharpeni hens don't ever ge near their meste. An the the "..|hen I says the
lian says ‘l.on, says I, ‘some folks be Com re one if im. Wou was dead set on pation that breed, athough the deacon told yee the small place ter live in fer a fere things, but roud don fom place ter live in fer afoer things, but youdon't an mosier toa tlock an some don't hev any, hat yom mivise to eggs

## Diarriea in Calies.

stitution undermined, and mathy are lost, from thi means ory often the canse is onscure, and th stood : but prevention is so much better tham cum In regand to this, as well as to many other troubler its prevention. The cause may, as a rule, be traced drinking, dark and filthy yuarters and to unclean long intervals, or feeding with cold milk. The vessel from which a cmataines really safe, should be rinsed with cold water ami light to dry pery duy bilt and deenvine smin generate porms which set up the disme mil diarrhea (iive the calves light, airy and cleal quarters, and keep their drinking vessels well neglect the case and wait for scours a faith coure do no once look for the canse, and remove it If you har been feeding cold milk, you deserve to be punished Cold milk is not fit fooki for the stomach of a young calt, and is almost sure to cause indigestion, which
frepuently brings on scous. Let the mill warmed so that when fed it will be about the tem perature of milk as it comes from the cow. Do not on the stove, and remove before it gets too hot better far add enough hut water the the tem. perature to the desired point than to feed it cold Overfeeding is another prolific cause of scours food, should have milk three times a day in small yuantities. The long fast from morning till night be given, they gulp it down greedily, and it is liable to bring on indigestion and the serious trouble we ting its supply of milk is by drawiwg the calf get the udder of the dam or nurse cow, the milk being mixed with the saliva of the mouth, which greatly clean gestion. Ho care rere taiken to keep them clean, there is no doubt that the ideal way to feed rubber on the spout of the feeding vessel, but if fed little and often while young, siy for the first month or six weeks, and never overred at any age. the ohserved, there will seldom be any need for bedi cines. But as before said, do not neglect the case when diarthea occurs, but at once remove the cause: make a change in the feeding by giving less milk for give one to two ounces of castor oil, according to ardy a little warm milk, from a bottle. If taken generally end the precautions observed, this wif the calfemored. shat egy broken and put into up till it has swallowed the contents of the shell at least will he found helpful. If a cure is not soon days in, give a tahlespoonftil twice a day for a few beaten eugg, of the following mixture tich is also ginger, four ounces: tincture of opium thee ssence: of tincture of rhubarb, two ounces: and ases, give a dose every two hours until the dismall and young, half the dose of the calf is very mixture will be enough. The calf should be kept

## Prizes for Holsteins at Buffalo.

Mue American Holstein-Friesian Association will Iuphate ant prize offered by the Pan-American give a prize for a young herd, consisting of one bull foll and three of his get, and for a cow and two of her produce each as follows : first prize, siol olter pizes, amounting to sitio, to practically illus hate upon the fixposition grounds the system noy tmeriat for making official butter records: the merent memes of the nearly as possible, under the mate by the Balroch machine, under the super

## The lambing Season.

Extracts from a puper by A. ID. (Gantes. of the
As the lambing pringresses, the shepherel will hat observed that some ewes are much heavier milke,
than others, and that the poor milkers wory have twins. Put one of the twins on a ewe with. single lamb and a goor milker. The hest and easiest plan is to pick out a ewe giving indication.
of heing a good mother, and watch for her lambing As soon at she has lambed, and before she gets un place the twin lamb heside the nowthorn one and rub them together, which will give the same appear ance and smell to both, and when the cwe turn round th survey her progeny, she will nerer suspur I have never seen this plan fail. If a ewe loses her lamb, make her foster a twin (am to make every ewe raise a lamb). This case reguires a little patience. My plan is to skin the dead lamb and sew lamb in a dark pen for a few days, always keeping sharp lookout to see that the lamb is doing atl right. Tis as well in this case to tie up the eve for the first day or so. Take off the pelt in 24 or : some watching at this time. The former are very some watching at this time. The former are very
often indifferent to their lambs and will leave them. Shut them up by themselves in a pen for a few days until the lamb thoroughly knows its mother. The young ewes sometimes to not take kindly to their gets accustomed to her lamb. If the ewe is hard to manage, a good plan is to plave her with her rump kneeling on one knee and the inside of the oterd leg against the breast of the ewe one anm neck, and the lamb in the other hand, holding it to the teat. A little practice, and one soon becomes
During the first few days of the lamb's life, care must wil ohstructing the pacsuse If there is under should be clipped away with the cheare or any, it with warm water, and the parts smeared with a little castor on.
The lambs should be docked when they areabout a week old. A simple method is to take the lamh
between the knees, and the tail in the left hand drawing the skin towards the m.m.m and clippind close to the fingers with a pair of shears, then sprinkling a little po wdered bluestone on the stump
to prevent bleeding. Castration is better done at to prevent bleeding. Castration is better done at this time too, as there is less danger than when the
lamb is a few months old. This may be done by clipping off the whole scrotum with one stroke of the shears By the time the lambs are two weeks
old they will have commenced to nibble hay, and at old they will have commenced to nibble hay, and at
a month old to eat oats. A separate pen, should then be provided for them, with a " creep "through which they can go at will to the oats and bran and the choice
for them.
The only diseases I have found lambs subject to the shepherd should have the necessarv remedies at hand in case of emergency. The former troulle is caused either by some quality in the dam's milk or
by a disordered condition of the lamb's stomach. When the dam is the cause of the trouble, her food spoonful of linseed oil. When the cause exists With the lamb, two teaspoonfuls should be given,
twice aday, of prepared chalk, one ounce to a pint of twice a day, of prepared chalk. one ounce to a pint of
peppermint water. Indigestion is caused by the taking too much milk at ons Epsom salts should le given. These remedies 1 get from "Stewart'sSheep Manual," and havefound them most beneficia, having used them for a number of spring will havecome, and if all has gone well with the
shenherd and lin the to commence the summer's operations. For shapee or two, feed them a few oat sheaves before they go
out in the morning, and the same in the eve when they come in : also hav in the racks for nimg if they will eat it. They will eat very little hav at this time, but it helps to keep them up until they get a full hite of grass. From now till clipping time
the shepherd will have it a little easier; and well does he deserve it, for if his tlock is a large one, he through the lambing time. Shearing ought to be done between the middle of Nay and 1st of June. pens at night to protect them from the con of the durink the day to protect them from the sum. Dip againays after clipping, and ten days after that first dipping.

[^0]Mon an an onch a- they will fat mepielly if nu speriat finh ot tap.on tumips to for in during the day, and品 allow thom on the rape antil the frost is off in the mom long. of with an empty stomach, and then not A1 wanging time until they get accustomed to it. handled, it is a wise plan to mark those that are to would impress on the young In this connection caspul mamagement of a flock in a great measure
depends on three things : First, the choice of a ram thindly, ellernal vigilance at lambing time; and wwes. or those not typical of the Don't keep old alraid to weed themout. There is no hetter country In the world than this Western land of ours for the are subject to none of the diseases thatare prevalent o) the sheep industry in this country is the is pest, and that, I have no doubt, will, through time

## Farm Buttermaking.

The importance of producing on the farms butte or highest excellence, fit to compete in the open market with the creamery product, seems to be difficult ilsregarded, or, if not so, considered to ack of attainment. This is largely true through The subject is me of details essential to success atis, of the liansast intelligently Created in the new Biennial Report of Secretary F. D. Coburn, of the Kansas Board of Agriculture
Extracts from Prof. Otis discussion follow
In the matter of making butter, the private brother. The latter has made the subject of butter making a life-study, and many of the things that h has discovered can he applied to advantage on the arm. It is assumed that the milk and cream will receive the best of care previous to reaching the High fla
High flavor or quick aroma of butter is due to the breaking up of the milk sugar, forming lactic acid, and is possibly the resul of series of germ that get into the cream during the process of ripen considemble butter will be lost in the buttermill and the butter will lack Havor no mater what the cows are fed. If cream ripens too much we will get sour butter, or what Professor McKay calls "rotten. egg flavor." (Tream ready to be churned has a snooth. granular appearance, with a rather sharp, acid taste. When cream reaches this condition, it
should either be churned at once or cooled down to about fifty degrees F., and warmed to fifty-eight or sixty degrees when churned. So important is the right amount of acid, that our best buttermakers have what is called an acid test for determining the

To hasten the ripening, or to get the right kind advantage. These may consist either of butter milk, sour skim milk, or especially-prepared com less be lest procured by using milk or skim milk. Select a good healthy cow, put her milk into a well scalded can, and keep at a temperature of eighty The to ninety degrees art of starter to nine parts of cream. The cream may be kept at a temperature anywhere from sixty degrees to seventy-five de. grees F, if care be taken to cool it down as soon as the right quantity of lactic acid is developed.
If the local market calls for colored butter, the coloring matter should be put into the cream as soon as the latter enters the churn. The ideal color for butter is that produced naturally under June conditions, where the cows have an abundance of fresh green grass. anter any higher color than this.
possible and be churned at as low a temperature half to one hour. Warm cream and rapid churning mean a large yuantity of butter lost in the butter mink, as well as soft butter, which is very hard to when the butter is in a granular condition, about one-twelfth of in inch in diameter. If churned
more than this it will be impossibe butter evenly washed and salted without spoiling the grain. When a piece of good butter is broken it should have the appearance of broken cast-iron
and not the salvy, greasy-looking article that we and not the salvy, greasy When the butter granules have reached the right size the buttermilk should
be drained off and the butter thoroughly washed with pure clean water, at a temperature of fifty to
sixty degrees F.. This should he continued until the milky appearance.
The quantity of sath should be varied, according to the demands of the market: usuatly an ounce th
the pound is sufticient This salt should he of the finest and hest quality and thomblyly incorporated
working the butter should be allowed to stand
several hours, in dissolved and thoroughly distributed. While the light and dark spots in butter, known as mottles, are sometimes caused by an uneven distribution of uneven distribution of salt. ${ }^{\text {Weneraly }}$ Work the butter just as little as possible. The only object of working is to distribute the salt and compact the butter. When the salt is brought in contact with the butter is reduced to a minimum. For private dairying there is probably no better
package than the pound print wrapped in parch. ment paper. It is well to have a brand engraved in pound of good butter sold, but never send any poor lutter under this brand, as it would be liable to spoil one's reputation. All butter prints and butter packages should present a neat, clean appearance, of butter or stained with imprints of dirty farticles

Plan of Barn with Horse Stable on the Upper Floor.
In a former issue I noticed a demand for a plan of a barn. This is one that I have roughly is by iat feet, and stables, 16 by basement shed, enough to hold es cattle, with 6ift. stalls; standing room, ift. 6 in .: gutter, 1 ft . 13 in .; crib or manger, oft.: passage behind cattle, 13 ft ., with a 7 -ft. door This enables one to drive a boat through and so clean out the droppings and have them in the field at once, and also saves extra work of loading. Feed passage is $\bar{i} \mathrm{ft}$. wide, and is connected by three feed chutes on barn floor, also the cut-feed house, the

size of which is 12 ft . by 14 ft .6 in . This feed house is hirectly under second floor and is connected by a so that feed drops down. placed the cutting-box, house is a box stall, 10 ft . by 24 ft . 6 in ., that may be calves, cows when calving, or sick animals there is a 3-ft. passage to root house (not shown in the shed will not need to be fided in exth and south, west side, as horse and cattle manure will not freeze .
The second floor, size 75 by 36 ft, is avided ato a horse stable, 18 by 36 ft .: 2 floors, 12 ft . wide granary, 15 by 15 ft , and passage 4 ft . wide. The

one. This may be used as a box stall for mare and and are 5 ft , wide, with 6 ft . passage at back. The The first floor serves to feed les, marked X in cut. scaffolded over, using second floor as threshing floor. The granary, 1.5 by 15 ft ., is divided into a passage
$\therefore \mathrm{ft}$. wide, and six bins 5 by 5 ft . At the side of rranary is a passage 4 ft . wide. This is used for aking feed through. Also, when you arive in with and leave your load standing, This is cheaper than
a wide floor.

## Homes for the Millions.

In what is called the New Ontario, there is a ract of fertile arable land north of "the height of Chum stretching across Nipissing, Algoma and monder Bay, comprising no less than 10,680,000 sitable for tarming. Its climate resembles that of Gout hern Manitobal

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Horses and Fruit.
 irgovides.

Ottawa, April 9th. Lieut.-Col. Dent is again in Canada for the purpose of purchasing horses for
remounts in the British army. He was in Ottawa this week for a few hours, but, with the exception of the Governor-Genersal and the Hon. Sydney
Fisher, Minister of Agriculture, he was disinclined o see anyone. To the question as to what were hi plans, he said they would not be matured for some points: He would buy, at centers yet to be defined, all the Canadian horses suitable for army purposes that could be purchased at what he considered to be fair valuation. As soon as possible he will buy Portland, as may be found most expedient. Then he will establish remount stations in various districts throughout Canada, at which horses will be bought and shipped as opportunity requires. When these placed in charge will be empowered to give to horse-breeders all information necessary to enable Lieut. Col. Dent was disinclined to army intervieweed personally on this point so important to the but he said the information would be forthcoming due course. It is interesting to know, however quality of the horses taken from Canada for servic in the South African war, and the Colonel volun teers the information that horses of similar build wanted. Indeed, there is reason for the bust what is the official explanation why only 3, 338 horses wer purchased by the British Government in Canada, while $\bar{i} 901$ were bought in Australia and $\mathbf{t h} 6,310$ in British House of Commons on the was given in the Mr. Gilbert Parker, M. P. for Gravesend, the wellknown Canadian writer, asked for an explanation favor. Lord Stanley said the purchase of ha good favor. Lord Stanley said the purchase of horses in sasson and the approach of the Canadian winter and the prices of the horses and cobs were much higher than those paid for similar animals obtained little, if anything, in the explanation of the short season and the approach of winter, for our winter does not in any way detract from the havdiness of roam the plains, when not broken in and working. the entire year round. But we can well understand that if the Imperial authorities refused to pay our horse-raisers full market price, they would be unable does not follow that cheaper horses elsewhere, it for experience has shown that the well-bred Cana dian horse-thanks, in great measure, to the healthgiving properties of our bracing northern climateunder any conditions
When navigation opens, the horses purchased
by Col. Dent will be shipped by way of Jontreal The greatest care will be taken to secure proper shipping facilities for the animals, and in this work Gol. Dent is being aided by Major the Hon. Ormsby
Gore, of the 11th Hussars, and Dr. James Fraser The last named, by the way, is a Canadian, the brother of Mr.S. P. Fraser, ioth con., East Zorra, as a veterinary surgeon, and is at the distinction as a veterinary surgeon, and is at the head of
the largest colleges in the United Kingdom.
I understand that it is the intention to establish
one or more remount stations in the province one or more remount stations in the Province of Ontario, one in Quebec, one in Manitoba, and one in definitely decided on until Col. Dent looks will be ground. He was in Canada last year, and he was then so pressed for time that he did not visit the seeing that country and its horses on this occasion

The House of Commons made few amendments marking and inspection of packages containing fruit for sate. As reported, the measure will come into effect on July lst next. A closed package is defined as a box or barrel of which the contents cannot be seen or inspected when such package is
disclosed. Fruit marketed in ordinary baskets will not, therefore, come under this law. Fvery tox or
barrel in which fruit is inclosed must he marked in a plain and indelible manner, with the initials of address of the packer, with the name of variet and or
varieties, and with a designation of the grade of the varieties, and with a designation of the grade of the
fruit. it will be illegal for any person to sell or expose for sale or hate in his possession, any fruit
packed in at cosed package and intended for sale,
unless such


hruises and wher dofortw mopmery pewned and minimum size of the fruit, in inches .or fraction thereof), across the case of the fruit. "No. 1 Canapears of which vi per cent. are faulless. there is an enactment making fradululent any selling expos. ing for sale or having in posession, seny fruit in a ard set forth for ". No. 1 Comadian.," and marked "first," "best," of ."extra good " quality. Fraud in packing is defined to be when more tham 15 per cent. of the frut 1s surstantaaly, smatler in size from, the marks on the package, or the faced or shown surface of the package. It is made a serions offence for anyone to virtually alters, effice or the package by the in watorl ina find, placed on fruit not up to the standard claimed for it by its owner... Penalties are imposed for a violation of any section of the Act, and provision is made for
carrying out the intentions of Parliament in estab. carryigg out the intentions of Parriament in estab.
lishing and maintining honesty in fruit-packing. The inspectors will be employed under requlations duly drawn up, to inspect packed fruit and to secure the pumshment of those who may attempt
to defraud the public and bring the good name of Canadian apples and pears into disregute
Hace sised to the interesting disclision that took opinion the measure. There was no difference of it was the minority of packers that conceded that injured the export trade of the coumtry and the growing sale of eastern fruit in Manitola, but it loser by the fraudulent practices that had been best way There was some question as to the could be sold. The result is that the brands here set up, though intended to be standard brands for the whote countryare permissive. Aten who have brands will be permitted to continue those lrands but their fruit must come up to the standard established. The Nova scotia apple will still be
known by its distinctive name. .". Nora Scotia," but Enown by its distinctive nami

Mr. Hodson, Dominion Commissioner of Live
stock, is now in the the
dressing Farmers Institutest visiting and athere in everywhere
atendency to improve the breeds of horses and
cattle dressing
a tend
cattle.

## Bacon Hoss

To the Editor F Farmer's Advocate
hogs is a very to produce the best class of bacon Canada- One would think by the way some of the packers talk and write, that ine only breeds of pigs
that are fit for pork are the Corkshire and Tam that are fit for pork are the Yorkshire and Taim
worth. I do not say that these are not good breeds
 from nearly any lreed. A few years ago we bought
eleven pigs, from about six weeks to eight weeks eld. Four were Chester White and Berkshire, four
old. were Poland China and Berkshire, and three were Yorkshire and Berkshire crosses, These pigs were all put together and fed the same. The pigs of the
1 orkshire and Berkshire cross were of poor oultity nccording to the rules of the packers. while the Chester White and Berkshire cross piss were of the bacon type and some of the Poland-Chinas were well shaped. but they got too fat. Now. I don't
believe the Chester White is a better bacon breed than the Yorkshire, nor a better breed to cross with the Berkshire, hot the sire or dam of those Yorkshire and Berkshire cross pigs were not good
breeding animals. Therefore, I conclude e it is indi breeding animals. Therofore, I conclude it is indi breed, that counts in producing tment, more that cise is also a very important factor in promoting growth and the desirable gualitr of meat. There is
more soft pork caused by lack of exercise than more soft pork caused by lack of exercise than
by improper feeding.

## Light and Ventilation in Stables.

 lation in -The quast bation of providing light and ventiimportant to the health of the stock. The stably mest be kept dry and fresh at well as warm. For the supply of tresh air, pipes leading from the out above the floor are the best. The foul air can be stuare, leading from the ceiling of the statheres stluare eading from the ceiling of the stable upthough the barn. to dischange at the outside, under The cave, or, better, at top or ridge of the barn roof, These pipes should have slides, which can be closed windows as the beams and wall will allow, aach not of the wall. a pocket in the center of the wall. Have the nside, to allow the sumsline to fall widurws on the cattle, es possible. The walls should be noth ons the
11 feet clear in in heisht. The manner and dimensimus for arranging stalls are so manner and varied dhat it circumstances With plenty of rehh air and swn.
light perphe are not apt to have catle too crowded.

Another plam of Stable Ventilation
consequent improved heatll of the live stock hum we have been rumning through several issines in ind
 systems, which in actual praction luye thel etticient, have been described, ind readere owthed guide the new barns, or overhauling old ones, shanld give them carerul study adoptung such at mom completed without sone effect ive pen of be the animals with pure air, especially throult ing long nights of the winter season, when, for the sike
of warmith the tender passages through which the air will hee puritiod Pe therefore take pleasure in subuitting forr the consideration of our readers still another plim. which our attention was catted at the last mmal
 farmer and President of the Madford I aider dairy Association. Last fall Mr. Foster put the sy tem in a small stable for trial. finding it most satisthat he was introducing it into his latge batm, ind after giving it a thorough test, he now writes us description for the information of farmers penan and He has satisfied himself that the direction of the wind has a great deal to do with the draft that tuk off the foul air. His plan is as below
commodates writes wis: is forty feet wide, one hundred feet lony and eixhi the high, with cement Hoor, and mannere tank it ndjusted (outside), with Cherry stable clamer manure tank thow suspended from center. The and separated from stable by good doors. The adrantage of the wind Trangel in order to take having five vent boxes on each side of the stathle adjusted opposite each other. These are made of
inch boards six ty ten inches wide, which pives on opening of six by eight inches. These boxes ges an porning of six hy eight inches. These boxes start a
foot from the floor, ruin up and out on south side

over the sill, und dourn cighteon incher out under the sill, then turl they rum up and turr There is a side opening made five feet from the bottom of the vent hox, with a slide to close it any
length in order to regulate the volume of cold fresh air coming in. When the slide is of old fresh letting in air, the vent must be closed at the bottou By having the vent pipes the same on each side you
can take advantage of the wind. This barn stand can take advantage of the wind. This Barn stands
east and west. so when south and west wind is hlowing, the vent boxes on south side are opened at losed chased at bottom, with those on north side dead air top and opened at hottom, carrying off wind is blowing from opposite direction. When first put these boxes in 1 run them up on south in ighte them turn out under the eaves and dow on there was no draft: in fact cold south wind wat thought that the longer they were the mor draft I could get, hut umless the wind was right ive soud not work, and I find these short tuhes antage of the wind, and are most satisfactory in giving good stable ventilation without great in
One advantage of the foregoing plan is that it wexpensive and can be put into almost any stahle certuin of catching the ginal design. To mak could be arranged in all sides of the stalle vent vstem works the hear from Mr. Foster how the Mr. Foster's stable hat side feed allers, it will be cencer, while in many barns the feed alley is in th ariveway for manure sled or cart enehind. In such to within a foot of the thoor would inside the wal struck oy the whittletrees in taking ont the manure them more oblong rather than some bly making Perhaps Mr. Footer can olfer some suggestion on
this point, and alto trouble from cold draitts stribiner he has had any trouble trom cold drafts striking the back of thi
animals when the slide is open letting in fresh ain
We would direet the attention of those o the new conditions at the head of the Out tions and Inswers Department in the Ques
eqENTIONS ANID ANSWERS.

简


## Veterinary

## Lame mare:

I have a mare that got sprained in the stitle
joint last september, and now has al lump in front of the stitle about the size of a man's hand. Befory that she had ang sparidi she worked in the fall, two lumps about two months ago, hout did no good. She is rery lame yet. When standing she lets her
leg sling. Can anything be done to cure the lime-
 partial dislocation of the patellith lepeated blister ing is all that can lo done. It is probable this,
with a tong rest. will wase the symptoms consider
 derbangerd dherstion in calf.
I have a calf. nine weeks old, which has been sick wr mhout week, nometimes it will drink it chew its cud, but apparently has nothing to chew, the timee The call was fed on milk from a cow was four weeks old, when it was given skim milk once a day. "Hen about four weeks old it hegan to eat a litte roots and chop, hut never would eat hedding. I have given it Epsom salts and boiled flaxseed since it was sick. What is the canse of the trouble and can I do any hing for it: The calf
has been loove in a box stall all the time thewly celved aw wive G.E. L. peceliar to the netessities of the calf. The milk, orf
the cow that had milked six mont lacked this tuality, and, no doult, had the effeet of deranging the digestive apparatus of the calf. (iive the calf it in moderate quantities for a few weeks on the new warm milk of a cow lately calved. In the milk three times a day give a powder made of
the following: bismuth nitrate ol ounces: pepsin scales is drams: powdered mux vomica, i dram. all well mixed and divided into twelve powders When the appetite returns, give a teacupful of lime water in the milk at each meal. Give no
porridge of any sort in the milk, lout allow the calf to eat dry bram and oat chop in ergal yumetities,

## Miscellaneous.

Would you kindly give a diagram of a sheen houser, and sat which would be advisalle in startWi. gave in last issue a plan of a model sheep
house". This plan entire may not be suitable for the general fromer to adopt. Hot some features of it pretentions building. Is a rule, sheep do not require a warm building, except for the ewe tlock
when lambs are lywd When ame at ered come in winter or early spring Adry, airy place is hest for them, as cracks between boards battened, and with wide doress, left open except in time of a drifting storm, is goond enough as a general rule. Permanent racks
around the side of the shed ind as shallow trough nailed to bottom of rack to feed grain or mots in economizes space and answers fairly well. Whether to buy ewes or lambs to start, woild depend soue
on the price they could be bought for. If lambs are bouyht, it means waiting a year longer for increase, hefore they wre two vears old. If ewes one or two
ber years old can be got at a reasonable price they will (omeaper (relatively), the wool should nearly pay for their first winter: kepep, and they will piek
their living in summer laryely in the limes pind rouch paces of the farm, helping to clean it a weeds. what chor to feed a buth I have a tine hreeding bull. two vears old wowht he the hest ground fed to feed him to keep
wdition to enough yood hav, soiling crop or
 of thio, or wilcene and a wait of wheat mortwing over-fattening.

Sul. hand hat br ditrevent siresughbed from the
if the cow and bull are first registered. .
umtual il hite Leghorns: of perfection for Rose
 cimur Single or rose: bright red. Rose: tuprenk wenly from front to rear, without inclin Mo sered with small top comparatively flat and Lerminating in a well-developed spike at the and
 Chin, pendulows, bright red. FAR-IOBES, smooth, the head, and white or creamy white Jich: l.ong, well arched, with
hackle, towiny well over the shomad th abundant ing in a sharp concame sweep. with the saddle ris

Rekant: Round, full, and carried well forward tapering from fount to rear, and ofosely feathered. Wisis: : Large and well folded.
Tong and : wafge, full, and carried upright.
 slender. SHANks, long, and in color bright sellow The Frmule Heald. Fick free from fo, yellow. Eives, full, bright red Comb: single or pose, bright red Similar to that of the male, but sunaller.
Well attues wd Elelombe: Wattles, thin, Well rounded, bright red. Exp-Lostis, smooth, head. and white or crumy white Netk: Long and well arched
Back: Of medium length, slightly cushioned. Breait: Round and full,
Bunv Tid Flute: Buod,
deep and winmp. FLGEBCD, of medium length, full developed than in the male.
Tat: Long full, and carried upright
slender. Shavi, long, slender, and incole length. yellow. Tors yellow,
bull transmitting color, ete.
In reply to Mr. J. W. Sanborn's questions, tand Narch suth issue:
Yo. -. Cow cleaned one week after calving: came in season two weeks after cleaning, at the usual the season. The remedy in tuestion is and old inge honored one, used generally by the Denmark dairymen. notice on page 1ss, Subscriber, Frontenac, Ont.
Inquiring why Holstein bull does not transmit color to his calves. After is years' careful observation, 1 find a sire of any breed will not transmit his color to his offispring excepting he is in as heathy condition as the dam. The fault may not be in the
breeding, but most likely is in the feeding breeder wants the color of a sire, always keep him in choice condition for service at all times. J. J. W.
Bradon.

## registering a shorthorn

bred to a neighbored registered hail wwill 1 kindly inform me what steps I would have to take in order to have the calf registered, and what it Penhold, Alta
Whply to Henry, Wade, Secretary Dominion transfer and registration entry blanks. Fuil par given on these blanks. The chan members of the D. S. B. A., and Isc. extra for copies of the peligree certificates. I

1 propase transplanting a large number of maple trees this spring. It would save time if could
prume the trees some time in March. Would this prome the try

Namiober
Aaples prumed at this season of the year oteed is time to tramsibiant. After the tree is once established the pruming should the done after the tree is
in full leat. This prevents the tree bleeding, and atso permits of more intelligent work, as it can
then
(A. A. Beorwibl

Whyt phants: would you recommend for pig this rear. (The most suitathe plants for immediate use Whatd be spring ree wats and peas, and rapes sure and tom the pips int the rape hefore the Mants become chase, or otherwise the pigs wil
mat relish them. A. Berorokiv.

Thave a blood mare, athomb ma enn cowt - would
he advisable to breed her to a first cousin
I have also a clyde filly that will be two years old in about a month: would it be advisable to
breed her this spring : |1. Provided the stallion is a particularly vigor tics one, and his breeding and general chay breeding the pair referred to. it would he only When each possessed a similar weakness that they
should not be bred as in that cuse the defect woll should not be bred, as in that case the de
not only be perpetuated but intensified.
$\circ .2$ It is in very rare instances only the hers breeders have fillies served at two years old, and then only when they are exceedingly well matured To breed any immature anima, but especially ${ }^{\text {a }}$
female, is to check its development and decrease its mature weight, and not only that. but the offepring of an immature mother cannot be ms strong as the produce of a fully-developed dam.|

## roaring in mark.

1 have a mare, nine years old that has a slight which of the roars If were toraise a colt from her
RRoaring in either sire or dam is likely to be
transmitted to their offspring althoush the foal of a lightly affected mare may show no disposition to the affection.।

## Chicago Markets

 IRereipt for the weok so far rompared witha week ago. shoy



 at sisio to shim: medium to good, shim to s.i.3: inferior to fair









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## British Beef for British Soldiers




 Se delarryd trom furnishyy part of heir food mpplies chi





## (iood Prospects for Horses




British Cattle Market.


THE CHILDREN'S CORNER
Sing a Song of Springtime.

 Here mad herea biry
I-nt it entranculty


Fiers buid in mentury briuse


## What the Creek Said.

It was a very merry little creek, and chattered away at a great rate is it ran along through the and laughed outright as, once in a while, it leaped up to kiss some flower that leaned over to look at
itself in the water. One morning while it wils dancing along, a little bov came running down the dusty road. The sun was hot, and little Carl was in hurry to get under the cool shade of the trees Just then an old man dropped a basket of apples he Was carrying. The apples rolled this way and that them "up. wasn't so hot Id help him," thought Carl s he hurried on.
Acter a while he saw in a field a cow having a ood tume eating the young grain. "That cow has rive her out." said carl, "put I cant stop to How cool and pleasant it was beside the running "WiVell, little creek," said Carl, "here you are It must be very nice to live in the woods and hav hothing to do all day. "ou are the crookedes makes you go froul one side to the other so much jumped across you just now, and now I have to jump back again. What does make you so The lit
The little creek laughed as it again ram across is a poor little Hower that looks dry and -miserable so I just take a turn and give it a drink. Then there is a young tree whose roots are thirsty: now it will grow up to be a fine tree if I give it a
little help, so over 1 go to that side. Then to a pasture, and those thirsty cows look at me so longingly that before I know it I have slipped standing in the water, and how they do enjov it? atang in the water, thint wo would enjoy enjoy it Carl. "I should think it would stir you all up and make you muddy.
can "Ret clear argin, these things dont lreast long,
and it is so nice to have everything love sou, and to feel that you are helping where you can.
By this time Carl was puite hungr, so he said: "Well, I must say good-hye hungry, so he said: "Well, I must say good-bye,
and go home to dinner now. Ill come to see youl some other day
After awhile he came to the road again. The cow was still in the field. The sun was hot hotter learned about going out of his way to help, so he climbed the fence, drove out the cow, and put up some bars which had been carelessly left down. face that his mother stooped down to happy little Then his father came in, looking so hot and tired that Carl ran out to get hima cool drink from the well. The tired man put his hand on the curly head with a gratenks. smme that was better than any The little creek and the little tor are still mak ong agreat many thris hut they are both helpers. little strean, of io carl leved by those lives which
grow along his pathway.

##  <br> 


The whim whons wind now athee

## THE OUIET HOUR

How to keep Children from Turning-in Their Feet.
Little tots who are inclined to "toe-in" when They legm to walk can have this fault quickly rec should rubat least in time. The mother or numse little legs with a firm upward stroke his can th done regularly when putting lule and at such other times as convenient. When the little one climbs into your lap for a "onddle " or a story is a good time. Hold the little foot in your hand in the correct position.
side of the leg. The object is not on the innet strengthen the outer muscles, which are propor tonately weak.
begin below the ankle and rub to the knee, slow faithfully persevered in. will soon correct then rouble

| You. <br> The Chinaman praiseth his T "s The mandarin praiseth his $Q$. The gimber praiseth his turnifs <br> The mariner loweth the ${ }^{-}$ <br> The billiandist loveth his $Q$. <br> The he-katman leveth his catll But llover <br> The femblish have need of the $\stackrel{\text { CH}}{ }$ <br> The actor nevedeth his 4 . <br> The pilot hath neerd of two excell. <br> But I neeyd $\mathrm{C}^{\prime}$. <br> The hunter serketh the J's. <br> The shepherd serketh his I <br> Bill ICQ. |
| :---: |
|  |  |
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Three o'Clock in the Morning.


Whithere the word divilwervicy

Mrduthe tell expy- han shuld

rins upaty





## A Faithful Clerk's Reward.

"James," he hegan. as the clerk entered the " Yes, sir."
How long have you been with us:
Twenty years, sir.
th! Twenty years
ountry with all your worldy possessions trom the a cotton handkerchief.

You left home determined to achieve succes yes, sit
. Netermined to achieve success.
would he rewarded, and that faithful service woult "et its reward."
That's the way I reasoned, sir
a situation. Lliked your lools y you applied for "Thanks si
new year. liames, my paren thimber goes out with the "Yes, sir."
And I'm going to reward you. Im glad its in
my power to do so. I shall commence the new Fxactiv.
With limited capital
And it will, therefore be necessary to reduce Min sharies. On all the others 1 shall make a cht of That s shatl make the col in your case onls tul down half an hour errlien in the morning, and stet

## God's Care for the Individual.





The sumbeans rour sike their whoriont tid
The shime words. wre wike new mint
Ve hear so much in these days almout spelt with a capital N , of course. Nature's lawne. sud to be unaterable: therefore, we are assumen, prayer is useless. Nature is, we are told. "careful of the the migh hi
 interfere on , whelf of lisent or wonld not unyielding hopeless helief is emongh to a hatrd, spring out of cubodys life. Aut it is make the Thank Good, it is utterly false! fiet eam ewit work out the great destinies of pations and will same time, make all things work together for the good of each individual soul. How beautifully thi is shown in the case of loseph. He was sent in Egypt to save the lives of many thousands of people who would otherwise have died of stare tion. We might call that the grvel issue, but (iod did not use him as if he were a mere instrument without feelings: he received just the training and discipline needed to develop a grand character-a character that could hardly have come to perfecfion under his father's indulgent care. His training, though severe, was tender too. Both in the house "Potiphar and in the priso.. We are told that the Lord was with Joseph. He was worthy of trust, and it was given him freely and unreservedty Iny man who makes his master's interests his own and is reliable in small things and in great, will win or himself the trust and confidence of all who know him. Why: Because the Lord is with him.
sible to give particular care to each one of the millions upon earth : Surely nothing can be impos able to him who is able to tell the number of the for the lilies of the fiell, watches namereach He cares feeds the young ravens, and shall He be careless of the children for whom He suffered so much H hoes not onl care call I have called thee by thy mame: thou art vinge and again, " have gravell thee upon the palms of My hands." Can anything that concerns us be nsignificant in His eyes, who takes the trouble to the tribes of Israel were engraved on twelee stomes and Aaron was commanded to bear their name upon his heart" when he went into the holy place. What a beautiful picture of the way our lis heart, for "He bears each of our names upon for us."
oo importance in this gen, or fancy that you are of ing over you and conidering your or is watch carefully as though He had no one else to think of carefull
hut you.

## The grames are elotheel Init the ravenr are feyl <br> sut you. Who are lovery Ind yuarred and led. Holl ind <br> Will He clothe sou and feed you, and give you His cars Then leave it with Him: He ha- everywhere <br> Yio. leare it with Hime Ti- mure dear to His heart Yon well know <br> Than the lilies that bloom Or the flower that start <br> 

Te are told to consider the lilies, and see how solomon. Think also how He clothes the animals feathers, putting on a heavy winter coat of hatir or sively hot. If the telescope opens our eyes to the castuens of the tomiverse, making ns feel too insignificant the the great Oreator wonderful care over the very lenst of reveals fod: fonderful ca

The 'Illuree students
The following incident oceurred in Pavis in In

 nguinst the hiting noth wind, which Was bowling loons find old vot, buttoned up whis clin, and is
brod hat, which was pulled down over his face so broad hat, which was pulled down ower his face so
as to leare nothing visille except a long leard and as to leave nothing visinge except a hong heard and
thin white lock or hair falting uron his stopping oblong in shapee, wapped up in an cheeked hand. kerchicf. Il ecrossed the bridge and thes square of the Carrousel, reached the Padais Roval, and walkel roumd the garren, stopping frequently: then as if
the llowds of light and the savory ondors which issued from the restauramts, where many a merry feasting was in progress, had the effect of giving him "certign he hurried away with totering steps towards the cour des Fontaines heres the
looked mip at the lighted windows, and then, stopping umerra small shed put his stick against the
wall within reach of his hand, unfastened the checked handkerchef and displayed a violin. With ing the handkerchief, placed it unter his chin, laid the violin tenderly uron it, and legan to plaw. His
strains, however, were so melancholy and so discordstrains however, were so melancholy and so discordthemselves in front of him took to their heels, devil: a dog near him began to howl dismally, anid the passers puick
Andespair, sa down on a step. laid his riolin
across his knees and murmured Cod, my Giont :..." deep sul, escapeyl instant three young men came dark, Marrow
street. They were stinging at merry song which was among the conser antory students ing the peotinis ran foll agains
him. one of them nearly knocking kicking his thet along thic in wank, while th and looked on with amazement. A唯 and came out with the shadow mingled diznity new comery, th claimed anxions Li: "Pardon us
sir: Hate we hurt plied the player
stooping puinfully stowping parinferty
to pick up his hat.

## Goung men sprang

 handed it to its owner, and another "1 once was," replied the "Areor yona, while tears mase to his eyes and rolled slowly down the deepwrinkles in his cheeks. Shat is the You are in trouthe: can we do anything to help Yol" cried the three comrades in a breath, and
Hhe musician louked at them earnestly for a minute. then hold his hat towards them as he ansvered: plaving, for my fingers have grown stiff. My. datighter is dying of consumption and of porerty: There was an accent of deep distress in the speaker's
werd, and his hearers were tonched with pity: the hurriedly thrust their hands into their pockets first man had but fifty centimes, the second thirty, and the third a piece on resin-total. eighty cenmisens: They looked it each other sadls. "Fitinds!" cried one suddemly, "something must lee dome this man is our collesuue a brother musi-Ciu-are, while I will take charge of the funds. It tum ar ap their coat-collars drawing their hair aty their foreheads and puiting theif mear down



 , M, Mondon, hilliancy, Nindows were thrown -a.n.m. Anto the old manis hat, placed conspicuously under in phand Arter a minutes pause the violinAt pham a prydude: Charles, the leader, whispered: tenor sang "Viens, gentille dame," in a strong, clear, melting voice. The audience, in an ecctasy
 viid to his Marmed at the success of his plan, Charles the from. 'William Tell.' Adolphe, old fellow, play he accompaniment, and at the same time practice huritone. Xow, (iustave, you have but to open your mouth and a fortune will fall from heaven. The trio began. The old musician, who had all this Came stom motoness, harrly believing his eyes or had been mocking him, suddenly drew himself up to his full height, seized his stick and began beating lime with such masterly precision that the
 applause rang through the air, and money dropped from the windows and from every pocket, so that Charles was kept busy picking up the coins. The wondering remarks were heard on every, side "Thase are not street musicians," said the people.
$"$ they would make one forget that M. Frisuluet is

Fails, they continued their way down the street forgotten that December night. But if you are prophecy was fulfilled, I will be so indiscreet as to reveal the names of the three conservatory students. even at the risk of offending their modesty. Bu eves of eyes of the oid Asatians daugher, and she withe tenor's name was Gustave Roger. The violinis was Adolphe Hermann. The collector was Charles Gounod.

## The Confidante.

Common to all feeling human hearts is the it is shaned by can the enjoyment be perfect unless is shaved by a friend." Truly

$$
\begin{aligned}
& \text { Tothe suppori ant confor orit he wori, }
\end{aligned}
$$

But friendship is for the sharing, and therely the lessening, of sorrow, as well as for the fellowship.
and therely the increase, of jov; for it is a notable and blesced ond inance of homan nature that in owr hearts the emotion of joy is enlarged and that of pain dimished by mutual participation, What sentimental hest sense of the word, be callo among the gentler sex, and prevail especially in young life. And very beautiful are such fusions of their occupations, their duties, their pleasures their reading, their studies-every of companionship is pursued in com mon, and all the
while the deepest while the deepes trifling thoughts and feelings are exchanged, and become equaly the The friends are "like a double parted, but vet a innion in partition, moulded on one stem, with tw but one heart.
Such would be an
ideal instance ideal instance of The young ladies of our picture we bound by a tie of of them has re ceived an epistle that gravely con ness, and is now
sharing the secret sharing the secret with "her other and feathered gal ground betrays rather an unseemy
reference
curiosity with subject of the con fidence - so much so that we canno
help suspecting
dead. Ihat a lot of money they made! They can the bludgeon whirling round like a windmill. believe they were artists who had laid a wager, have been to the Gramd Opera, hell scraped the old cracked fiddle-it gave me a tickling in my spine,"
When the confusion had sulsided, the three young men approached the old musician, and, in a voice which trembled with emotion, he exclaimed: "Tell me your names, that my daughter may remember you in her prayers'" "My name is Faith," said the first artist. "And Come is Hope, said the bringing up the hat, which was overtlowing with money. "Ah, gentlemen, gentlemen !" cried the old man, "let me at least tell Nommo nat is that yon have helped so genercously, My name is Chappoer,
and $1: m$ from Alsace. For ten years I was leader of the orchestra in Strashourg, where TItliam Tell was often given. Alas! ever since I left my hather misforture, shem me. lou have saved my fife young gentlemen, for with this money I cain go hack to Strashourg, where I have friends who will take care of my daughter, and her native air will perhaps restore her tol head so simply devoted to my service, will always be blessed. I predict that von will one day le famons," "Amen," replied
the three friends, and link ing their arms together
that he has a per
sonal interest at stake. Possibly jealousy may prompt him to discover who has heen writing so fain stand first: or in whose estimation he woul pression is almost too complacent for that of a jealous person-he is himself the author of the
epistle, an amorous valentine, and he desires to epistle, an amorous valentine, and he desires to
learn its effect upon her whose charms it celebrates and whose sweet pity it invokes. His clandestin behavior in the circumstances may be justified on the plea that "all's fair in war," for if he is lover not yet accepted, he is practically laying siege to his ladys heart, and may be pardoned fo its capture.
The artist has hestowed particular care upon the furniture of the apartment and the elegant stately furniture of the apartment and the elegant draper
ies have received masterly treatment at his hands.

## April Time.



Boys and dirls in Their Homes. the renader whon has moted with ime erest some of
 sisters alike, with one coumon consent, seem to dion:" Most certainls we consider hat anch counse is not onty unfir towards the girls sind injuriose is leave A hanefuia intluence upmon their atterlives. make who havealways had the selfish side of their sistere appeaked tus who have looked upon their inferior beengs, with tow clatime whon them for courtess and kindress Whank cond there for
wise birents who dook wise parents who look fairly shd syavely at the mistake in the training the children why such has siven thems ame thy shoutd not horys as well as girls be taught to bee neat and orderly A writer .The simple matter of a bove being trained to be mining the happiness or unhappiness of his future home, hut at least wery hoose wife with a carreless hiving. A lad atcoustomed to lave his sisters or the servants pick up whatever he chooses to leate or thout will come some day to be a constant vexation to the
tide soul of his spuse, when he might almost as
 the neatness and coder of his home. The mother interests, and never to feel that the comfort and
wishes of tho ing a hushand who will some day render is preparthrough sheer thoughtlessness render miserable. man who links her destins with his.
Mras Nary Lowe is admimiahly treated in a paper by her readers to a dozen or. more of she introduces haround the fire on C'hristmas Eve discussing the topic, "Being a (iirl, and What is the l'se of It?" a moment when the topic was rerad to theug, and then pounced mpon it. giving it now centle taps
now harder hits, and again, at sturdy kinock that sent it for a moment almost out of sight." Some of their remarks were not only very practical and very true, hut also very amusing, Then, again, there
were others which showed that they had been keen observers and thinkers. "I think," suid a ouiet girl who had not spokeen before, "that our brothery manage to find plenty of uses for us." "Yes of can contribute to the uphailding of the chavach we the masculine members of the family, but whet her such uphuilding is of real nese to boys or girls is a queston. Said another: "Nes me mother hoys exact up to feel as if she depended upon us to help luring up the boys, though the girls were the younger, and the boys were not taught to take any special trouble
for us. We yils for us. We girls never plamned agood time that
we were not advised to arrance that the limothere should go and even to give things up altogether when the hovs preferred to star at home. Fiven then we must not sperk our mind., lest we. Fppose or aggravate our brot hers. We lived in terror lest
we should drive them avair from home failed to make home attractive and agreeable for the boys. Of course it sworth white being a girl. just
to be the guardian angel of a loy, or three or four tove the guardian angel of a hoy or three or four
hoys: but I alwal: wondered iwhy the boys were not taught to con-ider the disposition of their girls." and "rged to mak, home happy for the many books hearing too much talk!" "1 an not ence The man and the loy in our fiouse wepe allimportant. If they were unsurible grutr or
impatient. they did not feel well : if they disdained the foord, something else was provided. when we girls would have been told promptly that, sick or
well, we should le gentle and anrteons and srate fully accept whaterer fate wa- provided for us it made me question serimsly is to whether it was
worth while to he a sirl. When in every way the In the summing up by the white-haired friend Who had invited the discussiow was claimed that The amo experience was surw exceptional: that Thet out of atms or the lithe maiden growing up tenderty, "wo heal heran-e of her helplessenes
 Whom atp willis trime .e.d whom alldelight
 Thnysh we are in

Thubld low even it harger measure expmeted of our.


## Have You Written Home

When 1 Was leaving for Alustralia, every day, from all purts of the country, entreating me to in quire for sons and daughters who had gone away sometimes for $e$ ans lemets: The little cottage where proin the those atout the porch : and every day as the postman passes there comes the moiher to the door: the gone from her eves. She chears and the light has spoken: ". Nothing for you toda worns so often her creeping lack to her little kitchem, and, setting her arms agains the oid, mackened mantelpiece. tears, and her hear. swells with glistens in the maidens, vow to (jod that you will ne hat and mother so. "Say that wherever j2 ugo." said one ome one day. 'I remember how 1 used to be out have seen him walk bilong the furmony a time I with his lip bitten and the tear crepping down his cheek. I knew he was thinking of his boy who had many away, and he had not heard from him for this sacred and tender love to fatherenion ties in Mork iviny Perrar


## God Careth.

Gumuthing roumd which it may I wion

somur kwn hugh ur miow want


## The Wee One

hnum hat our huwe in wee one
Alure wee , nd wompte from the thas of hi- feet




Twirn lime hist has the wee one

 Ilst will bite with delight wingur romk or or kluck $k$









## Sugar Weather

When shuw sumb puck on the horse hoorWhen the wello tand wheren the surberm When cielese crish frow the thipping enves


## "ith auzer and avend spile and trought.

Find every tre in the country side

Thint the hethe wew wenthemening




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Ingle Nook Chats.

## ho soar an the sprims <br>  <br> The enairiventhe therin:

ar bear gicmots.
















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## ammtonal conc:ndicas



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 What would contain , ull the shir in the world? So we Wrymied his wife to returnt "ho mitche hit whith he which he

 Whe int nduced sult park int: the navs: Nouth, when he
 Why are lrich bogs like butter: Beewuse they ane litlle Whis s. .hor never like while man: Beause he is mot "hat do we often coteh, yet hever see? A pasising remark. Ao womed in "reat owak wan crowitg "neld in which


## Home Sunbeams.

"Mildred is a perfeet sunbeam in the home." some time ago and ever since we have looked at that young girl admiringly. For it was not spoken of one whose life is so surrounded by luxury that
she has never known care or hardship hut of one who is bravely earning her own way. Nor was it the fond remark of a doting grandmother who had Miildred only as an occasional visitor, and so saw of one who lived under the same roof and verdict her declining health, needed much care and who in hess; but her face lighted as she spoke the dear name and in that brightening face was a wonderful so many girls firls with hacter the best of intentions-are ancthiny conscience, and fome of them ate whirlwinds: they keep the house In A commotion with their comings and goings. hlse tut of the wat chme foweep ererything and settle down upon the houselold in a dull fog. fressing way whenever the sky is clonded. But the (10nheam girl - who is a, genuine sumbeam in her her tribe increase ! E



Gumpw Whar ann butd he thar incras the way




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## Separator Users

 imat Ammal Butter Contest of the Xational lintter makers Assuciation, at St Panl, in Pobruary "Apha- I De Laval" male anal huttermakers of almost erey stath bitis were I Laval made, 38 Sharples, 34 Reid "Damish." I! U
14 " Jumbo," II springer, and こ Fimpire
The same percentage of the Iatal hem will hold cood in any comntry, and in most of the Fomopean comutries where cream sepatathos hate heen longest it ase the use of the De latial mathomes is mow almost miversal

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known sumt det they have not sultered in

 lengthy and deep built on the pork packers
montel. mon \&uxd-hacked sow with hame well let down. When in condition ish los., is an wide strone Gucked sow. "th -mooth shoulden and typiesa
Berksline har one (oxfort Manitola, a son of laura Uxford,

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 An index to the character of At stokman is
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Gossip.


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 The dispersion auction sale of the hern

 biadraw hrisk, and Capt Roboon at aucio
tioncer did good work. The red seven earold
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 Sparla, ecured three, including Maid of Ivan
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hishly yitted. The gradee were superior hot
and ofd exceedingly well, five cows bringin

 Atricultural College farms: the two bringing to a total of clowe to ssive Following isa
of biger and prices of the rexistered Ruby sud, i sean: Donald Ferguson, Glan-
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Maid of VMan. I year: T. H. Nedern hora Thorne -yean : T. F. Robson lider LadNibinto. s years: John Mattenon, in


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John Rowen 9 monthe: Jo> Anlell, Thor diale jacke
Yellar Hill. Johnn Camuck 1 year: Itomaid Ferguxon
Starlight. 1 year: Jewton (Gray. Poplar
Hill.

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 and ant skin diseases a a afe cheap heatht
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Athe withervionsulo of tho smaul Jenw herd
 Hectur ©owan hamine Nowa held haverew
 Serrudtw, brought the hikheot drice swe Rotre ityin Brow, Ifock Yalley, Iowa, vold
 Sriom ste wat mado by the rearling heifer ; ind and sied by siuton Hero Indian Aate

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The following parauraph from the Lonton
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