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GOSSIP :
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or delivery next tall and ppring : Petroftay Ruela Poplar Nobstill kiga


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Vol. XXXVII.



## Farm Siftings.

Those of us who take an interest in agricul. tural education have been patien ly waiting for the report of the Royal Commission appointed question of an agricultural college for Manitoba. question of an agricultural college for and the commissioners have been too busy with their summer-fallows to bother with affairs of state.
 There have been a good man" pien cs this
simmer, but very few Farmers' Institute meetings. summer. but very few Farmers' Institute meetings.
The season his been much again the holding of farmers meetings, what with the wet weather, late seeding. had roads and delay ed farm trork
genurally. However, let us hope the authorities genorally. However, let us hope the authorities will make extra preparation for a good strong
campaign next winter. We want men who cas campaign next "inter. We want men who cas which they are sent an 1 who know what they are
talking about. Send the right men and there will be big audiences.

It's time now to overhaul the binters. secure any needed repairs. see that the canvases are
all in order buy good quality of machine oil and all in order. buy good quality of machine oil and
a first-class bunder whip.

## The following item from an exchange is per-

 "The constant buying of new farming implements kecps many a farmer's nose on the grind-stone and has sent many into bankruptcy. come farmers seem to be unable to resist a "indy ageat, and huy what they do nit need. housands of half-worn toals are thrown aside the pratent wa-trs on the farm. Buy pood immlements. an 1 take the best of care of them. and they will last nearly a lifetime. It is always
best to bring every implement home at night that hist to bring every implement home at night that
is us:d durin? the dave and house it if the is us, dinner the dav, and hothe it if the
weather is the least suspicious. It takes but a minute to run an implement unter a shed, and it a rain should come on durin? the night it will herst so nn dectrovs fusts and stenl. especially the threads of ho'ts an 1 the more delicate parts of a machine while the swelling and shrinking of wond checks and rots it. All the most successfill
farmers I kn)w most invariahly bring in the tonls farmers Iknow most invariahly being in the tonls
at the close of the day's work When an implement is taken anart anl stowet away for the rain thould he thinned with oil. then it cin be

## The Cut Arm Plowing Match.



Coltivating the Prairie Sod

Harvesting Brome and Western Rye

I have much pleasure in complying with your
request for a short article on the best methods so far found by tests on the Experimental Farm
of harvesting Brome and Western live grasses for of harvesting Brome and Western Rye grasses for
hay and seed；and for the extermination or the two grasses．
two grasses．
Although the majority of the old settlers are
conversant with the important points with repard conversant with the important points with regard
to the seeding and cultivation of Brome and
 work，and I Cherefore quote from the Northwes Experimental Farm Report oi 1901 the following ears：

$$
\begin{aligned}
& \text { CULINVA } \\
& \text { GRASS. }
\end{aligned}
$$

（F）BROME
cure for stacking．
THRESHING AND（CLEANING． ．．This grass is better sown alone：at lenst，it slould not be sown with a grain crop．The grain
takes too much moisture from the young grass－
plants，onlv the most vigorous of which will sulr－ pants，only the most vigorous of which will sur－
vive the dry weather in September ：whereas．if sown alone，all the plants have an equal chance
 does not blow．summer－fallow would be the best drift，it is not safe in many parts of the Terri－
tories to use land cultivated in this way．Stublle May，and
is found is found to be quite safe from winds．as the
stubble harrowed to the top prevents all drifting ＂．Ten or twelve pomels of seed is reguired pel year，but less afterwards，as the roots thicken up masture than hay． ．The seed being light，lone and thin，seeding
by hand is the only．practicathe method umless

$\qquad$
$\qquad$ more difficult to cure，on account of the lare－
amount of sap in the leaves and stem．Brome grass when forming seed is at the same time pion lally adds to the guantits of hay and more that
makes up for the depreciation in fectling value the seed－bearing stalks，orasioned ly the pon
duction of seed．In addition to the increase in vantage of having less moisture in the grase th contend against when curing．Which in unfaron drawback to late cutting is that a poor crop o grass for fall feeding is ohtained Warly cutting WESTERN RYE（iRASS requires to be cut

harold h．
になのH（CATO


There is no hotiom growth made while the seed

## has will be of vere inferior quality．This grass is

The seventh ammull contest of this popular and atrace
$\because 5$ th June．on the Will Flder farm，recently pur－
chased by Mr．（larence Fox．the plate memorable as the scene of the second match，fire years ago， which was in every way so eminently successful．
There．Tom Hill．Brancion．achieved his greatest sucress by work of the most imished style，never again equalled hy himseli and hardly ever sur－ passed any other contestant in sunsequent day．the day was ideally fine．and few places suitability of soil and picturestue surroundings than the location chosen．and other essential con－ nitions vere ratorn skill and merit．
For the hig
James sutherhend honors（diseresforded．at last vear＇s （mateh）in－14－im．clash．a very keen and strenuors combat was certain．The following are the con－
lestants who took part and the awards made at








 Gang plow，1－in， 3 horser：I．T．Kider
seeptakes prion siver cup．value $\$ 3$ ，presented by F． 0 Silver medail presented by J．W．Fleming for best crow

There was fair competition in all the classes was in the 14 －inch walking－plow clas in where James Sutherland，the champion．was making a promising effort to retain his place for this vear dy a successiul strike－out and crown．By a fail－ lirst place，and Ciuid and stort were likely to championship．But as time wore on it became evident that the tusslo would be bet ween（iuild
and the champion，thoth domer characteristically and work（euild wiming by a single point Sutherland second，and Turner third，with work， barrme the crown．of rare excellence ：John Stott somred fourth place，with work that he has often excelled Bain and T．Fider．The other class in ＂hich anl interesting competition took place was the 1 －inch gang plows，where coorge Boles was doung excellent work，which commation the and champion．II．M．Johnston，Chater，who retains the first honors for this year by one point．It
semes curious that both should have the same Homith in their finishes，which oherwise would have heen＂xcellent．The third pace was aken
hy W．W．Mechulpoch．Mothvem．who did good， covering． was lees kegn than ninal．A．T．Filler．extham－ pion，taking first place iW Marshall（his first contest）taking second：（：（tharleson．Brandon， pluckily entering the arena，taking third place． ＂ere the most succecsfil．and of the bovs．Allan I estio and Ernest sopp attaimed the greatest suc－ rees．On the whole，good work was done on soil That was a trying test to the skill and experienco
of not at few，and if there was at seming lack in
$\qquad$
$\qquad$ ＂endings．The badies＇sid society largely con－
$\qquad$

hiffer ing with hinder and curno in stonks．The<br>$\qquad$

$\qquad$
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$\qquad$
$\qquad$
$\qquad$
$\qquad$

## Ha（1）Hor Wims

## Onr Scottish Letter.

$\qquad$ atention, than shows, and the week ending 21 st June was perhaps se of the year. Fortunately, that date also saw the end of a long spell of cold, unseasonable weather, and the week now tapering to a close
has been marked by some of the finest weather we have had for many a day. riating in the sunshine, and but king, the country would have gone a-holidaying to some purpose. The King has always been a keen patron of agriculture, and his influence in siderable. The brilliancy of the weather throughout the British Isles on this, the day set appart for the coronation, adds to the intensity of the rended.
There is every prosprect now of 1902 yielding good crops of all kinds. The ground was so now experienced has made every kind of cereal eyes. Hay, however, will in general be a light crop, and early potatoes will not hikely, evan
with the favorable turn in the weather, prove to yossess much quality. The first Gervaie potatoes were this season lifted by Mr. Andrew Dougan,
Straid, about a fortnight ago. This was nearly Straid, about a fortnight ag
ten days later than in 1901.
Preparations for the last migratory show of now well advanced. The site is most picturesque, lying on both sides of the Eden, just outside the
walls of the old city. In 1880, when the Royal show was last held at the boracr corn, the it seems but a thing of yesterday when we tried to make our way through the yard on planks well-nigh afloat. The weather was of the most most at their wits' end to know how to provide feel a little older when he visits two Royal Shows at one center, and 22 years is a consider-
able item in the life of any man. Many changes have taken place in agriculture during these twenty-two years, and the difference is perhaps than in stock. An interesting article on "Haymaking, in the Journal of the Board of Agriculture, just issucd, opens up a wide notion on this aspect of things. It would not be
flection
too much to affirm that Ameria and Canada too much to affirm that America and Canada revolution. Few implements finanufactured on the
other side of the Atlantic can be utilied here other side of the Atlantic can be utilized here
withoutgreater or less modificathan. Put the idea
embodied in the machinery must ever be retained, and it is in the introduction of these
ideas that Ancrican induence can be most clearly discerned. The economical bencfits accrung to
this country from the adoption of saich Canadian machines as the Maskev-Harris self-hinder and hardly be overestimated. It has very largely implements and machinery that the British That he has done and is doing so dons not admit of question. and swoner or later it will he ad-
mitted that the arriculture of the old comntr-
even in respect of scrinntific animent. is fuil) Very successful strows of thek were bast week held at Glasgow, Stirling, and (upar-bige It dhihits at chasgow wree fomen in the drivingcreated by the Pemdonbted fact fimpmint this sectas exhibitions. The Inacknes. in spite of the numermals. It is increasingly evident that if the highest clase of carriage horses is to be produced in
his country the Hack Hes will mend to furnisht the


1334, and his g.gr.-dam by Black Comet 66 Through his sire he has a strong dash of Prince
wales blood. On his dam's side he gets the Daraley dash from the dam of Brooklyn, an uncommonly true specimen of the low-set, wide Clydesdale mare, and another dash of Prince of weighty blood of True Blue comes the stion Farmer 286, and from Black Comet oomes the Comet strain, long beeding is not what has been in more recent years regarded as strictly orthodox, but it involves a blending, the issue of which will be "orth studying. The sensational animal of the She was bred by her owner at Hawkhill, Kincar-dine-on-Forth, and got by Royal Favorite, out of a mare by Flashwood 3604, own bnother to Macgregor 1487: gr-dam by MacVicar, a son of MacStirling and Glasgow, and at Glasgow was awarded supreme honors as the best female awarded supreme Clydesdale exhibited. It is nearly 20 years since a similar award was made at Glasgow. In 1884, Lord Arthur Cecil was successful in carrying off
supreme honors with the famous yearling, Edith supreme honors with the famous yaearking, quality of limbs and the best of feet and pasterns. Mer movement is faultless both in front and in rear, and she takes the eye of the judge right away.
(ither good fillies were shown at Clasgow by Mr. St. Clair Cunningham, whose three-year-old White Heather, by Baron's Pride 9122, was run-ner-up for the supreme honors; and by Mr. Davie Cathcart, whose first two-year-old filly, by Up-to The best mares were shown by Mr. Alex. Guild, whose magnificent big mare, Lady Margaret, was first in the yeld class ; and Mr. J. Frnest Kerr, Harviestown Castle, showed a capital brood mare
in Iady (iarnet, another daughter of Baron's In Lady Garnet, The male championship at Glasgow went to Mr. W. S. Park, Hatton, Bishoptom, for his Paisley champion. Royal Chattan. This colt is two years old. He was bred by was Joth by the lay, Springhill, Baillieston, and was got
Glasgow premium horse, Clan Chattan, out of one of a first-clacs race of mares. Neither the three-year-old nor the yearling colts at Glasgow werc much to boast about, but there is a marvellous well worth looking at. He is four years o!d. and owned by Mr. Wm. Clark, Netherlee, Cathcart. His sire was Royal Gartly 9844, and, if report mpeak truly, he has been Sold to an Amere firm for $£ 250$. Be that as it may thre likelihood is that he may find his way across the Atlantic unless some of our home fanciers develop pluck enough to retain him hereplay. The leading winner was Mr . James Lawric
West Newton, Strathaven, whose stock meet the requirements of the fancy. He has been very stuccessful with a bull called silver Heels, and two of
the produce of this sire were first both in the older and in the three-year-old classes of cows in milk. The vessels are correct, level and tight,
and the teats will do. Generally at Glasgow and the teats will do. cenerally at Glasgow yet got enough, hut the teats have nothing to do with
dairy business

## Brandon Fair

 fair. The whimit of stock promises to he goome Pramtun is time contral Uraft hamse distribation promanmue in up-to-bate and equal th ansthing


To Get the Best Milk
To Ged the Best Milk.

The Welwyn Plowing Match.
The first Welwyn plowing match was heh mie farm of D. D. Mcrarlane, 12-15-30, ath auspices of the local branch of the Territi Grain-growers'Association, on June 27th.
the best of condition, consequently the was somewhat lower than would otherwise have the case. This being the first match in the trict, many of the young men of the neighborhome were somewhat averse to entering, and the rom putting prechuded many from at distatre however 11 ooclock having plow the previous night It was originally intended to have but enr plows for men and ditto for boys under 16 yeal of age, the prizes in each of which aggregated about $\$ 20.00$, the irrst heing sien, second $\$ 6,01$ man. Jno. Stott, caused the committee to add another first prize. The score card of the Brandon championship match was used.

- the sumy class for men there were fom place, with 63 points : Austin Wright second wit 62 points, and Andrew Jamieson third, with 5 points. The fourth contestant, W. James, but With the ex throughout, all in this class exceeded their width the weeds consequently being frequently uncut and probared, and all were shy of their depth subsoily owing to fear of the stickiness of the new to all the thod men. woor work was done but doubtless a better showing will be made nex

In the boys class there was only one entry did of Harry Davis, who scored 59 points and the third-prize winner in the men's class
The local men in the walking class made but, poor showing, their plows being quite unfitted fol such work. Jno. Stott, of Brandon, with a scor
of 83 , made the best work by far on the ground and the contestants secured several wrinkles from him which will probably be put into practice on future occasions.
The iudging was mast satisfactorily done by Messrs. K. Mclver and Jom Mon . latter being assisted hy Mr. Wilde : the com mittee in charge of the match ineing $\Lambda$. Draper

## Iowa College Feeding Experiment

An experiment of more than usual interest periment has lately been completed by lowa
Stations. The object of this work, outlinea by riv. Wennedy, was to comof the different stock foods which are upon th market when used with a main ration of corn meal. An important feature of the test was the than 220 ordinary range-bred steers were selected by Prof. Marshall and divided into eleven equal lots. In addition to their dafly ration of cor meal, they were supplied with wheat straw for his experiment ater and sat at will. An throug sure uniformity of conditions for each lot. They were marketed in Chicago on. June 14th, an the station staff in the result will be issued by his report will be published in the "Farmer's following table showiug the avage weight plementary feed used. and the valuation of each as determined by
will be interesting

rac not been mult a

$\qquad$

The Necessity for a Grass Rotation. all frequently having my attention drawn by iscussions which has been under cultivation for fire time, and the poor yield obtained compared that of former years, with the exception of those crops growing on new land or fallow, and ion including grass is a necessity if we would ontinue to grow remunerative crops. In all the Yder settlements there is a steadily increasing demand for hay at a fair price, which, apart from ther benefits we should reap, is an additional inentive to lay down a portion of our land to Fathe. But atrays first would be the immediate rturn we should receive from the greater number of the stock which our land woud matintain and the benefit to future crops. The first question atrays alsked 1s, What grass is the best? at queskrep?"' and most easiiy answered by another one or rather two, "What do you prefer ?" and, "For What purpose do you watt it? Personatly, I fimothy and Brome grass, and I like them both. Ked-top suits this part of the commry, to judge hy the wild crops of it one gets, and is, if cut all classes of stock. Rye grass, 1 should think is too light-rooted to have much recuperative effect the tand but is a rood grass for hay. For buth hay and pasture, Brome grass will be hard ate, and is a heavy cropper. I have found all classes of stock very fond of it and to do well on
it. Mine has been cut on what I thought the ripe side, but this winter I have heard it said that horses were apt to scour when fed on it, and as
I have seen no such effect from feeding it, I think possibly that it may be better to cut it more mature than other grasses. Of the cloveis, none have proved satisfactory, so far as I know, but the common white clover is hardy in this counliy, and should be profitable to grow with We have just had a heavy hailstorm through this district, and a piece of rape 1 had just sown
is a good object lesson in the difference between is a good object ans lons ind and fresh. Half of it between fand and has a hard-baked crust on it an inch whilst the other half, the second year from sod is as mellow as ever. I prefer seeding down wh Dhow late for barley, killing a frood growth of weeds at tho time; then use the werder and solv the grass seed, following with the weeder again or the roller. Brome grass is very difficult to
sow by hand. I think the best plan is to dril it on summer fallow land, mixine about an equal bulk of oats and setting the drill to sow thred lushels of oats, which will be about right, ac bally sowing a bushel of each. The oats mak hiure. An ideal rotation, in my judgment, would seding down with the barley; hay one year, pas
ture the second: then break up for wheat again lunt this rotation would be too short on mosi wheat. would have to be taken to reduce the grass arramge. Where a number of stock are kept, com mingt be grown also as a cleaning crop to take The place of bare fallow, sowing in drills not less working with a scumer between the rows. N sistrm can be laid down to shit all farms or dis trins. and men will havo to work out the system
hus suital to their business. No one however at deny that some system including and $^{\text {and }}$ Whrecteted districts, and an interchance of ideas Howgh the agricultural press will be of great Ine great trouble is the expense at tachorl the a large acreage in the purchase of the
This need only extond to the first crop. as
suitable grasses will ripen their seal here. man can grow his own supply and have surplus of timothy seed, it can be coninto stra wherry iam, with the aid of some and strawherry flavoring. combined with a to the real thing. but helpe to save butter people when obliged to buy it butter than Lo.-Timothy-smed strawherry iam shon

Amoricans Don't Expect to Excel Canada ill High-class Bacon

| Cumbs. |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  | apidly coming into denent wether The 1,800 -pound bulluck and the 200-pound the over-fattened how "ith hravtrome weirht and waste, is no longer wanted. There are also other Considerations besides the proportion of fat and lean. The tendency push our hogs wo early form giving excessive allesity, has also a tendency to softer tissues and a more flabby-sided carcass than can be combined with superior quality of the nished prodict. and a comparativciy even distribution of fat and roducts. These are the result, first, of heredity and, second, of julicions seeding of wholesome, tiesh-forming ieed products, succulent feeds. grass

$\qquad$ the near future. if eler, take rank with remrades and Canada it: the competition for the highe demand for better pork products for our home and oreign markets has already manifested itself in sach a way as to commancher and producer. The chanere will undoubtedly come as a result of the modification of the type of our present popular breceds rather than through supplanting them wrin demand for hogs of greater activity, vitality and vigor and more prolific breeding qualities, and it firm of packers in this state has recently imported several hundred head of and Binglish bacon type
and distributed them among their customers fon and distribute

## To Dress Calves.

$\qquad$ 6 weeks old, and weighing pounds, are the most desirable weights for ship ment. The head should be cut out so as lo leave the hide of the head on the skin. The The entrails should all be remored, except ing the kidneys; the liver, lights and heart should be taken out. Cut the carcass open from the meck
through the entire length-from head to bumgut. through the entire length-from head to bungut. spoil during the hot weather. Many a line carcals has sporled in hot weather because of it mot being cut open. Don't wash the carcass out with water,
but wipe out with a dry cloth. Don't ship until the animal heat is entircly our of the body, and hever tie the carcass up in a hag. ats this keep able to become tainted.
Mark for shipment by fastening a shipping tald , the hind leg. (alses under fifty pounds should hot be shmper, and are table to tow comdemmed Merchants, too, are liable to ne fincoll, if fogme selling these slinks, for violation of the law Very heavy calves, such as have terel tron ont

Stomach of the Horse and Cow: A Con trast.

The difierence in the size atri balne ethe Somach of the horse and that of the cow is wery
triking. It is only when fully distendel with striking. It is omy whell fully great contrast between them. In the case of the horse, the average capacity of the stomach it
from 3 to $3 \frac{1}{2}$ gallons, whereas in the case of the cow it is not unusual to meet with it palmely

## Breeders' Meetings



 A meeting of Shorthorn meaders, th andase the

## To Dress Lambs.

## hind qua

must he are ing hot woather bach at, the hide mad draw th

ducted sear the "Farmer's Advocate" con cicidedly popular. The latge number of amateur photographers who sent in samples of their work and the artistic excellence of the photographs indicated in a surprising degree the progress that has been made in that direction. Many of the photos were quite equal in artistic excellence and execution to the work of professionats, the sub jects selected showing great varlety and interest. Secincouraging were the resuts, that we have decided to announce another competition open to amateurs, and to offer much larger prizes than we did in the competition of 1901. We now offer $3 \mathrm{rd}, \$ 5 ; 4 \mathrm{th}, \$ 3 ; 5 \mathrm{~h}, \$ 2 ; 6 \mathrm{th}, \$ 1 ; 7 \mathrm{th}, \$ 1$ and 8th, $\$ 1$; for the best photorraphs of country omes, individual animals or groups, ranch, field gardeu scenes, lits of scenery, tree plantations individual trees grown ender cuttivation, or nylthing or that nature, solect the sobomed All pheterans must be not le ches in size, mounted or mmounted, and be the ork of amateurs
All photorraphs must be clear and distinct in ctail and well fimished.

Farmer's Advocate ffice, Winnipeg. Man., not later than October 1st 1902.
The the scene, must be marked on the back of each Any person competing is at liberty to send more than one photograph if desired, but only e prize will be awarded to the same individual. Al the prizewinning photographs will becomo perty of the We reserve the right o purchase, at 25 cents or 35 cents each, ac cording to size, any photographs that do not win * No photograph is eligible to competition fron which an engraving has previously been made and photographis must be the work of competitors.

## Mating for Early Lambs

## Mr. I. S. Woodward, of Niagara County, Nem

 orl-raicing, says: "/ Very many methods have cen suggested to make the ewes accept the ram er lamb-raiser, and 1 think we thing for the win all of them. Sometimes we have the crit abou a sure method, only to find the next year that it had no merit at all. It is not natural for shee (0) mate till cool weather in the fal, but there is nstance; they have been long used for raisimg freding much earlier than any other breed. In ract, a Morsel ewe, if righty treated, will breed plentiful enough to fill the demand for carly lamb brought about to induce the ordinary grade shee of the country to breed out of season. Much de conds upon the brimed of the ram. A Leicester of with a flock of ewes before cool nights in October while a llorset ram will follow with the ewes at no seasoms, regardless of the heat. And there is no disputing the fact that the constant attentionof the ram will hatw, much influence in bringing the ewes into candition. I have mo faith what
ever in any systom of medtication further than the effect of ferd usont the: ewes. The largest percent New Yaurs was soveral years ago, when during week. We could pat nothime for them to rat but and thefore we got them home they fogel pretty hard. We then turned them in to good feed, put raths wich them, with the rosult that a remarkewes that were gaiming were mome disposiad to ach Which we place any reliance. Wr. Hathage to hav season that by turning them in t., good pastu qive a litule extra food like whent han-methim


LADY Of The boyne 5 Th (IMP.
Contributed by W. D. Flatt to the Hamilton sale on August 13
How to Make Firm Butter in Hot Weather
The texture of butter is largely influenced by the temperature at which the cream from which is at the time of churning the softer will be the resulting butter and the more difficult it will be to get it to show the necessary grain and firmness of body. In very hot weather in summer much diflough if proper precantions are tatien there need be no trouble in getting the percentage of water reduced below the standard now decided on-viz., 16 per cent. In making butter during hot weather in summer, it is a good plan of ten or twelve hours before churning is timed to commence, and with the same object in view it is a good plan to have the churning performed in the early morning, when the temperature is sen-
sibly lower than at any other period of the day. sibly lower than at
-- Farmer's Gazette.

Experiments in Cheese Ripening
Ripening of cheese in cold-storage compared with ripening in the ordinary curing-room, is the titer of Bulletin 121, Just issued by Profs. Bean, ege. In this report the growing demand of the British market for a "fatter" cheese, or one with a softer body and texture, is pointed out. It is factories must be equipped with better ripening rooms. Co-operation is commended, and the ad-
vantages of central or consolidated cold-storage vantages of central or consolidated cold-storage
stations are duly considered. The main part of
the investication, however, was a comparison the investigation, however, was a comparison of wish this repport to be considered only as prelim-
inary, it should be of special interest to all
$\qquad$ awake to the advantage
 22. The high prrantage inmisture 91.6 per favorable for the prowth of mould, yet the mould
was no worse an the cheese in the refrigerator than on the chnse. in the ordinary ripening-room.
In both places the mould was kept in check ty
 then increasisel an was over 2 per in
pounds each. 'This
cold-storage for
of placing in the
that put in direct!
first. Uniformity
An increased
east one pound of
nilk may be looked for as a re
lower temperature than
has been commonly
supposed necessary.
claimed that cheese hept inl cold-storage ior any
length of time will spost quickly when ex-
posed to an ordinary posed to an ordinary
temperature. Such rein the experiments conlikely to occur when the cheese have ween period at a moderately
low temperature. Furing made to settle this 8. A cheese put di-
rectly from the hoop into a dry box and placed
in cold-storage, without
any $\begin{array}{cc}\text { sutisfactorily, } & \begin{array}{c}\text { ripened } \\ \text { The }\end{array} \\ \text { chief defect } & \end{array}$ Chief defect was in the
large amount of mould
on the cheese. A cheese put into a box after
ripening in the ordinary room for a week
gave similar results. Two cheese made from the same vat of milk as
cheese-boxes, were placed the cheese put into the cheese-boxes, were placed was similar to that put directly into a box from the hoop, and to that put into a box at the end o: one week. The cheese-boxes should be well
seasoned, if the cheese are not to be removed from seasoned, if the cheese are not to be removed from of box and soaking the
malin. to prevent mould.
9. Undesinable mould.
cheese seem unable to grow at as temperature
$38^{\circ} \mathrm{F}$., and consequently bad flavors in cheese,
caused by bacteria, do not increase in cold-stor-
age. The long life of the lactic acid bacteria in cheese seem to have an important bearing on the
question of ripening, checking the development of tacteria which produce bad or undesirable llavors. 11. The temperature at which cheese will cure best is not yet settled. There are involved in the qurestion many points which require further in-
(estigation. A copy of this bulletin may be had by apply-
ing to the Department of $\Lambda$ griculture. Toronto.

## Composition of Cream

The average compositi
taken about as follows :


## Moisture in Butter.

Britain, that butter to be accounted genuin
it has beon deemed advisable by the Canadi.
Neparcment of Agricture Co ascertain the aly
age rroisture-cond of donadian creamery bil
export being wellevted for matsis
samples, taken a week apart, are bring
Ottawa from each creamery the firt be bent
until the second is ready, and both forwer
gether. A meworandum must accompany each
tile, giving the following amongst other d
cream or separator system, name and address
buttermaker, date of churning, style of churn
ysis will be made by Mr. Fronk The anal
$\begin{aligned} & y \text { sis will be made by Mr. Frank T. Shutt } \\ & \text { Chemist at the Experimental Farm, }\end{aligned}$

Tare日-months-old Chicks• Wanted.

## ra the repor of the Nominion experiunentit

 antis, Mr. A. G. Gifbert, manager poultry de pate suy the lurge poutry-purchasing cont chickon in canada call for a three-months-old certain closs of be sed the wants of a lish markets The chicks in our home and Eng numbers. There should be no difficulty in cur farmers having such chickens by the end of July chickinng of August. A fear is expressed that Mr. Gilbert shows by wis not have weight, but they have had no difficult in that cor year Barred P. Rock, White P. Rock and White Wyan aotte cockerels at three months old have aver ch 3 to $3 \frac{1}{2}$ pounds each.
## Keep Pens Clean

that the time in the year is it more importan the sultry days of summer. A few minutes every morning, if spent in removing the droppings and long way toward making the industry profitable It is at this time of year that disease and vermin no the greatest injury to fowl. Of the latter, certain specles are to be found only in the crev irom whence they crawl during the night to sal these ood our feathered friends. To check tions and other pests, the walls, ceiling, parti whitened with lime-wash containing sprayed of bolic acid. It is a goorl practice also crude car slaked lime around the windows and under the during each morning after cleaning up. Nowhere as in the poultry-house.

Supply Water to Chicks.
During the hot days which are sure to oome in
the next few werks. be sure vour chicks are conthe next few werks. be sure your chicks are con-
stantly supplied with pure frech water. It is'imfortant that they be kept growing at this time
Large Creamery for British Columbia


## Mustard Spraying.

Prof. M. W. Doherty, of the Ontario Agricul ural College, has lately been making a tour through Western Ontario for the purpose of demonstrating that it is possible and practical to dulphate, without injuring farm crops Thursiay June 1 th a representative of the Farmei's $\Lambda$ dvocate, , had the plensure of wit essine the operation on the farm of Mr I) II Lawson, Westminster township. Ten pounds and suspended in a large pailful of warm water and discolve. This was accomplished in about fifteen minutes, after which the solution was attached, and the whole made up to 45 gallons, an amount sufficient for one acre
During the afternoon only about two acres
ere sprayed, it being the Professor's intention to have everything in readiness for the public denionstration, as advertised, for the following day. ented these plans from being carried out. Later, Mr. Lawson continued the spraying according to directions until a field of twelve acres had been the mustard practicaliy all pone . only a fer leaf less stalks were to be seen, with pods half mature. These, no doubt, would have been completely killed had the spraving been done from one to two weeks earlier. The oats, in which the inged on the top leaves by the solution when on July 5th-all signs of iniury had disappeared In an adjacent untreated held the yellow blossoms hut in the field treated no vellow blossoms were
$\Lambda \mathrm{s}$ a result of our close observation of this ork, as well as reliable reports which have been ion in recommending Prof. Doherty's method for he destruction of this most pernicious weed. A suitable spraying outfit ready to attach to a cart lars. The cost of copper culphate will not exceed eighty cents per acre, and if the spraying be carefully carried out for four years, there is no doubt ut that the wead will have become thin ennugh
o he palled by hand. The saving in moisture and plant food during that time win in itself be sufficient to pay the actual cost, and in the
the land will be greatly increased in value.

## Keeping Milk in Warm Weather

'The practice of putting in a supply of ice during the winter has in many instances solved the months. However, where there is one ice house be found on small dairy farms, we venture to assert that ten of these farms could be found there such an improvement is absent. In vierv of this, the perplexing problem of keeping milk durirst step in the process of preserving milk in a sweet oondition is that of keeping things clean at ime of miking. This refers not only to cleanli:ils as well as surroundings at milking time. condition for the absorption of odors from the urroundings. At this temperature many organisms when once present in milk multiply at an exceedingly rapid rate, and it is impossible, no mat-
ter how cleanly every stage of the milking may he, to prevent the entrance of some of thase organisms that cause fermentation or souring.
The only thing that can be done, apart from beng scrupulously clean in every detail, is to cool
the milk as rapidly as possible after it is drawn in tho stanle, mean that the milk should be left in the stable, even should it be cool there, but resh ymarters, and there subjected to rapid coolbetter if it can be aerated before setting. If an is not available, ordinary spring or awn at a temperature of from 50 to 60 are of exceedingly to this temperature, this check souring or fermentation, ost cases is the object sought. In adhis, however. it is often necessary to
filk sweet during a period of twentyvsibly forty-eight. hours for the pur-
izing it as a fond for calves. In view prang it as a food for calves. In viell
pract that we have recommentled i

The Law Respecting Male Animals in the N.-W. T
ed in May, 1900 . We give it main movisions, in reply
 ture at Regina
$\qquad$
$\qquad$ months old or upwards shati pe pernitited to run large in any part of the Territurtes at any time.
(2) The manister may thy proclamation in the Gazette authorize stallions and hulls to run at large day of Juiy and the thirty-firmot day of Deamber in
any year
$\qquad$
$\qquad$ the provisions of this ordinance may capture and con-
fine such bull or stallion and promitily thereaiter shall
notify the notify the owner thereof if known to such captor: and tice take away such stallion or bull and pay the captor the keep of the said stablion or bull for every day has been in his custorly, such owner shall the guilty of
an offence and liable on summary conviction thereof to a penally not exceeding $\$ 20$, together with the co of such stallion or bull as aforesaid, which fees shall be paid over on collection to the captor.
6 . When the owner of any stallion or bull captured and confined under the quovisions of the la
preceding section is unknown to the captor, the sul captor shail within forty-eight hours aiter such capp-
ture post up a notice of detention in Form $A$ in the ture post up a notice of detention in Form $A$ in th forward a copy of the notice to the denartment gublication in two consecutive instues of tho Official
Gazette, and tioc owrer of such stallion or bull drall be entitled to receive delivery thereof upon paying the
captor $\$ 5$ for his trouble and 25 cents per diem for captor $\$ 5$ for his trouble and 25 cents per diem for
the keep of such animal, together with the amount the expenses actually incurred for advertising.

## stallion or bul! in the Ollicial (iazette as herein pro

 of detention to may also cause a copy of the noticd issues of the newspaper published nearest to the neigly borhood in which the capture was matle, and any ox-penditure not exceeding the sum of $\$ 1$ made for such advertisce shall be reimbursed to the captor by the owner if the said stallion or imull is released by such
owner or, if not so releasen, by the justice after the owner or, if not so relcasel, h, the justice after the
sate of such stallion or bull upon proof of such ex-

## T. If at the end of twenty days from the first publication of the notice in the said (iazette no owner


then upon appitication to a justice in Form 13 in the
schedule hereto, verificd under oath before the sait
justice, the saill justice may, afler eight days' moticy posted up in three conspicuons thaces in the neightory hooll of the place of capture (one of which shall lid
the post ofice nearest thereto) stating the time and Hace of sale, sell or cause the said stallion or bull of such sale shall firt pay the expenses of sale noty advertising and justice's fees and then the sumb of $\frac{5}{5}$
 mal or animals sold, the date of the sale. the amount
 contimious harge of a herder or hy contimememt with
 Territorimen the stallion or ioll thall lie Antained
$\qquad$
$\qquad$
$\square$ to the provitions of this ardinance and porplimite she



[^0]Farm Zoology--II.
latring now introduced the reater oo the an mal world onsider the different cianses, the habits of differ farmer.
We begin with the mammals, of animals whic suckte thes whing, ame fill both for the of the and for the rumpose of ilustratium the methots sed by scientists to bring order out of seeming onfusion. It may help to remove the imprassion hat only the very learned can understand eize bogey which has deterred many from attemptins nature study in a simple way. For our purpose, then,
Beasts of prey, Hesh-eaters, or Carnivora
Bats--Cheiroptera=having winged bands
(nawers, or Rodentia
adeticting animats, or Remminantia.
Thus it will be seen that, as a rule, the firs sive on other animals, etc.; the second and third tation insects; the last two orders on vegeinterest icre are, of course, exceptions, but it to provision for the maintenance of so many fiving things. Three orders, it will be scen, must have living things upon which to live, and these matter that they may be, the the gnawers mo cud-cherers natmed arove, are in the last ic sort really dependent on the phants of the carth Where nothing can grow nothing can long live
 tmake this remurk to kecp life upon the earth inseparable $k$ hen to the and arriculture Jus becane livieg thing not exist without living plants, we are and chal ever be face to face with the problems to bo dis cussed in these papers. And if it he true that riving things cannot exist without plants, it is plants could not continue the work of rentalue tion and would soon become extinct without the aid of insects and other living creatures.
Weautiful see that there is throughout nature it vistem of compensution and a lialance kept iveen the different forces which make up the creat army of living things. which cannot be aster in it.s train. Sometimes humang agency is restronsible for this, or may help to avert it. Th other things, to consider some of these cases.

They are powerful animals, move very quickly o ondowed with keen smell and sight, and have arp, strong treth and oiten very sharp claw. Cats.-The Iynx.
Dogs--Foxes, wolves.
Weaspls - Fisher, marten, ermine, skunk, bation Bears, etc. 1 lack bear. (In far Wout, the grizaly

Judges at the Winnipeg Industrial.


Water Measurements in Irrigation
(Address of Prof. W. H. Fi. Firffeldid at In Institute meeting in It is with some hesitation, ladies and gentemen,
that 1 aiplear leefore you to talk for a short time on some questions relatug to the irrigation problem;
l,weause i know that many of you come from States, such as Utah antl Idaho, in which the art of irreigation has reached such a high state of development
that it commands the admiration of all familiar with that Still, with irrigation, as with all other topics bearing on agriculture, intelligent discussion is al-
ways helpful, for it is by such agencles that the farmways helpful, for it is by such agent.
er, makes his principal advancement. What is it? Is it arid, semi-arid, or is it humid? That is, do we There is no one. I think, who will say that it is arid. We have, then, but the two latter conditions to conscant that it becomes necessary to apply moisture artiticially to produce crops? Certainly for the last two or three years we have not felt very keenty the
want of the ditch. Are these sensons typical of the climate in general? If we are to believe what the venerabie "old timers " tell us, they are not. Ac-
cording to them, there are many seasons in which there is so little ran that it is impossible to raise urdinary crops successfully. Some of these
tumers. "-in fact, many of them-are stockmen an comsexuently are not pleased to see the settler come
in. for their ranges disappear with the appearance of the for mening settlers, as snow before a summer rall. We are upt, therefore, to think that their ad-
i.ce is sometines not altogether disinterested. Still, ace is sometimes not atcogether dismerested the universal statement of all who have lived here ior any length of time, we must believe that it
is, on the whole, true.
In addution to this evidence, it hardly seems probIn addution to this evdence, shrewd a financier as
able to me that so able and shrempany, Mr. Galt, ane president of the 1rrigation Company, Mr. Galt,
tomld inaugurate and push to a successiul issue an
woun itrigation scheme of such magnitude as this one is un-
biss he were well assured that it was a necessity for
bus he were well assurec tountry.
the development of the corigate in some
If, then, we may expect to have to irigartance to II, then, we may expect
Nemown at least, it it of a great deal oi importance to
know how much water we will need. The subject, then, which maturatiy presents itself is the measurement of watur. intul recently, it was universally the practice
to use the inch or miner's inch as the unit oi measwire. An inch of water was defined somewhat different-
Iy in variousi states. it is sufficient for our purgose to define it as the anlount of water that would pass
through an otilice an inch square, the surface of the

 this over the orikimal miners inch might be illustra-
ted in a crude way by supposing that instead of selling wheat by the busine the clevator men were to sell
the amount oi what that would run out of a chute of crrtain dimensions at so much by the hour or day
Another rason that the miner's inch was unsatis-
fuctory was that it was walemely diflicult-in fact, to




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take just 43,560 seconds, or nearly 12 hours, to cover
an acre one foot deep.
The amount of water necessary to give a single irrigation varies with the kind of soil and subsoil, together with its temporary condition; that is, tilled shallow or deep. The more porous and open a soil is, and the more open the subsoil, the more
water it is necessary to a,ply to get the whole area water it is necessary to apply to get the whole area
wet. For a flood irrigation of grain, it is necessary io
supply such a quantity of water as would be sufficient to cover the land at least one-half foot deep on a close, oompact soil, and up to two teet atid owr
loose, open soil. On our soil here, aiter it has loose, open soil. On our sion, it would probably be necessary to apply enough water to cover the land necessary hali a foot to a foot deep. On land with suitable slope and with a careful irrigation, half a foot deap might be sufficient, but probably three-fourths o On land newly broken irom the sod, a greater quantity would probably be required.
To illustrate what we have been saying, we wil suppose that you are entilled to one culsic foot o
water, and also that your neighbor is entitled to the water, and Fornt convenience you change water with him. For, in applying the water to the land, it i. much more economical, both in time and water, to us a stream of not less than two second feet. We wily
say that you begin at six ocrock in the morning say that you begin at six oclock in the morning
Every second, two cubic ieet of water is running out of your lateral and spreading itself over your land. In twenty-four hours there are 86,400 seconds, consequently you have aspliced twice that number of cubic
feet of water, or $1 \approx 2,880$ cubic feet, which would feet of water, or $1,2,800$ rublc feet, which acres jnsit
sufficient to cover about five and one-fourth acres sufficient to cover about
nine inches deep. If you changed with a thirll neigh bor and used three second feet, which would be stil better, you could count on irrigating half as much more in the twenty-fou hours. three second feet probably the most convenient size, for if it is much larger, one is apt to have to suild larger laterals through his grain than he cares 10 . As you prolatiy
know, in changing water between nelghbors it is cusknow, in changing water between netghors three day
tomary for each oue to use water two or tomary for each one to use water two or
to a week each time his turn for it comes.
At the rate of one cubic ioot of water for on hundred and fifty acres of land, as the law in the
Northwest Territories prescribes, mixed farming munt Northwest Territories prescribes, mixed farming mut
be practiced. For if one has one hundred and firty
 irrigate it in the four weeks or of harmer had his one
be irrigated. However, if the far hundred and firty acres so divided up in mixed crop that the first he would irrigate in the spring would bic
hay, then perhaps some winter wheat, then his carly hay, the wheat, barley, oats, potatoes, etc., in what
spring whe
ever ever order they were planted or when the needed it
his second toot of water would proinatly be ample th rrigate his full one hundred and hifty acrew. men, in the few remarks I have
if even to a very small extent, some of he hazy itfea
which are prevalent even among experienced irriga tors, as to the amount of

## Sheep-Worrying in Britaill.



Sheep Destroy Weeds.

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## Ottawa Notes.

## about fotato exhibits

Most agricultural associations provid prizes for potatoes, field roots and grai section for potatoes, prizes are given, in mo
for separate varieties. This arrangenert ten courage exhibitors to grow those varieties courage exhibitors to grow those varieties
managing committee saw fit to put on the list proper method, provided that the committee loo into the question of varieties and admit only th hat are best suited to the district or county
he exhibituon is held. But many of the hest. he exhibition is held. But many of he best
do not come to stay. Some of then becou
but." within a year after they have become sufficic y well known in a district to deserve a place on the rize hist, arn on this account of is alich idvisale to stll known that there are many Eain. names for potatoes than there are varictics. It is much easier for "would-be" scedsmen to invent new names for an old sort than to breed up a new
variety They must have something new to oller each variety. They must have sominate between variet ios of he same type is another Iroblem with which jurlgos are asked to cope when prizes are oniered for nanied varieties. Potato-growers know that there are feiv Juiges such rare Enraty Rose potatoes from manv ouhcr varicties of the "llose type"" or the Empire State vatity from others of the "Long white tyyte." It might l,e added, too, that the conscience of potato exhibitors would need to be rather sensitive iy toy dia not tane advantage of the judge's inalinity to guess right. purnose. All the varieties can be groupled into several tuite distinct and recognized types, which really form the basis of classification for commercial purposes. Why, then, would it not be wern oncer hes umber but muth fargivy of any variety, allowing Varieties of the same type to compete one against another? This classification of potatoes has already
 tions, and seems surar as wit emill as grain. section for seed grain, provision has i, inen the on that each halr bushel of sed will be accom-
panied with $n$ small shani, showing the full lenght of straw with heads of grain. It is alwnys dificult to judge the real wertis of scech or or variety from the. grain alono soon sumple of grain taken from a field that would not yield more than five bushels to the acre. The size of the heards of grain and the nature and quanty of the straw will be con cered in awnom the mis.

Mr. F. C. Hare, of the Department of Agriculture. marketing of chickens. Mr. Hare; after visitinn the poultry fattening station at Homesville, Ont., reports the work progressing favorably. He states that farmers who have reared chickens of the wer will find
pounds of weitht at this time of the year founds of weight at to liace them in the fattenins crates recommented by the Denartment, for three or
four weeks beiore they are placed on the market. Satisfactory results can be obtained in fatteniing chickens by taking a packing box nowe twent. the hottom and one side of the box, and by
 The honrdy the front of the box, two inches apart The that the chickens can be removed from it. Mr Hare states that the chickens should be fed a thin Thash of principaly ground oats and sour shmill gaill rapidly in the crates. Mr. Thare is of the oyinion that this full, ard that prices will be higher than they were last fall. A large firm in Montreal has writty to the
signiment.

## Strawherries a luxury

The season for strawberries is now one who have had a small patch in the garden have enioyed then! : others who have not, sulvely
learned to aypremate this luscious and heal lifill tallo. Sionle farmers fear to put down a for Hants lest the work of caring for them would 1 .
 moi-t soin. "Ih, good drainage. Spring is thi bussally to phant. but if that season is coud remuls, Fune Augh plants for a farm may give
on rompisen is in a tritle. The principal at

The Wide, Wide West. Probably no Canadian has any adequate con-
ception of the meaning of the word Canada until he has looked on the gioomy Atlantic as it breaks
on Caipe Breton's rocky headlands, then travelling night and day for many days, finds himself on
yictoria Harbor, staring, wideeyed, at the fitful Pactic is hariabie in mood as to max maid ours. As day after day one iourneys from the east,
westward ever, one cammot refrain from musing on the immense possibilities that are ior and And
 home
peacerill, industrious halitant, past the portals of old culario with its million sturay yeoman, on and on we hays of overy race, till at last the rrairte is reached. Then a region richer in pos-
filibilities than all traversed lies beyond. For a thunsand milites to the west extends the rolling
Hrairie till lost in the foothills of the Rockies and for many miles to the south and for many finit", mind palls in the effort to picture the lusty men have made their home and called it Mantola, but beyond, to the westward and to the
northward, ure inany million acres with settlers here andi there, men drawn from uearly every
clime to find in Camada a home and a freedom not known before. Beyond the plains rise the
nountains-the liockies, the Selkirks and the Inomtaing with fertile valleys between. Among
Gold Range with
the peaks and in the roomy valleys, and by the many lahes, and along the rushing rivers, and
mipon the fertue deita lauds, and within the tidy
uronds dwell the men from many nations who islands, dwell the men from many nations who hare shat that with such a preople, with such a
shail sity then sume such an ar ior inspiration, Camadia is not destined to a premier place in Nhen nature smooth: the plain with such mighty sweep or piles the hills with such reckless hand, the voyager is tempted often to neglect the
carreful consideration of the particular in a too rapt contemplation of the beauty and magnifibeen the writer's weakness, but habit is a powerfill factor in all one does, or thinks, or says, and
so, "hile sulbconsciously the alove thought prass. the ather dooints of the country traversed The exceptionally early spring which delighted
 tended west of Ontario.
sodden look, with starce a meen wore a sullen.
 Assinibuia Wats much ilke Manitoba, but the Assiniboia was much ike Nanitoba, but the
further west ward, the more advanced seented the season, tint hatgary
conered alt the land
At (alkars, as your readers know, there was












 Sopuse the Row from Rawlinson's lipes the Mc-



 ing is contemplated. objection when grain farming is contemplated besiles this, the slope on ericts, however, where extensive ranches ar operated, and other sections where grain-farming
is carried on. Probably the most beautiful and one of the most fertile of these districts is the Okanagan country. Sicamous Junction line to reach this land of pldnty, and a most leautiful trip it is from the main line to the end of the Okanagan Lake Ranching, mixed farming growing-and this great valleys suits them all. The grain and potato farmers are tiring, a the land is. becoming exhausted, and a creamery heing built at Armstrong. At meetings held was evident, and the institute lecturers were plied with pertinent questions. These men are starting along right lines and they are bound to succeed. Dairying in British Columbia is a peculiarly favored industry, for, where it is possible of pur-
suit, grass being plentiful and the pasture season suit, grass being plentiful and the pasture seaso
long, the expense is low and butter prices ar high. Creameries have, generally speaking, been a great success, and the dairying industry is capable of tremendous expansion because the
market is good and practically unlimited and the market is good and practically unlimited and the
industry is in its infancy. But, while dairy farming is coming in and replacing grain and potato farming, the ranching business is likely to continue, not only in the okanagan bout in many other parts of the Province, on account
peculiar climate and geological formation
The Coldstream Ranch, the property of Lor Aberdecn, lies three or four miles from Vernon, and on Victoria Day a most pleasant and instruc tive morning was spent in the company of $J$.
Anderson, Deputy Minister of Agriculture for the Anderson, Deputy Mr. Ricardo, the energetic and keen manager of the estate. The hopyards, over the potato fields, which include about one hundred acres, were just being planted. The strawberry well, and the cherries would, apparently, need many boxes at harvest time. Under orchard there is an area of 160 acres, and on many of the larger trees a good "set" of fruit was in evidenco
The whole ranch had an air of efficient and The whole ranch had an air of efficient and Kanching operations on a big scale are carried
on in various districts. The basin of the Thomp son River is one of the districts most suitable bottom lands and the adioining grasstcovered hills and valleys. Near Kamloops is located one of the largest, the Harper, A drive of twelve
miles over an easy trail brings one to the comfortable buildings in the midst of the cultivated Cands. Irrigation is necessary at this point, as
is in many other parts of the Province, but alfalfa grows most luxuriantly here and rarely
needs to be watered. It was hearly ready for the needs to be watered. It was uearly ready for the
first cutting about the end of May. The potato crop and root crops were starting out well. in staple crop wrerever Water is available . Large
witurns are harvested. The vields vary from six roturns are harvester. The yields vary from six formant is a newcomer or an old-time settler: the ohter the settler the larger the crops. No native-
born ratheher was met, however. So posibly the
crops mentioned alow are considerably understimated. Aiologios to the frovince are in order The cattle were all out on the range, so we
were not so fortunate as to be able to inspect them. This ranch is one of those which last
wintor bought in stockers from Fastorn Canada The matager some hight of the Eastern stuff,


xamined some 450 tons of irrigation-land timothy hay for export to the British Government
Var Department in South Africa, and he had ever seen timothy south Africa, and he had part of the world. It was perfect in color flaver and texture, and was entirely free from dust or other foreign substance. This was the first hay
shipment to South Airica from the Nest, and hould surely bring furtho There are some parts of British Columbia these is the rraser bottom below Vale among is situated in this section. A most profitable day can be spent at the Experimental Farm, opmsite
the station, hy any one interested in farming on orcharding. or by any lover of the beautiful. The Superintendent, Mr. Sharpe, is of a most
Thy or genial personality and most enthusiastic where the agricultural possibilities of the country are concerned. This part of the lrovince is wel suited for dary farming, and creameries flourish are marvellous, and are being developed as rapidy as is advisable in a country where each disrict has a climate of it.s own, entirely different careful tocal experiment and study. The return eastern trip was made in June. and truly a most marvellous transformation han occurred in all the great pain. Where heak irown slopes had been in May, ... wime rich half-burnt stubble had lurt the eve, soung grain waved thick, a timely, welcome dresis to mother earth in her nakedness. The West is nothing if
not energetic. Even nature there does things with not energetic. Even nature there does things with
a rush. It is evident that if Eastern Canadians wish to retain their commercial and agricultural pre-eminence they must decide soon and resolutely

## The Bird's Hill Plowing Match.

 aird s held on July 8th, on the farm of Wm. McKinley The day was perfect and the field selected ad of the district provided a sumptuous dinner midday and light refreshments during the after noon, for which a small charge was made the iroceeds going to aid the Tnion Sunday School ints in all. Not as many as the previous year owing, doubtless, to the work on most farms behg rather backward on account of the we y in en and. plows, the field had a slight roll about half way down the furrow, which at the start bothered some of those used to plowing on flat land. The ints were arcustoued to most of the contest reople gathered in the afternoon to witness the conclusion of the match, among whom were a Hhintcher from Wimipeg. The judges were Mestrs. in the class for boys 16 and under. I Patterson who did a very creditable job on a rather poor land. In the class for boys 20 and under ther were three entries-Frank Patterson, Jack Hod work, although it lacked the care and finish on looks for at a plowing competition. They wer lanked in the order named. In the men's (under deeply centere in this contest. The competitor were W. J. Smith. Henry Smith. J. A. Hender order named. the first three doing particularly good work. all of them opening with too hig crowns and none made perfect finishes. Samue in izen and wim. Knight werc the ompetitor the order nained. The judges assumed a practically impossible task when they undertook decide between two gangs, a cirlky and a disik and in order their derisions without waitine to ser the fin Whes placing the awards as follows sond I. Wilson dobbledisk, third and Beatio sulky, fonth. It is to he hoped that at futurmatches separate classes will be provided for the different styless of plows. sk) that instice may b general could, we thinis, be impored by having ceparate classes for 12- and 14-inch walking division mioht be nade in the mudec clacis divise, but instrad one open class coulk be our won a first prize at any plowing match. the public and the contestants, was almoth for tirely lost on accoant of score cards not beink
used in making the a wards. With the score card. the plowman can learn the points wherein hi anstad in forming an intelligent opinion as to

## THE FARMER'S ADVOCATE

QUESTIONS AND ANSWERS.




 not be fiven.

## Veterinary.

partial dislocatrof of the patrea. I have a young stallion, four years old, that has been standing service for the past season. He
is a little weak in the stifle joints, yet his weakness does not seem to bother him only when he stands over in the stall, when he drags his legs
and trails his toe, bringing the foot up with a and trails his toe, bringing the foot up with ay
ierk or quick movement. He has peen this way ierk or quick movement. He has peen this Way to run out of his stall. He is growing fast. Will he grow out of it? What remedy would you ad-
vise? Is blistering any goord? Is the ailment in the joint, bones or iendons?

Ans.-This affection is not infrepumely seen in young horses. It occurs from a relaved or parlially ruptured condition of the internal lateral
ligament of the stifle, or knee-ioint, which perpits the patella (knee-cap) to slip in :ind out of its place. With regard to your horse, the case has evidently become somewhat, chronic, and in
consequence the usual remedies may zot prove consequence the ustaal remedies may 2 net prove
effectual or satisfactory. Give morning and evening, in food or water, for ten davs salicylate the hand, over the whole surface of the ioint, for at least ten minutes the following blister cantharines purcma Ifter forty-eight hours, wash off and apply vaseline to the blistered surface. Repeat in three weoks. The horse should be turned loose in a
roomy well ventilated and lighted box stall, bedded with sawdust if possible. It is not advisable ded with sawdust if possible. It is not advisable
to apply blisters in very hot weather.

> inbiticat, hernis.

We have a youmg pig (harrow) that has a 1 ad rupture at the navel. Would you kindly aulvise as the best method of curing this rupture? The welling is athout the size of a "up, and can
retuced, but always comes down again. Brandon, Man. K. BROS. Ans.-(iive no food for sixteen hours. lace
the animal on its back and return the contents of the animal on its back and return the contents of
the sac. (Gather the skin up c'osely to the walls the sac. Gather the skin up c'osely to the walls previously-prepared wooten clamp, or "clam,",
sufficiently tight to stop the circulation of hlood, sufficiently tight to stop the circulation of hood,
hut not tipht enough tor calle toon rap oll slough-
white sconirs in caif.
I have a valuable calf, two months old, which
cks its dam. The calf scours all the time. The sucks its dam. The calf scours all the time. The
discharge looks white, like milk. The calf is kept shut up. The dam is out on an o'd pasture field. Ans.-Your calf is suffering from what is commonly called white scours. Give the calf ${ }^{2}$ ors.
linseed oil mixed with the same amount of limewater. Then give a powder, morn'ng and evening composed of catechu, $\frac{1}{2}$ dram. and powdered
chalk, 2 drams, till you see an improvement. If chalk, 2 drams, the you see an improvement. If
fossible, chamge the food of the dam tand let her have $\frac{1}{2}$ gillon of limewater every night and morn-

## khyumatism.

hers sitife whon walking. Is bether at night hath


 Kep, har perfortly quiet and in comfortable quar-
tors. cout of hot watur, to the parts diave a dam
 the wints

On Thmsalay momine a fome searend horse re-
ceived wommi on hip by haching down on at hatrrow tooth



 then
grain, especially rye or barley, and sometime grain, especially rye or
found on grass, especially on low lands.
not offer an opinion as to what caused it
case.

- inflimuation of womb (hetritio I had a mare which foaled on the 3 rd of Jume llad been slightly stiff with swelling in joint.s fin,
about three weeks. The third day after foaling her milk seemed to dry up; and got guite stivi, with spells of trembling: temperature and pulse rising; appetite gone; breathing hard and quite
uncasy, standing with fore feet well under the tondy, and finally died.
Ans.-There is little doubt your mare died from inflammation of womb. I think, however, that
:here was also a complication of parturient liminitis (founder a . Treatment for metritis consists of syringing out the womb with bichloride of mencury and water, in the proportion of I to
1,000 ; an application of mustard to the loins and then covered with heavy cloths rung out of hot water. See that the bowels are kept moving cther, $\frac{2}{}$ ors. or about $\frac{1}{2}$ pint whiskey Trous ether, ${ }^{2}$ o/s., or about $\frac{1}{2}$ pint whiskey. Treat-
ment for lamanitis: Purge with 1 ounce alors. Give 1 -dram doses of nitrate of potash three times daily for two or three days, and keep the feet soaked in hot-water cloths


## Miscellaneous.

## mobrtatron of jerset

Could you give me the name and address of the secretary of the A. J. C. C.; also cost of registry Ans.-J. J. Hemingway. 8 W. 17 th St., New female; to members, $\$ 1$. All animals over or years old, double fee. For registration of dead animals necessary to complete the registration, \$1. Imported animals, $\$ 10$. Transfers are redelivery: after 90 days, $\$ 1$ each. Blank forms for registry and transfer are supplied free. forms

## FARM GOSSIP

## Don't Forget the Wecds,

## When the hurry of harvest is on, don't forget

 that the weeds may be quietly growing in thegarden. If any be allowed th send. a larye amount of the labor expended in keeping them down during early summer will be lost. Onty a beds and pull up the stray intruders They beds and pull up the stray intruders. They are

## Importing Canadian Products.

The following table, compiled from Canadian (:overnment reports, shows the quantity and value of
a few products imported into Canala from the United atew products imported into Canada from the United
statios during the ten montlis ending $\Lambda$ pril, 1902 . These imports are those alfecting mainly gardeners and fruit-growers. Canada has a competitive free list of
aliout $\$ 39$ ond ahout $\$ 39,000,000$ worth of farm products coming from the U. S.,., and a long list of manufactures under Potatoes-6.5, 092 bush., valued at...... $\$ 71,102$

 | Grapes-5 5 5, cos ths., valued at........ | 38,665 |
| :--- | :--- | :--- |
| (irern aj, | 36,600 |



Rurdock Killing and the Monn.
Hat a sucking colt that four dass anter birt
hat in soit swelling come on its iront hew rivh
long. 2 inches wide. Colt not lame. plas and

ons yomm anmal, like your foal appons un bun
the lump is irequently absorthed "hlom ams
treatmont. If it does not disappear ill whems

$\qquad$
$\qquad$

Mot.... a ins lines frou Mr. Nohn Bi" Stone re killing
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Fair Dates.



There is no frigate like a Book Nor any coursers like a page

God Save Our King The whole British nation stands, as it were, in joy-bells which were to have " made the welkin ring," there is a sitence, and instaad of the rejoicing shouts of the gathered multitude from all
the ends of the earth, there goes up the cry the ends of the earth, there goes up the cry which, whether in joy or sorrow, is, a
been, a prayer, "God Save our King
$\because$ What I do, thou knowest not now, but thou shalt know hereafter "-and with that assurance we must strive to still the aching of our anxiou to us, inexplicable dealings, we do know that be find them lies some mighty purpose which needed this trial of faith, this suffering of a King, this sorrow and suspense of a loyal people, to bring to a perfect fulfilment
One of the uses of suffering is the sympathy it
ings. Not only are the hearts of the King' loyal subjects stirred to their very depths, but irom other lands and from other peoples, kindly oiced with us over the glad advent of peace, so now they sorrow with us in our time of stress and anxiety. In a lBoston paper, issued on what ways. .' The world deeply sympathizes with Enylard's stricken King. It has been his lot to fill the gap left by his lamented father. He has had Co be the throne's representative in unnumbered f princely propriety, he has been obliged to subect his health to the inevitable dangers that must come of innumerable exposures. The result is that he neared the throne broken down in honor as though he had died in the field of battle. "Only the most thoughtless will aseribe the King's long round of strained living to natural fice for the glory of England, and is an object of true sympathy for all the world. pathy for the King. It is certainly a case where a peassunt might pity a potentate." rue: " But perhaps the women of the world will most pity Qucen Alexandra, whose beautiful face has so often adorned the public prints of late.
she will suffer afliction more keenly than all the rest." There will not be a wife or a mother in the whole Dominion of Canada whose heart today
will not be beating in unison with that Royal will not be beating in unison with that Royal
wife, and whose praters will not go up with hers, that the life so dear to her and to her chilvet be spared for suars to come. $11 . \wedge 13$.

Ingle Nook Chats


THE FARMER'S ADVOCAIE

There we contributors to these contects who ave tried and failed almost half-a-dozen times,
yet they cheerily return for still another attemp, Those persons will eventually win (not through favor "-all are strngers to me), because each mort leaves them stronger than before. This pend III aid in the formation of firm character, and will unconscionsly leave its trate thercupon, for and even thought, is being built into this important life-work.

> For the structure that we rais Time is with materials filled Our to-dgys and yestesdays

Are the blocks with which we build."
Another competitor writes: ". ... We defeated ones may at least do justice to those who have
won. Perhaps the failures may succeed next time- Bruce and the spider,' you know," 'This is the
true Canadian spirit, and nil desperandum is an extrue Canadian spirit, and nil desperandum is an ex
cellent motto. I used to see The Khan poems, but cellent motto. 1 used to see The Khan poems,
have not read any lately. 1 should like to have the one you mention. I dare not ask for space to publish the poem you ask for, as already we are obliged to condense inalters very much. To what do you refer Thyme - By Mac and O you'll surely know True Irishmen, they say: For if they lack toth 0 and Mac
$\qquad$ Irish.
Indeed Indeed, "Baby," the fact of your having had birthday recently does not excuse you from paying higher rank and to win in future will be a greater honor. Don't you be foolish enough to give up horse-
back riding (or reasonally short skirts, either) back riding (or reasonably short skirts, either) for
ever so long yet. Do not be in a hurry to bid adieu ever so long yet. Do not be in a hurry to bid adie
to " the giad, wild ways of your schoolgirl days " the necessity for doing so comes always soon enough even when longest deferred. Keep your heart and spirits young, and your face will follow their example shall mot be reproved for indulging in slang ; it is so expressive sometimes), and some day you will walk hand-in-hand with success. Too bad your berric failed. I see you find some consolation still; that's
the best way-always look for the silver lining. Did the best way-always look for the silver lining. Di
you not love pansies? Their sweet velvety faces al almost human in expression. Mine are not as good us usual thus far. You
our completition
The result of Contest $X X$. will appear next issue which is too had
Contest XX1. will excite more general interes and I hope for a large attendance. Quotatio "ud of " last,"" as printed in July 5th issue. Where are the two hundred and twelve Guest body welcome young and ald no ery fail: try try arain. THE HOSTESS Ingle Nook Chats, Pakenham, Ont THE QUIET HOUR

Forward, March hastening on, o'er rough and smoull or only he who stands stock-stil
in forming whe and ding tork You'll often make mistakes, of For only he who never strives
Better to lose a dozen fights, And yet march on courageously han halt, a coward, on the field

- mond given to the I crent
begon their march to the Promised 1 ,
a command to u.s: '. The Lord sind
Whereiore criest thou unto Me? Sime
forward! Are we obeying that
hey the hear the ordace und on
taking steps. but making no
pe doing What were we like

Tht it mise to ask ocrn

Whewarm, anll neither cold nor hot, I will
hice out of My kingdom of God, and making the pecking pursit of hess the grand object of our lives:
merely playing at religio,
One thing that is very important in rumume our Christian race, is to aim rightly, If a man heaven, he will probably be quite satistied to heaven, he will probably be quite satisticd with
himself and his progress. Comparing himself with his neighbors-or, rather, with what he imagines his neighbors to be-instoad of with the periect Man, he will be very apt to rest on his oars when he has reached a fair standard of worldly respectability. But we should never be satisfich
with ourselves. Our business is to press towand the mark, not to pay a small premium-in the shape of good works-as a wise investment in the ly matters, as Kingsley says, we should not l, perpetually thinking. ". Will it pay me ?" inst "al
of " Is it right?" Trying to get most money for the least work. In spiritual matters it is fat thought, "How much will God take for wavin" ny soul ?"-which is the secret thought of "we many-then we shall be in a fatir way of killing our souls: so that if they be saved, they "ill not, at all events, be saved alive For we shall ustice, generosity, unselfishness and unworldlimeis which make the very life of the sout.
a,ving aim shomld not be only the selfish one of as high as possible: " Be ve therefore perfect even as your Father which is in heaven is perout growth, how can we be sure that we have any spiritual life at all? But growth is often
yery slow : we certainly cian't reach perfection alt at once. The rule is always the same. "First the hate, then the ear. then the full corn in the ear." cret in His own hands. Men are clover enough in make a great many things. but all the human
wisdom in the world can never make the tinlest grow. This being so, we must come to Cod fo fuller liie, instead of trying to clip our souls int. Wrons end to try to make the actions right, if That is like tying fruit on a tree fruit which is
not the product of its own life and dors not shay of what sort it is-does not helong to it. in fact Christ has declared Himself to be The Life, anlil
says that He will give life to all who come th
IIm .
 that ye might have life." The great and infiniti" closest union and personal contact. if we will omly yield our lives honestly to ${ }^{\text {Hima }}$. He has a spe cial meskage for each soul. "Which "o man know-
eth saving he that receiveth it." Without Jim we can do nothing, but we can "do all things"
when drawing every moment's power from Ifim whose strength is made perfect in our weakness llis mind a thought, his life a breath of (io And let arh try, by great thoukhts and great. (hewds
To show the most of Heaven, he hath in him." This lije of ours is a grand trust lent to us ly cod. The idle question, " Is life worth living?
can never be asked by one who realizes that life day, for it will never be ours to use again and (u)-morrow. when it arrives, will still be to-day-
$\qquad$
Even the bits which seem most dreary im
$\qquad$
$\qquad$ It carempy cultivated Are we making the most wer the fence at other spots which ara leoking to us to cultivate? I'erhaps our task is a difinomions are not congenial, and if everything is mot made smooth and basy for us. But let us Tombed to help instead of to hinder us. If the

$\qquad$
$\qquad$
$\qquad$
Hronowed against the land
against
rt neither
cold or


Lake leman, switzerlanin
Visited by "Mollie" in her travels.

I'ravelling Notes. I have written this on Sunday afternoon, whilst the town and the streets are one whirl of people and heep Sunday better than the french, they have preat license durmg this fete. 'They are a simple conntry lot, nicely dressed and respectble, and though here," and in France, winedrink, 1 never see an intoxicated person. 1 read in my guidetook that Siwitzerland is bounded on the north and east by Germany, on the south by Italy, and on the west by France. It is a repubfic formed of twenty-two cantons, and the popalation is composed of French, (ierman, and Italian. The derman language is spoken by the inhabitants in sixteen cantons, the French in lour, and the Italian in two. Its greatest length from cust to west is 200 miles, and its breadth, 156. 'Two-thirds of its surface consists of lofty fountain chains and valleys, the higher peaks teing covered in perpetual snow. The two most imfortant ivers are the Rhine and the Rhone. In es toncring mountams and ast glaciers, its eauchur lakes and sinimity valrys, ics numberless Alpine streams and gitlering cascads, Swizer Here seory This how hord Byron do striking scener

## Ahove ine are the Alps,

The palates of Nature, whose vast walls
Have pimnacled in clouds their snowy scalps And throned Eternity in icy halls
of cold sublumity where forms and falls

So iar we have only been into French switzel latd. Ening irom place to place on Lace Lemam,
bethe Honnn to us as the Lake of Geneva. It has ramod more than hali the time, but they tell us it has been an musually rainy May. It seems
ofld that no matter whare one goes, if it is tor not or two cold, or too windy or too rainy, it it.
always the same story-. an unusnal season, it: like nire before heard of!" Why this should happen mst when we go to these places is un-
answn...the. In this case ne can forgive the weathe. for there have been so many nice things

 ha* ...ilen, but nearly all speak English
 Mo. $\quad$ fortunat" to be here this week, for of tlass. Chinese lanterns, and Howers
the action being the annual $\quad$ Fete de Nar

Cissus," and Battle of Flowers. Bands are play-
ing, and hundreds of young people and little children, dressed in most picturesque style, are taking part in marches and pretty dances and gramme in the park, they all go through the streets in floral carriages and big vans, fand then Cllows a battle of flowers, somewhat simiar to this difference This difference, that here flowers are not so plenti-
ful, except the narcissus, which grows wild and is gathered by the bushel. Confett1 is used as well as flowers, so every man, woman and child, as well
as the streets, are completely covered with both. the streets, are completely covered with both.
The Swiss railroad has been to us an object of The Swiss railroad has been to us an object of
riendly amusement. We had only got used to the sound as of a boatswain's pipe, of the French conductors, often resembling the cry of the peacock, when here we find the train is started by a
small Christmas-horn, blown sometimes by a small Christmas-horn, blown sometimes by a
woman! Sleeping berths are an expensive luxury ooman! Sleeping berths are an expensive luxury fifteen dollars for a single berth, so it is not strange the native prefers to doze away the night
tolt-upright, or to crouch into a corner of the holt-upright, or to crouch into a corner of the
carriage. For myself, I have long since learned carriage. For myself, 1 have long since learned over night. As one travels through this part of Switzerland, the eye falls upon a world of vine-
vards. In other words, the vines clothe all the yards. In other words, the vines clothe all the
little levels and vast slopes of the mountainsides as far un as the cold will let the grapes sides as tar up as eray almost no other cultivation, and it is a pretty sight. On the ton of the mountains are the chalets. with their in the road, the other day, a little goatherd and his flock came full gallop upon me; the boy roughshod, with a pointed stick in his hand. and behind him a merry troop, tinkling their
biells in as many tones as their rough conts were
many-colored. The elder ones jogeol along, se
date and fultudtered, in the forefront, but the hids danced, nimble-iooted. deliberately foolish and frolicsome, tounding and turning upon them There are many delightinl excursions to be hade byron wrote in Childe Harold's bilgrimage Clarens! by heavenly reet thy paths are trod,
Undying Loe's who here ascends at throne Undying Lo:e's who here ascends "
To which the steps are mountains To which the steps are mountains
He who hath loved not, here would And manke his heart a spirit: he who know
That tender mystery. will love the more
and Vevey, where the world-known Nestle Food is made, and celebrated chocolates. Chillon fine old Gothic castle on the border of the late.
it is stated that a great swise general drew iul his Helvetian forces here and guietly awaited thu approach of a powerful Roman army under the Consul Cassius, grandiather of Julius Cassar: wife, B. C. 107. After a long and terrible com
 sold, repaired and strengthenod Chillon. Bonivand soldier, poet and patriotic reformer, enemy of Charles IlII., Duke of savoy, was chan ched here i,
a pillar for four years, by the order of the l bule a pillar for four years, by the order "I
until released by the Berne army in
5036 . L... Byyron has made it famous in his mutble pocm, the " Prisoner of Chillon

Chillon : Thy prison is a holy place
And thy sad floor an altar-for 'twas trod
Ontil his very steps have left a trace
Worn, as if thy cold pavement were
By Bonivard
In Chillon's dungeons deep and old
There are seven columns massy and gra
bim with a dull imprisoned ray.
Take Leman lies by Chillon's wal
Its massy waters meet and flow
Thus much the fathom line was sent
Fromm Chillon's snow-white battlome

To Counteract Sunburn and Remove 'Tan. Healize tha sow dugs on the sk, hisious that simple remedies to be fould hand in all homes. (i) these there is aothing better than fresh buttermitk for removing tan, freckles and sunburin. It has the grett it soft, white and smooth. Take a soft cloth or sponge, and bathe the face, neck and arins thorouchly before retiring for the night ; then wipe off the drops dighty. In the morning wash thoroughly, and wipe three such ene skill with a crash cowel. No freckles, and occasional upplications of the buttermilk will keop the hands soll and smooth. If it is necessary to have the hands in dishwater or suds, rinse in cornmeal.
An oidd-fashioned cosmetic for tann nowl sumburn Which is agreeable to use, is the juice of crushed
strawberries, or the milky juice, from the stalks flowering lectuce. It should be well but gently rubbed into the skin at night, and "c parkelly in for a week Vegelatue commositions are much better for the ski than other kinds,
mal oils often do

uhamunix-la mer de glace, swish ale
isited by "Mollie" in her travel
o your life will be If you make a habit of on the sand, dying of thirst. Knowing that cour
wasting minutes, some day you will find that age ind gentenoss go together in a true soldier your life has slipped through your hands and is perhaps you will not be surprised to hear that wasted too. Then, some people are very free he got off his camel and gave some of his stor
with their promises, and think they are brave of water to save the life of that poor litule crear with their promises, and think they are brave yome day. But our lives are made up of realihiin, not of dreans; the things we do, not the am very sure. Why slouldn't you be herons to things we intend to do. .. If I hacd a heap, of yellow corn
And fictds of waving wheat,
I'd quickly send a cargo whine They've not enough to ent
With grain of every kind,
And muke my harvest offering
O) if I hat just mould find.
$\qquad$
$\qquad$
$\qquad$ So generous and bold
What he would do whet he was rith.

 Had none to give or has
But truly now, if hols cos But truly now, if hul an,
To be a generous man. To be a generous man,
Hocd better ractise whon 1 once heard of a
Tip honce haw
IIE stories anout bows who hay

Thither the corn and potatoon
$\qquad$
$\qquad$
$\qquad$
$\qquad$


THE CHILDREN'S CORNER "Twentieth Century Chickens." Yhy, chickies, where is your mothe You poor little shivering thing
What can the old hen be doing ? What can the old hen be doing?
You ought to be under her wings
Oh The ansiver.
h, what do you mean by a mother We were hatched in an incubato Chicken's up-to-date are we.

We've a box that is called a brooder But no wings that are warm and sof Under which we can run and nestue,
Like those common chicks in the tor

```
or mothers are quite old-fashioned
```

    Not needed at all to day
    Though the eggs they still must
    
## Between Ourselves

 The descriptions of the picture called "Perfect you will all make an attempt at it before the ing, " Take care of the pence, and the pounds will ing, "Take care of the pence, and the pounds wnl that we should be careful not to waste small sums of money. It is possible to be very carefulwith money and very extravagant in other ways. with money and very extravagant in other ways.
Your life is the most valuable possession you Your life is the most valuable possession you
have-and life is made up of minutes. As it takes a great many coppers to make a thousand dollars, so it takes a great many minutes to make
an ordinary life; but as you spend your minutes,
twanderth century chichans.
mother's could dress in silk and velvet and drive
about in grand carriages, having no work to do
Reuben's mother was a poor widow, and he use Reuben's mother was a poor widow, and he used to lie in bed on cold mornings, dreaming of the
fine things he would do for her some day. It was line things he would do for her some day.
fleasant to think how kind he would be, and he would draw the bedclothes over his head so that he could not hear his feeble old mother lighting
the kitchen fire, pumping water, and even some the kitchen fire, pumping water, and even to the
times digging a path through the snow to times digging a path through up a story called henhouse.
. The Hero
." Hello "Hello !" he exclaimed. "What is this about? I mean to be a hero."
The story was about a village which was entirely destroyed by fire. One poor man was in groat distress. His neighbors had lost their
homes and cattle; but he was nearly frantic, for homes and cattle; but he was nearly frantic, for
not only were his house and cows gane, but his not only were his house and cows gane, bat his about the ruins, and just at daylight he was overjoyed to see his herd of cows return, followed by
his son, who, when he saw the fire, had driven his son, who, when he saw the fire, had driven
them away out of danger. When told that he them away out of danger. When told that he was a hero, the boy excraimed, one sho does something wonderful. I only took the cows away because I knew it was the
right thing to do." " "Yes," said the father, " and he who does the right thing at the right time is a hero." ${ }^{\text {y }}$ right thing thought the matter over very seriously and came to the conclusion that he already had the chance to be that kind of a hero. He alsa
decided that he had better go to work at once as heroes can't be made in a day. The greatest heroes are generally most thoughtful in doing little kindnesses. One of the
heroes of the British navy in the time of the heroes of the British navy in the time of the
Crimea was Capt. Peel. He distinguished himself by many daring deeds of gallantry, such as picking up a shell which had fallen near some boxes of powder, and throwing it over the earthworks before it exploded. Once, in 1851, he was crossing a desert when he saw a little bird lying


Twenty Yearss Experience Wilh the Hired Man.
1 have been repeatedly asked certaill qth
fons relative to hired help in this commt "hen in Ontario I have been asked if we fomit any trouble getting hired men for farm work, will
if hired men out here are like the class when It hired men out here are tree the crass "10 in then
out as plowmen or "general hiret men in
older parts of Canada? Then, when an aristoct older parts of Canada? Then, when an aristocrat
ic Old Country man-a ". gentleman," of course meets one of the landed proprietors of our great
wheat-growing plains, he naturally wishec know what may be his prospects. (iif he invents leal estate and lays out money in iarm building. fencing and live stock) as to obtaining "servants, cur "working people" right along for a term of old families grow grey in our service, as in the times how to explain the situation, for only experience can do that. I fancy, our experience may
be a sample of many others', and may possith be a sample of many others, and may possiby
supply the information repuired, therefore thit eminiscence
tried prairie country began at the time of havinuour dwelling consisted of an $8 \times 12$ shanty and in
tent of about the same dimensions. The sham accommodated three children and two adults it right, besides being general storeroom and wardrobe. The tent was iurnished with kitchen and camp bed only lasted part of ong night. It was not built for over two hundred pounds avoirdumone, and our man weighed that much. He was it well proportioned. It did one good to sim him stride over the hummocks: and to tramp down a good-natured as the day was long; and when laugh and said, "Never mind, this is better" never even moved to arrange things and snored ay till morning. He brought his Latin books along for leisure momemts, for yout must kenow
that he was a graduate of Toronto University,
and entering on his law studies. Rainy days came once in a while, and as our chores were not
heavy, I pressed him into service as teacher of our two girls, with wiom he was a great far
oite, and a model teacher. It would do some the fastidious young men good to see him chme ing for me, as he did more that one
primitive churn-a tin pail and a grantite spoon
My last interview with him was in the allmpon of the courthonse in at harw we-tann city. Ite his seat among the "wise men." If, perchance, his
we falls upon this sketch, he will doubtless med ognize his portrait.
Our second was opposite in won worne and might almost say in overy respect, stmain, wolideed that he had left all worth living for behind down" It was a tertible ordeal to him to lie
down the first night in a rude bunk built against down the first night in a rude bunk built against
:he wall, and cover himiself over with the coarse
wrev blamkets. Worse still it was to have to eat the common side bacon and the other coarss frod. We had he this time the theeroomed foomy buit and mon bilding material wasted in cooked irech for erery meal or ate hawed out. This for crops the summer previnus. we could harally
 When he omtered urom homestead duties, making
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THE FARMER'S ADVOCATE.
$\qquad$

The Red River Settlement.
some reminiscencers of Fifty ybalis
ago. How those vellow old papers bring back the
memory of odd familiar face-mo thof them nevel
 more or less, left fruitinl records bhind them.
Amongst the foremost come the kindly, earnest, benevolent face of the first Bishop of hupert's to have had no bounds, for it certainly could have claimed the whole northerly part of the lines of the United States, covering at least two lines of the United States, covering at least two
million syuare miles, some of it within the arctic zone. I remember thinking of Bishop Anderson as at kind of Robinson Crusoe amongst bishops, not only on account of his isolation, but because he seomed to be equally endowed with the faculty of
making the best of things as they were and as they were not. He had such a handful of clergy, too, to help him, the exceptional few only, going
forth into the wilds to carry their message. But forth into the wilds to carry their message but
how could they go unlesse they were sent, and how could their chief pastor send them forth without some practical plan for a provision for themselves and their flock? It was but pioneer work, but without pioncer work such as fill to the lot of velopement of the Northwest Irovinces, and the dioceses and missions of the big Northwest. would assuredly have bern much longer delayed. Bishop Anderson was primarily a Christian pas-
tor then a scholar, and believing in education as a most needed factor in all progress, he at once set to work to obtain for the young people of the settlement, for the sons and daughters of his clergy, and those of the officers of the Hudson's ing than had ever been possible before. In this he, too. builded upon others' foundation-a fact the recognzed and was eery graternt or sill, may day, an old pupil of those earlier days still, may believe, by Mr. Macallum, as far back as tho forties. Ir. Andirsion filled almost every oflice. from principal to usher, in the St. Johin's Coll lege of that day, and his sister, who was the guardian angel of the Bishop himself, of his own
three bright sons. and by looking after their (reature comforts and smoothing over a thousand and one little difliculties, the guardian angel also of the pupils, the boys of St. John's and the
girls of the sister school, st. Cross, a field's diskirls of the sister school, St. Cross, a lield's dis-
tance off. The writer can ser clearly with her minds eye-but probably less clarly from having seen her from time to time since-Miss Anderson crossing that field to the large outside storeroom buitt on the river's bank, followed by John
Omond, the Bishof's farmer and factutum, or by his wife, who actud as cook and housikerper for peeping through the chinks to find out what they were going to have for dimer. and passing on
the bits of information to, their comrades outside. Once it was, when an evil spirit of mischief
possessed them, that they set in a derisive cry. the ringleader darting into the willows, hoping not to be caught: Oh yes, give Mr. Thomas the shoulder, and give the bovs the shanks and
the neck!" They had never stopped to learn that the two latter were to make them some good wholesome soup, and that the "shoulder "
wis to be placed before Mr. Thomas to carve for then. I wonder if amongst the older follis of the Winnipery of to-day there are any who were
anongst that mischievous crowd? One thought brings back anotler as my pen runs over the
lank, reproachful-looking sheep in
dragred it over the snow to that doo against the panels and hid around to watch it iall prone into the arms of the gusted handmaiden. I will let the curtain upon the tableau; but, indeed, in a place nothing ever hat
worth the cande.
My readers, please forgive all this digressi 1 began with a bshop, and have ended w dead sheep. Moreover, if I am to continue
little recordis from time to time, you will ha make the best of me and my memories. promise to be less erratic in the next issue than I have been in this, for a remembered face sing: gests a rememisered incident, and ont of an dent grow many reniembered faces, and so
be that to those who only know the Wimin to-day, with its electric cars and its telephom wires, with its parks and its markets, and public buildings. with its many churches opera houses, and its hotels, these old-time be some old friend or comrade still living-lefi as $I$ am, with little but the old memories of th long ago we spent together-who may take the "Farmer's Advocate," and for old sake's si
may read with interest and share in the rel may read with interest and share in the retro which of the floor was a big square flap, led to the under cellar, upon the piled blocks which reposed, in the repose which knows Ho waking, hundreds of frozen fish and other smaller four-legged and two-legged creature
which befor: the six or seven months were ove "ould have vanished as if they had never been The ice was put into the "hold" oi our stor room because it would be a boon indeed during the intermediate season, not because those poo
drad things required anything to froeve ther more stifl and stark than they were when thin laden " sleds" brought them into their last long home in our storeroom. Beef was the only meat suppose because the whole animal could not havepoee bersuaded to enter the door and behate itself decorously by standing upon even two or Hree of its legs, as the other heasties did.
1 could laugh now, in spite of my sixty-odd y conld laugh now, in spite of my sixty-odd animals assumed as they stifiened into the position from which nought could move them, until after hours of gradual thawing in a somewhat higher temperature, and finaly of repose behind by swift bows of the hatchet, followed by the masterful stroke oi a sharp-bladed knife, they ceased to be either pig or sheep, but became pork or mutton for the students' table. There was one
cheep which Gate winter had a curious fascination for me whenver 1 went, hati awe-struck, half in Inisitively, into that, to us. forbidden storeroom. It looked so comicalty like the man who once hal Owned it. Its right front foot was raised, with the youngsters run from its still living master it looked as if it would have shaken its reproachful head as he so often did; but, alas! it would never shake it more, in fact, it looked as if it had
diod having the last word, anyway. One crisp winturd having the last word, anyway. One crisp win-
thay, a wave of resistless fun swept over me. though i knew its penalty if caught. The owner of that sheep was expected. We had no such
thing ats door-bells in those days, and I knew that


## When Woods are Green.

 And winds are soft and low,To lie amid sone sylvan scene, To lie anid some sylvan scene,
Where the long drooping bough Whadows dark and sunlight shee
Alternate come and go.
The green trees whister low and mild It is the sound of joy!
They were my playmates when a child And rocked me in their arms so wil still they looked at

## A Chapter on Vegetables

Potatoes come errour far virystia, French beans, iow growing on the To distant India trace their birth But scarlet runners, gay and tall
That climb upon your garden wall A cheerful sight to all around In south A merica were found.
The onion travelied here from spain The onion travelied here from Spain
The leek from Switzerland we gain. Garlic from Sicily obtain; Spinach in far syrla grow Two hundred years ago or more Brazil the artichoke sent o'eŕ,
And Southern Fiurole's sea-coast Beet root When Lizabeth was reigning here Peas came from Holland, and were de The South of Hurope lays its claim
To beans, but some from Fgypt calle The radishes, woth thin and stout, Natives of Chilia are, no doubt; But turnins, carrots, and sea kale.
With celcry, so crisn Are products of our own fair tand And cablages, a goodly tribe.
GOSSIP.



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J. M. (iARDHOUSE, Highfield, 5 Head. James douqlas, Caledonia, 5 Head. George amos, Moffat, 6 Head.
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## GOSSIP











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