

## EDITORIAL.

Mr. H. N. Crossley's Hackneys and Shires. The group of horses that is so admirably portrayed in the life-like illustration upon our plate neys and Shires, the property of Mr. Horace $N$ neys and Shires, the property of Mr. Horace N.
Crossley, Rosseau, Ont. These horses have been remarkably successful as winners during the show campaign of 1883, several having won the highest honors in their respective classes, while all have succeeded in carrying off ribbons at the different exhibitions at which they have competed.
Sandy Bay, Mr. Crossley's stock farm, is situated on Lake Rosseau, Muskoka, where he has ments of a breeding establishment such as he is ments of a bree
Mr. Crossley made his first importation of horses in 1890, at which time he brought out the beautifu Hackney mare, Lady Cocking, a pair of half-bred Hackney mares, and a pair of registered Shire mares. Again in 1891 he brought out the Shire stallion, Headon Banneret, and the mares Sapphire and Headon Duchess.
In 1892 no importations were made, but last and selected the three-year-old Hackney stallion Fireworks, the Hackney mare, Lady Bird, and the Shire stallion, Bravo II., and the winnings that the stud have achieved during the recent show season demonstrate what good judgment he has used in making his selections, for both Hackneys an Shires have gained their full share of ribbons.
The three-year-old stallion. Fire works, sta
The three-year-old stallion, Fire works, stand ing to the left background in the illustration,
won third in his class at the World's Fair third at Toronto, and first at London. He was sired by Wildfire (1224), he by (Cook's) Phenomenon. Wildifre won many prizes, and his dam, Polly Horsley, by (Triffit's) Fireaway, won over thirty
first prizes. Fireworks' dam, Pretty Polly (4574), first prizes. Fireworks' dam, Pretty Polly (4574),
was sired by the(Triffit's Fireaway horse (Stewart's) was sired by the (Triffit's) Firea way horse (Stewart's)
Superior (1110), by which it will be perceived that Superior (1410), by which it will be perceived that most popular strains of the day.
Lady Cocking, of which the figure to the far right is an excellent likeness, is a beautiful ten-yearsecond in the aged mare class at the World's Fair fourth as mare of any hge, and second in the cob
class to harness, at toronto, 1890. She is now in class to harness, at oronto,
foal to Fireworks, and has bred some good ones, mongst which is Althorp Lady, that has won number of prizes in England during this season by (Brough's) Achilles (3)
Lady Bird, the remaining one of the thre Hackneys, is a handsome four-year-old mare, imported this season. She won first in the four-yearold class at the World's Fair, second as the best
nare of any age, and first in her class at the mare of any age, and
Western Fair, London.
She was sired by (Stewart's) Superior (1410), a on of (Triffit's)
Mr. Crossley has been fortunate ion Hackneys, as they are not only royally bred but are individually of the highest merit, their action being particularly admired.
Bravo II., the Shire stallion standing in the right oreground in the illustration, won first in Montreal, first in Toronto, first in his class at London, and at the latter show he also won sweepstakes, beating
lll Clyde stallions. Bravo is a tightly buitt, thick, wide and weighty horse, exceedingly smooth in finish above, and with abundance of bone to carry him. He was sired by Will 'o Wisp ( $65 \overline{7}$ ), his dam heing Boadicea (3019), second dam Welcome, by Truth (1132). The shire mare, Sapphire (79, ©. S.
S. B.), the last to be mentioned, but julging by her winnings not the least in point of excellence, this

 hrod mare at Toronto, also silver medal, her foal
hy her side also winning tirst, and in 1 s.al she woon

 right lines. The Ontario Veterinary college will open it: This well-known institution has won for itself the
name of being the leading medium for oltaining


Banish the "Freak" and the "Fakir" It is not an agreeable duty to criticise the mangement of some of our larger exhibitions, for we contribute their time and abilities to promote these annual gatherings of the people. At the same time, when they drift in a wrong direction, it is none the less a duty to frankly and fairly point it out. It is evident that the idea is now dominant tha these exhibitions are for amusement, rather than for instruction and material progress, an here with the thinking farmer of Canada, we but voice a growing sentiment of alarm at the way in which the side show, circus and horse race element has been pushed into prominence. The history of these things and their associations demonstrate that their inevitable tendency is demoralizing, especially to the youth. The alienation of the better class of the community from exhibitions run
their decadence go hand in hand
their decaxence go hade that the people, espcially
The excuse is made those of the city, must have diversion. To a certain extent the same might be said of the taste for sensational American Sunday newspapers, filled with scandal and crime, the taste for which was very largely created by avaricious publishers them-
selves. That there was ever any real necessity for selves. That there was ever any real necessity for such desperate efforts in providing so-called "attrac tions" for the fairs we are quite satisfied is a
mistaken notion. The best British exhibitionstheir name is legion-do not resort to any such questionable adjuncts, and if they did it would be no excuse for us. In proportion to the increasing sway of the jockey and the circus idea in fair management, so will the really meritorious features suffer and a positive injury be inflicted upon exhibitors, while in the end the exhibitions themselves will suffer financially, as well as in the
directions' we have already indicated. In the directions we have already indicated. In the will repeat itself in Canada. It is no indication of successful fair that the palatial "grand stand" be thronged, while a mere handful witnesses the products of Canadian farms, art and manufacturing skill. Better economise on the "freaks" and "fakes," and deal more generously in the prize
list and on the grounds with lona fide exhibitors list and on the grounds with bona fide exhibitors.
Was it any wonder, for example, that representatives of practically all the implement men in Canada held an indignation meeting at the late Western Fair to protest against the shameful way in which they have been shunted into a back corner while mountebanks, snake charmers and scantily clad females flaunted themselyes on the most
prominent area of the whole grounds? Decent prominent area of the whole grounds: Decent
people could scarcely hear, see or move for the conpeople could scarcely hear, see or move for the con-
glommeration of side shows. The agricultural implement men had just cause for complaint, and before another year their grievance will no doubt ee reansible for this condition of things we do not believe, and we feel confident that these obnoxious features, and others which we have pointed out as detrimental to the true interests of exhibitors senerally, will be relegated to their proper place. By the adoption of systematic and business-
like methods in conducting the fairs, the FARMER's $^{2}$ ADVOCATE is free to congratulate those in control upon the decided improvements effected of late
uears and before another show season we hope to years, and before another show season we hope to
be able to observe in progress other reforms that be able to observe in
are equally necessary.

Canadian Cattle Restrictions.
Sir Charles Tupper, K. C. M. G.. while recently in Winnipeg, was interviewed by a representative ing of Canadian cattle. He very kindly gave the mportant facts regarding this matter, with which nd which are of such vital importance to the catte trade and the Dominion,
The order was made on the Government experts, and although no pleuro-
 way contagions. occurred in one or two instances.
The (iovernment., however, felt bound to act on






Agricultural Depression in Great Britain. An English writer on this subject explains what classes are most affected by the present agriculhis own estate by way of explanation. He purchased his estate several years ago, previous to which the land had been untenanted for four years, but the pasturage or summer feed had been anually sold at $£ 400$ per annum. Since he purchased employed six or eight men, but he finds that the transaction has been a losing one. He has expended \&1,200 in permanent improvements since it came into his possession, and yet in three years out of five he has been unable to make $£ 200$ per year, while in the other two a very little over this amount was cleared. On the other hand he claims if all were seeded down to grass the annual sale of pasturage would easily net him $£ 350$ per annum ; and besides hilizers and employ a man to keep up hedres ther repairs so that there would be no shrink in value.
Now, the point he wishes to bring out is, that the landlords of England are not the people that suffer most from the present depression, but rather radually these classes are seeking employment in , towns or leaving the country on account of the fall concerned. He further points out that the abolished corn laws had indirectly given an impetus o manufacturers by lessening the cost of living or employees, and thus providing cheaper labor by which manufacturers could successfully compete in the markets of the world. While on the other hand, not only had agriculturists received less for heir products, but landed propietors and tenant armers had burdens shifted unto their shoulders, yy taxing improvements and other unfair means of creased until there was a danger of having agriculture, one
nined.

Feeding Wheat.
The protracted drouth which has prevailed in sections of the country has caused a brisk demand
for feeding stuffs, bran ranging almost, as high as wheat. Surely little of this product will be used, except to extend concentrated grain feeds. Every one must know that the value of wheat for feeding, when fed wisely, must be very much superior to bran. It is true that bran is a very safe supplement, but a limited amount is all that is wise to eed while wheat is so cheap.
According to $D$.
According to D. T. Thomas, Ind., who kept an ccurate account of wheat fed and gain made by pounds of gain can bemade from a bushel of wheat fed dry and unground, which would have shown a much more rapid increase had the feed been ground, as no doubt a considerable quantity escaped masti-
cation, passing through the entire alimentary canal in the whole state.
According to experiments conducted by Prof. Robertson at the Dominion Experimental Farm, the conclusions arrived at were that fifteen pounds
of gain can be made from a bushel of common wheat, and that wheat has a feeding value about ten per cent. in excess of corn. However, it is not wise to feed wheat alone. Corn, peas and oat supplements will make a much more nearly balanced ration. Wheat is rich in mineral matter, and con tains more nitrogen than other grain, making it especially valuable for growing stock.
good results when fed to dairy cows.
Says Professor Henry :-A good dairy cow will give something like a pound of butter per day, and give something of weation and ood feed of that train,
eight pounds busel should last a week and furnish
so that a bushel she so that a bushel should last a week and furnish
the concentrated feed for making something like
seven pounds of butter. In this way this cheap
 profitable product: not only that, but practically
all the fertility which was taken from the soil by
. all the fertility which was taken from the soil by
the wheat will be left on the farm, which is a matter of great importance.
Patrons of Industry Handling Wheat. The Patrons of Industry have decided to handle
grain in earnest this year. Grand President Charles Braith waite has been elected a member of the WinBraith waite has been elected a member of he offices
nipeg Grain Exchange, and having securend in their building, is now prepared to handle the
grain consigned to him by members of the society.
 last winter at Fort Wiilian looking into the wheat
trade will te of great service to thoe who avail
thenselves of this privilege. We wish theme every

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Everyone interested in la iry inys howld not only,

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Mr. T. D. Hodgens' Auction Sale. would call the attention of our of this issue we
to the most extensive to the most extensive sale of fine, light horses eve
offered in the Dominion of Canada. We feel per
fectly fectly safe in making the above announcement. As
the following will show, this is not a weeding-out the following will show, this is not a weeding-out
sale. In two of the breeding departments it is the santire stud of thoroughtred race horses - nineteen
in number-all of the choicest strains. The sire, Cortez, was a great race horse : his sire, King AM
fonso, sired the great Foxhall that went to Eng-
land and France and beat the best produced that great beat the best. Cortez' dam winner at all distances. Eight are brood mares
nearly all of which were winners and the damus winners. The youngsters are also verye promising.
The Shropshire sheepoffered comprise the whol of the flock: all, except lambs, are imported and The trotting stock is also composed of choice . dividuals; the brood mares are bred to the bhest
stallions, and the young stock, we predict, will stallions, and the young stock, we predic. will
hereafter win many prizes. They include such ani-
mals as Silver Star, 216 : Noter I., trial, $2 ; 3$ : Mals as Silver
Gloster $\mathbf{H}, 2.20$; too numerous to mention. In this department alsin
Mr. Hodgens informs us that there are no culls. All two-year-olds and up to 5 years that are on the farm are in the catalogue, together with a number
of fine carriage horses and saddlers ; also some $1:$ to 14 high-bred, young, western-range mares and geldings, and a number of useful animals, the pro
perty of different owners. The thoroughtre aleveland Coach horse is also a strong, useful ance, as the best breeding stock are the only ones
that will pay. Good ones pay if judiciously bred Send tor a catalogue and bring it with you to the sale
Farm Machinery at the Toronto Industrial. With all the vast array and increased variety
of implements, there did not appear to be many novelties worth chronicling this year. Many
improvements doubtless have been added, hut to a improvements doubtless have been added, but to a
certain extent these were mostly of a trivial character, and not in any degree necessary, althoug
there were some very notable exceptions. Manual labor on the farm has become so difficult to obtain,
that if it were not for the numberless appliances that have been placed in the market to lessen and The its prace our crops would never be harvested
Ter for tilling the land have mad very discernible advances of recent years.
As usual, John Abell was out with a promising
display of tread-powers, display of tread-powers, one two and three-horst
grain separators to suit all kinds of power and all
kinds of grain, also clover huller kinds of grain, also clover hullers and grain crusin
ers. The latter will grind any kind of grain, corn
Hin ers.
in the ear, or both together if required. He builds
different sizes to suit the operator. He also had a tine selection of farm engines, both traction and plain
The firm of B. Bell $\&$ Son, St. George, had for ward a fine exhibit, consisting of plows, cultivators,
horse hoes and land rollers, while in ensilage and horse hoes and land rollers, while in erisilage and
stratw eutters, tread-powers and root cutters, they have an excellent choice and embrace features
quite abreast of the times. The durability of their goods is well known.
(oulthard \& Scott, of Oshawa, also exhibitem good selection of implements for tilling the ground god seed sowing. Their stock of cultivators, drills,
and
etc. is very conpiete. Wilkinson Plow Works, of Toront
good line of sulky and walking plows. Cock hut, Brant ford, had a good line of plows,
harrows and scrapers. Their riding plows and new harrows and scrapers
style yang were worth examining.
T. T. Coleman, Seaforth. Ont., had a capital ex hibit, in which his Dale pisoted land roller take
the lead, which also it does when at actual work the lead, which also in perfectly addating itself to
Its advantages lie in
the unevenness of the ground, while the frames heing separate there is nothing to bind. It is easily
oiled, and is calculated to stand for years, which This firm also has some good things in root cutter and pulpers. A device is attached to these where
by all chance of the root clogkng is prewentel
ciain cruchers and two-furrowed gang plows are Grain crushers and two-furrowed gang plows ar
also manufactured by them. Copp Bros, Hamilton, had a good semection of Their champion spring tooth cultivato has som
good features to recommend it, an alli, han thein reversibledisk harrow
The Witson Namufacturing Company, of Ay
Ont.. showed no lews than twent -






struction and manner of Cropk ing are novel to the
najority of sightseers. Wie understand that about fifty of these machines were brought into Ontario and sold the past sason and it is claimed
that they will be built in Ontario for next season's trade.
David Maxwell \& son, St, Marys, Ont., had in
position most attractive exhibit, their implements drawing more than the usual amount of attention. They had four different sorts of root pulpers and desired. They also exhibit sulky plows, while in haresting machinery they have binders and Thowers. Their six-foot-cut mower is most sub-
tantialy built, and certainly has many good points, nd their new hav rake, with steel angle bar axle quite a figure with every purchaser who takes
durability intoconsideration. In plowe, Grout, of Grimshy, had forward his tandard pattern in riding plows, which certainly reas reliable as any: his whole exhibit was quite
breast of the times. J. Fleury's soms. worthe exbihit. Their ensilage cutters with swingmens implements they showed a full line, while in mows hey had agood selection. Their double and homers use that had some capital for general worth examining. Sylvester Bros., Lindsay, had a full exhibit. They also had grain crushers and root pulpers and cutters. In seeding implements their press drill
seemed to be effective as did also a clothes reel, which has several advantages.
Noxon Bros., Ingersoll, had forward a full line
harvesting machinery. Their Number Seven ffective and highly spoken of, while their Hoosier sed drill has gained a reputation for itself all over we Province, and their spring tooth cultivator,
with and without seeding attachment, all received e of attention.
which he (of Oshawa) hay pitching machines otice of, and most deservedly, as he has made a
ife study of hay forks siling , well at and pulleys. His is arranged so that stopblocks may be placed at any point along the track, nd a oomed fork will pass through if desired; all s double-acting and self-reversing, and is therefore ways ready without a moments notice or the ing pulleys to the peak of the barn without climbing is a feature that is worth looking into. ensilage and straw cutters, horse-powers and grain Tolton bros., of Guelph, had forward a most useful line of implements. Their pea harvester has lessened the cost of harvesting peas wonder fully, and has made it practicable $t 0$ grow this
rop on a large scale. Two of these harvesters were motion, and showed their adaptability for pick ng up every straw in a flat-lying crop of peas
Inother was fitted for cutting alsike coover, and looked as though it would do eybally gool exe-
cution. They also showed a geod line of plows and harrows as well as root-cutters and pulpers. hat a varied exhibit. Their standard line embrace thater harrows and other implements for tilling machiness are well known to be effective. their ensilage and straw cuter, grain crushers, and a capital horse-power, white in their gang wheese
prees and full line of dairy supplies their exhibit was a specially noticeable one. line of seeders, disk harrow was out with his special M. T. Buchanan, Ingersoll, oxhibited his hayfection in its working. No farmer can do with Frost d Wood had a wery full exhibit. Their single Apron binder, improved Buckeye mower
light reapers, rakes and plows are all st rongly built
 silage cuters has special features, which were horse how and cultivators ing good varioty, shgether
with riding and walking phows of patterns that
 thing werseen in the annals of akricultural ma-

 $-3$

Report of the Poultry Exhibit at Toronto. In visiting the poultry building one is struck by the grandness of the display, not an empty coop being found, and on interviewing the judges, Messrs. Butterfield, Jarvis and smith, they in formed us it was the finest exhibition of poultry ever held in Canada, both as regards quantity and
quality. The poultry industry is getting to be quite an item at our various Canadian exhibitions and from the way the building is crowded it shows the interest the farming community take in the exhibits. When properly managed there is nothing more remunerative than poultry, and as a rule the farming community are beginning to find it out. Below will be found the number of birds in each class

## Cochin. ${ }^{1} 1$ II Ia ". W

Langshan
Dorking.
Houdins
La Fleche
Cose
wyandotte, Black
White
Silver Laced
Golden Laced
Plymouth Rock'
$\underset{\substack{\text { Dominique } \\ \text { Black Red Gain }}}{ }$
Brown Red
Puck Wing
Pyle

Hamburg. Black,

Yen Pencilled den Spanciled

Red Cap
Jatas,
Leghorns, White
Rose Comb, Brown
Rose
Mlack"
$\substack{\text { Buft } \\ \text { Spanis }}$
Sal

 Golden
Boft Laced
Ber rariety.
There were 107 entries of bantams, and abous same number of birds of 1893 as in the old class. Bronze Turkeys
Any other variety
Gicese. Brenen or


## Aylestury Plekibuya Cysuga

Turkeys, geese and ducks of 1893,68 entries Neil, McCormick, Saunders, Scott, Sage London, Ont.; James. St., Thomas; Rice, Whithy : Smith,
of Fairfield Plains; Brown, Barber \& Co., Bonnick: Towns, Toronto: Wagner, Mimico; Donovan tries of pigeons and $3<$ of rabbits. The turkeys of
Messre. Main, Bell and Hodson were very fine Messrs. Main, Bell and Hodson were very fine
Bogue, of London, and Colson, of Guelph, showed some very fine Pekin ducks as I heard one man
remark, they were like geese. The show on the

Pitting Turnips.
A Subscriber asks: "How shall I pit my tur Turnips are the easiest roots to keep in pits; gathered in fine weather and carefully covered,
they should come out any time through the winter they should come out
the better for storing.
It is better not to place them too thick. Long pits, If with straw, and about 6 inches of earth. Place (i-inch square ventilators every 10 feet, formed of (iamis-inch fence boards. Cut, one pair of the four hombls inches longer than the other two which
will alow a crirculation of air after a cap is nailed On the top. It is well to select a sheltered sitna-
ion, where the smow is not so at to be blown off
the pits A fine mould is best for coverine an chay that cakes in digging is apt to leave too many air
spaces where wet and frost maty enter. Mangolds An Error Corrected.
Mr. S. C. Johnoms: threc-year-old (Iydestale stallion Balgownie with second prize homor. We find
this was a mistate and it was Mr. J. Davidson's West field stamp that carried this homor. whith Ral
gownie won third, is the official prize list in this



## Ottawa Central Fair.

This exhibition opened on the 22nd of September, under very unfavorable auspices. The whole
week, with the exception of one or two days, was very wet and disagreeable; indeed the weather or several months previous had been so excessively work, and thus did not patronize it as they have in the past years. The Montreal show coming off at an earlier date than usual had a tendency to lessen
the number of exhibitors, as many of the western men would not bring their stock so far east for one xhibition. Still, in spite of all drawbacks, the
citizens turned out well, and helped the manage ment to even up, so that they could show a clear balance sheet. The Experimental Farm made a splendid exhibit, which included a working diairy,
where the seeker after dairy knowledge could the whole milk taken in, tested with the Babcock test, run through the separator, and the cream
made into butter in the most approved manner. made into butter in the most approved manner. play of the most promising varieties of grains, vegetables, grapes and other fruits, and samples of
the different liquids used as fungicides and insectithe different liquids used as fungicides and insecti-
cides, with the formule for their preparation. The cides, with the formulx for their preparation. The Locked Wire Fence and the Page Wire Fence Companies both had specimens of their fences amount of inspection from the farmers. Another
centre of attraction for the farmers was the tarcentre of attraction for the farmers was the tar-
paulins, horse and binder covers, stack covers and paulins, horse and binder covers, stack covers and
waterproof clothing of ever description, made by Mr. J. Tobin, Ottawa. He exhibited a tarpaulin made tank-fashion, into which about thirty gallons
of water was poured at the beginning of the fair, and of water was pourld at the heginning of the fair, and
was held perfectly through the whole ten days of
the was held perfectly through the whole ten days o
the exhibition. Mr. Tobin did a rushing business,
and found it almost impossible to keep ui and found it almost impossible to keep up with the
demand for his horse covers. A very pleasing demand for his horse covers. A very pleasing
feature of the grand parade, and one not seen a any of the other exhibitions, was the handsomel
decked four-horse wagons which headed the procession. Upon the first one was arranged specimen vegetables, the product of the Ottawa Experimenta Farm. The three following wagons displayed the different brands of flour and feed manufactured by There was a regretable falling
clas ses of live stock, as was shown by the long rows of empty stalls.

$$
\begin{gathered}
\text { Horses. department } \\
\text { average as regards the wuan }
\end{gathered}
$$

average as regards the was rather below the Claremont, had twelve desired. Grahame Bros., of hibition, and won all the best prizes. They also
showed a pair of Hackno known stallion Seagnll, which won first money W. Allen, Hull, P. Q., showed a number of Clydes-
dales. W. H. Craig, V. S., Cornwall, Ont. some good thoroughbreds, French coach and car riage horses, while G. Sparks brought out h his clydes
and French coach horses. W. W. Kerby, W. Hame Ottawa, and Jas. Collander, North Gore, were th cattle.
The absence of a number of western breeders
coupled with the fact that this is essentially section, accounted for the weakness of this show in the mark, with herds from such well-known breed ers as Jas. Drummond, Petite Cote, D. McLachlan,
Petite Cote, Jas. Johnston, Montreal. John New man and others from Quebec, while R. Reid \& $C 0$ Carleton Place, W. M. dJ.J. C. Smith, Fairfield Plains, represented Ontario. Both old and young
herd prizes, as well as the special gold medal, were won by Jas. Drummond, Pectial gold medal, were
wate, D. Mc ston the bronze the silver medal, and Jas. John year bull, and D. Mc Lachlan first on two-year
old bull. The prizes for srade cattle for the poses were principally taken by R. Reid \& (o, with their splendid herd of A yrshire grades.
(iuernsers- In this class J. N. (ireenchiclds and
 shields securing the herd prize and the majority of
the red tickets. Jerseys - W. A. Reburn, St. Anne's, showed the
herd which had been so sucessffu in winning prizes at the larger exhibitions, while. IV Erratt
Geo. Fowler and S . B. \& B. Slim, all , Ottawa showed a few specimens each.
Holsteins -In this class Mc|
Holsteins - In this class Mc-buriwed Butters won
herd prize, and the most of the firsts. with that was so sucerssful at Toronto, and London,
Jos. Fle teher, Oxford Mills. seenred first and second on two-yearold heifer, and second on the Durhams were chiefly represemten the herds
of Jat Crear, Shakespare, Ont.. W). Brms. Athle



Herefords-F. A. Fleming was the only ex
hibitor of white faces, of which he showed a number of good ones
Aberdeen-Angus-W. A. R. Stewart Lucasvill had it all his own way with his herd of Doddies,
while Messrs. McNish secured second on-a yoarli while Messrs. McNish

The following were the chief exhibitors:-
Coxworth, Claremont, in Cotswolds Coxworth, Claremont, in Cotswolds the prizes. D. Pringle, Huntington, Que. and Pringle, Athlestan, Que., both show, good flocks.
J. Forth, Glen Buell, also showed a ferv J. Forth, Glen Buell, also showed a fe
N. Greenshields, Danville, Que., winning the be, J N. Greenshields, Danvile, Que., winning the bulk
of the prizes, while D. Brims secured the flock
prize and several others. In Ond several others
In Oxford Downs, the well-known western
breeder, Henry Arkell, from Arkell, Ont breeder, Henry Arkell, from Arkell, Ont., showed
an excellent flock. A. Gilmore \& Co., Huntington,
Que, receive Que., received one first and two seconds.
R. Shaw \& Sons exhibited Southdowns and
Merinoes. W. M. \& J. (. Smith also showed Merinoes.

The show in this department was small. The principal exhibitors were:-S. Coxworth, ClareQue,, Yorkshires; Jos. Featherstone, Streetsville, Suffolks. Chest
Ottawa.
W W. Allen, Hull, and the Messrs. McNish, Lyn exhibited a few Yorkshires, while the Messr
Smith, Fairfield Plains, showed Poland-Chinas.

Fencing as Seen at the Fairs.
Fencing is one of the most costly departments to keep up on the farm, and anything new in thi line that will tend to curtail expenses is sure to In wire fences, the Locked Wire
Ingersoll, had a sample of their fence ate leading fall fairs. They have only been established in Canada some eight months, yet they have now agents in almost every county, who have built san ples and are qualified to sell farm rights or build the fence as parties may require. This fence ha many advantages. It is cheaply constructed, form while in point of durability it stands the top the list The fon for having a slight crimp made in it and a hent clam placed over the crimp, forms a space for clamp which runs from wire to wire, thus securely join ing the whole of the wires, forming a truss that makes the fence perfectly rigid and strong
M. T. Buchanan, Ingersoll, also showed a fence on something the same principle, except that
wide band with a slot and a crimp in the wire forms a place to run the wire stay. described in our Sept. 1st issue. This fence is built in the shop, and has many friends. It is luickly put up, and if done right forms a strong A new (to us) design in wire fencing is the Truss Wire Co., Toronto, Ont. This is forme \& Bar separate cables which are made of two wire wisted together, and in which a square mesh strong and visible fence, and if it can he placed cheaply on the market, would attract much attention. It is made by a machine in the shop.
In movable fences there were two exhi Toronto that are particularly handyo exhibits a Thisconsisted of the Harris fence, which is built of inch lumber, except an upright which has a foot to
keep the fence from blowing down keeps the hurdles in place. This fence is quickly removed, and may be opened at any point. In the March issue of the ADVOcAte this fence was illusAnother fence which was mish
Was the Duncan Fence, also movable. Thus fence Was built with hardwood, the bars being $2 \times 2$, with a movable end formed like an A. There was :
larbed wire on the top of each hurdle. This fence

## Crowded Out.

The crowded condition of our columns this iss.ue merents us publishing a full report of the sheep Exposition, Chicuges at the Worlds Columbian Canalians were very successful: many of the winada. In the-wine departments the judging is going On at the time of writing. We learn that Wr: ful in the Bisur crase. The show of shery success $4=0$


New Appointments at the Ontario Agricul $=$ tural College.
to fill vacancies at the Ontario Agricultural College and, after careful inquiry, we have no hesitation in wisdom of his selections. The following gentleme have been added to the staff of the College:-
E. Day, B. S Lecturer on Agriculture ; H. L. Hutt, B. S. A. Southend (Welland), Lecturer on Horticulture: J B. Reynolds, B. A., Oshawa, Assistant Resident
Master.

Some important, and we think wise, changes have been made in the department of Agriculture superintendence of the farm have been all under one man, who has spent the greater part of the time in
his office, or in the College class-rooms; but henceforth the work and responsibility shall be divided: Zavitz, B. S. A., will take charge of the experiZavitz, B. S. A., will take charge of the experi-
mental work, and Mr. Remnie will devote his
undivided personal attention to the mamarement undivided personal attention to the management
of the farmand live stock, and the instruction of of the farmand live stock, and the instruction of
the students when at work in the farm depart

The appointment of $W \mathrm{~mm}$. Remnie to the position the farm department. Mr. Rennie was born of brought up on a good farm in scarboro, east of
Toronto. For a number of years he was known as one of the tidiest and most successful farmers in Toronto, and finally became a somewhat extensive dealer in Clydesdale horses He carried on the farm,
the seed store and the horse business all together, the seed store and the horse business all together,
and with marked success. Mr. Rennie is a genial, modest gentleman. He has been very successful in everything he has yet undertaken, and if he fails
at Guelph it will be ihe first time in his life. He says the College farnis in a very different condisuch a flourish of trumpets in some of the daily papers. On arriving at Gueph he found the farm generally on the farm it such a shape, that he in-
sisted on the executive committee of the board making a thorough inspection before he entered on his duties, and he has since asked several farmer:
who have been misled by the statements in the papers to go to the farm and see for themselves.
Already the students are beginning to express Mr. Rennie. They begin to see the difference inder tween office management and the close, personal
superivsion of a sharp, competent man, who is superivsion of a sharp, competent man, who is
always moving about amongst both men and students at work.
Cears of age. He worked on a farm in the neighborhood of Guelph till he was twenty. He then
went to a Collegiate Institute and took a secondwent a a coneglate mstitute and took a second-
class certificate, upon which he tanght public
school for a time. Afterwards he went through school for a time. Afterwards he went through
the full course of the agricultural college, and
received the degree of B a of Toronto. During the past summer he has been lecturing very acceptably in connection with one
of the travelling dairies in Lambton, Huron and Bruce. The farmers in the county of Bruce speak
in strong terms of Mr. Day's practical knowledge and ability as a speaker
Mr. H. L. Hutt is also
ven yeurs of yo young man alout $t$ went $y$ even years of age. He was brought up on a fruit
arm in the Niagara district. He entered the Acricultural College in 1888 , and after the completion
of the course received the degree of $B$. S . A. from he University of Toronto in 1891 . He took the taken by any student in the College. After gradu-
ation he went to work on his own farm, but during he past summer he has been employed at special niversity, in visiting the leading nurseries and
large gardens in the neighborhood of Rochester.








 Arave then ind indmy


## STOCK.

Air Space in Cattle Barns
The number of cubic feet of air required pe about by those contemplating building stables fo is paid so littles attention to, that many losses a attention to this essential. Within a few miles o this city a cattle barn with stone basement wa
built, the proprictor thinking that he had suc attle that would last comfortable quarters for hi the first three years he lost a large percentage of his fatting cattle, he was thoroughly nonplage of
and seriously thought of abandoning the new and serionsly thought of abandoning the new
stables. However, he called in an expert, who quickly told him the seato of the difficulty, and con
demned stables wherelittle properly provided for. In this case it was remedied sills, which had the desired effect, as there has been no recurrence of the trouble since. A write
in the Surveyor gives his idea of how much trouble may arise for want of care in this matter, take
from an Old Country standpoint. By farthe mos fatal disease that affected dairy stock, he says, is
tuberculosis, and he guotes statistics to illustrate the fact that a supply of pure air had a very direct effect in diminishing the amount of sickness among stock, and in reducing the death rate even from
diseases that were not supposed to be specially as diseases that were not supposed to be specially as
sociated with the condition of the atmosphere Recent investigation had shown that tuberculosi prevailed in cows to an extent that would be held
incredible if proof were not so undeniably absolute incredible if proof were not so undeniably absolute
Statistics showed that from 20 to 25 per cent. of out cattle were more or less tuberculous ; but the death rate from the disease was small as compared with
the number of animals suffering from it-the aver the number of anmats suffering fromit-the aver the west of Scotland being, he estimated, 5 pe
cent. The loss to the owner, however, amounted t more / Of the remaining 15) per cent. diseased, th most part were, perhaps, sold to the butchers a
low and unremunerative prices while the disease was in its incipient stages. Among those in the
hyre there was also a further loss incurred from hyre there was also a furthe loss incurred from
diminished ,uantity of milk yielded by the cow dhring her illness. He was disposed to consider that the annual loss caused directly and indirectly
in the dairy farms of the west of Scotland by tuber in the dairy farms of the west of scotland by tuber
cular disease could not be estimated at less than 7 per cent. of the total value. In round numbers of dairy stock in Scotland of nearly $£ 410,000$. In the county of Wigtown alone the loss amounted to
$\{: 22,000$. In $A$ yrshire there were 50,000 cows, the loss amounting to $£ 49,000$ per annum. In othe words, extirpate tuberculosis from, Ayrshire, and
the farmers could pay annually \& $49,0,010$ more rent There was another matter which must not be over
looked. It could not le doubted that the presence of this disease in our milking herds constituted tion was the primary condition of a pure atmos phere in a byre; but that could not be made
effective without a sufficient cubic space. The actual amount of cubic air space required per cow
had been variously estimated. The Board of Super vision recommended $1,(014$ cubic feet, while the Loca Government Board recommended a minimum of 80
cubic feet. The lecturer was disposed to think that the space of sol cubic feet, adopted in Glassow on
the recommendation of Dr. Russell, was what ought to he aimed at in all the south-western counties of
Chatty Stock Letter from the States
The choicest native beeves sold at $\$ 5.90$ : to
hogs sold at $\$ 7$ : fancy sheep sold at $\$ 5$ hut sheep have been selling under $\$ 4$, with holders crazy to unloud. The drought has been broken through demand for stork and feeding cattle has sprung up
wonderfully. Ifisillery cattle feeders are a harvest among the western range cattle at $\$ 2.6$ some that had been hay-fed during the winter sold
at \&5.10. The practice of hay-feeding in winter is growing one in the far west.
Pregnant sows, within a period of two weeks o either side of farrowing time, are now condemne
by the states Government. The packers seem glad to cooperate. "heef", cattle the first nine months of the present year averaged fully fifty cents per
handredpounds higher than the same period lat
vear. The top price yesterday was so. F , being within (ifle. of the highest price of the year,
Recepists of cattleat the four principal western
markete last month were s., unn larger than in

 For an all-wond hog the Berkshire seems to
holdhemon ingreat hathe. righ of way at the great Exposition.
Tho Shorthom have bately been taking first
hone in the greatest live stock markets in the
world. So far this season they have taken top
prices, with Angus beeves next hest. It must be admitted that the open market is a pretty good test. The big heary hogs are beginning to sell more
eadily than the light weights. For so long the small pigs have been at a premium that raisers of nature heavy porkers have folt discouraged.
It must be very gratifying to Canadians, cially those of Ontario, to see how gallantly their shepherds defended the fair fame of the Dominion It the reception of Canadian sheep men at the Canadian headquarters, Lieutenant-Governor Kirkpatrick, of Ontario, on being called on for a peech, believed that in the sheep exhibit Canada
had takenf first prizes, against 24 for the United
States; 45 seconds. argainst $\rightarrow 1$ for the States; thirds, against 21 for the states; and 30 fourths, 42. There was still another class to hear from, Which might increase (anada's total. The number
of shee of sheep shown by Canada was 270 , as against 300
by the United States. Entrifs for the swine and sheep, exhibits at the Exposition were as follows: Swine Illinois, 214 ;
Indiana, $132 ;$ Iowa, $91:$ Kansas, 23; Kentuck y, 8 Michigan, 8; ; Minnesota, 1: Missouri, , 139; Nebras-
ka, 198; New York. 13t: Ohio , O Pennsylvania, 53, Wisconsin, 15: total. 1.418. Sheep-Illinois, $10 ;$ Indiana, 73, Kansas, $52 ;$ Ken-
tucky, 19: Michigan, $116 ;$ Minnesota, 17; Missouri, Ohio, 86 ; Ontario, 331 ; Pennsylvania, 81 ; Russia, 24 : Vermont, 91 ; Wisconsin, 75 . The display as a whole was pronounced to be
one of great excellence, but the best things came from Canada or England.
Horses are selling somewhat more readily, but whe approach of winter forces in many at prices
which owners were unwilling to take as long as keep was at a minimum.
، Holsteins as General Purpose Animals. Read by T. W. Chartion before the Annual Meeting of the I think it is great presumption on my part in attempting to give anything either inferesting or
profitable on this subject to those who have been long and successful breeders of Holsteins. Buen as there are a good many people who are not familiar with the characteristics or merits of this breed, a Mrief sketch of their origin and home may be helpful,
especially to those who may be searching for the most profitable kind of cattle; and among all the arious breeds known at present, there is none enments of a general purpose animal as the Holstein
Friesian, being the product of the most favorable natural conditions. Then the fartile origin, as far as can be traced, land, noted for their fertility from a very early period, every condition of soil and climate calcuA ted to develop a large and hardy breed of cattle. were the pioneers in dairy husbandry, and that
heir produets in amount and quality have never heir produets in amount and quality have never
been equalled by any other people on the same rea, we see the reason of their zeal and effort to
perfect a breed of cattle suited to their special inustry. To them the typical dairy cow has been To develop in the
ies that should add to their value for this particuhar purpose has been their study, not for one, but
many centuries. Thus strength of many centuries. Thus strength of heredity
has been açuired an intensified throughsuccessive Thebreed characterist ics have become so firmly esed to theiroffspring inaremarkabledegree. Some of hese characteristics are:- Color (with the exception of the Aaggie fanily, the color is almost invariably rapid growth, vigor, early development, shape. large size, heavy weighing either alive or slaughered, and gentle disposition; these qualities place
them in the front rank as producers of veal and heef, and unequalled producers of milk for cheese in our beef markets is not what its actual merits that the breed is wanting in beef quality. there is no doubt that prejudice has contributed largere in in
this matter. Prejudice is very likely to be the It is the lack of a knowledge of the facts that very often leads to wrong impressions and to false
conclusions. There has been such a demand for bure-bred Holsteins for breeding purposes that heef markets hardly conough for dealers to grade them in value properly, yet without knowing how or
why dealers class them unsatisfactory for the For dairy purposes the Holstein-Friesian cow
is preminently atove all others in turning the and
 Barmers of Camadat own account of the "MoKinley other plagues, for the Canadian breeders of Hol ste en-Freisians to maintain and improve the dairy
qualities of the noble black-and-whites?

## Our Scottish Letter

September is usually a busy month with Scottish farmers, but this season has been an exception to the general rule. Harvest had in most cases been finished by the middle of the month, or even earlier, and the farmers had more leisure to attend to the other interests which concerned them. Sales all the breeds of sheep-Black-faced Che, rams of der Leicester and Shropshire-and Clydesdale and Hackney horses, have been numerous, and prices at ail of them have been well sustained. Before referring to these at length, a word must be said on farming prospects in general. The abnormal character of 1893 as an agricultural year has been frequently referred to, and possibly nothing connected with it is more striking than the different stories which would be of England, and those in the west and south England. A dry season like 1893 fits the northern part of the island to a nicety, but this year at least part of the kingdom. There, there is neither gras nor fodder, and many of the farmers who in recent earnestly wishing they ware back again north are the Tweed. The tables are turned, and the north is the land of Goshen, while the south is like the region round about Gaza-desert. Our crops have the stack yard which is desirable from the foddering point of view; and now that foreign countries send us such supplies of grain, this is of greater im-
portance than it once was. The hay crop in general portance than it once was. The hay crop in genera
was an average, and in some localities it was more than an average. Those who have good supplies of it will do well, although prices - thanks to toreign
friends-are less buoyant than was to be anticipated from the scarcity in the south. It is selling at pre sent at from $£ 6$ to $£ 8$ per ton. Oats are a good
crop, and the quality of the grain is excellent. Birley, curious crop of the year, but this is altered now, and while many continue to grow it, less attention is paid to send such quantities of it to us from the Northwes vicinity of large towns, where there is a good de mand for wheat straw and farmers find it profitable to grow the crop for the sake of the straw
alone. Beans are only grown on what we call carse and-heavy, stiff clay-which requires a grea season has been a very favorable one for them, and the crop is better than an average. The position of the Scottish farmer at the present time is much
more favorable than it was a year ago; at the same time seasons of plenty and scarcity do not affect did, because the amount of foodstuffs which are imported serves to equalize the markets so that price
naintain a wonderful uniformity. Live stock is more and more coming to be regirded as the sheet anchor of agriculture here, and recent sales have
tended to illustrate this in a marked degree. The r.am sa'es are great events, and crowds of breeder: the highest individual price has beentry. paid for far faced rams have made Black faced rams have made such prices as \&s, £ \& in and
£ fo. Shropshire rams are in England commanding
much higher prices - making, indeed, record prices much higher prices - making. indeed, record prices:
but even in Scotland, at Mr. Buttars sale at Corsmut even in Scotliand, at Mr. Buttar's sale at Cors-
ton, $f$ io was paid for one by an English huyer. The
hiyhest price realized for a Cheviot his been the. This breed in not nearly so popular
it it once was. It excels all the northern treeds in a it it once was. It excels all the northern breeds in
quality of wool, but the poor price which this commonty is now making does not warrant farmers in a!though not to be compared to the Cheviot for Wool, surpass them in muttor properties can be
bred to betteradvantage. The Black-faced ewe has
much stronger maternal instincts than the female much stronger maternal. instincts than the female
of any of the other breeds. and hence is very popular for crossing with the Border Leicester ran to LLeicester muth, is not the first quality: the
value of the breed lies in the merit of the ram value of the breed lies in the merit of the ram
for corssing with Blak-faced or Cheviot ewes.
The produce of the forner cross are called
crosi-breds, of the later haff-heds a tacit cross-breds, of the latter halffelreds a tacit
acknowledgment of the distinct eharacter of the Border Leriester and Black-fared breeds,
and the possibe intermingling of the bood of the
other two breeds at an earlier period of their his-






Sheep Breeding in Alberta.
a VISit to mr. f. white s merino ranch, mitford,
Sheep breeding is one of the important indus tries which is yet in its infancy in the Northwest.
It is receiving considerable attention from a few It is receiving considerable attention from a few
breeders throughout Alberta now, but as yet has not aroused anything like the interest the impor trict there industry merits. In the Calgary dis prairie lands which seem especially adapted for pastures, the grasses being those which sheep most delight in and thrive on, and they are not afflicted with the diseases so common in other countries.
On the different farms of the C. A. C. and C. ComOn the different farms of the C. A. C. and C. Com
pany, extending from Gleichen to Swift-Current, pany, extending from Gleichen to Swift-Current,
there are something like forty thousand sheep. Next to them, and the largest individual breeder in these, there are a few ranches breeding on B much smaller scale, but in a country which can support its hundreds of thousands of sheep this may be has given any attention to the industiv, and ha sufficient capital to give him a good start, no better opening can possibly present iteelf. Merino Ranch, the property of Messrs. F. White $\&$ Co., is situated
on the south side of the Bow River, thirty-two miles west of Calgary. It contains thirty-four wausand acres of splendid pasture land, well pond at the back, besides numerous creeks and springs which intersect the ranch, making it an ideal place for sheep farming. Mr. White's first importation was made seven years ago, with
twenty-one hundred Merino sheep from Montana wenty-one hundred Merino sheep from Montana.
Since then, finding the additional price for wool did not make up for the loss in mutton, he has crossed with Shropshires, thus securing a larger finding them better mothers. The band at present numbers 4,300 sheep and 1,700 lambs, and is always kept at much the same size. In the summer the sheep are divided into flocks of from 1,54) to 2 ,(0) each, a shephert and thre or four dogs taking
care of them as they wander over the prairie. At wight they are brought under shelter, and are held by portate corrals of wire netting or hurdles, the erected at intervals. Their pastures ane changed
as often as possible, so as not to allow any distastes or the grass over which they have frectuently
rodden. In winter they are held in four wo are called the home camps, two and a-half miles apart, where all the lambs and weaker sheep are
kept and fed hay two or three times a day, in the fed during very stormy or cold weather. Each of these camps consists of sheds large enough to hold
a,su0 sheep, stable for horses, and cabin for shep-
herds. herds. Until last winter the dry sheep were not
fed, but since then Mr. White recognizes the ad-
lat vantages of feeding all once a day during the very
cold weather. This necessitates the putting up of from 3500 to 400 tons of hay for the winter supply.
but the difference is more than made up by condition in which the flocks come out in the spyning.
The lambing season begins about May 12 h , and Tasts for about five weeks, the crop generally averaging about ninety per cent. Strange to say,
Mr. White informed me they had very few t wins in the band, nor do they care for them, owing to the
difficulty in large bands of keeping the mother and difticulty in large bands of keeping the mother and
lanbs together. The market for mutton is yet purely local, the dealers doing whatever shipping
is done, but as it is the demand is sometimes
greater than the supply greater than the supply. The wethers are sold
off at two years old, and at that age arerage.
dressed, from fifty to sixty ths. At the time of
 into a long shed which is divided intor pers: the
front part, on which the shearing is done being front part, on which the shearing is done heing
floored. Two shearers take up their position in un the theece, some of themb being so expert that
they a yerage aimmed fleeces a day. The wool $i$
not washed, but turned into


 has decelined during the last tive vears Worl
which then sold for sixteen cents hinnging now
only twelve and a-half. Mr. White. how com-
 Intine in

## FARM.

## Plan for Piggery.

In our July 1st issue, we offered $\$ 5.00$ as a prize for the most satisfactory plan for a piggery for the Cowie, Valens. Among the many essays which we have received, none have given what we would consideran ideal piggery, although by taking ideas from different papers we will endeav or to give a few
plans from which farmers can select their choie and make changes to suit their conditions choic aneas. The essayists favor two general styles,
idiz., one having pens on either side of feedviz., one having pens on either side of feed-
ing passage, or on one side only. Another plan ing passage, or on one side only. Another plan
given by 1 . F . Wilson, Brandon, is the octagon or eight-sided figure, which has some good points. The important qualifications of a piggery are a
good, dry location, convenient to the other farm good, dry location, convenient to the other farm
buildings, to be substantially and cheaply built of material of a lasting nature, the building having convenience in feeding and shifting pigs, in cleaning out and saving the manure, also rat-proof and
free from draught. For a building with pens on iee from draught. For a building with pens on
either side of the passage, a very economical width is about twenty-five feet, which allows for a five oot passage, lengthwise, between the pens, and ten
feet deep for the pens, including the partitions eet deep for the pens, including the partitions.
The length must depend on the number of pigs that re kept, which will be decided by the builder. The material used in building will depend somehat on condition. A frame building will answer
very well, but should under all circumstances have a stone or brick foundation which should rise to Wo or three feet above the surface of the ground,
ars Wm. Thompson, Blenheim, so that when wool is used it will be up high and dry. It is nen wood o have a wall that will ensure warmth, also one wat will not become damp or frosty in very cold weather. A very satisfactory wali is made of
airly good lumber, nailed on the outside of studing and batoned; the inside should be covered with rough lumber, then a layer of tar paper,
which should be covered with boards up to where hich should be covered with boards up to where ane pigs can reach. Above that, strips of lathing
answer. well for holding paper in position. As will be seen, this wall has an air space which renders it frost-proof; also is not easily affected by sudden
changes of weather. Recommended by D. Wylie ardinal, to have two thicknesses inch lumber outide, tar paper between, lined inside, and stuffed There is a sreat difference of opini
the best floor to use, some claiming as to which or cement, while others talk up the block pavement. or a plank floor. The superior qualifications claimcleaningulualities, but they are considered hy othery as being too cold in winter, which produces rheumatism and death of young stock. Block
pavements are recommended by very few objected to on the strength of their being disagree able to clean, always damp and foul smelling. The plank surface floor has, however, no fault finders, came mpanner to be the best yet. It is made in the face. In building it, the surface soilmust be remozed until a solid foundation is reached, which should be filled in with small stones or gravel, then a layer of
mortar, then two inches of Portland cement which cedar scantlings are embedded, making plain surface. The planks can be nailed to the croof angs healthy. It has also been recommended not to spike the floor down, but to slide the plank so that they can be easily removed in order to certainly a very important inate the floor, which i to have a gutter running lengthwise of the pen
into which moisture will drain. There are thre sit uations recommended for the gutter, one bein he cleaned out from the feeding alley and so as to
here with a plank which is easily removed. The objec-
tion to this situation would mell in the passage and near the pigs while feed fo. A more fasored place would be at the side Ill the filth will the more readily accumulate and heing fed on refuse from two. When pigs are reamery the foces will beguite liquid. The centre it uation has commendable features, says John
lolborn, Belmont: it should lead through the nntire huilding to a : it shoure shed, where it should the throw on long manure or muck. A slight fall
hould he given to the gutter, which will render it ver easily cleaned with an old broon. The floor Thouldialion incline tothe gutter wherever it is placed. Wh imit of a shovel or fork to be used in cleaning it If the foel-rom and alley requires no plank cover
 ont si, , ati-fot tion. W. Smith. .ontan, recommends manyre allevs
Thinatitu, di iding the vard should have gates
whote

to the shed or field, as the case may be. The gate
need not cost any more than the rest of the part need not cost any more than the rest of the part-
ience.
D. F. Wilson, Brandon, and others, have used and strongly recommend that the opening leading fron
the pen to the yard be supplied with two doors, on fitting moderatelv tight and hung on the side while the other is hung from the top and allowed to swing both ways, so that the pigs can go in and
out during cold weather, always shutting the door after them. This can be hooked up if necessary That the pen should be divided into sleeping ani feeding apartments is strongly advised, as in that
case the bedding can be kept dry and from littering the whole pen.
Except when cement troughs are used they shout ten inches wide at the bottom spiked together the top. Strips of hoop iron should be nailed an the edges, or any whereelse that the pigs are likely to chew. The partition between the feeding passage
and each pen should be about four feet high, and hung at the top so that it can be swung in at th botton pust the trough to facilitate the cleaning
of the trough and pouring in feed. Recommended of the trough and pouring in feed. Recommended
by H. E. Baker and others. This swinging parti-
tition should have stall-ike by H. E. Baker and others. This swinging parti-
tition should have stallike divisions, with
head plank attached, just high enough to athow pigs to get their heads in, and yet
keap their feet from the trough, so that when pie are feeding no crowding or fighting need result. divisions were recommended ly J. H. Pedlar, triangle shape and bolted at the top and botto appears to be the best recommended divider According to recent experiments feeding dry meal
and water separately produces satisfactory results, and water separately produces satisfactory results,
and where this is desired to be practised two troughs will be necessary. The water trough in that case need not be long, and can run along the
side of the pen at right angles to the feeding side of the pen at right angles to the feeding
trough. A swinging partition will answer for a door, through which the pigs can be brought into the passage and changed from one pen to another; or perhaps a handier way, but more expensive,
would be to have the feeding trough and swinging partition say two and a-half feet shorter than the width of each pen, thereby leaving room for an o be placed in that position.
The pens for breeding sows, boars and fattening The sow pens need not be so large as the feeding pens. They should also be situated away from the possibilities of draught from the doors. The
gutters should be very shallow, for the safety of the youngsters. If a continuous gutter is used through the entire length of the pen, John
Holborn claims that the floor of breeding pens Holborn claims that the floor of breeding pens
can be gradually lowered to the gutter instead of raising the gutter up to the floor. When the young pigs are old enough to help themselves at the trough a part of the pen should be divided off, and an entrance made for them to go in and out at
will. W. R. Brown, Dufferin Co., has weaning pen situated next the brood pen, and when not already in use it will answer for the feeding pen before weaning. It is also convenient in this prace,
if it is desired, to wean the pigs by two's and three's as some prefer, as they can be caught and lifted over quickly while the sow is feeding. A low rough will be in ordecin ten or twelve pigs very well, which should be about the outside limit
than either the or pens will do much narrower should be connected with a grass paddock, which can be easily arranged if the pen be placed at one nd of the piggery. It would be ad visable to make for safety. Recommended by W. B. Brown, for saferty.
The feed-room has several locations among the half way across the pen, while others strongly advisethat the whole widthbe whed. The widt hof feed room will depend on the uses to be made of it. but as a good many feeders think they must have furnace more room will be necessary. Again. and it looks reasonable, that the slaughtering and cutting up may just as well be done right here,
which room may be utilized as a work shop during winter months. We have received some good ideas in connection with the killing and dressing
ioom from J. Pedler, Wheeler. For scalding use a rongh seven by two feet, in which the pigs can easily be rolled by means of two chains or ropes in he hands of two men, which also answers for Overhead them out on the plathorngh runs a track on used for the hay fork. When the carcass rel, run it up through the loft floor close by th rack over a roller firmly attached the floor, then lown to a windlass attached to the wall of the hressing room. Now have a roller hook to atch
in to the gambrel with a pulley on the track. The mope can now be removed and the pig run tack fo
Aressing. It will be most convenient to have toller hook for each pig, then no lifting hy hand
large enougher to hold. Where the feed-room
grain, the loft can be used to hold ding, but an up-stairs graanary is convenient when
arranged to convey feed down by spouts with slide As water is an important element in the piggery possible, and where not supplied hy a spring or
windmill, why not have the cistern up in the loft So long as there is any falll from the roof's edge which will do awway with all the pamping. Water Cam be conveyed to every trough if desired, and
with a tap attiched we haive complete waterworks This arrangement may be very useful in case of connected with the pumpsoutside and the inside of building, so that no carry ing of water need be done.
Proper ventilation is important. When a is used to store bedding, the openings used for put-
ing down straw will answer for the ventilat ing down straw will answer for the ventilation. A cupola on the roof is necessary to carry off the
stean, thus keeping the walls dry. Perhaps a better arrangement would be to waid ar passages
which will the pens directly with the cupola,
when a draught that can be opened or which will cause a dramght that catn be opened or
closed at will. tion from the sun in summer and storms in winter. If a piggery is desired to be built having pens
on one side of passage only, the difference in buildon one side of passage only, the difference in build-
ing will be just the width of one row of pens.
There are some advantages, however, in one sided pens, as by it the yardsean can all have a southern
aspect, which is a great advantage in the winter months.
When the two-row pen has only one story, and is desired to face the south, the suncan be admitted and having a row of windows to fill in forming, a sk ylight perpendicularly alove the centre of the building; but in most cases the two-row pen run-
ning north and south gives the best satisfaction as the sum enters every part of the building during some part of the day, and the yards will be on the ast and west sides.
The octagon ha
square octagon has some advantages over the shapes, as it requires much less wall than either for the same amount of space; also allows opportunities formoreroomy yards. The feedwhere also can the cistern or well be placed. The door should be on the north side, so that each yard will get sunshine at some part of the day
For a Manitoba piggerv warmth is an
feature to be sought. The walls as given above should answer very well, but care should be taken to well overlap the tar paper, or even a second layer
might he put on to advantage. The roof, however requires some change from an ordinary Ontario requires some ehange roon. To have it as frost-
sheeting and shingle rof. proof as possible is a desirable quality. A very
grood roof, recommended in an essay from that good roof, recommended in an essay from that
country by Thos. Grayson, Moosomin, is made by couering poplar rafters, which should be quite close together, with hay or straw, on which a layer of
sods three inches thick is placed, then about an sods three inches thick is placed, then about an
inch of fine clay well raked into the cracks. This roof is said to turn any amount of rain, and gives

lustration a.
The accompanying illustration $A$ shows the ground plan of piggery recommended by Thos
Grayson, Manitoba, with one row of pens, or one side of two-row plan. No. 1 shows position of sleep
ing apartment, which may be slightly elevated and ing apartment, which may be slighty y evated and
enclosed by a partition just sufficiently high to hold thebedding; 2, feeding apartment; 3, troughs, which should extend across the entire pen or within th width of a door opening into the passage; ; , gutter
placed beneath the trough and along the feeding passage (other positions are given above); 5, door
(those along the feeding passage will have to (those along the feeding passage will have to feeding passage : 8 , feed room.

illustration b

Illustration B shows the swinging partition
hetween the feeding passage and pens. No. 1 ,
trough: o, partition: , siding bolt to fasten the
partition on either side of trough.

ilLustration c.
Illustration C is the ground plan of octagon Mggery recommended by Alfred Eason, Maniton
No. 1 shows position of furnace ; 2, feed bin : 3
not posts, LX inches and 12 feet long: 4 , scantlings, $2 \times$
inches and 9 feet long; 5 , windows, $2 \times 2$ feet $: 16$ entrance : 7 . door: 9 , pasture : 10 , fences : 11
troughs, $5 x$ feet and foot deep.

FIRST PRIZE ESSAY

## Description of Plan for Piggery

Size. -28 ft . wide $; 36 \mathrm{ft}$. long or more, according n number of pigs kept; 8 ft . siding.
Passage.- reet wide through entire length. to yards at side. Pens of such size ought to hold six pigs for feeding or one sow and litter, although for latter special pens should be provided with small enclosure where sucking pigs may be fed Troughs.- May be made by spiking 2 -inch plank in the ordinary way that troughs are made. Th front of pen should swing from bots passed through with a bar in the moddle sliding up and down, so that the troughs may be filled without interference from the hungry hogs.
Feed-room. 6 or 8 feet wide, and the entire
width of the pen; one side may be utilized for a plank boiler with sheet-iron bottom built into strong mason work, and with fire-place 18 inches at least above level of floor. The other side may be be separated from main pir house by a partition. Flucs. The feed-room should be supplied with a flue to carry off steam from boiler; two flues should also be provided for main pen.
Floor. May be constructed of hardwood planks laid in cement upon a layer of stones covered with gravel. The planks (preferably oak) should be
laid about 1 t inches apart and this space filled with laid about $1 \frac{1}{2}$ inches apart and this space filled with cement.
through the cement a shallow groove, say $\downarrow$ inch deep, may be formed, which will carry down the surplus moisture to the giters onen or the
passage. Ciutters. May be formed in a similar way to
above groove, only they should be deeper, terminating in a receptacle either in or outside the pen, which should occasionally be supplied with plaster
to keep down foul smell, as well as to absorb the valuable manurial properties of the urine
Wulls. - Built balloon fashion, studs 2 feet 10
inches apart, boarded inside and out, and filled in with concrete; false girts should be placed bet ween studs, about midway, to st
nailing the outer siding t
Ginvet. Above feed-room should be provided with bins, from which spouts lead downwards rom facilities for feeding
Water. Should be piped to pen from windmill or spring, or be provided by means of cistern or vell, so as to be reado wall fo.
l'aint. Paint the walls from motives of
conony, as well as to make pen look neat. If paint is beyond your means, whitewash with water
lime and milk, or even with common lime. The inside of pen should be whitewashed at least once a
year. Provide a pla
and use them.
Winlowes. Place a window in walf for each pen.
Have them constructed at such a height that manure can be readily loaded through them into a
cart. and use the windows for such a purpose pretty frequently. If the corn is too dry or wilted, through being over-ripe or fro. A. Is. Brage, a Wisconsin dairy-
the sio, M, Matercomes this difficulty by sprinkling
woman, over woman, overcomes this dimiculty by sprink ing
about four pails of water with a garden sprinkler
on fach load as it falls into the silo off the carriers

THE FARMER'S ADVOCATE

## Ranching ys. Mixed Farming

To the youthful mind imbued with a desire for novelty and adventure, the idea of ranching out
west, with the necessary "ropt, with the necessary accomplishments of etc., has always cast $\qquad$ setting sun, and surrounded it on the land of the romance and Buffalo Billism. Like every other pleasure in this life, the joys of anticipation in this respect are greater than the joys of realization, and the "tender foot" finds that roping may even become "hard labor," and positively "beastly, presents an even surface of six inches of the corral "broncho-busting" may be very exciting mud; and you get pitched on the ground you fall just as hard and feel it just as painful as if you had fallen from a "gee-gee" at home. Moreover the ranch may be the only building in sight on the wide prairie, and your heart may be gladdened now and again by the sight of a lonely coyote sneaking around, or a neighbor dropping in may confidentially impart ago in the bush at the back of the hill two year a time, when the novelty has the hill. Still afte pile of such like "romances" put on the top of other to make up for the lack of society, with its uxuries and its conveniences.
Sad to relate, but nevertheless true, the halcyo days of ranching will soon be a thing of the past to a great extent. In the history of Western America ve find individual cases where ranching has been markets and things in general have condition of stances.
To make ranching, as a large concern, return paying dividend of course depends a great deal on the individual management at the head of affairs, but there are certain conditions opposed to the successful management of ranching proper that the stockman on a small scale can more efficiently one. The results, however, depend a great deal instance, ranging stock for beef purposen adod; for thing, while stock raising is another and resuire far more supervision, and it is in stock raising that the small stockman has the advantage of his more
aspiring neighbor. In the first place, through being aspiring neighbor. In the first place, through being
able to bestow his individual attention on his stock in a manner, so to speak, he receives the full benefit lay his hands on them and give what assistance is necessary in the shape of feed and shelter, just at a and calves, in the outlying district, are cows mercy of the timber wolves, which are becoming
an increasing pest and a source of loss to stockmen on the ranches. Again, his cattle and horses en the ranches. Again, his cattle and horses
especialy become more domesticated under such
treatment, and are less liable to accidents. With horses ranging wild, mares at the foaling season attendant going to round them up, with the result that lots of newly dropped ${ }^{\text {a }}$ youngster
are run off their legs in their attempt to are run off their legs in their attempt
keep up with the dam, and never recover Another point in favor of the small stock owner is, by employing good sires amongst his cattle and benefit in the improved quality of steers, which
meansagood third more on the market than thelean lanky, long-horned range steer can bring, bred and raised after the ordinary range fashion. The large
stock owner cannot give the attention referred to, with his cattle scattered over an area of several mile sires of all degrees of excellence running around it could hardy be otherwise. Even although a
system of co-operation amongst the surrounding owners was brought to bear on the latter point obviate the evil by importing good bulls, it is im-
possible to give the thorough supervision necessary possible to give the thorough supervision necessary
to retain the good qualities in a herd of cattle, and
where stock are only handled twice Custom, at the annual spring and fatl round-ups
The day can be remembered when the greater par of the western half of America's prairie was devote to ranching, pure and simple: to-day we mark th area, which tells its own story Wherever the
climate and quality of the soil will allow, an agriwith its greater ratio of population and their ceve increasing demands to be supplied, are a greater
source of revone to the comntre, and inmart to it
 parallel, with a dimath and soil simitar to out
southern neightors, must nat madly allow conts hey-lay of , ranching is owe ind the . Widd.


## Tariff Reform. <br> Rev. Geo. Roddick, before the ing, in the City Hall, Brandon.]

A massmeeting of representative farmerswas hel
in the city in March last, and declared in favor of a reduction on certain articles unanimously unanimously signed petition forwarded to Ottawa praying fcr said reduction. Very little attention was given to that and many other petitions on th
same subject from other portions of the Dominion However, it was announced that the governmen contemplated a general revision of the tariff, and That investigation is now in progress and as $f$ as it has gone the manufacturers have had the in
side track. side track.
As the
As the Hon. Mr. Foster, Minister of Finance in the month of September, your conmittee felt $i$ necessary to call this meet ing in order to formulat As in the former resolutions, his arrival. ion on five articles :-implements, lumber. coal oil barbed wire and binder twine.
Many of you will be of
gone sufficiently far in our demands we have no to keep in line with the former resolutions wis ing that half a loaf is better than no bread, and that upon these resolutions all can unite without
any compromise of political principles. To go
farther would be to any compromise of political principles. To go
farther would be to defeat the ends which we have
in view. in view.
mportance of harmonious und your attention the such occasions manufacturers and action. On
their petty their petty differences out of sight, and others sink
united front in pressing thent united front in pressing their demands. Let the armers dollkewise, and we need have no fears a
to the result. Politicians will find that they not afford to ignore the demands of so per cent. of the voting power of the D
Manitoba is essentially
Upon the produce of the soil are not only the fy mers dependent, but all other classes of the
community. We have no manuf the community. We have no manufacturing interests
of any consequence, and not likely to have for of any consequence, and not likely to have for
many years to come. We derive no benefit ever arising from the increase of consumption
produced by eastern manufactures. From one produced by eastern manufactures. From one to
two thousand miles intervene and shut out all profitable intercourse.
Policy was never intended by its as tounders to to permanent. Its design was to foster industries teen years of this fostering care, is it not time to nquire : Has the National Policy been a failure, or upon their feet, so that they no longer reatire the aid of government leading strings: To one or other of these conclusions we must come. From
the influence which these manuat over the government, from the army of agents the swarm over the country, and the manner in which they are piling up ifortgages against the struggling
farmers of Manitoba, we are forced conclusion, and feel that they are perfectly latter stand upon their own feet.
Manitoba is an inland country. It is situated
near the centre of the continent Both the eastern and western orth America thousands of miles distant. Tocompel the farmer of this province to meet not only the enormous
export and import charges, but in addition, pay a tariff of 35 on their implements and other article is to debar our produce from the markets of the
world. I affirm that under existing circumstances, agriculture in Manitoba must prove a failure. In making this statement I do not disparage the coun-
try. I came here to stay, and my faith in the countural drawhacks like eved. It is true we has our frosts, our hail and our drought, over which
man has little or no control, and to which it becoud us to submit with due resignation. These are no other countries have to content. But ashthe Bran
don Times very properly puts it, in an editeral Julv 2nth: "Last vear, to deliver a bushel of wheat
in Nontreat cost about the price of another hushe
here, while it cost to deliver a bushel of tout the price of two bushels: and to deliver barleer
about one and athalf." To continue such state of
matten matters is simple impossible.
reason that farmers can afford it
 oontry presents many adrantage this Northwer a field form
ndustrions settlers. Here millions tuan ortable homes. But mint the Heacht set ther






Nering breaker plow
Naggon
Mceormick binder Mocorm
Mowe.
Rake.
Lumber.
 Manitona compete with those in Dakota, or is ther The lumber combine which settlement his province is as tyrannical and oppressists in to essentia far the all the Russias. As lumber : so essential for the protection of man and beast in operate against the best immigration policy tha an be adopted
In conclusion.
not of a local character. It is widespread in in deep-rooted, and like a similar movement acros
the line, will prove "" the line, will prove a "landslide" in the remova able and just. We ask for nothing more ; we will not accept anything less. The Toronto Empire may atsify and belittle our action and cowardly refuse
to open its columns for reply, party heelers hose who fatten at the government party heelers and pose our efforts, but let the farmers drop old party ines, be true to themselves, to each other, and to
theiradopted country, and their voices will be heard
above the din of all
-
Saving Seed. There are too many fammers who do not realize mer and fall from the choicest of their the sumA good crop cannot be expected year after year that indifferent seed will bring a good yied yime from which were grown large tubers, and an abun, dance of them, but ifsmall seed isplanted seasonafter and quality. Now, during the par both in quantity the best time to save seed potatoes. As the far mer handles the crop, he has the best of opportun-
ities to see almost select the most perfect and plate, and can readily likely you will need, for if there is not a demand for all your seed in the spring you can eat them or hand, if your supply falls short through unloter for circumstances, it is not nearly always easy to ged the needed supply, even at exorbitant prices
When possible, a farmer own clover and timothy seed.. These seeds are cost is high and it is rery uncertain about their objectionalle growe seen fields thickly set with with what should have fom seen all that was mixed
Now, too is the tior clover is the expectation to depend on seed corn, unless it the needed supply. A great on the depend on their
cribbed corn for sced, which means using What is left over in the spring, whether good or
poor. Last year there were a gieat many through poor. Last year there were a great many through
northwest
pissours and scuthwest Iowa who planted corn from the spring supply left in stand and universal replanting. It has been my gathering corn for seed as soon as I found it thor Gughly away from the milk. I do not gather it fine ear when passing through the field, and an When cutting and husking the corn $I$ and pluck it miv watchtower, so that hy the time my crop is
cribhed I have a bountiful supply stored awa
which I know to be may be relied on as of the beost, without Thail the seed Ssential to keep the corn strictly dry during the
winter, and in orler to do this I usually beg a
itchen nook of my wife wher kecps dry, hut is not subjected to the cold of the
extreme wintry weather. I anl of the oning though, that freering dry corn does not opurinon,
gorme, but by keoping it where it is warm the mone certain tole dry all whe time it is warm it
Garden secel cammot be and-h,-chanced method be gathered in a happen-

 which matured gathered the pods of Lime bered them a way secure-
w with the seeds of bum
 $4+5$ $-5+x^{2}=$



Experimental Farms.
A few years ago I was, like many more, inc iner A few years ago was, like many more, incilined
to think that these establishmelts weer amere tad
and had in a great measure been formed for the
 goverument hangets-on, , and that like wany other to make a few lazy independents happy and keep
them in luxury; but after carefully watching these them in luxury; but after careetully watching these
farms from the start and following their work farms from the start and following their work
closely as well as beholding the beuffits which have
been generally derived frou the been generally derived from them, I have changed
my mind, and must admit that they are in my opinmy mind, and must admit that they are in my opin-
ion the most advantageous venture for a country such as ours that any government thase eer promulgated or put forward; and if our farmers were, as
hey certainly ought to be, better acquainted with they certaing ought to be, better acquainted with
the workings or these farmund sand the beenetits to be derived even from correspondence with the officers
in charge (whom I might state 1 at all times find very obliging), as well is a a full perusal of the rega-
lar reports furnished, they would be greatly ted. not to say anything of the splendid opportunit ties given to every farmer of trying opporturirarieties of all classes of new grains and roots, free
of charge, and at ittle or no expense. Above all, one of the greatest tooons, morex espene. Abially to to tholl, located upon the prairiese settementes, isin in providing
them with that which they sadly want - very young them with that which they sadly want-Very young
trees and tree seeds which will assuredly grow well. As. "Rome was not built in one day, we weed
hardy look for or expect to find perfection at once in the arrangements of any concern, more espe-
cially of large ones, depending, as theese do, so much cially of large ones, depending, as these do, so much
upon weather and seasons, and including so many different species of vegetation. About a twelvemonth ago I was nuch pleased to
see that the Alberta people were moving for the estabhishment aid the in the vicinity of Calgary, through, as I have heard nothing further of it since of if os, it is to hee much regretted. There is Farmi is to be of any use or service, the proper place for it is in the district it is is intee, the proped top penace
This idea has been cle This idean has been clearly shown as between the one at Otta O a and that at Brandon, especially as
fir at the tree departunent is concerned. In giving you my experience you also yet that of others, and
 from Ottawa are of no use, as they arrive in this
country too early in the spring for setting out, and country too early in the spring for setting out, and
I do not care how well yout tend them, you cannot save them in gooon order, for if you keep them dry
they die ont, ind if you follow the instructions they die out, and if you follow the instructions
sent along with them they are sure to damp off and when panted out sucumbt to what in generand
callet dry rot, and if you get one or two small ihing trees at the end of the season out of a a tried them myself and got others to do so different seasons with the aforesaid result. On the other
hiand, those received from Brandon, with exactly were just the reverse, and the loss by deaths only amounted to somewhere about three per cent. The rooted trees from Ottawa grew, but never were
vigorous; they made comparatively little growth vigorous, they made comparatively 1 ittle growth
throughout the first season. This. Ipresume, arose
form from the fact that they were out of the ground so
long in the spriug. The loss by death in this class long in the spring. The loss by death in this class
was from seven to ten per cent., while it only was two in those receiven from Brandon Station.
The trees raised in Manitoba were, in the first place, much finer and healthier plates, and made
linore head way in one sealon than the eastern ones did in two. In drawing your attention to this In thter, INo not wish it to be understood that I I am
finding fanlt with the people at Ottawa; I am simply writing for the benefit of the farmers and
others in this more tantalizing to any one than preparing ground and spending time and lahor upon that which
turns out in the end to be useless. Every one who wisthes to have trees around their habitation desires
to have them grow speedily, and therehy acquire a good and lasting protection in the shortest time
possible; therefor it is that I say, by all means let us have our young trees for Manito bai farms raised
and sent out from the Brandon establishment. And there is still a stronger reason for pressing this
home to those in power, viz: Everyone is by this time throughly convinced that southern-raised
Imaterial does not Material does not, as a rule, succeed well in a north-
crn elimates the noll excepton that know of is
that, raised in Rochester. N. Y. When talking nuon this point to somer eading wort thies, I was
hindly reminded that our frienls in the east would Kick against the transfer of the artborculture, as
(his would mean doing them out of a portion of






$\left\lvert\, \begin{aligned} & \text { did start, and certainly they would never beat } \\ & \text { frait woorth picking. } 1 \text { know of a caise where there } \\ & \text { were ouly soly }\end{aligned}\right.$ Were only solue three or four out of a parcel of
fifty showed any vitality; 1 do not think any of then will survive the wintep, These cutting were
given. In a word, 1 do not tand cannut sen why
 nud the staifp increased so tu w provide everything
in tots shape of not only trees and thushes, bint also roots and seds for the farmers of our province, an
it is an undoubted fact thatt northern seed and
other thing suit other things suit our clinate and soil far beter
than anything livoluced south of us. If we are to

 any hing but genorous, aud militates materially
agginst the benefits of the muost uscful institution against the benefits of
under their supervision.

## Fifty Years Ago

1. B. White, clarksb
(Continucel from

The more I notice these Forestry Reports the more I think they are at fault in trying to build up
a theory of which so little is known, and conse quently, notwithstanding all the lator and ingenuity mployed, only producing a lot of incongruous and
fragmentary compositions for our instruction Report for 1887, page 36, we reall: "I notice in American papers some criticism of an idea which
should now be removed from criticism the well known influence of forests on rainfall. We are no
longer left to conjecture on these watters," longer left to conjecture on these matters, "eci
Thenon mage B6i, Report 159, four years later, we read The opinions of our greatest cimatologists havi
been divided as to the influence of forests on precipi tation. But evidence, carefully and scientifically
scrutinized, is accumulating which tends to show that under certain conditions at least, such influence may not be improbable." This seems like moving it from criticisin the other way, and shows the folly
of being so positive about thing we dowt In Report for 1886, page 67, we are told that at
 while a forest transpires millions of gallons daily.
A great ifference in quantity certainly, but then. Chere is and unmeasurable cilference between :
definite and an indefinite article, and to pit cabbage against a forest to show how the farmers
are drying up the country by making the change is are drying up
great logic.
On page 76 , same Report, we read: "The question
has been aske the Western States were ever fertile, while trees are
the
sidd to ben said to be so necessary to feritility? This is easily
answered. These prairies were in the first place of exceptional fertility, so far as regards the quality
of the soil." Then turn back to page 49, and we read: "State atter State is going to be drowned out,
until some d pretty castles where the people of Iowa are now digging wells for water," This last quotation is
nore in line with geology, which teaches that these more in line with geology, which teaches that these
now prairies were in the first place water, and now praties were in he irst piace water, and Then in the third place comes the starting point for
the farmer and we ask the question: How the farmer, and we ask the question: How came
those bare rocks to be over-laid with ten, twenty or more, feet of vegetable soil' This problem
solved is the key to successful farming in perpetuity But to say the prairies were in the first place of
exceptional fertility as regards the soil, only shows how little some people do really know about it. Then, in my opinion these Reports are equally astray in representing the clearing of the forests as
having such a dreadful effect on the country, in having such a dreatful effect on the conntry, in
causing the rivers to be so much more destructive in carrying the soil into deep waters at one time,
and at other times drying them up so as to be of very little practical use, for, though there is some
difference caused by this change, the alarm is a great deal more imapinary than real If Capt.
Eads did (pare t9, Report. 1886) exclaim when Eads did (page of mepor
empt ying a pail of mul and water over his jetties,
and "There goes a mixture of one-tenth Missourt, one-
tenth Illinois, one-tcnth Iowa," \&., it is no reason
 there is nothing to get excited ahout.
It is said that the river Thames, England It is said that the river Thanes, England,
carries 11 ,ono, Ovil cubit feet of solid matter into


 Then there is another side to thix guestion of
what the watters aro doing, and though I have seen


筒
and in return build up more level or rolling land
the change, we should saty, is for the leether. And it. the change we sheuld say, is for the betwr, And it,
in place of going into hysteris over what we see
ruind going down ihe rivers, we gave more attention to
keepng the land in grass along runs of water which are apt to thood, we would help to graduate dis process to our present addantage. ('nder-
drainny also acts as a s strainer in keeping the soil But this cry, about the farmerss tearing out the
heart of the country with their plows and dunping it into the sea is quite unnecessary, we read: "Fo
On page 5 it, Report for isul, we reat
 aud midequate supply of water and they hav river, trom which the city hatever drawn icts supply,
has teem atfected by the clearin! of the forests,
 gallons per day. Well, supposing this is so, though
it should not have taken much
nginineering to have discovered that difference, it is still Litl gallons per
 Delaware river, with ten or more times as much
water, borders along their front street; and if the ing for water they must have really-heen for ways and means how to keep their positions
and consequent remunerations. But her and consequent remunerations. But the reason the
city has hitherto drawn its water supply from the Schuylkill is, because it is the more rapid stream and furnishes the power to pump the water int
Fairmount and other reservoirw any Ontario farmer who saw the Corlis engine and the exhilit of pumps at work at the Centennia will not be alarmed but they will be able to raise
water out of the Delaware when newled water out or the Delaware when ine neded, saying
nothing about the great change in produciny mo tive power since then. On next page we are asked "Where will New York's water supply come from
 come from? They have nothing like the natural reserves to draw Yrom that New York has, and in
when they have When they have 1,000,000 people they have to ta
Lake Champlain, they should le better able to do than they were to tap Croton when they did: and if that time does come, I think they wiil need the than trees. We will have to employ some more economical way of holding water for a constant supply than re-foresting the country, as thes
Forests Reports say will have to he dond "All the rivers run into the sea; yet the sea is
not tull thit the palace from whence the rivers
come, thither they return again." Perpet ual mo-
tion!

The Farmers' Mill.
Embracing the first opportunity, our repre-
Ative visited the new farmers 'oller mill," says the "Portage la Prairie Liheral.
"The luia ding of the mill originated in the getire of our farmers to have one where they could
 was let to Messrs. Stable \& © Gray, and the machiner was purchased from the North American Mifl
Building Company, of Stratford Ont Building Company, of strat ford, Ont. The mill
cost about $\$ 5,000$, the machinery $\$ 15$, (0x), or a total of $\$$
 elevator. Thes intervening space, roofed over,
sheeted with
onon inside and
outside, constitutes the engine room from which power is transmitter passing through all three divisions. ".The engine room is divided off by a brick wall "The engine room is divided off by a brick wall,
the machinery from the boilers.' There are two of the later, one 90, the other 40-horse power, solidly bricked in. There are two engines, the pincipal one a Brown automatic cut-off 100-horse power. The other isa
tained from the tailing and chatf of the elevator cleaners.
" Mr. J
"Mr. Jas. Nummy is head miller. It was he
who drew the plans for the mill. The work of con who dren was clarried on under the supervision
struction struction was arried on midluwient for the N.A.
Mr. W.... Johnston, head
I. . M. Company., of Strat ford, who supplied the machinery.
2w barrel perent capacity of the mill is from 175 to 2no barel per 24 hours, but every thing is so a rranged
that. with very little ex pense the calacity could be
greatly increased." greatly increased.

## The Howell Pear

The editor of the Horticult urist has the followfor markket at Maplelurst one of the mest sat isfromscaht, wormholesand otherthe mitishes, and delear yellow \&k at maturity, combine to make it a very
att ract ive pear for market. It rifens altout the end of soptember, just when the Bartlett seamen is over.
In the estimation of friit
growers kencrall, the Howell is one of the hest of the varieties of
American pears. The tree is an uprizht, vigorous grower, and very productive. The quality is good.


## DAIRY.

Dairy Cows and How to Feed Them. As the time'of winter feeding aegain drams near,
will be interesting and instructive to know how it will be interesting and instructive to know how
other authorities from another country view the manner of feeding in order to obtain results in
butter production. How the different breeds are butter production. How the different breeds are
looked upon from an English standpoint is also discussed in a pamphet recently yissued for the benefit
of English battermakers. It ssins of English buttermakers. It says: plentifur loprns are of good dairy cattle, giving at besides fattening well.
They are, perhaps, the best ordinary farmer, especially in the nors, the berth of Eng land, where swedes are grown. When their milk
begins to fail they can be easily fattened and sold begins to fane
.The Jerser. mav be regarded as the type of a
butter cow. Bulk for bulk, its milk is the richest in butterfat, having a greater proportion of large fat globules than the geilik of any othert breed, and
their large, uniform globules enchance the value their large, uniform globules enchance the value
of the milk for buttermaking in three ways: -1 . By separating more quickly and thoroughly with the cream. 2. Churning more readily and com-
pletely, 3. Producing more and a better , uality pletely, 3. Producing more and a better quality
of butter.
."Guernseys are very similar to the last named
 not grod for dairy purposes. "A A rshires give a large an.
Ayre. The milk is rich in casein, and the fat globules are of small size, consequently the Ayr"Red Polls are very fine milk and beef producers, and may be said to bea typical dairy breed. They retain
"Cattle should be brought in from pastures in
October, and before this the stables should be well cleaned out and whitewashed. Cows may run out a
little each day through the winter. Some of the back end calvers will be coming to the pail now, and will get full rations. Others that are drying reduced. Everything should be done to make them as comfortable as possible. The stables should feeding must be done at regular hours. Therations feeding must be done at regular hours. Therations
for different cows will vary somewhat, but the following are good examples:-(1) Decorticated $1 \frac{1}{2} \mathrm{lb}$. $;$ hay chaff, 81 b . ; oat straw (chaffed), 10 ll . mangels, 40 lb . (2) Linseed cake, 1 lb. ; crushed
oats, 2 lb ; bean meal, 3 lb ; bran, 1 lb ; rice meal, 3 lb ; clover hay, 10 lb ; straw, 6 lb .; swedes, 30 lb . ${ }^{\text {(3) Cotton cake }} 3 \mathrm{lb}$; oat meal 10 lb . $;$ straw, 10 ib . : swedes, 331 lh . (i); 'Decort hat
 hey, 7 lb .
Cows that are dry (previous to ton cake, alving) may
 The different roots are fed to cattle in the
order in which they arive at maturity, thus (1)
White turnips, used first in autumn: (2) yellow turnips; (3) swedes, used in winter: ( $t$ ) mangels: (5)
carrots, used last in spring. trated fools with is lit tle straw. After coilking,
siay at or oclock, give one third of the rots. If
 cattle get another third of the roots and some hay,
or silage or brewer's grains may be given instead or siage or
of the roots. At $4 \mathrm{p} . \mathrm{m}$. the rest of the cake and
meal is put into the troughs. At $7.30 \mathrm{p}, \mathrm{ml}$, give the remaining roots and some straw or hay.
"• Water should be provided. It is often advispose. They then get a little exercise. "A piece of rock salt should be placed in every
manger for the cattle to lick. This is better than putting a certain quantity in the fool, as the ani
mals get as much as they want. Sodium chloride is contained in large amomes in the blood. Rock
salt should only he sparingly used with cows ap-
 or $5: 30$ p..in. On some farms the cattle are milked
at mid "All through winter the management is very much the same. Ao mpid change of food should
ever be malle, as the cattle may he thrown off their
feed for a day or two, am do not let down the in feed for a day so well for the time being.





## Winter Dairying. association of western ontario.

One of the most interesting topics discussed at
many of our dairy meetings last winter wa "Winter Dairying." Farmers and dairymen are of dairying anformation concerning this feature importance of giving more attitention to dairying as
a branch of farming that profit, if carried out intelligently and systematically, Hence any feature that will make their business more remunerative will be received with interest.
The Dominion Government, under the direction of the Dairy Commissioner, established two experi-
mental dairy stations in 1891-92, at Mt. Elgin and mental dairy stations in 1891-92, at Mt. Elgin and
Woodstock. At these stations butter was made during the winter months from milk supplied by
the farmers in the neighborhood. These farmers had been supplying milk to the cheese factory
during the summer, and continued to milk their cows during the winter and have it made into the farmers were well satisfied with the results, and will be continued continued during last winter and winter also a few of the larger cheese factories put in apparatus for making butter, and kept their
factories running all winter. These fart gave satisfaction, and were able to make the business a profitable one. The business of winter dairying is therefore an established fact in Canada, stand its workings, and prepare themselves to oper-
ate it, the sooner will they place themselves in ate it, the sooner will they place themselves in a
position to realize the highest possible profit out of dairying, and be able to make money out of their cows all the year round.
The larger number of the patrons of our cheese
factories, who are generally looked upon as making a specialty of dairying, milk their cows on an average seven or at most eight months of the year.
It will cost about $\$ 28.10$ or $\$ 30,(1)$ to kep properly per year, and there are few cows kept by than enough milk during try which will give more or eight months than will pay off this $\$ 300000$. This are keeping cows just for the fun of taking care of them, as they are not returning a profit, while a great many of them are keeping cows a t a loss.
It may seem strange that such a condition of things
exists in a cont exists in a country where dairying is made ia
specialty, but nevertheless the fact remains specialty, but nevertheless the fact remains. The
chief reason is that farmers do not keep inaccurat account of the cost of keeping a cow, or the cost
of producing a certain quantity of milk. If they ad they would only keep cows that would return
a profit. A prominent dairyman has well said that the cow is a boarder, and should pay for her hoard week by week the year round. If our farmers
would go into winter dairying, butter could be would go into winter dairying, butter could be
made when it commands the highest price, and cheese during the summer.
By this plan the dairyman will be able to raise
his calves during the winter months. To do this his calves during the winter months. To do this
his cows should come in during October. The skim milk may be returned from the creamery the same By heating this skim milk to the normal temperainseed or oil cake to take the place of the butterfat In excellent food for calves is secured. Thus better thismethod than are usially the raised during summer fter his stock, and consequently the calves receive thenselves, as is frequently the case when raised
during the busy summer season. A calf that is horn in the autumn and fed properly during the appears. The in the heifer is properly looked after
during the first three years of her life, the wellBy adopting winter dairying farmers will b winter. An mpantage to be bained by winter
wairing is that the cows will he kept in better
daid condition, and consequently will be in better
trim when the spring opens up to give milk during
 gave more milk that in the summer of 1 s 92 his cows ${ }^{\text {Winfl}}$ It is claimed that the returne for dairying will not pay for the extras froon and extrat care expended upon the cows. We have only to
refer to the experience of those who have tried it
The butter made in the winter dainis later brought, on an a arage, from twenty-hree to
twenty-five cents per pound Deducting the cost twentr-five cents per pound. Deducting the cost
of matinfacturing there would be left to the patron
about t wenty cents per pound. and he would receive from eighty-five on ninety cents per one
handred pounds for milk, and have the skim milk
to the
 vatue
secured, and cowscan befed justascheaplyduring the
winter as during the summer on the grass. Good warm, comfortable stables need to be provided.
cow kept in a cold stable requires more food keep up her vitality than one kept in comfortable quarters.
The seri Ontario serious drought of the past few months in winter dairying this season. The dearth of good pasturage during August and September caused the season, making it difficult to keep up to their usual amount at this time of the year, and consequently many of the farmers will not have
the milk to supply for making hutter this winter It is difficult also, though good food is supplied, to get cows back to their usual flow of milk if they However, the winter creamery is of consider able interest to the dairymen, and when it is pos-
sible to secure sufficient milk arrangements will be sible to secure sufficient milk arrangements will be
made in many localities for manufacturing butter during the winter months. Thorough preparation the farmer has provided himself with the proper cows, and has the right kind of food for them, the
highest measure of success cannot be obtained in operating the winter dairy.

## Foul Foot

When a cow or other cloven-footed animal is seen to lift its foot, stretch it out and endeavor to When the cow stands at times in manure, this get there: and either acts as an irritant to the tender skin there. Vesicular eruption may then occur, with inflammation, and the skin peels off,
with the result of suppuration and often ulceration with the result of suppuration and often ulceration. to cause trouble if neglected. In time the inflammation penetrates the foot, and the hoof may be
loosened or drop off. The disease is more occur with cattle that are out of condition and whose blood is thiu and poor. Attention should be given at once. The feet should he washed and care-
fully cleaned bet ween the hoofs. The sores should be dressed with some stimulating oleaginous mixture to excite healing and protect the raw surthe Agriculturalist, is made of four parts of sleas lard, one part of each Venice turpentine and spirits of turrentine, and cne-half part of acetate of copper and put bet ween the hoofs, which are then or lint, with a soft bandage passed, between the hoofs and
around them, and fastened above.-|Dr. C. D.

## APIARY.

## Preparing Bees for Winter

The time of the year has arrived when we must see ahout preparing the tiny workers for their win-
ter's rest. Bees should be fed by the twentieth of September, as it is hard to get them to take in the generally doe after thegins get colder, as i a word about the next step in the preparation, think that this should be done not later than the enth of October, for by this date the nights are beginning to get cold. The plan which I follow is and stuffed with chaff, but a method which I think tarted in my apiary. I will try to explain it as ell as it is possible. First, I take a long strip of four inches in length. I then fasten one of these pieces by one end to the bottom of the division hoard in such a way that it is extending backward Wong the bottom of the hive. 1 then fasten the ther end the bottom of the hive with a tack; den of the top of the division board, so that it will not press forward against the combs; then take
dry chaff and pack it firmly behind the division oard. This done, of the supers, or second story as some call it, and
fisten it to the bottom with tacks. I then fill it with chaff, and the hive is ready for winter. After hev are all ready for winter I leave them out on
heir summer stands until the winter sets in. Ihave left them out as late as the third of January, and
they wintered in fine shape. Still, $t$ think it is

A good ration for egg production can be formed A good ration for egg production can be formed
by ming e., per cent. each of ground oats, wheat and hran, together with ten each of corn and lin
seed, and tive of meat scraps, then cooking veget
ables on steaminy chopped clover hay and adding perhaps thee thing chopped clover hay and adding ful. The whole grain ration must be governed b. when the amomint of corn is small, save be obtained

POULTRY.

## Poultry on the Farm.

$$
\begin{aligned}
& \text { BY MRS. IDA E. TILSON, WEST SALEM, WIS. }
\end{aligned}
$$ y in speaking of poultry matters, since people have come to see that poultry culture is not a lottery, but a real business which calls for the same preparation and attention as other pursuits do.

But it must be admitted there are some unforeseen, But it must be admitted there are some unforeseen,
uncontrollable elements in this, as in all human uncontrolable elements in this, as air in suspect the muggy air that precedes affairs. I suspect the muggy air that precedes
electrical storms, or those storms thenselves, which play so many pranks, do lessen the vitality of eggs and sometimes cause poor hatches. Roup, con-
sumption and leg weakness certainly thrive on dampness, hence a particulariy stormy, wet season makes it harder to raise and keep the usual number
of strong, healthy birds. My own fowls are so of strong, healthy birds. My own fowls are so
civilized, or accustomed to houses and coops, civilized, or accustomed and our numerous outbuildings and trees offer protection enough, that I have lost, in all, probably indication of a bad storm appears, I practice going out ahead and driving my younger ones under shelter, perhaps scattering a little feed to keep them there. Chicks in their Brahmas, which are nearly bare just before fledged, similar and interesting experiences. For one of them, a hail storm and pouring rain rendered a large number of chicks apparently dead, which she brought to life in the warming oven of her stove. The other lady expressly stated she wrapped her wet chicks in a woolen cloth, and left the door of the warıning oven open. Such an experiment carefully co One year, three hawks selected my downy darlings for family supplies. They really got less than a dozen, and our national department of scientific research claims hawks actually destroy little poultry, but very many noxious insects and rodents. It was, however, the waiting and watch ing for these birso that I called in my neighbors and nearly demen to whom sold my early chicks Had I owned a harp, I doubt whether I should have hung it on our willow tree, as disappointed poets are said to do. Instead, I girded on my big apron, and raised other and later chicks, which were untroubled, protected by higher grass and leafed out trees. Pullets, especially wild ones, often get strained, droop what from them, and the closely, witho of their weight will generally be all right before the feathers grow again. I have read about holding a broken wing in place by a cloth band passed around it an the hen's body, but never saw this done, and personally consider a broken wing or thigh too unpromising for my time and effort. A pet hen, found in a leg ciet corner, fed above her foot, wism let alone. Soon she stood up on one foot, then hopped, occasionally touching and finally scratched. An acquaintance splintered and bound such a case, and has mine had. Perhaps ful but just as crooked are brought suit against both of us for unprofessional treatment.
Bumble foot, or stone bruise, is of cured by lancing the bottom, and if necessary between toes
t too, for which tuse or marketing. A combensonsible for such injuries I once saw bleeding profusely the unusally large comb of a fine Leghorn she was found dead, probbeen fighting, a broken heart, because her nostrils were stopped by the blood, which hat then ap parently run into her open
Perhaps a little puff-ball would have prevented all
a it fine but unneeded and rather conceited (iolden Hamburg rooster, which I sincerely advised th
huyer to keep alive as a beautiful and innocent bird. Supposing any fowl from my hands would merely eating dinner, went out again to find that "innocent" little fellow han we have learned that roosters can be trained not to fight, by chasing th aggressor a few times, and
what he was planing for his victim. So success ful has my mother been, she now simp combatant: Which flap their wings and make threatening Bether prove "It is not always May" with any multerer. - We are still in that so-calte
ime of the poultry year, extending from Augut to
ind
er, and fowls delilitated with the heat, bo fore they
are yet toned up again by cold, seem very liable ti
bowel complaint howel complaint. Nourishing food, with pure wate
in clean dishes, reduce the keep an evener supply of leggs, and counterac disease. For my hens, , dip water out of a trough
fed from a tank. Whenever the trongh shows any signs of a greenish color or wripglers, I petition t
have it emptied by a windmill from a well tis, feet deep, and con each of lime, powdered charcoal, flaxseed in any
shape whole, ground or as oil meal able condition powder, are all useful ingredients syrup skimmings, as sweets are good, too. Every month the past summer 1 chopped vegetables mor
or less, eagerly relished as a change from grass have tried a double chopping knife, or towo blade cleaned, big chunks often get stuck fast betwee use, so I see little, if any, advankage over a single
knife well sharpencd

MISCELLANEOUS.
Prize List, Western Fair, 1893.

Prize List, Toronto Industrial, 1893. HORSES

##  




















FROMFFOLE PLVCH HORSES IMPORTED, OR GRE




 Hastins. Yearlint Filly -1 Hillhurit Farin; 2 Graham Brogi:

























 CATLE.

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 Therners SHEEP.
























 DOPST Hep sh


 FAT SHEEP-Two fuy : TWW Itector

 bell, Wood ville. SWINE















## HME:MAGAZIE

THE QUIET HOUR
The Bible







 1isisce index to tiatilys
 It is the Book of Good Whatir frould


The Blank Bible
I thought I was at home, and that, on taking up it was a total blank. On going into the street,
found every one complaining in similar perplexity of the same loss; and before night it became eviwrought in the world : the Hand which had written
its awful menace on the walls of Belshazzar's palace had reversed the miracle, and expunged peclaiming the most precious orift that Heaven had bestowed and ungrateful man had abused.
There was, universally, an interest in the Bible, now it was lost, such as had never attached to it Book had been a blank for twenty years, and who never would have known of their loss but for the
lamentations of their neighbors, were not the least vehement in their expressions of sorrow. been quoted piecemeal in one book or another; but which had been quoted, whether in books of the ology, poetry or fiction, had been obliterated. attempt to transcribe the erased texts from memfade away: but, to their unspeakable joy, they came to the conclusion that God had left them a liberty, if they could, to reconstruct the Bible for themselves. Some obscure individuals, to he ob jects of reverence among Christians and book readings of the same passages insisted on by con ficting theologians; somenow so clear in relation to texts which told aguinst, as in relation to those which told for, their prudence, which he recollected principally from having systematically abused. All the ethical no one remembered his own peculiar duties or in
firmities, every one kindly recollected those of his neighbors. As for Solomon's "times for every-
thing," few could recall the whole, but everybody remembered some. Undertakers said there was ":
 But the most amusing thing of all was to se respecting ot speculations object and dech were of this strainge whight to attempt the reconstruction of a Book of monblesmere acomitor, were particularly pions on Mempt to counteract the decrees of Heaven. Som Gunation, had taken away a Book which men re


## FAMILY CIRCLE

Poor Yorick.









 Hn that fotide her revied.









































 Nitame nim
































 cominninditus ine:










and


THE FARMER'S ADVOCATE.
October 15, 1883
MINNIE MAY'S DEPARTMENT.

## My Dear Nieces :-

Instead of watching each green and flowery
object day by day, as it buns and blossoms, we now
see ond see only the traces of slow and sure decay-the
green fading bit by bit, until the leaves become like green fading bit by it, unti1 the leaves become like
skeleton wings of an insect, the wind blowing
through those places which were before marked through those places which were before marked
with crimson and oold. The sun himesf seems
growing older; he rises later from his with crimson ard gold. The sun himself seems
growing older; he rises later from his couch te the
morning, and returns to rest earlier in the evening morning, and returns to rest earlier in the evening,
and seems not to have that strength which he
possessed when he hose in the youthtul vigor of
spring and the bright and cheerful manhoo of possessed when he rose in the youthful vigor of of
spring and the bright and cheerful uanhood of
summer, for his grolden eyes seem clouded, and his summer, for his golden eyes sem clouded, and his
breath thick and heave, as he struggles throuph
the surrounding form the surrounding fog. All these are marks of the
seasons, telling us that the year is growing gray and slowly tottering towards the tarkness and
silence of winter. A moral character sayschate rrand, is attached to autumnal scenes-the leaves falling, like our years, the flowere fading like our
hours, the clouds fleeing like our illusions, the light diminishing like our intelligence, the sun growing like our lives-all bear secret relations to our des-
There is exhipration in the air, and a new life
in the wind that ©omes careering from the Northwest, bearing frost on its wings, and brightness to whe autumn woods. The farmer is early afield,
with his cheery call as he guide his team to the with his cheery call, as he guides his team to the
ate harvesting. The cornfields display their tent ate harvesting.
like rows, with g. tered betweenn ganniture of yellow pumpkins scat
and
longer vielding their longer yielding their honied fragrance, are falling
before the quick-swinging cradle, and lie like red sots upon the landscape: The orchards are brim ming with rosy and golden fruit, and
burrs are showering down their trea sures in the words. Ploentry reigns. and
the fulness of the year has sures inthe woods. Plenty reigns. and
the fulness of the year has phit its
stampef ghanessupo all. The short,
bright october days are closed in hy stamp of gladness spon all. The hort,
bright october days are closed oh hy
the long evenings, and in order that
s. these also may be bright isome care and that
attention are reuured The $1 \boldsymbol{c}$
The dullness of life in the country
one of the coumplaints oftenest heard from the young people, blut thest heard not
the fault of the country it is the frult of the country it is our own.
Too little attention is paid to our social Tiof little ettention is paid to our social
life, or rather the requirements of it. social gatherings are not freguent enough among is, where we are sur-
rounded with all the requisites of such recreation. Who has not been at a Halloween party, where the old farm-
house blazed with light from the the house bazed with light from all the
wind ows the huge bush hog crackled
nit furnished the coals to to try our fate vith chestnut the coals to try our fate nnocent fun? 'to Hallowe'en supper lanterns which lighted the table were made from pumpkins, and a most unThe cake which graced the centre held a magic ring: whoever was the lucky
finder was to be married within the
ear. And the piece of money betok
for the girl who got that would le a seamintress: ind the bean hetokened an old hachelor. The ofld
 remain a lright spot in the memory of the partici-

Candy for Hallowe'en
Put one quart of brown sugar and one pint of
water, a tablespoon of butter, two of vine a saucepan ; stir until it boils; let it boil without stirring until a drop will harden in water. Pour it on a buttered dish or pan, and when cool en ugh to with a strong pair of scissors.

- lemox cand.

Put one pint of white sugar into a pan with one grain, which may be known ly drophing in water. Add the strained juice of two lemons and pour on a buttered dish.

Peanut candy is always a favorite with grow persons as well is children. Put one pint of water hato a saucepan with one quart of sugar; boil for half-an-hour. Add the insides of one thart of peaminute and cool in shallow pans. When cold caw into small dice or oblong picces.

Put one ghart of sugar in a pan, when it hrowns atd half-a-pound of almonds, which should he quite aquan, and turn into a buttered pan. Saw it into


POPPING CORN
spirit they diffuse about them. A cheerful face it
as heneficial as sunshiny weather. The sour pet son is never satisfied with being somer themselves out seek to spread discomfort to all around them the he is sour from the rising up of the sun 'unti the going down of the same. When he awaken in the morning he grumbles because it is time to
get up, when he gets out he grumbles at the get up, when he gets out he grumbles at the
weather, and he is never at a loss for something to grumble about when he returns hone. The laugh ing philosopher is just the reverse they enjoy everything as they go along, and turn every little age, and they alvays acurs through life's pilgrimage, amd they al ways appear ten years younger
than they really are. "They pass best over the world who trip over it unickly for it is ber th we stop we sink." says Queen Elizabeth.
"And for ever and iye weill the grand sered
This is the style of a country purn
 Hale, bachelor, and Taruzin (ratdock, spinster,
tooth of this parish. If any of you know chuse joth of this parish I I any of you now cause ol
just inpediment why these two simpletons should
not be ioined toge her in wed not be joined toge ther in wedlook we are to socllare
it. This io the second time of asking, and i hape



 parish (esperially anong the formens in the
last and as that dion
lan

## Our Irish Letter

Dear Canadian Sisters and Brothers:-
We are in almost a state of panic in Dublin and all its neighborhoods, regarding the great always at the last moment that we thrifiless Irish feel our needs. However, as a rule, when we do, we set about satisfying them, which setting about has resulted in the decision that if rain is not forth coming before the filtering material prepared, and it will flow more abundantly through the canals which run in different directions through the city. Springs of water also are plentiful in Wicklow. They will all be atilized for this purpose, and will cause a great amount of work to fall into the hands of countless men who during this drought have been lying
idle and aimless. It is a serious season in which to feel the want of water. Cholera is so near to us one approaches writing of this dread disease with awe. A poor woman, a cleaner-up in the House of Commons, died after a few hours illness yesterday. It is supposed to have been the first case in London. A cloud scarcely bigger than a man's hand made its quite a sensation. We each and all hoped it would increase, which it did, but bye-and-bye sailed past us, not having left behind one single drop of rain. To-day seems drier than ever. I walked out this morning to visit a very curious place-it is an enclosure, a gate here and a gate there, leading one to suppose it had been a park-but the only a house or castle are two long walls joined at one end by an arch. In these walls are niches. The ruin has been of such long standing that no one seems to know anything about it. If it was a house it must have been an immense one. Is it not strange that no one can正 curiosities, so I tell yous antiquarian re now growing inside its ruined valls. A nother land mark which I aw lately was a cairn of stones on one of our beautiful "Three Rock Mountains." These stones mark a club, which the members of, in long years gone bye, named "The Hell Fire Club." Does not even the name make one creep? ts history. A number of men formed themselves into a club, to which they gave this shocking name. Their cusmas to go up to it, light most windows. and sit there all night drinking whisky, drinking themselves into state of mad arake foretaste of the future they had allotted for themselves. One night (so the story goes) they left in a body to catch up their boat and go home - nothing more was ever heard of them; he boat wasfound drifting days afterwards empty, I believe perfectly tyupe. 1 do not wish to encroach on English news, as but one your edition has an English correspondent threatens to assume such proportions that we find it already telling upon us, Coal has gone up like a rocket. I think a colliers life a particularly hard well enough, so I trust things may end well for them. But while they wait what must their unfortunate wives and children not suffer? The few shillings advance in price of coal per ton is so litthe sufferings. Before I end my letter I must tell you of such an amusing cartoon which has just been Frish paper, Thate is ary high wall, Mr. Glad stone fiercely pering over it : shirt coliars as usual well to the front, and on the ground lies "Pat, Rounted and body-sore; shillelagh in the distance. fintern poor Pat there is bound several coils of rope fasteling tagzedy-looking sheets of paper to his Bill," he well-known "Humpty Dumpty." It is so funny wish I combla send it to you all, but wishes are
unCLE TOM'S DEPARTMENT My Dear Nieces and Nephews
The response to my call for "Word Pictures, worthy of praise. So difficult has it been to judg between them that I have decided this time t ing the offer in previous issue; and in future will give two prizes of $\$ 1.00$ each, as lack of space will not admit of more than two pictures. I would like portralt, choose any subject you prefer, but sent in your work before the 20th of November.

UNCLE TOM'S PICTURE GALLERY.

## A Canadian Autumn Day

 They sing of beauty afar who roam, Holds more of beauty unto mine eve An artist's bruch mith dits. To depict this bright ethereal dream
My feeble words, how weak they seem

At dawn the radiant evening Qucen,
Arrayed in her robes of silvery sheen, Arrayed in her robes of sil very sheen,
Smiles a soft frace well, s.shesinks.t. orest
Where the fleecy clouds form a downy nest.
 And smiles on the teardrops night has left,
Till earth of her diamonds is all bereft ; Then upward and on ward he wends his way
Warming the heart of his fair bride day,
With his war With his warme caresses. The wooded land
Shows touch of a master-painter's hand:
And russet and gold, and brown and green,
With many a tinge of crimson sheen, With many a tinge of crimson sheen,
In purest harmony ofrlu blenh,
Till the stene our fondest hopest transcends. The hill-tops so oft by the eloudlets kissed
Have stolen a wreath of their While greeting our eyes ast thev south ward roan
Is the neighboring church's glittering dome.
Now from the tower the bell's soft tone
Proclaims that noon tide has long since

And the songs of his praise that we cannot hush
Now bring to his face a rosy bush,
Which reflects on hilltop and trate and tree,
Making a vision most fair to see.
The gates of evening now open wide,
And through their portals he swift doth glid
And while we gaze on his dying splendour,
All nature is wrapped in the glopmig tender,
And filled with peace by this perfect day,

An Unknown Grave
by foster carter, whonvock P .
Far from the scream of the iron horse, and far away in the mountainous interior of the southern coast range of British Columbia, lies, almost un lake, surrounded by lofty peaks that mark the spo of a lonely gra
the extreme. The sun pours scenery is grand in rays from out a cloudless sky. Flocks of wild fowl besport themselves on the wide, gleaming ex-
panse of water, which here and there the soft, subtle chinook fans into tiny ripples that lap in mystic rhythm the rocks of its iron-bound coast. cipitous cliffs, which as they ascend recede until their tops, aye, and half of them, are hoary with the accumulated snows of years gone by, and down whose mural declivities foaming cataracts
plunge for hundreds of feet into the deep blue waters beneath.
On the east the mountain ranges that slope the green growth of giant cedar and hemlock forests, among whose pathless wastes the mane-
less lion and big-horn sheep find as yet a home of freedom.
the beetling cliffs on the left and the slo cont rast to tains on the right, a flat tract of country, the unlike some gigantic merpent through park-like scenery of alder groves and sandy reaches where
the deer and bear are wont to roam in broad day-
But when the storm clond lowersand the moun rin tops are hid from view, when the north wind hillows dash on its rock-bound coast, when thi -rream of the wild fowl is lost 'mid the roar of that fearful gale: then, look: far out on those dark mow up in the air, now down in the depths below 1 faint form struggles hard. just for a monent Thun, the wases roar. and the wimd shrick-om,
and by and by a billow. larger than its hrothere (r) in its had fury something againt thot, ... Coud lowers and the wind sream,

## A Picture on Memory's Curtain.

In the dim distance, which hecomes bo.. N. b. stretches away to the hours of childhood, a vision fitful glimpses of the distinct-different from the nemory's pictured screen. How many little events around that bright spot back in the days of ed when youth seemed so slow, hut now appears to have gone like a flash on the expanse of heaven, laving behind only a glow to mark its passage.
And now there crowds up the scene of the old home. A river, gleaming past among the birch and edar trees, reflects the rush of bright moonligh hich pours down from over the hills. On thi meadow, stretching back from the fringe of trees to another hill which rises up until over the top the eye can see only the star-lit sky in its sombre heauty. On the edge of the wood covering part of hollowing out its miniature gorge stony path with tireless energy. Down it falls, the arching rees meet overhead and shut out the prying beams. In those shadowy recesses how many times I have lingered, protected from the heat of a summer's day, and cooled by the draughts of air which sweep up its tortuous a a enue, laden from rown wooden spouts lead the sparkling wat moss the pool which has refreshed the thirsty who come to drink its cool contents. Often have 1 climbed the hill at its steepest part, and rolled stones down into the splashing depths, and from that same fir crowned hill what a vision of river and valley do I
see! Winding to this side and to that, with fields reaching down to the stretches on like a beautiful ibbon, until another turn hides it from our sight, and a low mountain, nearly as blue as the sky itself, miles and miles farm and forest
As, gain, other spots I see which I have clambered

And now I wander down the hill by the brook side, until, where it enters the meadow, a grove of butternut trees spread about; beneath the arching rees a bridge spans the water where the lane culling with a pick thud as the wind brushes the branches about, and squirrels when the dawn breaks will lay in harvest against the winter. The yellow moonbeams, dancing to the wind's music with the black shadows, ever and anon retreat to he shelter of a passing cloud, and the shadow lone sweep over the fields. and the meadow is left unbroken in front of the ouse.
Home again ! Back to the old home where the ears flew in their joys and sorrows over my childhood's hours
Can memory forget the worn-out threshold, the wather-stained door, and the tiny paned windows hose with whom I passed the years, gone forever n the mists of time: The father and mother who strove for the best, one of whom has reached the end of life's stony path, the other still assisting with her help and love of and the other compani
hrough the mind
in in echo, for another and newer home stands but a short distance away. The old house is forsaken, its duty has been done.
('hange and decay are monarchs at last. From the house a road winds along the hill, until it reaches and enters another woom. un one the ot her the flat stretches away to the river. Beneath small culverts and bridges a doren brooklets and and rumbing water is ne neratisent as we passalong nd the huge evergreens above sough in the winds and tower glowily over the mom-litpme, which,
beside the road at the foot of the hill, shines and
 magical aid I am carried back tom hor haunts, th he road leading away wer the hills through the
feldstospots and to wace not forgoten, ontiat
at the dawn heaks and piles a mass of rosy

Puzzles.

Puzzles.
$\qquad$
Dear cou-in I read your puzzle,
I wa-delighted with its words.

 And hy youl doubt my word in the least.
Wait till the end of the $y$ ear and sec:

 Тиое. I. вамкs.



- Faliz brotifle.










A inisesive sent just to "it Phul"
so when again you write the dom
Your quill do not let slumber.

Your puzzlees with pleasure I Always onk
Whenever I Two Thlisend some :

Answers to 15th September Puzzles.
- Written.

Cane, mace, acme
In-nir red.
Orat-or
Names of Those Who Have Sent Correct Answers to September I5th Puzzles.

A Sermon in Rhyme.


"yom harar asoxk that trill sout





"pon thin ino taur fuling



"roir work iq mait mirerem:


Mon

THE FARMER'S ADVOCATE.
October 15, 1893

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Perhaps not. Then begin atonce by sending to us for our Shoppers' 'uide. This is a $6+$-page ing the prices of over five thousand different articles. We are a wholesale firm, selling direct to any consumer who has the ready cash.
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THE FARMER'S ADVOCATE
October 15. 1893

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to Mr. Luke Heeney, Dentied take, Que., their
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 treal and Ottawa, the only places shown, and
promises to makea srand stock promises to make a grand stock ram. He has
also sold to Mr. Jas. Robb of Kayubazua. Que. a very choice ewe lamb. Boththese gentiemenein
are pioneerin the tine otock industry in theeir
county, and deserve great credit for their encounty, a
In a recent letter from Mr. T. H. Nedcraft.
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From what we have heard the ram lambs are From what we have heard the ram lambs are
aporicularly chie ort ot he ewes were
selected by Mr. Medcraft selected by Mr. Medcraft two years since. and
are from the etock of Mr. H. J. Shedon, Brailes
House Wt arick House, Whar wick shire. Fingland He also hati.
number of hooce Y Orkshires on hand, which
are bred from the importation made at the same date that contained several 1, 1rize-winnere wows, which are old enomber of choice young eding. For
ofther particuars look up his advertisement
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Our representative has many kind words for
the farmers in the vicinity of Yankleek Hill. the farmers in the ricinity of rankleek Hiill
ont." for the kindues. and hospitality houn
him during his trip down east. We are alse him during his trip down east. We are also
pleasedtonote tato ourreaders carried oft many
red and blue eards for stock and roots at the exhibitions et both for stock and rootw at the
leaders of the ADwo date alway whe the Hill.







 are of large size. since writing the above we
have heard that idiho has oome forward with
at sill larker apple but cannot vouch for the a still larger apple, bent cannot volch for the
irutho this fatenent
Mr. W. W. Fort ier, head of the immigration








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 FEICMIGG ABAllIST SIOYORIFS Extracts from Letters Received by us, giving Experience with our Fen
when Buried under Snowdritt:
.
One of our claims for the fenc
 or wire and picket fence will do. This is no small advantage in a country other wire freaking is the principal occopation in winter. Any of th places where, owing to the lay of the land, drifts are sure to abound, then comes the advantage of the Coiled Spring. It is a well-known fact that and as it settles the fence usually goes with it There is no exception inue, case, but when the snow softens again ours wili come up smiling to its proper position, while barbed wire and all kinds of netting, and in fact every other kind of wire fence, Will, at least, show signs on does, count strongly
not surrender unconditionally. This feature should, and do in our favor in every part of the country subject to such heavy snowfalls.
"This winter has shown its merits nicely along highways. We have had lots of snow and it drifted badly, filling the lanes and high ways ful where board fente, or combination fence of three hoards and two barbed than there was in the open fields, and travel was just as easy on the road as in the field; but with the fences just mentioned the roads had to be abandoned and fences putled down in many places, and where there wer ditches or streams to cross, hne road had then out into the hels aga, And , the snow fell before the ground froze and it has been well covered since then till now, and the ground is soft and and so the makes in the fields, and freezing by night, thus keeping the fields in bad condition long after the snow in the fields has gone keeprids are in bad plight, and will remain so till the drifts are gone. The Page Fence has been an eye-opener this winter, It will pay to put the Page along the highways every time, and if the farmers know their own interest it will pay them to use it around their plow land to avoid late drifts."

JOHN MARCH.
"After the big snow storm last February there was only five wires in sight, and a drift hard enough to walk on over the top wire near one end, and afterward there was rain and a freeze, and the drift became ice and bore down on the fence till it drew one of the stay wires through two staples driven hard in red oak posts, but it did not bend or damage the fence any, for now the snow is gone and I have tightened up the stay wire and fence is all right."
"I put up a few rods of $19-58$ along a creek bottom a few miles from here. When the floods came this spring it spread all over the bottom. The fence became a dam, ani colled the top of the fence down until it was not the water three feet from the ground. The ice hung there until it melted off. It then straightened up, but had been so long that it was stretched and or. I hitched my stretcher to it one day as I passed, gave it a few strokes, and it was in just as good shape as the first day I put it up. Not even a cross wire broken. Talk about your tests of Royal Bunter, Sleet, Snow drifts, etc. Here is a test compared with which the others are as child's play. I should like to see some of the fences which claim to be 'just as good as the Page, and lots cheaper,' put to a simila test."

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 and weak portions of theat bonty. enlarged and
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es, reclaim your manhood! Suffers from
 your vigor! Ion't despair, even if in the last
stages. Dont be disheranene if quacks
have robed you. Let us show oouthat mehave robbed you Let uns show yout that me
dical science and business hoor sill exist; here go hand in hand. Write for our book
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