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Montreal, April 8, 1895.
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99 \frac{99}{100} \text { тo } 100 \begin{aligned}
& \text { per cent. of pure Cane Sugar, with } \\
& \text { no impurities whatever., }
\end{aligned}
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(Signed) JOHN BAKER EDWARDS, Ph. D., D.o.L. Prof. of Ohemistry and Public Analyst, Montreal.

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of that " Salt is Salt," and it doee not matter
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but the purest Salt fhould be used. The
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llat to receive applications from farmers or others clad to receive applications from farmers or or othery
lor the boise who ari arriving periodically trom
England to be placed in this ounutry All he toung England to be placed in this ooutry. All the eoung
immigrants whl have pasesed through a perrod od
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 CHAMPION Expopartor For MAPLE SYRUP and SUAAR. Has a corruga
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 SORGHUM, CIDER AND
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EDITORIAL.

## The Bacon Industry.

The growing time, so much spoken and written of during the last few years, applies with no greater aptness to any other branch of Canadian agri-
culture than to the production of bacon hogs. Within the last decade, enormous strides have been
made in export of hog meats. There was exported made in export of hog meats. There was exported years ending June 30th

1890
\$645,360
\$10,473,211
-an increase of $\$ 9,82,851$, or over 1,638 per cent., in
nine years. $\quad$ Nor has the growth of trade been spasmodic, but of gradual development, brought about by the creation of its own demand, which could not have been without the co-operation of hog raisers, feeders and packers, in producing what
the markets demand the markets demand. Ft is true that when the proper type and weights, but the trouble in this direction is finding its own cure in the packers grading as they do the prices according quality. The Canadian farmer is a business man, not 'slow to make changes that will result in greater
profits in his business, but he is not the one to pro. profits in his business, but he is not the one to pro-
duce a more expensive product unless he gets a corresponding higher price for it. While earnest attention is being given to the production of the higher type of hog, we believe more deliberate
consideration and experiment are devoted to the consideration and experiment are devoted to the questions of cheaper foods, and more appropriate
combinations of these. Along with the feeding of combinations of these. Along with the feeding of
the hog is very closely associated his housing and the hog is very closely associated his housing and
yarding, which at the season of the year just upon yarding, which at the season of the year just upon
us requires more attention than during the months that are past; in fact, the feeding and the care of fall and winter litters is about the most troublesome problem met with on the average hog-breeding farm to-day.
In order to get for our readers the best possible
information upon this and other important
branches of hog-raising, we secured from lead branches of hog-raising, we secured from leading Candian packing houses the names of farmers Who supply them regularly with considerable from objectionable features to the high-class trade. A number of these men have been heard from and their letters appear in the Stock Department of this issue, and will bear careful study. We are not
surprised to notice the prominence given to the use surprised to notice the prominence given to the use of succulent and vegetable foods other than grain,
also to the necessity for liberal also to the necessity for liberal exercise, especially for all breeding animals, and growing stock up to
the finishing period and to the deferring of wan the finishing period and to the deferring of wean-
ing the litters until they are well started in ife It will be noticed that all the breeders do not agree on some of the essential points, as, for instance, one writer, hailing from Wellington Co., recommends weaning at four weeks old and excluding roots and other coarse foods from the rations. It has occurred to us that if this writer sells 200-ppund pigs, as he claims, at six months old, either his son
or hired man manages their feeding and or hired man manages their feeding and care, and
does not report fully the methods employed. The real value of succulent employed
not be measured by simple gains in weights of pigs given such food. Undoubtedly, where animals are confined to a pure grain diet, the digestive tract is
more torpid and sickness is more likely to occur more torpid and sickness is more likely to occur
than when succulent food is given. Then, the digestive organs are more active and natural in disease than when pure grain food is fed. The in ance of this succulent food on sows in pis innce of this succulent food on sows in pig or

a generous milk flow and vigorous offspring. Pigs
that are to be fattened in a short period of that are to be fattened in a short period of feeding
do not perhaps need roots in their diet, though no do not perhaps need roots in their diet, though no
doubt it would be to their advantage, but breeding stock, both male and female, and suckling sows, will certainly be materially benefited by summer In
quotes at work on "Feeds and Feeding," Henry ing experiments on pigs. In reference to the use of roots: In comparing mangels and grain, all the lots received skim milk or whey in addition to grain and roots, excepting two lots to which an shown that ten pounds of mangels more than equal and eight pounds about equal one pound of grain in trials. The quality of the pork produced by the different lots was very satisfactory. Even where one-fourth the daily feed was given in the form of mangels no ill effect was noted.
The preparation of foods is shown by the writers grains, which we are persuaded is of mixe importance than is generally supposed, making better-balanced ration and promoting health and growth of bone and muscle. Fine grind ing is favored, a number recommend soaking the chop for some time before feeding, and in one or two cases it is recommended to administer the feed in a warm condition. The methods of according to the practices of these men. Whole mangels are quite in favor, especially for a noon feed, but one writer estimates them as valuable more as an appetizer than a food.
It is remarkable to notice that grades or crosse are generally recommended, rather than purebreds. This may be accounted for by the fact that pure-bred sows of good type generally cost more money than grades. . 1 at a worth sire is evident Berkshire and Chester White have their admirers and it is important that only pure-bred sires be
The matter of hog-pen floors and walls is of no small moment, especially for winter quarters. as it seems to depend a good deal on these that the animals escape rheumatism and coughs. The wooden wals, lumber, are generaly preferred, and a liberal use had no trouble from rheumatism or otherailmentsin his pigs, allows them the run of a manure shed once a day for exercise.
While very little is said regarding the use of such condiments as sulphur, charcoal, salt, etc., we notice most of the writers recommend them in practice, someof them beingmixed with the feed and
others left where the hogs can help themselves is evident these products have a place in pig feeding is evident these products aive aplace in piteeding the food, except perhaps charcoal (of which an excess can do no harm), as their virture undoubtedly lies in their corrective influence. This being the case, the pig should be allowed his own discretion in their use, since it is the needs of the system that prompt the craving for them, while a
liable to derange the digestive organism
Not in this issue, but in that for July 2nd, 1900 , it will be remembered important evidence is given by Mr. E. D. Tillson on the subject of raising winter
litters. After building a first-class new brick piggery iter building a first-class new brick the place warm, dry, well lighted and ventilated, it was found that even in this seemingly model careful management as to feeding, etc. This led to the use of small eight-by-eight feet outdoor pens in yards about fifty feet square. The sow and pigs are put into these when the youngsters are about three weeks old, and allowed free access to pen and
yard as desired. In cold weather a canvas covering is hung over the entrance of the pen to allow the wind. Here the out and stil excluad the cold wrow rapidy the pigs keep healthy, thrive and something very uncommon haver dying except it is probable that certain readers have disovere other special or unusual methods of preventing winter loss or unthriftiness in winter or late fall litters, and we hope to hear of these and other precautions, not only to avoid loss, but to promote rapid gains and greater profits in producing hog products markets of the world

## Economy in Feeding.

The disposition to defer the day of commencing to draw on the winter store of provender is common nothingmers. While it is well to be careful that on one hand and wasteful on the other be sith the result that the balance is against us. If the late fall months are favorable to the growth of grass, and the weather mild, as has been the case in most sections of Canada this year, there is, as a rule,
littlen little need of supplementing the pastures by a call on the winter stores, except in the case of milking cool weather, and the consemuent relief from the plague of flies which torture animals in summer, is in favor of the stock, and as long as the fields afford a fair bite of grass they may do well; but it should be remembered that young grass which tive qualities of June grass, and when touched by frost it is still less nutritious, so that if it is desired oo hold the flesh and condition that has been gained, there may be, and generally is, true economy in commencing to feed a little fodder before winter in eal earnest sets in. Even access to a stack of critical period between late autumn conditions the winter feeding, and animals, knowing instinctively the need of more substantial food than they can find in the fields, will help themselves to dry fodder $f$ it is at all palatable and within their reach. riking stock, of course, should be stabled at night when frost and cold weather comes, and fed a half ot be allowed to lose weight, which beef should regained by more expensive feeding only be When hay is scarce, as is the casè in many districts this year, the temptation is strong to put off the period of winter feeding longer than would otherwise be done. In this case, if a supply of ensilage or of cured cornstalks has been provided, the contin. gency is well met; but where such wise provision has of the straw and chaff in the barns as abstitute To our mind, it is a good plan, where it is feasible when threshing, to save the chaff separate from the straw, for early winter feeding, as any meal that is fed to cattle in the stables will give much better results if given in combination with chaff, cut traw or cut-corn fodder or ensilage, by reason of its being eaten slowly, masticated thoroughly, well gestion. One of the advantages of saving the chaff is that it comes handy for early feeding before winter work has set in and while the means for cutting straw may not be convenient or the time of all the hands may be taken up with outdoor work on the farm. Even where ensilage is provided, on which to feed any meal that is given, there is economy and profit in feeding it in combination balanced ration and at the same time utilizing a arge amount of rough fodder often having much more nutriment in it than it is commonly credited with, and which may be rendered palatable by mixing it with the ensilage a few hours before feedingitime, the straw being softened by the juices

THE $\mathbb{F}$ ARMER'S ADVOCATE $\begin{aligned} & \text { learn. The time has quite come when farmers, in } \\ & \text { order to make the most of the means within their }\end{aligned}$
and Home Magazine.
the leading agricultural journal in the dominion

THE WRM-момthly by

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Li sent. Your name
HME Ot

(tion is paid. failing to receive their paper promptly and 11. No ANON
12. LETTERS
LETM
13. WE the paper only INVIT FARMERS to w


 with this paper shond in beterence add dered ac
individual connected with the paper. the wiluthe, or London, Canad
of the ensilage, and, becoming slightly heated, the which may be improved by the addition of pulped roots. If the farm buildings are only moderately conveniently arranged, this preparation of the feed can be carried out with no great expenditure of time or labor, and will pay well for the doing. By
thus utilizing straw, which if early cut and well saved is not to be despised as feed, hay may often be sold to advantage, and, if need be, the proceeds profitably invested in bran, oats or other grain or in corn or oil cake. When, for instance, the market it is well worth considering whether a ton of hay may not be saved by substituting straw to some
extent as part of the feeding ration and investing its value in bran and oats or corn, and thus securing a better-balanced and more nutritive ration and one better calculated to give profitable returns from milking cows or by building up the frame and flesh in the case of young stock of any class. The possible objection that cutting straw invol ves a considerable met by the reminder that the power needed for this purpose may be utilized for several other uses as well, but where one objects to the outlay for the requisite machinery, the necessary outfit may times during the winter to cut all of this sort of feed that is ne ded and do considerable grinding of
grain besides. Thanks the revelations of scientific grain besides. Thanks th therevelations of scientific
investigation, thrown upon the sulject of the inteligent and coonomical feeding of live stock, and it is safe to i.lnin
reach, must study the science of their business which simply means seek to know more about the principles which govern and influence the grow which their income depends, and we are quite sure that the intelligent application of the knowledge thus gained will satisfy them that it pays to mix the meals of farm stock not only with fodder, but also with or by the use of brains.

The Argentine Opportunity.
With the ports of this country closed to importations from the United Kingdom, the attention of doubtless directed to this as a market for pure-bred stock, and it will be matter for surprise if they let such an opportunity escape them. Australian cattle ought to do well here, and the process of acclimatization should be an easier one than from the colder climates of the north. Californian Merinos too should have the same advantage, while duce an animal hard indeed to beat."- Review of

## River Plate.

## Dr. Saunders at the Paris Exhibition

 Dr. Wm. Saunders, Director of the Dominion Experimental Farms, Ottawa, who has been visit ing the Paris Exhibition in connection with hisofficial duties as one of the conimissioners for the ofticial duties as one of the conmisssioners for the
exhibition, has returned home. The special work assigned him was the bringing together of speci-
mens of the agricultural and fruit products of the mens of the agricultural and fruit products of the
Dominion. During his absence he has also spent some time in other parts of France and Gireat Britain, inquiring into the progress of agriculture
and horticulture in these countries, and has visited and horticulture in these countries, and has visited ment stations in both countries as was practicable. He expresses himself as much pleased with the ex-
cellent display made by Canada at the Paris Ex. cellent display made by Canada at the Paris Ex-
position, particularly in agricultural products and position, particularly in agricultural products and
fruit. The exhibits of grain were quite imposing, and had been most artistically arranged by Mr. visited Paris early in the year for that purpose. The agricultural products of the Dominion are
shown in provincial groups, by a series of trophies; shown in provincial groups, by a series of trophies; also, very effectively, in a general way by a grand
central trophy, placed in the middie of the first centr of the Canadian court. This central the fhy is
hals
built up with a large series of glass containers of difbuilt up with a large series of glass containers of dif-
ferent sizes, showing excellent samples of clean grain from all the principal grain-growing districts in Canada, including a most excellent display from the Experimental Farms. With these were associthe straw, also representing the many grainthe straw, also representing the many grain-
producing sections of the Dominion. This important part of the exhibit attracted much attention The fruit display, a part of
Canadian Pavilion, and the other and larger part in the Horticultural Hall, has been the subject of most 1,200 glass jars of pears, apples, plums, peaches, cherries, and small fruits, which were put up in antiseptic fluids, has been a great success. The a very large extent, its natural appearance, and has been a source of constant wonder to visitors. That such magnificent specimens of fruit could be
grown in Canada, many could scarcely credit. The exhibit, however, speaks for itself, and was a constant advertisment to the genial character of our
summer climate and the capabilities of the to produce fruits of the finest and most luscious quality.
The
The show of fresh fruit, including a large variety 1899, was continued all through the summer and of to the close of the exhibition, and a wakened much interest. This constant exhibit was made possible by the cold storage arrangements perfected under
the direction of the Hon. Sydney Fisher, Minister of Agriculture, by Prof. J. W. Robertson. This Cold-storage plant, which was placed under the Canadian building, worked admirably and rendered more perishable of the food products brought together hy Prof. Robertson, of which there was an
admirable exhibit, but also rendered possible the preservation, in perfect condition, of the fine dis-
nlay of fresh fruit bronght together by Dr.
tainders. The crispness, juicine Saunders. The crispness, juiciness and high havor of these fruits, shown so long past their normal
season, deserved and received the most favorable
The arrangement of the fruits, fresh and preserved, in the Horticultural Hall, which was made
hy Mr. Robt. Hanilton, of (iremville. assisted hy
Nr. Hay, was moit effectiver Mr. Hay, was most effective and to the assiduons
attentiongiven to this collection by Mr. Hamion
 may be attributed. The specimenson oxhilition
were examined from day to day by these rentlo.

heated atmosphere, fresh specimens were brough At the time of Dr. Saunders' first arrival in Pari our best winter apples were represented by 18 eties, all in good condition. When he was leaving,
however, on the 6th of October, the number howeever, on the 6 th of October, the number of
varieties shown was reduced to 8 or 9 sorts. Prio to this, on October 4th, the large collection of
fresh fruits made under instruction of the Min ister of Agriculture, in different parts of the in Paris. - Those came in splendid the help of a second supply, since recelived, will nsure a large and varied exhibit of Canadian fruits o the close of the exhibition. lately arrived in Paris to assist especially ino has noting the fruit trade, had, before Dr. Saunders dealers in Great Britain and different parts Europe, and was, negotiating further business in whis direction. A careful study of the conditions in Exposition, under different methods of packing has been'made by Dr. Saunders, and he hopes to be able fo put the information gained to practical value in

The more important food products of Canada, of Which a large collection was brought together by fter by Mr. W. A. Mackinnon, of the Commission er's branch of the Department of Agriculture, who as rendered very efficient service. have been ably looked after by the Director of the Geological Survey, Dr. Geo. M. Dawson, as shown in the magnificent collection displayed in the most convincing proof of the great extent and varied character of the mineral resources of Canada, which must be highly beneficial to this country.
Our fishery products and the attractions to sportsmen by the variety of game in different parts of this country, were ably shown in the fine display arranged at the entrance of the Canadian Gourdeau. In this connection, Mr. Andrew Halkett of the Department of Marine and Fisheries, has,
under Col. Gourdeau's guidance, rendered very thder Col. (iourdeau's guidance, rendered very
efficient service. The collection of forest products shown in the
large building devoted to this purpose, in which al our more important woods areillustrated by both the encomiums. These have been brought together mainly by the persevering efforts of Mr. James M. acoun, of the Geological survey, and have been This collection has awakened much interest in our timber poductions, and from the many inquiries Which have been made, it is believed that, as a
result of this display, new openings will he made in rosunection with the trade of Canada in timber.
To the Commissions To the Commissioners who have succeeded in bringing together the excellent display of Canadian
manufactured goods, much credit is also due for the energy and good judgment they have brough to bear on this work, and for the tasteful manner in which the exhibits have been arranged. Congress of Pomologists and the Congress the Botanists. He also visited Ussy, in Normandy, great center for the growing of forest and orna-
mental trees and shrubs, for the purpose of gaining information on this branch of industry, and also, at the same time, selecting a supply, for the Ottawa Improvement Commission, of young stock for
planting on the boulevards which are being laid out in connection with the new drives now under construction in that city. A fine selection has
been made. consisting of over 20,000 trees and shrubs suitable for this purpose, including evergreens and deciduous sorts, which will be for Brittany for the purpose of studying the results the drifting sands of the seashore in that part of France, and some useful lessons learned. Some of he caves in the outlying parts of Paris were also
visited, where mushrooms are extensively grown. While in England, Scotland and Wales, many o the stations where experimental work in connec-
tion with agriculture is conducted, were risited hy the Director, and the progress made in this arrection noted. The meetings of the British
Association, held at Bradford, England, early in Septemher, werealso attended. whereopportunities rere afforded of explaining the nature and prog in England and from among the exhibits of foreign Countries at the Paris Exposition, for test in Canada. Many new sorts of trees, shrubs and
mants have also been obtained for trial at the
Experimental

## Pleased with the Watch

Mr. F. E Pollard, Leeds Co.. Ont., writes:-"My and wished the No. 4 watch from you on Oct. 24 th. better then thank you for same. He thinks it with it and ie expected, and is very much pleased

## STOCK.

## Our Scottish Letter.

The past few weeks have been phenomenal ones
the live-stock world. We have got clear rid of in the live-stock world. We have got clear rid of
all suspicion of foot and mouth disease, and the
Board of Agriculture has climbed down from untenable position with as good a grace as possible. The whole country is declared free of the scourge, and we are breathing freely once more. Here in
Glasgow we have also got rid of the bubonic plague scare, and as with foot and mouth further north, there is a general feeling that a deal too
much was made of the business. If it does nothing else, the scare has succeeded in drawing attention to the evils of "wakes," and this is a decided gain.
There is something heathenish about wakes, and There is something heathenish about wakes, and
hardly any means better fitted to spread disease hardly any means better fitted to spread disease
could be imatined. Another plague or "scare" in the shape of a general election has also been got
o over, and the country again breathes freely. - over, and the country again breathes freely.
Agricultural topics have not bulked largely this they will at least know that they asked for little. The main features of the past three weeks in these things, but the autumn series
shorthorn sales.
Nothing to equal these have ever before been seen
in Scotland, and extraordinary averages for bull calves have been made by Mr. Duthie, Collynie,
and Mr. Marr, Uppermill. The attendane series of sales conducted by Mr. Fraser, of Macdonald, Fraser \& Co. (Lttd.), has been very large, visitors being present from the United States and
Canada, as well as from all parts of the United Kingdom. The bull calves were scarcer than usual
this year, and possibly this was one reason for the this year, and possibly this was one reason for the
extraordinary prices made by them. I do not possibly it is a mistake to say that they were the best lot ever offered from the two great sityood at the present day. In England there is the famous Bapton
Manor herd, and as long as it exists the laurels for Sittyton will not all go north. Mr. Duthie had an average of
$£ 150 \mathrm{~S}_{\mathrm{S}}$. 6. for 19 bull calves, and Mr.
Marr got $£ 1263 \mathrm{~s}$. Marr got $£ 1263 \mathrm{~s} .2 \mathrm{2d}$. for 13 , the average
overhead for the 32 sold on that one overhead for the 32 sold on that one
day being $£ 40$ bs. . 8 . apiece. No such
trade was ever bef. trade was ever before recorded even in
the palmiest days of the Shorthorn craze, and yet, although Sittyton deobserved that the most successful sire was not a pure Sittyton, but an Inver-
quhomery bull, named Silver Plate quhomery bull, named Silver Plate
756333 , whose breeding is Sittyton with an outcross of Bates, The foundation of the late Mr. Bruce's famous herd was a pair of large-framed English Short-
horn heifers, and all through its honorable history the late Mr. Bruce endeavored to maintain the traditions con-
Aected with this foundation The result Mected with this foundation. The result
was seen in the greater style and gaiety of the Inverquhomery stock, and many considered that the herd there contained the best lot of cows in Aberdeen-
shire, Sittyton included. Silver Plate shire, white bull, now owned by Mr. Deane Willis, who has the Bapton Manor
herd, and the four calves after him, herd, and the four calves after him,
sold at Collynie the other day, made
the extraordina sold at Collynie the other day, made
the extraordinary average of $£ 27113$ s. 9 . One
of them. Silver Mist, a roan. made t:315, and I believe goes to Canadil. Another, Silver
Bell, made £28.3 10s., and went to Mr. Harrison, (Gamford, Darlington. This was regarded as the best calf in the sale, but as he was sold early make the highest price. This. however, was made by another son of Silver Plate, named Violet
Victor, also a roan, for which Mr. P. L. Mills, Ruddington, paid £.372 15s. Another capital sire is For him Mr. Duthie paid 200) gs. as a calf at Inverness in 1899 , and four of his gets made an average
of $£ 117$ apiece. The greatest number of calves sold by any one sire was seven : these were from Mr.
Marris herd and were got by the good old bull, Winderer. These made $£ 112$ 19s. apiece. The by Mr. Jolliffe, from Stratford-on-Avon, for Primrose Pride, a fine young bull by the great
champion, Pride of Morning. owned by Mr. Duthie. The highest price made by Mr. Marr calves was
f:211 10s., paid by Mr. Ward, from Ohio, for Spicy The second days sale was held at Newtorn, when
ditts weredisposed of from three noted herds. those ditts weredisposed of from three noted herds. those mil, and Mr. Graham Stirling, of Strowan, in Perth with has bry-one head from Mr. Gordon's herd, wisch has bred several champions in recent years,
II $1+ \pm 48$ s. apiece, and theaverage priceof two two H- $£ 48$ s. apiece, and the averageprice of two two-
 ars and fifteen bull calves. The average price Wese was £2.3 7s. Td., a figure more within the



Oyster 110331, two years old, made 332 g gs. - that
 Scotland, where he will henceforth travel. A number of very fine Clydesdale geldings, were sold,
nid the averaze price of nine matured working and the averaye price of nine matured working horses-sold for £215 5s. On the day succeeding the Acomb, on Tyneside, when 10Clydesdalemaresmade an average of £59 +s. 4d., and two three-year-old
fillies went at $£ .96$ 6s. 6d. At the ordinary auctioneers' autumn sales there has been good trade in Clydesdales, and generally th
munerative business these times.
The greatdairy produce shows are over, and at the Kilmarnock cheese show the championship went to while at London, in open competition against ali England, the first place was taken by Mr. Hugh Hunter, Mosshog, Ayrshire, whose prize cheese sold
at 1s. per pound.

The pig has the reputation of being able to produce a greater weight of meat and in a shorter time from a certain quantity of food than any of our other farm animals. As illustrative of this, it may be mentioned that while a well-fed, comfortably quartered pig will increase in weight at the rate of 1 pound for every \% or 6 pounds of dry food which 1.) or 18 pounds of dry food depending on the materials used in order to produce the same weight of meat.
ing, an
and fe
noon. chopped chopped grain.
4th.-All soaked at least twelve hours before being fed. An hogs do not relish all one kind of grain, it is well and oats is preferable for fattening horey, peas for brood shorts may be used to greater advantage 5th.-We find the Tamworth takes the market as well as any breed which we haversire makes a yery commendable pig for packer and feeder. 6th.-As a rule, we shut in our hogs at the age of four months, and feed then gradually increase the feed. Hogs fed with a good ration of grain twice a day and roots once should weigh from two hundred to two 7th - As a dry wall is certainly preferable in a hog pen, we would recommend frame or cement. plenty of clean straw for bedding. The pigs should be turned into the barnyard at least once or twice a week for exercise. As it is very necessary to keep a hog pen clean, it is advisable to throw a shovelmo of slacked lime As regards crosses, use only the first cross. Another very important point is "black teeth." At the age ox oryled. By neglecting them, a whole litter may be stunted or lost
Wellington Co.

MUSIC in PIG-Feeding.
SIr, - A sow will do very well fed on roots, but not fat. With plenty of exercise up to within a few days or a week of farrowing, she should then be put into the pen she is to use, which should be
light, comfortably warm and dry. A liberal bedlingt, comfraw should be given her, and no more
added until a week or so after farrowing. For the added until a week or so after farrowing. For the very thin, lukewarm slop, and lightly for a few
days, until she is getting all she will eat up clean three times a day
Wean at from seven to eight weeks old, when her in beside them three or four times after wean ing, for her sake as well as theirs. I think shorts is the best feed for young pigs; but one feed per day might be corn, fed in the ear, with a few mangels sliced. But to avoid stunting, and give I prefer mangetites, feed whoule, if to large hogs;
sliced, if to small pigs: but regard them sliced, if to small, pigs; but regard them more profitable as an appetizer than as a regular feed.
I usually give the noon feed of corn in the ear, and, not having grown either peas or barley, I f feed measure. The feed is soaked in a small concrete depth, from morning till night, and vice versa the tank is in the passage, and, being underground, it $s$ out of the way, and the feed never freezes.
with Tamworth boars, with very satisfactory results.
I am satisfied if the hogs
200 lbs. at eight months old.
My. at eight months old. with concrete floors and plank sleeping beds laid directly on the concrete. Good ventilation into
loft above is an important point. The pens are only $10 \times 11$ feet, accommodating from eight to ten hogs; but they are let outdoors or into a large manure shed for exercise every day. Use wheat straw for bedding, and after exercise the pigs lie
quite clean and dry. In this connection, I might add that I think it safer not to feed too heavy; let the pigs be always ready for their feed at meal time, not too noisy, but musical. I have had no trouble
I find a weigh scale very useful in fattening hogs. First, in order to note gains; second, to find out when they are ready to go; and third, to know
what they weigh on the morning they are delivered. Middlesex Co., Ont.

## Wean at seven or eight weeks old

To the Editor Farmiris Advocate
SIR :-1st.-I think that a sow should have plenty of exercise; and while the pigs are running with
her, bran and shorts is the best food ; and after little grain.
2nd.-I would let the pigs run with the sow until they are six or eight weeks old. I would bran and shorts stirred into it; and then when they
are weaned they go right ahead and do not miss the are weaned they go rig
mother but very little.
3rd.-I have never fed any ensilage nor clover hay; but I do like the sugar be
4th.- I prefer ground peas and bran or shorts
for grain feeding. I would have it soaked and for grain feeding. I would have it soaked and soured, and we have now a litter that are crossed, the mother being half Chester White and half Berk. and the hog a Poland-China, and they have done
the best that we have ever had. We are going the best that we have ever had. We are going to
try the Tamworth and Berk. crossed ; we think that they are still a better cross of pigg.
packers require under eight months, and most of packers require under eight months, and most of
the fattening is done in the last two months. We keep our hogs growing well and in good flesh until they are about six months old, and then we try to
shove them as fast as we can. They usually weigh shove them as to 215 pounds.
mine are matched that wooden walls are the best; then lined with inch lumber on the studding our exercise space is sixtzen by twenty-four feet. I
think that it is immaterial as to the kind of straw for bedding so long as they have plenty of it and are kept dry. They do not want to sleep in damp sth.- We feed ashes, charcoal, sulphur, and salt.
We feed the sulphur in the swill, and the ashes, chareoal and salt dry

> Two hundred rounds at
> SIR:-1st.-The thet teatment for sows after
farrowing in fall and wion to keep in a moderately warm pen, not too monstraw: feed on oat and. The best age to wean faltand winterlitters
to avoid stunting is as soon as they win and drink, say about four weeks.
3rd. The most profitable
> 3rd. The most profitable way to feed pigs in
winter is not to keep more than there is good
accommodation for, and feed the best kind of feed accommodation for

## 4th.-The grain preferred to feed profitably is chopped barley until about four or five months old ;

 chopped barley until about four or five months old ;finish on dry peas.
5th.-The kind of pigs preferred for the packingfinish on dry peas.
5th.-The kind of pigs preferred for the packing-
house, and for profit, is the York. or Berk. sow crossed with the Tam. boar.
6th.-In case I should buy
to fatten as soon as taken off the sow ; make them weigh 200 at six months old.
7th.- In order to fatten pigs in winter, shut up in small pens, not more than four in a pen, better plank floor and wooden walls preferred; lots of pea straw to lie on
8th.-Charcoal, ashes, sulphur and salt are all
sery good. very good.
Wellingt [Note.- What do readers think of this? See
impossible to feed pigs profitably on

## grain alone.

Sir, - I may say I deal largely in hogs. I sold last year $\$ 1,125$ worth, and have sold already this year $\$ 665$. This amount of hogs can easily be
raised if you keep a lot of cows; but I have only seven; and there is nothing takes the place of milk. This one thing I will say, that it is impossible to raise hogs at a profit on grain alone, but it can be summer and roots in winter.
1st.-A sow should have abundant exercise should not be penned up. If on pasture, she should tion. If in winter, she should have roots, and after farrowing do not give any grain without scalding. Boiled roots of any kind mixed with shorts or oatmeat you may pive stronger feed barley or pea meal. To avoid any stunt, the feed should be scalded, and, please nnderstand, the shorts or meal should be mixed wh the boiled roots.
2nd.-Wean at six to seven weeks. Shorts is stunting. Mix with skim milk, if you have it, but if not, it should be mixed with boiled roots, a few peas or a little corn once a day, say one quart to
six or seven for a start. Be careful not to overfeed, six or seven for
3rd.-I never used clover or ensilage: this is, I understand, for store hogs. I prefer sugar beets or grain.
4th.- As to what kind of grain, I do not know
how to answer. Looking at it in an all-round way of course peas are best; but when you take int consideration that, as a rule, we can only grow in can grow 45 to 60 bushels of barley or 100 or more of corn in the cob, we must leave peas out of the question. Think it all depends on how you feed then mix it with boiled roots; I prefer turnips. If you want the hog to grow, use less meal and more fatten, feed less turnips and more meal.
boar.
6th.
6th.- Begin to fatten at six or seven months, as to be ready when eight or nine months old.
7th.- Walls should be double boarded, with paper between, on concrete fourdation. I prefer for sleeping laid on the cement. Keep 10 hogs in 12 feet square, as the space in a good hog pen is
valuable. Then, I have a yard outside to let them valuable. Then, I have a yard outside to let them 8th.-I throw the charcoal in the pen, all they want, and put t
never use sods.
The most money in hogs, to my mind, is in Wintering them and turning them out to grass in
the spring at say about 60 to 75 lbs ., and with a little corn or peas they will reach 200 lbs. by August.
It's a mistake to feed corn in the cob: it should It's a mistake to feed corn in the cob; it should
first be shelled and then strewn around on the grass, so that they do not eat it too fast.
Elgin Co., Ont.

## wooden walls and plank floors PREFERRED.

To the Editor Farmer's advocate
Sir:-1st.-My experience in raising young hogs
in winter has not proved very successful. My mode is to have the pigs come in April and again in
October, two litters per year. In treating the farrow, I note that first lots of room for exercise is required, with pulped turnips and a little oat chop
for food. 2nd. feed shorts or middlings, not too strong. 3rd.- Thave had no experience in feeding clove
hay, ensilage or sugar beets. I have, however, fed hay, ensilage or sugar beets. I have, however, fed
turnips, mangels, and potatoes. I find most profit turnips, manges, and potatoes l find most profit
and less labor in feeding the two former
pulped, mixed, of course, with a small quantity of grain. 4 th.- In the feeding of grain, 1 use a mixture of oath, peas and barley chopped, rakulated in accord-
ance with the age and constitution of the hogs. Feed dry, giving plenty of water to drink.
כth.-The breed I prefer int

6th.- I begin to fatten at five months, ready fo packer at seven months.
wheat-straw bedding. Again I say lots of rlank floon exercise.
8th. $-I$
salt. Throw the coal in feed and the others and themselves to be used at their pleasure that frequent sprinkling of wood ashes on the backs of the hogs will keep the skin clean and clear o
C. W Wellington Co., Ont.

## STONE PIGPENS CONDEMNED

Before trying to answer the questions, I will cold. I would never build another stone pen very think a pen double boarded, with tar paper b tween, much warmer and drier. I allow my sow before farrowing, when I shut her in to week quainted. She has to be housed in the cattle stables for farrowing in winter. I feed root until she is shut up, then barley chop, not too six weeks old. I think if you can keep them warm and dry, that is half the battle, with plenty of exercise. Six months is long enough to feed pigs
so as to weigh from 180 to 200 pounds. I feed bit so as to weigh from 180 to 200 pounds. I feed barley
chop and slop until five months old; the last month chop and slop until five months old; the last month the Tamworth boar, both thoroughbred, most satis factory. I had a lot of trouble with pigs crippling
The floor is cedar blocks. I boarded the pen up to keep the pigs away from the stone wall, and raised
half the floor for them to sleep keep the pigs away from the stone wall, and raised more trouble. A pen 12 feet square gives room
enough for 8 or 10 pigs. People differ about how enough for 8 or 10 pigs. People differ about how
much space they should
have. Some pigs won't much space they should have. Some pigs won't
take exercise if they have a field to run in. The
cross I am working with now don't need cross I am working with now don't need a very big place ; they gallop around the pen like blood colts. bits of roots in the root house in winter. This I gather occasionally and give to the pigs. That is all in the way of grit that they get, except when they are let out for exercise when the ground
is bare of snow.
Weo. Henderson. Wellington Co., Ont.

Word from England on Raising Fall Litters.
When fall pigs have been weaned, the critical season has come. The chief difficulty with autumn litters is found in tiding them over the growing period between weaning and fattening. If they go
wrong during this period the work cannot be made profitable, however good the price may be that is chief item of difficulty arises in the want of opportunity for exercise. Of course, they should have is so cold that they do not care to the weather much of the time. Because of this difficulty it will often happen that pigs will go off their feed in winter on a diet that would have answered
admirably for them in the summer while they were running in the pastures.
The Floor of the Pig House.-It is important The Floor of the Pig House.-It is important
that the floor of the pig house be properly made. If the pigs sleep on the floor underneath which the
air and wind has free access and bedding on this becomes damp, the pigs become rheumatic, no matter what the food given or the
nature of the care. Concrete floors are too cold. nature of the care. Concrete floors are too cold.
Plank floors well fastened will prove satisfactory. And it is very important that the pigs take exercise on the sunny side of the building.
The young pigs should be taught to take food Treely, by themsigs should be taught to take food lish dam. Skim milk will be necessary to accomplish this in good form at so early an age. And
here it may be mentioned that without the aid of litters, owing to the early season at which they have to be weaned. Because of this, and because of the great suitability of skim milk for producing growth in swine, the rearing of autumn litters may The food during the season of growth will be the same substantially as for spring litters. In lieu to, autumn litters should be fed field roots. Growth is wanted, and the food must be adapted accordingly. Therefore, oats, shorts and bran, with roots, will furnish the principal portion of the diet
before the fattening period. But as the latter period approaches, more of the carbonaceous foods, as rye, barley and corn, may be given,
gradually to the final finishing period.
difficulty with autumn litters is found in keeping them on their feet during the growing period. To prevent them from breaking down thus early, give
not only foods that are dargely nitrogenous, but also some foods that will keep the bowels in tone, such as a free supply of field roots, mangels or of oil cake. The great danger a small quantity of oil cake. The great danger arises from con-
stipation, and when skim milk is very freely fed, the danger from constipation is very freely the greater,
The droppings should, therefore, receive it careful

THE FARMER'S ADVOCATE
and constant scrutiny. When the animal becomes experiment it was found that it required about $4 \frac{1}{2}$
constipated, the secretions become inactive, then lhs. of barley when fed alope trent constipated, the secretions become inactive, then
some organ will speedily get out of tune. With
pigs at such a time the kidneys commonly first fail pigs at such a time the kidneys commonly first fail paralysis of the limbs. Some linseed oil given in will be found greatly preferable in every way no to have such difficulty arise. And here it may be aggravated by lack of proper ventilation greatly The food during the finishing period
onsist of such grains as corn, barley, rye, wheat


and peas, or a combination or an alternation of these
and one-third of the whole by weight should be
nitrogenous and nitrogenous, and composed of such foods as bran,
shorts or oats, alone or in combination. One half pound of oil meal should also be given per day to

## The Bacon Curer's Pig.

Having been watching for some time past the
markedimprovement which the efforts of the South of Ireland Bacon Curer's Pig Improvement Assothink I am in a position to know exactly what is the next step advisable.
Swine have been much improved, and to a great
extent we have got rid of the greyhound type so noticeable in the past; but we must not go too far in any one direction, and I think it is time to draw attention to the fact that in one point among the cardinal points of the best, class of swine we have
gone quite far enough. I refer to the depth of the sides. as necessary on account of the accompanying vigor carcass and had not room for healthy organs of respiration and digestion. Well, that shortcoming has been remedied now, and we must not run into the other extreme and thereby suffer in the pro-
duction of the highest possible percentage of the finest portion of the meat.
Irish pigs are now being bred rather of too great
depth of side, unnecessary from the point of view of constitution, etc., and wasteful as regards fine baccon production. The bacon trade, which, after
all, is the best customer the Irish pig-producer has, now wants less depth of side, as possessing a greater proportion of less waste in the cutting out Let us now begin to tuck up what we have a
little over-developed and keep what we have been so far able to keep-the cream of the bacon trade of he United Kingdom, which is at present in our
hands. Shortly, do not aim to have your pig quite so deep from the top of the shoulder to the breast,
and all will turn out satisfactorily. - A. W. Sharr, ind all will turn out sa

## Skim Milk as a Pig Food.

Immediately after young pigs are weaned there
ino better food for them than skim milk enriched with such grain foods as barley meal, oatmeal or insize meal, or, better still, a mixture of all three. As a food for pigs in general, milk possesses more it acquires special value when given to young pigs
at this stage of their existence. The animals are then in need of some food to make up for the loss eceived from their dams prior to the separation, and skim milk is a better substitute for this than any other class of food. As illustrative of the value
of skim milk as a food for pigs. $i t$ may be mentioned that in an experiment recently carried out in the states it was found that while it required on an
a cerage about $3 \frac{1}{2} 1$ bs. of a mixture consisting of


experiment it was found that it required about $4 \frac{1}{2}$
lbs. of barley when fed alone to produce 1 lb of
pork, while only 3.1 lbs . of the same food were required to produce 1 lb . of porl when food were quart of skim milk. These experiments, like others carried out elsewhere, afford conclusive proof o
the great value of skim milk as a food for pigs.

Feeding Pigs on Sweet and Sour Milk England) University College has been carrying out pigs. Ten piis of the Yarkshire separated milk fo of the one litter and nineteem weeks old, were
divided into two lots of five each divided into two lots of five each. Both lots were so evenly matched that the difference in their tota experiment extended over a period of pounds. Th weeks, and all through the animals received the cipally corn meal), but the separated milk given to lot 1 was allowed to become sour before being fed while lot 2 received sweet separated milk. At the pigs in lot 1 weighed 700 pounds, while those in lot 2 scaled 704 pounds. The experiment came to close on November 21st, on which date the weigh of the pigs in the two lots had increased to 1,407 were killed on the conclusion of the Both lot and sold for 8 s. 9 d . per 20 pounds. The dressed
weight of lot 1 was 1,020 pounds, which, at 8 s. 9 d weight of lot 1 was 1,020 pounds, which, at 8 s . 9 d .
produced $£ 226 \mathrm{~s}$. 3d., while lot 2 weighed exactly 20 pounds more, so that the cash difference in inctly must be deducted 1 s .9 d ., the estimated value of the 4 pounds extra weight of lot 2 at the commence favor of the use of sweet separated milk. The butcher's report was that both lots were of equally
good quality. It would seem, therefore, from this good quality. It would seem, therefore, from this milk is not increased by souring, but that, if any-

Misjudging at the Fairs --- The Way Out. Dear Sir,-I read with
DEAR SIR,-I read with much interest your able "Judging at the Fairs"; unfortunately, such com ments seem in order after every fair.
In order to have, if possible, more competent judges, the different breeders' associations have the difficulty that really jood judges are mighty scarce, and those that might be considered as the most capable are not available, being engaged in
showing their own herds ; and other large breeders that have been very successful as breeders-conse quently apt to be good and experienced judgesthe possible exhibitors-they would thus me ine of the possible in some of the stock on exhibition. So that
ested associations, in recommending judges, have to fall back upon a second or third class breeder or an such are not likely to make good judges because their want of success in their own case is quite ikely for want of good judgment.
things to have the judges give their reasons for the awards they make. This would, no doubt, bring to the front talkers instead of practical judges. We years ago. After the judge made a particularly yad mess of placing the awards in the ring, he was in the stables amongst the breeders the same evening, and the "boys," to have a bit of sport, got him
talking, and led out some cattle in the passage to have him show them just how to judge. I don't think it dawned upon that judge that the breeders
were making fun of him. Most of his listeners were more experienced breeders and better judges
than he was. The judge was seemingly much pleased to has. himself talk, and, judging by the laughter that followed after the judge departed,
the breeders were mightily amused, hut the breeders were mightily amused, but I can't say I agree that there is great need for more compe-
tent judges; and much better could be done by a tent judges; and much better could be done by a made cattle a life study. But taking the judging
of dairy stock: No man can tell within five or ten of
pounds of what a cow will give. and some judges
we have had don't appear to estimate within forty we have had don't appear to estimate within forty
pounds. We then see just where a judge's difipounds. We then see just where a judge's diffi-
culty comes in, because he is there not only to judge cows whose capacity is within five pounds of each other, but it often happens that there may not I don't say this is a reason that a judge should and give the prize to the poorest cow in the ring because he can't tell which is the better of two or more good ones, as sometimes happens. Take, for In the milk test, one cow was only $1,5 \mathrm{lb}$. of total
solids behind another, yet the scales. Babcock and lactometer showed which was the better. Well, how about the judge This cow that was 2nd in
the milk test, also the cow that was 3 rd, did not get a place in the ring. But the same cow the following week at London was awarded 1st prize in
the ring, and the cow that won 2nd at Toronto got
nothing at London, a stable companion heing at Toronto. Here we have one mistake nothing
metified ut another made. And did space permit, a multiof what good is such public? We may "cuss" the judges, but they are not so men oossible, then they they will undertake cism of breeders, the public, and reporters.

There is only one rational way of judging dairy ows, and that is by the scales, "kick coming," because we can get at the exact year-oldy of an in-milk cows, 3 -year-olds, and 2 in milk (being really from 22 to 24 months old). the most important classes can be so judged by their works, and with practical dairymen "handsome is whether the cows are in by what is known as the "Ohio Method "at their home at any time during the year. A description the pen of J. McLain Smith, a breeder of out, from I append:
Experiment Station butter test conducted by the Ohio Agricultural Board is ir the aspies of the State Agricultural Board, is increasing in popularity. of the owner, at any time, but the rules require, for prize, that the cows shall be shown at the succeedthe leading breeds, but none so far, I think have been entered except Holsteins, Jerseys, and Red Polls. In addition to the breed prizes, there is a the best herd of five cows owned by one person and tested at one time. All the prizes named above are double-that is, for largest yield of fat and largest is determined by score - thirty points for which pound of fat, six points for each pound of other solids.
"This year there were sixty-seven entries-fifty-
ht Holstein-Friesians, six Jerseys, and three eight Holstein-Friesians, six Jerseys, and three
Red Polls. As stated, these do not compete together, except in the champion class, but all are tested in the same way and under similar condiIn this comparison, the Holsteins eclipse all rivals, as they have done in this test for some years past The largest yield of fat was 2.57 pounds from 70.1 largest yield of solids not fat was 6.58 pounds from 80 pounds of milk, by Payne's Lady Dervies. The Holsteins with fifty-eight entries have a better other breeds represented by six and three the tively. A much fairer basis of comparison is the Holsteins yield of all the entries. On this basis, the Holsteins still lead, but are not so entirely out of Whilst judging by actual test does just
ontesting cows, yet it has its effect upon the devel opment of dairy stock; that, to my mind, is it trongest point. We have an instance of wha record-making has done in developing speed in
trotting stock. Nobody would think of judging trotters or racers by putting up a judge to look
them over, and no such speed would have been

gROVE RINGMASTER |29\%.

Ieveloped hy such a system of judging. But therr is more reason why datity stowk should be juaged
 are also desirable. But in the case of dairy cows their sole and only value with practical dairymen
is for what they can produce. It is the "record" the value on dairy stock.

The Breed Shows and Sales.
The success of the combined show and sales of month, in point of entries and prices, appears to have been all that could reasonably be expected. There were strong inducements, in the form of
large prizes and lots of them, to bring out a large prizes and lots of them, to bring out a the reports published, it was the greatest exhibition of cattle of the red, white and roans, and white
faces, that has been seen on this side the sea since faces, that has been seen on this Exposition of 1893 . In so far as the judging and placing of many of the animals in the prize list, as compared with their relative standing
at other leading shows in the last two months, is at other leading shows in the last two months, isnival of reverses, and even in the various compe-
titions for sweenstakes and specials at the same titions for sweepstakes and specials at the same
show, under different judges, the decisions were show, under difterent judges, the to wager at the such as to make it almost sate to wasent that last in former contests would be first in the next. The advantages
of such object lessons from an educational point of of such object lessons from an educational point of
view, in the way of fixing a standard of excellence, view, in the way of fixing a standard of excellence,
are past finding out, and evidently tend to render contusion worse confounded. The ups-and-downs of the showring in Western stock exhibitions
would appear to be a suitable caption for a chapter would appear to be a suitable caption for a chapter
of accidents at the Kansas City Show, for, as one visitor remarked, you never knew where lightning was going to strike. The work of Canadian judges and juries is sometimes hard enough to reconcile and incomprehensible verdicts their United States contemporaries certainly take the bun.

The auction sales of cattle, which took place at the close of the show, considering the large number
catalogued - 150 Shorthorns and 250 Herefords, of catalogued- 150 Shorthorns and 250 Herefords, of for granted that all transactions were genuinemust be recorded as a success, as the prices pro-
claimed-an average for the Shorthorns of $\$ 316.90$, and for the Herefords, of $\$ 320.46$, particulars of which are given in our Stock Gossip columns-show. An average of $\$ 318.91$ for 329 head in the seven
days' sales, three of which were devoted to the sale of the Shorthorns and four to the Herefords, sets a pace which it may not be easy to keep, although the average price is less than half that realized at August last. buyers at so good an average of prices reveals a is full of encouragement to breeders who are raising pure-bred animals of the beef breeds, and who need have little apprehension that the present activity of the trade in pedigreed stock is only spasmodic
or ephemeral. It seems to be only the beginning of a period of wholesome expansion, which may last for many years, since the market outlets are also increasing and expanding. A setecial feature auspices of the Shorthorn and Hereford Breeders' auspices of the Shortively, and wholly independent of Government subsidies or supervision, and, there-
fore, free from the possibility of political scandal.

## Why Colostrum Coagulates.

The peculiar coagulative property possessed by in it of an exceptionally high percentage of albumen.In ordinary milk the percentage of albuminous
matter, as represented by casein, averages about $3 \frac{1}{2}$ matter, as represented by casein, averages about $3 \frac{1}{2}$
per cent., whereas in the milk of freshly-calved cows the albuminoids, ts represented by casein and
albumen, amounts to from 15 to 20 per cent. The quantity of this albumen presentgreatly diminishes with each milking, until from three to four or six
days after calving it has quite disappeared, and the milk assumes its normal composition. The presence of this high percentage of albuminous matter does hot seem to exercise any material influence upon of newly-calved cows gives an a verage of practically
the same quantity of butter-fat as that of the same the same quantity of butter-fat as that of the same

Quality, Not Pounds.
Inan editorial admonishing its readers tocaution
in the development of their live-stock operations, In the development of their live-stock operations,
the Wallace Farmer thus sums up its argument: "The stock business is quite different from
raising grain. There are a whole lot of things in it that can be learned, like the precepts of the Good Book, only by doing them; in other words, hy
actual experience. As the family is likely to
increase as fast as the ability to take care of them, increase as fast as the ability to take care of them,
clothe and educate them, so a reasonable amount of live stock, properly managed, will increase about
as rapidly as the farmer's ability to handle them properly. In other words, the forces of nature that
work for multiplieation atre fully as well developed work for multiplication are fully as well developed
in man and berst is the forces that make for the development and growth, of the increase. The males in every department of his farming operations. Here is where most farmers break down.
The profits in live stock are not in the pounds, but
in the quality of the pounds, or their selling price
on the maket: hence, better raise fewer individuals on the manket: hence, hetter raise fewer individual
and have them of the hest, at least while you art
learning the businus, learning the businnes, and do not make the chang
from grain-gmwing to stock farming too rapidly.

Judging Dairy Bulls.

We have more than once taken occasion in these columns to point out what has appeared to us a cattle, in the attempt to judge bulls by the same standard as that by which they judge females of the dairy breeds, a course which, to our mind, tends directly to the encouragement of bulls lacking in the indications of constitutional vigor and masculine character, and consequently in the power and quality of prepotency, which is of the first importance in a sire. We have seen the same mistake made in judging some other classes of stock, notably rams in the department of sheep, and boars in the classes of hogs where the bacon-lype theory has been carried to extremes. Holding strong convictions on these lines, we note with satisfaction an able plea for masculine bulls, by Mr. F. S. Peer, the Country Ge

A recognized type or conformation of dairy cows is generally agreed on, while in the bulls of ard dairy breeds there seems to be no fixed standard. Broad hips, deep flank, sharp, clean withers, thin, cordy neck, a fine, bony head and acteristics in the build or form of a high-class dairy cow.
"Th
"There is, however, a tendency nowadays among many showring judges and breeders (the latter, no require, as far as possible, that bulls should be of similar mold as that found in the cow. That is to say, preference is given to a bull that has what is better. Sharp, thin withers and broad hips are also demanded, and are looked upon as evidence of dairy qualities. in the features that characterize the cow is evidently based on a mistaken notion of the laws of transmission. It doubtless comes about from attempting to put into practice those oft-repeated and muchfor the goose is food for the gander,' etc. A little reflection, however, will show that the cultivation
of these 'cowy' tendencies in bulls must of necessity lead to effemin
thing to be avoided.
should be thoroughly and throughout masculine There are comparatively few who will venture to disagree on this point, but when we come to compare the conformation of a thoroughly mascutype of a dairy cow), we find that instead of being similar, the prominent characterists of the bull are quite the reverse of what is looked for in the cow. meaty ; the head of an effeminate cow tine, cleanmeaty; the head of an effeminate cow ine, clean-
cut and bony. The face of the former indicates
resolution, courae; while the latter indicates resolution. courage; while the latter indicates
docility. timidity, etc. The neck of a masculine bull is broad, heavy, thick, full and arched ; the effeminate cow's the very reverse-thin, cordy,
light, tapering and usually droping forward of
the shoulders, where the sire is most prominent. The shoulders and whole fore quarters of a mascusharp and liight. In this the extremes are very
marked. While the hips of the masculine bull are narrow in comparison to his size, and quite hidden,
the hips of an effeminate cow are one of her prominent features.
"We see, therefore, that so far as general conforare quite the reverse of what they are in an effeminate cow. In a general way, you may say the
heavy end of the desirable wedge-shaped cow is
in the hind in the hind quarters, while the bulk and weight of the masculine bull is on the forward quarters.
Because we like the big end of a cow back of the Because we like the big end of a cow back of the
heart, it is no sign whatever that a bull to get cows
with that desirable conformation should be built like her. The very reverse would seem to be nearer tye or form in the female( which must of necerssity
tye the highest type of a dairy cow), we should be the highest type of a dairy cow), we should
rather look for it to come from a sire that was
thoroughly and throughout nasculine. Choroughly and throughout mascuine.
"Let us, in our eagerness o discover dairy type
in the showring and in the selection of sires to heado our herds, take thought of what we are doing and whither we are drifting. Let us not condemn
a bull (as I have seen done so often of late years
in the ring) simply hecause he has not as 'cowy a looking head as another, or because he is heavy in
the neck and at the shoulders. and because he is the neck and at the shoulders. and because he
not cowy' or dairy-looking atout the hips:
because in a female we want the heary end because in a female we want the heavy end of
the wedge behind, condemn it bull hecanse he is built the other way about. If you wish to produce
thoroughly feminine cows, select a thoroughly masculine bull, so that their cons at least may
be fit to perpetuate the lace without deterioration,
lut with added vigor. Let us stidy what consti-

November 15, 1900
'THE FARMER'S ADVOCATE

Cattle Barn for $\mathbf{2 0 0}$-Acre Farm. The stock barn of which the ground plan and an external view are presented herewith is that of
Mr. John D. Ferguson, near St. Thomas, Ont. It was built in 1898, and has proved to be very satis feet wide, has stone wall $8 \frac{1}{4}$ feet high enclosing a basement for cattle, and a capacious superstructure, which has 19 -foot corner posts and abundance oo
room above the plates, as is shown in the photo room above the plates, as is shown in the photo ${ }^{\text {engak of the roof is } 52 \text { feet up from the ground. }}$

a space that would requit The upper barn plan is threshing floors, each 14 fe
the center across 1 he bate he center, across the batn hows, one at either end.
the east third of the soith
runs down off the threshin runs down off the threshing west ones, through whin do each ones, through which th each 13 feet, and the east one
mill shown on the top of the

The basement plan (fig. I.) shows clearly the internal disposition of the space. It has in all twenty double and four single stalls for tied-up by 9 feet, and four 9 by 9 feet, each having a suitable manger. The three larger boxes have strong dmaller ones slatted gates each $3 \frac{1}{2}$ feet wide. The balance of the basement is taken up with two rows of stalls and three passages. The dimensions of
these are shown in the plan. The passages behind these are shown in the plan. The passages behind doors at either end to allow a horse and boat to pass through for cleaning out. The feed passage
is roomy, and supplied with three water taps, stairway to enter the barn above, and chutes down
from barn for feed. The gutters behind the cattle are 1 inches wide, 7 inches deep, and constructed, like the entire floor, of Queenston and Thorold cement. The mangers are 22 inches wide inside,
the bottom of which is of cement raised 2 inches from the floor level of the stalls. The front board of the manger, that is next the feed passage, is 22 inches high, over which the feed is dumped. Three feet and a half up from the floor is a 2 -inch plank 8
inches wide; immediately over the center of the manger. This does not interfere with putting in the feed; it is not in the way of the animals feeding, and it prevents them from standing too far
forward while not feeding, thus preventing much of the droppings from falling on the platform where the cattle lie down
The basement inside is 8 feet high, and well there are 16 , each have four panes 12 by 14 inches. Each sash swings on a pivot in wards at the top. In addition to this, there are three $6-$ inch tile passing
through the wall near the top at each end, eight on through the wall near the top at each end, eight on
the east side and five on the west. These can be closed when desired.
The root house, underneath the driveway to harn floor, is perhaps the most unique feature of
the whole structure. It consists of an arch of brick huilt on a stone foundation. One similar to it was described in our May 1st, 1900 , issue by Mr. R. A. Penhale, who, by the way, is a neighbor of Mr. hiyh in the center. It is constructed similar to an arch over a stream beneath a railroad or other like situation. When commencing to construct the outside the wall of the basement as high as where the arch commences, on which one side of the arch IWts. The other side and ends are built up in
sinilar manner. but of heavier wall. An arch 9 Glut wide should be commenced 5 feet 15 inches below he barn floor. This allows for a rise of 42 feet for the arch-being half its width-and 1 foot for soil
atoove. When the wall is built up to where the arch commences, 9-foot wooden arches are put up His with hricks trimmed, wedge-shape and set on ond. When the mortar is solid, the wooden arch
i- taken out. Mr. Fergusons arch is 40 feet long, taken out. Mr.t. for about 1,800 hushels of roots.
i/ has a capach end there are two $(6$-inch tiles passing Hough the wall near the top for ventiation, also
ter a fair trial with
the barn, considers it satisfactory in al
mons manx.
most every way. The only
make in building another make in building another change he would and raise the floor of the stable jot higher much, which would provide for more fall away from all sides, so as to easily get rid of all surface
water. This is a very important point in building water. This is a very import
any class of farm structures.

## Farm Work for November.

 The close of the season for outdoor work on the farm is nearing, and while to those who have keptwell up with the work required to be done before the ground freezes up, pe approach of wion whe no
period, yet those who terror, yet those who
have "dawdled," or from any other cause
have failed to get well forward with their farm work, it will not be a welcome time.
As it is presumed that As it is presumed root crops have been well
secured before the secured before the midde principal farm the principal farm
work for the remain-
der of the month will der of the month will
be plowing the land be plowing the land next spring. ${ }^{\text {crops }}$ This
work should work should now be pushed with energy,
as the days are short, and the weather is liable to turn cold at any time, and frost
sufficient to stop the plows is in order at short notice. The importance of having
heavy clay land in tended for spring
cropsturned up to the influence of the frost is now generally ${ }^{\text {ac }}$
knowledged, and the work of pulverizing
the soil so as to get the seed in early in
the spring is thereby
greatly facilitated. On lighter land fall
plowing is not so plowing is not so essential, and in some instances age is good, and even spring plowing on such land when it has not been turned over in the fall, is no really necessary following such crops as corn and spring may answer even a better purpose than plowing, since the surface soil makes a warmer seed-hed than the subsoil turned up, and the moiscultivation than by plowing in the spring.
di gut, and occupies
ho filled with soil
to be filled with soil ance. having two
and side by side in Thic leaves two large The granary occupies
mow. The stairway flow in the stainway Tum on rollers. The "Ideal," a Brantford foot wind wheng a 15 -
 nsed for pumping grinding, cutting feed
and pulping roots The position of the
pumps is shown to pumps is shown to tration (fig. II.). The jerk rod, shown run
ning from the barn ning from the barn
over the water tank. Over the water tank
The thank is connected
with well by a with the well by a
pipe running underground, up through
the bottom of the tank. The tank is connected with the
taps in the stable in a similar manner. Mr.
Ferguson has decided to build a milk house to occupy the space
heneath the water tank, for use the year
Mr. Ferguson, af

had better be plowed in thang, and as a male sod applies whene wats is the crop to be grown, or if
roots or corm is the peas, the plowing with neary mol advantage in fall or pring with neary vimal advantage. Whethe plowing is done in the fall or not, care should by the land freezes up, as it is of the first importance
that the surplus water in the that the surplus water in the spring be gotten away as soon as possible. Experience has tanght that as returns, and in order that spring secting may be commenced at the earliest possible date, surface drains should be run through all low or slack places, Among other work which will be in season when
the land freezes solid and field work is ended, is the repairing of farm buildings, closing all unnecessar openings, and making the stables as warm and comfortable as can be done. Fine or expensive
buildings are by no means essential to the raising of good stock, and old or cheap stables may be made comfortable at little cost by lining with tar paper and cheap lumber, or even with paper alone,
with strips of lath tacked over the edges. forethought and effort well applied may a a long way in the saving of feed and the growth and thrift of the stock, and will be found to pay well. It i wise to provide for the closing of cellar doors and and fruit, roots or vegetables are in danger of being affected. Keep the doors and windows open for ventilation as long as it is safe to do so, but be pre
pared for closing them at any hour if the weather pared for closing them at any hour if the weathe
takes a sudden change. These are but a few of the points needing to be looked after at this season. and the wise provider will find many others which
should be attended to at this particular time.

## Agriculture in Illinois Schools.

 Farmers' Institutes a demands made by various individual farmers, agricultural societies and tendent of schools of Vermilion county, Illinois has introduced into the common schools of tha county the study of agriculture in addition to up at the beginning of the prestnt school year and the idea has proven to be quite popular in the mor progressive rural communities. The superintend ent has sent a supplemental outline of the course the three cities of Danville, Hoopeston and Rossville, embodying the plan and containing instruc tions for its practical application. The text-books adupted for use in pursuing the new branch ofstudy are: "Practical Agriculture"" by C. James, of the Ontario Department of Agriculture,
and ""The Principles of Agriculture," by L. H.

erterior view of john d. fergison's barn, yarmouth Township, ontario

Bailey, Professor of Horticulture in Cornell Univer. It is the purpose to make the study as practical as possible, and arrangements will be made for the intelligence of the pupil will be appealed to rather than the memory. The everyday fact of farm work, the growth of plants, the fertility of soils and their constituent clements, the value and application of fertilizers to secure the largest
returns from different crops, and all the varied and
be investigated, and simple experiments tending to sciences pertaining to agriculture will be features
of the new departure. will be watched with a great deal of interest, not only by educationists, but by

prepared by w. J. anderson, beeton, ont. practical farmers who wish to see their pursuit
elevated and the young peope of the country
imbued with an appreciation of the dignity of the farmer's calling.

First Prize Farmhouse at Toronto Industrial Exhibition.
The plans accompanying this description are for a two-story building ( $30 \times 36 \mathrm{ft}$.), and were designed
with special care for as much comfort and convenience of work as was consistent with what was wanted, namely: "A set of original plans for
farmhouse suitable for farm of 100 acres, building to cost $\$ 2,000$."
The heights of ceilings can be changed if thought wise to do so (the same may apply to all other neasurements), but woul suggest that the cellar the second floor 8 ft .6 in . The cellar walls can be build of whatever material desired, but common field stone will make a good wall and will give a
good appearance for a farmhouse if properly
finished. The wall should be at least 20 and the floor cemented. There should be a good drain put in at once to take away any soakage that may appear. The section walls can be of brick, and
should be about 9 in. thick, or the width of two bricks laid flat, making a solid foundation for the weight of the joists and partitions directly above. having their beginning with the stonework, and brought up on the outside of brick wall. They are better to be double flued, especially the one with fireplace, which should have one flue for fireplace
and another for stovepipe. The walls and ceiling of cellar should be plastered, and can be done on
the stone wall. Cellar windows should all be double of cellar should be plastered, and can be done on and so arranged as to open up for ventilation in
winter, and a screen should be put on outside for winter, and a
There can be a wood shed and summerkitchencon.
veniently built at the back, the one chimney doing veniently built at the back, the one chimney doing past ${ }^{\circ}$ kitchen veranda as far as might be needed for the room required. The close proximity of the kitchen, pantry and dining-room saves the good housekeeper many a step during the day-in fact
they are as conveniently arranged as if all three were the one room. The dumb-waiter in pantry is quite handy to both kitchen and dining-room; hough not opening directly into the dining-room, to be found from the want of a set of back stairs on 'first-floor plan. This can easily be remedied by putting in a stairway directly over the cellar stairs
in pantry, where little room will be taken up by them and a good landing is afforded on the second floor. Hard and soft water pumps might be placed quite handy in summer kitchen. However, a tank,
as marked in.bath-room, should be used if possible, and if there is a system of waterworks at the barn, of hard water, have it arrangel to $q 0$ to the tank in the house first, and then let the oresfow go to the
barnor to a trough somewhere near for the stock. In this arrangement you will always have : good There is a small space taken off the pantry on the
side next the kitchen and let into the kitchen, side next the kitchen and let into the kitchen,
which is suitable nhd intended for a wash-rom.
The same pipe will siphly water here to sink in
pantry. By using a hot-water heater in connection with the kitchen range, hot water can be had
wherever wanted at a minimum cos by along with cold-water pipes. The dining-room ( $14 \times 24 \mathrm{f}$ by some as being rather larger than necessary.
If so, an arch could be put in and make it into two If so, an arch could be put in and make it into two rooms of reasonably good size. The turning stairs
in front hallway, from first to second floor, take up much less room for floor space than if run up straight. At the first landing there should be some form of a circle or, say three narrow ones, one rising slightly above the other. These willimprove the appearance as well as brighten the stairway. The roof should be put up something after the to relieve the sameness of a plain four-sided cottage pattern. The back might go straight out over the kitchen part in peak-roof form, having a
gable in back end. There should be d gothic (a larg one) over the wing on right side, the ridge of this to meet the ridge of main roof. Another gothic should be put on, covering the two windows in the
front or second floor. This one should run just front or second floor. This one should run just
about three-fourths of the main roof in height. These gothics and gables may be finished with
scroll work and cornice to suit. In this the style scroll work and cornice to suit. In this the style
and good appearance of roof finish can be shown to good advantage and made very attractive. A slate roof, I suppose, is preferably the best, but a man
building should figure on about $\$ 100$ extra for slate building should figure on about $\$ 100$ extra for slate in place of shingles.
having the front towards ever, to have the front to the north or east, it is only necessary to change the rooms a little by change the kitchen and pantry to opposite sides the same. The drive past the house to the barn
will invariably go past the side of house the pro-

gound-floor plan of farmhouse.
jecting wing and veranda are on, this side having a more attrractive appearance and serves as a good
front, therefore should be the sheltered side of the house. The cost of the material and work might be figured somewhat roughly in the following calcuhauling of material and cleaning up, along with the boarding of the workers, goes withoutconsideration. differene figures are approximate; the values of Then, again, the prices the same in all sections. fluctuating, and cannot be reckoned with very much applianty, such as glass, pipe, lumber, nails, heating

Rrick, pressed, 38,000 at $\$ 9$ per M...
Masonry and plastering






also add considerably to the cost. In building house, it is, as a rule, only done once in a dong material should be used, and always the best best men employed, regardless of the price asked.
Simcoe Cu., Ont.
W. J. ANDERSo Simcoe Cu., Ont. W. J. Anderson.
[Note.-The set of farmhouse plans prepared a [NoTE.-The set of farmhouse plans prepared and
described in the above article by described in the above article by Mr. W. J. Massey-Harris Co., at Toronto Industrial the dassey-Harris Co., at Toronto Industrial Exhifor 100 -acre farm, building to cost $\$ 2,000$. While the plan is undoubtedly a good one from many standpoints, it has features that can readily be mproved on without interfering with the size of the structure or general outlay.
As is admitted in Mr. Anderson's description, Fig. II. (ground floor) shows no back stairs to upper tory, which in a farm house with stairway rising rom front, as this one does, is simply indispensa corner of the pantry over the cellar stair in the would suggest that this be changed by turning the cellar stairway across the end of the pantry and placing the upper stairway over it, opening from the kitchen. The objection to having the way to the upstairs through the pantry is obvious. A change would probably also be found desirable in the position of the front stairs. Instead of going up from just inside the front door, would it not be better to reverse the positions of the upstairs the right instead of the left in toing the angle to we right instead of the left in going up? Again, tage, in having a door directly between the kitchen and parlor. Probably other changes could be made to improve the plan, but these we have referred appear to us of real importance.-ED. F. A.]

## A Reviewing Letter

To the Editor Farmer's Advocate : SIR :--Fair Attractions. I have carefully read
your precious editorial, "After the Fairs," and am your precious editorial, "After the Fairs," and am
greatly pleased that there is a publication whose editor dare to speak out so fearlessly. I am also delighted at the fact that so many correspondent have ventured to sustain you in your position against certain atractions, so called. Surel some of these things. If not, they will soon awaken to the fact that our great fairs-once so creditable
to the managers and the country-have degenerated to the managers and the country-have degenerated iniquity. That this is the tendency of the so-called attraction features is patent to every observing person. Very much to be seen in broad daylight
this fall was most disgusting to men of pure tastes and refined feelings. We do not wish our children to be educated along any such lines. Law-makers Scored.- Then, again, there were the sheep-killing dog, not the least among which was his declaration that, had he the power, he would ship our law-makers to Paul Kruger ; but he
should have added to his list of should hers who have heen clamoring so for war asserting that it has a "civilizing tendency, together with a few of our law administrators.
Take as an example of what I mean here: A little


UPSTAIRS PLAN of farmhouse.
hoy stole three cigars, and was awarded three

country, under the British flag and during the second cleaning. This fall I bought twenty-four
reign of Her Most Gracious Majesty, and in the
reigh a of the 19th century of the Christian era,
latter end
we have it declared We have it declared by our courts that the virtue,
purity, chastity and nobility of girlhood are but one-eighteenth as valuable and sacred heritages as
the vested right the vested right in three filthy cigars. Does not
this fact alone leave ample ropgr to puestion
whether the world of mankind is growing better or whether
worse?
Eradicating Horse-radish.--Next, a correspond-
ent asks how to eradicate horse-radish. If he will


SHROPSHIRE RAM over two vears Second prize at Toronto Industrial, 1900: first prize at Western
Fair, London, $\begin{gathered}\text { same ompentition, and head } \\ \text { of first-prize flock. }\end{gathered}$

## owned by d. G. \& J. g. hanmer, mt. vernon, ont.

take a tile spade and cut the plant off three or four nches below the crown, tossing this portion up to experience but little further trouble with the plant. At least, such has been my experience and observation. And the same holds good as to burdock hand
wild lettuce plants. The latter plant first made its appearance in this neighborhood three or four years ago, travelling apparently from north to it now infests most of our sod lands as well as our for a man to try to keep it down while his neighbors for a man to try to keep haven while his neighbors disgust. When cut off above the ground during
the early stages of its growth, it will throw out a the early stages of its growth, it will throw out a will under like circumstances.
Fall Wheat and Chess. -Further, one of your orrespondents claims that fall wheat turns to chess, or cheat. We, in this section, do not all believe
such doctrine. We believe that like produces like,
or the likeness of some ancestor. Was chess the ncestor of wheat, and is it simply a clear case of atavism? If so, why cannot chess, by means of a into the same or some new variety of wheat or some other useful agricultural plant or seed ! Yet we admit that in low, wet places, where wheat
winter-kills, there is usually an abundant crop of winter-kills, there is usually an abundant crop of
chess. Moreover, I had a field seeded to grass along with the wheat (Red Clawson), and when harvesting noticed considerable shelled wheat on the ground. chess on it. On other occasions, however, I have inds in my first cutting of hay after a wheat other This second crop of wheat must have propagated itself from grain shelled while handling the previous

But further, I have noticed that on our land
here where fire has burned the soil to several inches here where fire has burned the soil to several inches in depth, the next season there springs up a rank are we to account for these growt ths? To say that
after the fire the weed seeds had been distributed after the fire the weed seeds had been distributed
over the ash beds will scarcely prove satisfactory
under all conditions.
E. J. Yorke.

Experience with Chess.
Many farmers believe that under certain conopinion that the whole of living nature contradicts any such assumption. As a matter of fact, nature
does not work according to the beliefs or opinions does not work according to the beliefs or opinions
of men, but according to fixed laws emplanted by the Creator of all things. Forty-one years ago my father began to raise wheat among the stumps on this farm. He believed that like produced like, so
was always careful to remove all chess seeds from his seed wheat, and he always raised wheat withont chess, no matter how badly winter or spring
killed. For the last seventeen. years I have followed his example, and have raised no chess. I mill twice, cleaning the first time as I would for market. All sieves are then removed, the mill
turnet fast and the wheat fed slowly through.
Most of the light wheat, some good wheat, and practically all of the chess go over behind the mill.
If I buy seed wheat of a neighbor, I give it this
bushels of very fine wheat for seed. because he had " "cleaned it for seed," and he was proud of the nice clean seed he was giving me. brought it home and blew out a bout three bushels. Nearly two bushels of that was fairly good market imperfect wheat with about three or four quarts of chess in it. The remaining twenty-one bushels was practically free from light, imperfect wheat, was. out in this section. An adjoining neighbor had a the piece of wheat nearly all killed out, and a heavy killed and there was no chess came up. I do not expect to gather figs from the thorn-
apple trees down the lane next year, nor do I expect apple trees down the lane next year, nor do I expect
to reap chess where I have sown wheat this fall. Elgin Co.
H. Pettit

## NAIRY.

## Long Churnings.

A common fault in cream, and one which may rise from a variety of causes, is that of refusing to which the butter fat globules will not separate out simply because they are so small that they will is comparatively rare, and cannot be overcome any more than cream or butter can be obtained from milk which has absolutely no butter-fat in its composition at all. This phenomenon sometimes system cannot elaborate the fat.
Cream which refuses to give butter, or "goes to sleep," gets " frothy," "puify," or "hove"in the property from the fact that it is being churned at wrong temperature. If the cream is put into the churn at a much lower temperature than is advisable, it will often be found that it thickens, becomes
viscid, and hangs to the inside of the churn, so that unless steps are taken to remedy the defect, churn ing is prolonged indefinitely. On the other hand, if churning is begun at a higher temperature than
it should be, the cream will sometimes get frothy it should be, the cream will sometimes get frothy is delayed until the cream has been cooled and thinned down.

There is no set rule as to the temperature at which cream should be churned according to the roughly that for every five degrees Fahr. of difference between the air of the dairy and the normal working temperature ( 57 deg. Fahr.), the cream
should be raised or lowered one degree in the opposite direction. Only practice and experience tell one how this rule may be departed from
In the early stages of churning there is expelled
from the cream a quantity of gas which, being from the cream a quantity of gas which, being in the cream as it forms, is thrown out of solution by the concussion to which the cream is subjected
in the churn. If this gas is not removed by frequent use of the vent, it is forced into the cream, and hence arises the heaving or frothy state.
Cream from the milk of stale cows-i. $e$., those which are going dry-is a frequent cause of bother
in this respect. If such a thing is suspected, it is well to be assured of
it by keeping such it by keeping such milk apart from the rest, and churning the it separately. By care the details of ripening and churning, raising the temperature so Fahr. in the churn
this difficulty may be
Too much acidity in the cream is als quently in a difficulty quently in a difficulty ter. The remedy, i the cream must be left till it has reached ripeness, is to venti-
late very frequently
indeed for say the
indeed, for, say, the
first five or, six min-
utes of churning, as utes of churning, as such cream throws off
an enormous quantity
of gas.
Winter feeding is
sometimes responsible, as at a time when the cow and other feeding stuffs is given her the milk is naturally affected to a considerable extent and rendered liable to develop abnormal properties. found to go to sleep in the churn, the churn should
be stopped, opened. and the temperature of the be stopped, opened. and the temperature of the
cream tested; if it has fallen or risen it must be
brought back to the correct churning temperature Churning may then be resumed, stowly at water. being careful that at' each revolution the cream is heard and felt to "drop." As the cream appears to peed may again no rmal condition, full churning reaks. fin fin
ints fault threatens to become chronic, all th ping used in discussion must be looked into, every must be kept scrupulously clean ; the cream should e stirred almost continuously during the ripen ze the cream immediatelast resource is to pasteur ator, cool it, and add a "starter;" so as to ensure healthy and normal ripening of the c
Lord, in Agricultural Gazette (Eng.).

## Milking and the Care of Milk.

Comparatively few dairymen appear to realize egularity must be observed, and all the milk must be secured. The cow must be kindly treated at all very twenty-four hours. When she is well treated and furnished a plenty of palatable food and pur water and made comfortable, generally she doe annot do her best and I have sometime way, sh she acted as though she would not if she could Sh may have less resentment than humanity, but oorly treated. The dog or
is, as a rule, a mistala on horseback after the cow hould have no fear of the persons caring for them has been about cows are afraid of a man after he become acquainted with him thing wrong and that a change of some kind is rouble a change of the man thies the should be insisted on rigidly
The cow must be kept clean. When it is neces sary to wash the udder and teats before milking purpose, and be given to understand that it is to $b$ used when there is need of it. This requires but mille. The filthiness connected with much clea milking is sickening to a person who sees the work and many times it is to the person consuming the milk fifty miles away from where it is produced. while ago in reading a report of investigations made by Dr. Backhaus, of the milk supply of Berlin in which he made a statement that the city o Berlin consumed with its daily milk three hundred oing any higher grade of work ?
Promiscuous milking should not be allowed The milker should have his regular cows to milk milked in the cowhouse summer and winter; in act, this is a general rule in the dairy sections. here is a great difference in milkers; some do no do try. I have found difference sufficient between the work of milkers to pay a man's wages if he ilked fifteen cows.
ion on hard facts, and prout a matter of calcula tion on hard facts, and proves that we need to look
after the milkers. There should be regularity in


PRIZEWINNING HOLSTEINS.
Cow, Empress Josephine of Brookside, 5 years old, second prize; heifer calf, Myrtle Pearl,
first prize under 6 months, yearlink bull , Empero Joseph, first prize,
time of milking. The cows know the time of day and are uneasy when not milked at the usual time Have patience with a kicking cow; she is hurt or
frightened or has been abused in ninety-nine cases frightened or has been abused in ninety-nine cases
out of a hundred. 1 lose confidence in a milker when he has trouble with cows kicking. Almost invariably, a cause can be found for cows kicking
cannot afford to have ad confirmed kicker in the
herd; it has a bad influence. When milking, make a business of it, and allow loud talking should not be allowed. Always milk with dry hands; milking with wet hands is filthy. It is best to milk at the same hour morning and
night, so as to have the time between milkings night, so
uniform. The best results are secured in this way, or at
least better results are secured when the time
between is twelve hours than when it is eight to sixteen hours.
One of the facts that should be kept in view at milking time is that the quality of milk is, so to speak, dependent more or liess upon the conditions new quarters, or if there is anything of a disturbing nature, the Babcock test will show a loss in yield of fat. A certain dairyman who had made a
success of the business enforced a rule that there should be absolutely no conversation in the "mistle" at milking time, and while this may have been going too far, still a quiet cowhouse is a is supposed that the production of milk is more or less a result of expenditure of nervous force, and if in any way this nervous force is diverted, the milk nervous force and as she had to supply some of it nervous force, and as she had to supply some of it usual amoun
ducing milk
ducing milk
No man
afford to be much away from the his business can ing time unless he has a man on whom he can safely rely for the right treatment of the cows at
that time. It is of equal importance, if not greater, to see that the cows are milked properly as they
are fed properly, for while poor feeding will hurt the yield, it will not necessarily hurt the cow, as most assuredly poor milking will do.
majority of men have for handling animals. Go to any large city and watch the drivers of various teams, and probably the majority of them have
only one resource for any and all failings on the only one resource for any and all failings on the
part of the horse to do as they wish, and that is the whip supplemented in most cases with profanity. by a cowhouse, much less go in it to milk. A milker that is a thoroughly good one is worth his wages if are rare, and it is still rarer to find one out of a job, for when a dairyman gets hold of one he generally that which is good.
in not getting all the milk. failings of milkers is the last drop, for two reasons : the last milk is the richest in butter-fat, and if the last drop is not is apt to supplement the milker's failure in getting the last drop by keeping another last drop on her
The giving of milk by a cow for so long a perio mal proceeding, and one that entirely an abnor mal proceeding, and one that needs if is not, the cow cour go back to the natural way and give milk for a shorter period, as she was accustomed to do in he
native state.-Rusticus, in Bibly's Quarterly.
Care of Milk for the Creamery in Fall and Winter.
The milk in summer is usually free from very objectionable odors; that is, where fair care is taken
of the milk and cows, and where cows get good water to drink and gain access to no rank or strong flavored weeds. The reason for this is that the side, and the cans when washed are usually left where the sun and fresh air can work their part of cleaning, for where there is a good amount of sun-
light, objectionable germ life is very low. But in the fall when the cows are beginning to be housed and when cans, pails and strainers are kept in the
kitchen or outhouse, then extra care must be taken of the milk, for it must not be forgotten how very easily milk absorbs odors, and milk off flavor makes product.
We
We assume the fact that the cans have been washed in lukewarm water, with a good brush, and
then scalded. They should then be placed where the pure air can blow in and around them con-
tinually, and every care should be taken that no breeze from the barnyard, hog-pen or other in
fectious sour It milking time in the stable, very many should
turn over a new leaf. When the animals are in the turn over a new leaf. When the animals are in the
stable, the udders. Whether they appear clean or
otherwise, should be wiped well: then the milk er shoutld phot on at waire of well: then overalls or an This may seene a hand and commence to milk. not accustomed
Never, under any considmitm, whe the cans outside the dom, and as quickly aton, foll wary
it to the milk hone and bring back another, and
on until the milking is done milking, stir cach can quite frecpuently until the on the cans while the mill is cooling, or the animal
odor will be retained, and
musty
If there is not a proper milk house, uinke a cooking taints on milk give no end of trouble to the buttermaker. Most of the farmers know what foods impart thavors to milk, and these in every case
should be avoided, and the purest of water should se furnished the cows to drink at all times.

## Great Dairy Cows.

The unregistered Shorthorn cow, Cherry, which created such a sensation at the milking trials at Tring in August, where she yed and produced over 4 lbs. of butter, was entered for competition in the milking trials
held in conjunction with the London Dairy Show at Islington in October. At the latter fixture, 10 days after calving, her yield of milk for the 24 hours was 551 lbs. 2 ors., but her butter yield worked
out to only 21 bs. $5 \pm$ ozs. $2 \ddagger$ gallons of her milk to produce 1 lb . of butter. At the Tring trials the milk produced by this cow was so rich in butter.fat that every $1 \frac{1}{2}$ gallons of it
produced 1 lb . of butter. How is this difference in produced 1 lim . of butter. How it this difterence in
richness and buter product accounted for? At the London trial another unregistered Shortwhich yielded 2.10 Iozs. butter, which shows her milk lower in quality than the other, which may time she had been giving milk since producing her
last calf time she
last calf.

Clean Udders.
One important feature in securing cleanliness in milk is the cleansing of the udders of the cows bewet as to drip is probably the best and venient means of cleansing the udder. When this is not done, germ-laden dust falls into the milk pails continually during milking-time, and in any
weather, but in summer weather especially, the germs multiply by the million, and seriously injure
the milk as a fit raw material for the manufacturing the milk as a fit raw material for the manufacturing
of prime butter. This plan of cleansing the udders of prime butter. This plan of cleansing the udders
before milking now prevails in all really well-regulater milking herds, where care with milk is regarded as a religious duty. When first proposed, there were some uheorists who objected to it, on
the ground that it was likely to stimulate the the ground that it was likely to stimulate the
secretion of milk before the milker was prepared to take it, but repeated experiments where dairy prob-
lems are given greatest attention have shown lems are given graatest attention have shown
that there is nothing whatever in the theory.
The There is only one objection to it, a
found in the words, " 1 'm too lazy.

Stripping Cows Clean.
Carefully-conducted experiments, as well as the that clean milking exercises a very material influence, not only upon the quality of the milk that in the hands of careless milkers, cows which would otherwise continue giving a good flow of milk for seven or eight months after calving are often run dry within four or five months of having on this score is incomplete stripping The neces-
sity for the thorough removal of all milk in th sity for the thorough removal of all milk in the
udder is rendered of special importance by the fact udaer is rendered of special importance by the fact
that it not alone induces a cow to continue longer in milk than she would otherwise do, but that it yield of butter obtained from the milk produced The last milk to leave the uader is, asis well known, first drawn. Too much emphasis cannot, therefore,
be laid upon the necessity of thoroughly strippin dairy cows at all seasons of the year

## POULTRY

Canadian Eggs.
One shipment of an article of inferior quality
will sometimes do more injury to the reputation of will sometimes do more injury to the reputation of
producers than can be remedied by several suc essive shipments of good quality. On more than ni occasion, we have referred to the carelessness
with which some of our country merchants and others are accustomed to forward eggs to the
markets; the result being that the number which markets: the result being that the number which
have to be thrown out as unfit for food is simply astounding.
Now the
Now the natural sequel to this unbusinesslike methorters in ©ireat Britain complaininy of tron duality of the eggs receired from this country.
One firm in England says that the price now being paid for Canadian egass is ridiculous. butt ot mot more
so than the quality of the samel several lots have leen solde at prices which will hot pay for more
than their freight charges. Needless to sav, the than their freight charges, Needless to say, the
shipping of eqgo from Guada which are not
strictly fresh-gathered will injariounly affect the strictly fresh-gathered will injuriously affect the
sale of even s.lch as are truly fresh the repatation
of the whole body of producress will suffer for the


 market it i time when hary, were put on the
urriving from other places, The tantities were
however, that the chief cause for the low price the British market-is the poorness of the quality many of them. It is a known fact that several lot have been shipped by parties who did not know not take the necessary precautions to see that did eggs had been properly y candled.
It is the hardest thing in the world to establis a reputation for our goods in the face of such un businesslike methods as these mentioned. As w. said before, to a large extent all must suffer for the
sins of the few. If the small shippers would think a moment, however, and would realize what large possibilities lie in this business, properly managed
they would also realize how largely their ow interests would be served by a rigida adherence th honesty and a system of the most careful selection
in packing. Only in this way can a great ©anadian egg industry be built up.-Monetary Times

Practical Essentials in Successful Poultry Raising.
When the Jersey cattle fever first became epidemic in this country the rage was all tor ". solid dollars if possessed of a solid color and other re quired "points," would be worth no more than a hundred or so if she had a littte white mixed with affairs prevailed for many years, but is decidedly changed at the present day. Now the fancier of butter he can secure from his cows than with any
berne other feature connected with them. He still tries to get a solid colored animal if he can, and one that of butter is the paramount interest in his breeding. He has made it one of the "fancy points" of his
work. The millionaire breeder of Jerseys is not anxious to secure an added yield of butter because he will thereby get more money from his herd, but and still greater yield of butter by judicious breed ing. Yo yearly test of a thousand pounds of butter in one
year is an honor eagerly sought by men to whom the value of a thousand pounds of butter is of no moment whatever. It is the incentive of securing
greater production than others can stcure thin greater production than others can stcure that
urges on their efforts, and the result is greatly increased value in the race of Jersey cattle. it seem to me that the same interest could well tended that there need be no antagonism between the fancy and the practical in poultry culture, and Inem of the same opinion still. I Believe that the
beautifully formed Plymouth Rock or W yand the beautifully formed Plymouth Rock or W yandotte,
from a fancier's stand point, is the most profitable from a dancier's stand point, il sthe most proftabint
bird from the market poultryman's standpoint. The Leghorn of the most characteristic, sprightly shape is the bird that will make the egg basket
overflow the quickest. The fancier has made our poultry what it is today a steady impovement pouth in the fancy and practical side, to the poultry of the past. But this has come about, not so much because the fancier cared particularly whet ther the
practical side were benefited or not, but because. as I have said, there is no real antagonism between excellence in fancy points, the practical side has exen added to
but when $i$
Mut when it comes to increased egg-production,
distinct effort must be made outside of mating for fancy points. There must be a mating here fo larger results, just as there is a mating for larger
results in the dairy world and it can be done while attending carefully to standard points. Now, it
seems to me that this striving to reach a large seems to me that this striving to reach a large
egg yield ought to give an added zest to the egg yield ought to give an added zest to the
fancier's work.
He will have all the pleasure that he has ever had in breeding for points, and
in addition can have the same keen satisfaction that a Jersey breeder experiences in breeding so
skillfully as to secure large production. The Jersey skillfully as to secure large production. The Jersey
cow that has made fourteen pounds of butter in cow that has made fourteen pounds ond she and her decsendants thus acyuire distinction above
their fellows. Why may we not set the 4 tested their fellows. Why may we not set the "tested All ceredit to the tancier for what per han on one
for tumerican poultry-he has made it what it is. It now remains for him to put another element of great value into his work by increasing the egg.
production of the fine specimens he sends out, and roduction of the fine specimens he sends ont,
in the case of
of the eqe varieties. by it itcreasing the seems to of the egg. It seenus to me that these points ought
to at thorough fancier spirit. Breeding
for them tex wher or them requires skill, judgment and patience

 earnest personal study and eaffort in poultry-raising It is not enough to get good foundation stock and good pen, and then determine to follow the hest cin tor reap a tood profit, one must exercise con-
 teting, weeding ind deeveloping must the constantly
timedat in order to kepp up to the present standard. In poultry- raising, as in any other vocation, there is
nist liee

## THE FARMER'S ADVOCATE

QUESTIONS AND ANSWERS.



## Veterinary.

COWS AND SHEEP WITH COUGH
W. A. R., Quebec, Que.:- - "Will you please
vor me with a treatment to cure cows and sheep favor me with a treatment to qure cows and sheep
from coughing and bad colds in their heads?", [Science has not as yet discovered a cure such as you ask for, some coughs being incurable. Any lungs will cause an animal to cough. If the trouble be tubercular, it is practically incurable in either cattle or sheep. If caused in sheep by grub in the
head, it is also very hard to treat, but that is not head, it is also very hard to treat, but that is not cold, such as you evidently suspect, a cure can be
effected by good care, keeping animals in comforteffected by good care, keeping animals in comfort-
able quarters, excluding from drafts, etc., feeding able quarters, excluding from drafts, etc., feeding
soft, easily digested food, and holding the head soft, easily digested food, and holding the head
over a pot bof boiling water, causing the patient to
inhale steam. If the throat be sore, give chlorate over a pot of If If the throat be sore, give chlorate of potash three times daily, 2-dr. doses for cows
and 20 -gr. doses for sineep. Not much medicine is and 20 grg . doses for sheep. Not much medicine is
required ; good care will effect a cure.
J. H. ReED. $]$
salivation in cow.
A Subscriber, Glengarry Co., Ont: :-"Kindly answer through the columns of your paper the
cause of cow frothing at the mouth, sometimes cause of cow rrothing at the mouth, sometimes in milk as she was; seems dull. She is a 3 -year-old. such as irregularities of the molar teeth, eruption in the mouth, called aphtha; an abscess or absa condition called wooden tongue, etc., etc. Have her mouth carefully examined; the fact that sometimes matter escapes indicates an abscess; if one or
more exist, make a good free opening into each more exist, make a good free opening ingo each required. If the teeth are the cause, have them required. If little ulcers are noticed, touch each once daily with a pencil of the nitrate of silver or
with butter of antimony applied with a feather. with butter of antimony applied with a feather.
If the wooden tongue, the organ will be felt to be hard and unyielding and enlarged; there is no cure
for this.
J. H. REED, V. S.] for this.

## cow failing to breed.

Jersey, Lanark Co., Ont.: - "I have a thoroughbred Jersey cow that can't get with calf. She
has been milking now three years, and is perhaps too fat, as she is in good condition. She comes round with great regularity every 18 or 20 days. Sometimés I leave her with the bull all day, and
again tie her up after she is served, but it is all the again tie her up after she is served, out with bicarb. soda and water, before service, too, and now an old
farmer and stock.breeder here tells me to tie up the soda and water stock breeder here tells me to tie up the
farmer and st
cow after service and open the orifice, and I would cow after service and open the orifice, and would
find a little wrinkle at the lower corner, and to just give this a slight nick with a sharp knife, so that a few drops of blood would come, and that she would be sure then to be with calf. Now, I don't
want to do anything like that without knowing want to do anything like that without knowing
something of the reason for it, and as there is no veterinary near here, I appeal to you for your no veterinaryis plan or one of you own, if you
opinion on this
can recommend one. If I should be able to get can recommend one. If I should be able to get her with calf, would her offspring be sable and
inherit her condition. She is only 7 years old, and
I have but one heifer from her, and it is the best. I have but one heifer from her, and it is the best
cow on the place. and has apparently none of
cow and her mother's trouble at all.,
her be liable to be unsure?"
ISterility in cows and other domestic animals is due to various causes, both physical and organic Some of the causes are removable, while others from tuberculosis or other seriously diseased state of the system, especially when the sexual organs are involved, are very often accasionally suspected, it is advisable to make a change. It suspected be well also to insert the hand into the vagina, and learn if the entrance to the wom is open. Occasionally it becomes closed and cal By pressure with the hand, commencing with on finger, an opening can usually be effected. If thi is found to be the trouble, apply to the opening,
three successivedays before service, equal parts of helladonna and Venice turpentine. There is no reason to believe that the cow's offspring, either
male or female, will inherit her tendency to barrenmale or female, will inherit her tendency to barren
ness. Nor is there anything in the operation rec ness. Nor is there anything in the operation rec-
ommended by the old farmer. That is an old notion long ago exploded by veterinary science,
and is akin to that of splitting the tail for the cure of "hollow horn." Sometimes bleeding a cow in high condition has value, buch a case in order to do any good.]
cribbing horse.
C. A. A., Illinois, U. S. A.:-"I have taken you valuable paper for a long time, and could hardly
afford to do without it. I have a fast pacing horse afford to do without it. I have a fast pacing horse,
if years old, that has been cribbing at the manger
for about a year. He is
please tell me how to cure w. .ery bad. Can you
[It is unfortunate that cinimis has been allowed It is unfortunate that cotingis has been allowed
to continue so long withoui asinting measuree to
stop it. When first noticed oo continue so long withour adopting measures
stop it. When first noticed, the horse should have
been put in a box stall witho been put in a box stall without manger or any prohould have been given on the foor, and his grain as a pail, that should have been removed as soon
he will be difficult to to cure, ating. The chances are thabit will have he will be difficult to cure, as the hatit will have
become pretty firmly fixed. Tn such a case, get a
muzzle for him, and leave it off only while he is muzzle for him, and leave it off only while he is
eating. A strap buckled tightly around the throat is a treatment often given, and renders the horse
incapable of filling himself with wind as is done in cribbing.]


Lady Shields
Berkshire sow, first prize in class over 6 and under 12
nionths, att Toronto and Otrawa.

HORSE LAME IN HOCK
C. R., Addington Co., Ont.:-"I had a thorough sharp shod. The cut closed up, but swelled ver large, and I lanced it on the inside of leg above spavin, and considerable thin yellowish fluid ran out. He was on three legs for two months. Have des ; is still lame and a little stiff. How can I relieve the lameness ","
[There is probably anchylosis (the union of two
more bones) of some of the bones of the joint. If so, and they be those involved in thegliding articu lations (the lower part of hock), the lameness wil disappear as sod. If the true hock is involved, lamenes will be permanent. Anchylosis of this part of joint is not likely to take place, but the articular cartilag may be diseased. Injuries such as described ar times permanent lameness. The treatment you have adopted is the best you can use, unless youget
a veterinarian to fire and blister. which I think would be your better plan. J. H. ReED, V. S.]

## - Miscellaneous.

L. K., Grey Co., Ont. :- "Will you please show in your next paper the latest style of a hen's nest to
prevent them from eating eggs: Let me know where one of the best poultry books is to be got." meat prevent hens eating eggs, give plenty of structed similar to the one illustrated beneath We have presented this cut before, but believe it to be a good one and well worth repeating for the
benefit of those who have not seen it. This box,

which extends along the wall of the house, is shown open at back, that its construction may be under
stood. The hinged lid is in sections, each covering three or four nests, and can be raised to remove th dgg. When the lid is down the nests are quite point.
One of the best poultry books we have knowledge
 priee, or for oltaning fome new yearly subseriters,
 answer the following questions from an amateun
horticiuturist, who has derived some benefit troun eading your answers to other eorrespondents: which has grown up from the roots of plum
 irees, which are from on ee eighth of an inch to $t$ wo Can these be duy and stored in cellar and tud tratted with plum scions, following the same process as in要年thing apple seedings,withany chanceor sulceess Ould the arger ones have eallue tops cutorf hefor time? Is there any other way I could handle these young trees to make good plum trees of them? "2. Is grafting the apple, pear, plum and cherry ap-to-date horticulturists of Canada? $\cdots, \cdot 3$. In budding this year's seedlings, should the bud be set near the surface of the soil, or would it be equally as good to put the bud in a foot or two stem be cut above the bud? Is there any proces of storing buds and roots in the cellar and budding on the same principles as grafting, in the winte
months; and can buds be kept over winter and inserted in the spring successfully? If so, describe the process. for grape cuttings the first year, and should they or grape cuttings the first year, and should the Would you recommend the putting of coal cinders to keep down weeds, and would the grapevine any value as fertilizers? seed ". If any varieties of apples
seed? If so, please name varieties. a lot of peach seed which I want treated? I have lings; also, plum and cherry seed. Would the seedlings from this seed be good for budding or grafting out? Everything is grown by irrigation
here, and I .have seen beautiful plum trees from grafts inserted in clefts three feet from the ground, two scions being used. But I notice in some of the papers grafting the stone fruits is not considered as good as budding.
more successful here.
[1. The plum suckers could be taken up carefully this autumn, after the wood has ripened well, and sorted. The smallest ones-say from one-eighth to one-fourth inch-could be heeled in and re-planted in nursery rows next spring, and they could then, or grafting The larger ones should be kent in cool place where they would be available any time during the winter. It would not injure the trees if they were cut back when being stored away, provided the wood was thoroughly ripe. These tree could be grafted with plum scions. Better success would probably be obtained if the scions were grafted at the collar, and not on the root itself, as as apples do. 2. Although budding apples is becoming more method, grafting gives very satisfactory results nd can be employed, if more convenient. Pears cherries are nearly always budded.
3. If budding were performed on this year's
seedlings, the buds should be set near the surface of the soil. The reason it is better to do this than to put them higher up is that when the tree is planted in its permanent position the union will be tree where the union was made. If the trees are budded in the autumn, the stock should be cut off above the bud the following spring after growth has. begun. Budding could not be done satisfac not be enough sap to make the bark slip easily Buds can be kept over winter and inserted in the spring successfully, but in doing this it is absolutely storage. 4 . It would be difficult to tell what an average growth as it depends on cutting would be the firs average growth is 2 feet here. I would not recommend putting coal cinders between the rows of
grapevines. They would not amount to much as a grapevines. They would not amount to much as a
fertilizer, and the vines would do better if the weeds were kept down by surface cultivation of the soil. 5. No varieties of apples come true from seed.
6. Peach stones should be spread in a shallow heap on the ground in the autumn and covered with a light covering of soil, the object being to keep them moist and to permit of them being acted upon in nursery rows. Seedlings from the stones mentioned should be quite satisfactory for budding or grafting on. The plum and cherry stones could be treated the same way. W. Macoun, Horticulturist.
 he owing to improper feeding when he was young causing permanent injury to the digestive organs If the object is to fatten him, we would advise feeding a moderate quantity of roots, turnips pre-
ferred, mangels next. Potatoes are not often fed to cattle, but may be fed in moderation to advan tage, say 3 quarts at a feed, twice a day, sliced by choking when fed whole. A mixture of bran ond chopped oats or barley (two quarts of the mixture and sufficient for an animal that is) would be good health. Clover hay, cut before too ripe vigorous cured, is far more nutritious than timothy, and and just as certainly best for thrifty onty animals, would advise an examination of the animal's
mouth to see if his teeth are in proper condition.
wintering bulbs-bindweed-sick lamb. Subscriber, Huron Co., Ont.:-"Please give ladioli bulbs-the right time to lift, Wintering method of wintering. gooseberry slips
showed me, and which of a weed which a friend and he cannot kill it by any means of cultivation he has yet tried. It is a creeping plant, and grows and what mearsecould be taken to eradicate it? all summer, since she was about a month old. She seems to be pained at times, lies down and turns on
one side; when it rises its body nearly touches the ground. It does not matter? Do you think it can be tapeworm? What I1. On page 6.30, Nov. Ist issue, appears instr 2. Currant or gooseberry slips or bulbs. made at any time from late summer to spring are is advisable to make them in the fall, in order to season. They may be planted immediately and be allowed to callous where they stand, or they may spring. Currant and gooseberry cuttings until spring. Currant and gooseberry cuttings should planted in the fall, the beds should be mulched to prevent heaving; but spring planting is much more
generally followed. 3. The weed enclosed is bindweed (Comvolculus
trvensis), a description of which and means of eradication is given on page 575, Oct. 1st, $19(0)$, issue.
4 . From symptoms given I suspet the wool ball in the fourth stomach, formed by the lamb sucking the dam's fleece when young, a few
fibers being swallowed at a time and collecting in the fourth stomach, forming a ball. The said ball The causes pain, expressed in the manner stated when she will get relief for to displace the ball be the case, nothing can be done, and the lamb will cate tapeworm, but if such be present, they can be removed by giving (after 12 hours' fast) three or
four ounces of sixteen parts sweet milk and one part oil of turpentine; starve for eight or ten milking with wet or dry hande taik know, through, Montreal, (Que.:- I would like to way to milk a cow, to wet the teats with midoper keep them moist while milking, or to milk with the ". I have a cow that kicked continuously while finaly f arrived at ways neighbors suggested, and atherd a small hope romg in to her nose; to this then hww thowh prolleg at thoor beh behind her, and
then hathen to her right hind font. The rope is
 Theme considerate whon onf opinion, even

 mink arh cow, miking with wet hamply in hat

MARKETS

tamworth boar under one year,五


Chatty Stock Letter from Chicago.


Average weight of hogs the first ten months of this year:
232 Ibs. at Chicato, 214 Hbs at Kansas City, and 24t lis. ai
 Chicaro had 72,467 of the 96,779 increase in hog receipte Western range cattle receipts for the year so far abo
 Ctober, 1899, being the largest mont whas total, int larger than in


Toronto Markets.
The abundance of poor-grade cattle may be assigned ase one
of the reasons for the low prices. The mild weather of the lasit
few












 all inferior drades, , old down to $\$ 1.75$ per cwt. to 82.25 per c w


 LLmhls were in good demand, and sold well at from $\$ 2.50$ to
$\$ 3.50$ per head, and at from $\$ 3.50$ to $\$ 4.01$ per cwt. Not many on
offer. and wanted.














a message to garcia.



The Problem of Domestic Service. A Fequest has come to the Home Department of might be occasionally devoted to one of the ever
recurring problems of the day that of
 if through our columns can be established a closer
relationship between a great need and its suply the ADvocate will have the satisfaction of feeling that once more, and in still another direction, it Will have endeavored to serve itsday and generation. side and your side; our point of view and your point of view; whilst there seldom can be found a rule which applies with equal fitness to both. To To
this the subject of domestic help is no exception. this the subject of domestic help is no exception.
It is one of mutual dependence and of mutual obligation. It is made up of both give and take, of
bear and forbear, and on either side it calls for bear and forbear, and on either side it calls for
a full measure of faith and patience, two excellent a full measure or aith and patience, two excellent
qualiter which, in persevered in, always bring with
them a rich reward.
Given hoth of these, and add them a rich reward. Given both of these, and add
to them a determination to face things as they are and not as they were, nor, perhaps, even as we
think that they should be, thus recognizing the changed conditions under which we live and the
necessity for us to adapt ourselves to them, then, necessity for us to adapt ourselves to them, then,
we take it, we are not very far from $\mathbf{a}$ solution of the problem. At its present stage, from one side comes the cry of the worried and harrassed house-
keeper: "Where and or $!$ where are our houshold keeper: "Where, and oh! where are our household
helpers gone?" And from the other side comes the helpers gone ?" And from the other side comes the
reply: "To the factories and to the stores, where if our positions are not always of certain, tenure,
and our salaries leave something to be desired by way of margin after our board bills are paid, yet our own mistresses, and we can go to theatres and hand concerts, to big balls and little 'hops, with
Jack to-day and Tom tomorrow and who h', wis us 'nay'?" So speaks unthinkin who shath say us nay, So speaks unthinking youth, not
reaizing that in this very liberty Iurks positive
peril, for they are fow indeed to whom such peril, for they are few indeed to whom such
freedom of choice con with safety be entrusted.
There is sound There

## 

ertainly e venture think that for this evil ther certainly is a remedy, if we only set about looking
for it in a reasonable way. We would submit that while at its present state any way, it is hardly a a case case could be covered by, meeting of both sides, a concession from one, a little stiff-backedness from
the other and a more the the other, and a more thorough, all--round compre
hension of the first claims of each. The mistresses of today have learnt in the school of experience that if they are to get the help they need in the
carrying out of their household duties the carrying out of their household duties, they must
yield some points which were never asked of miedsesses in the old dayse never anked of they mive
their handmaidens more liberty and they mus their handmaidens more liberty, and must give they hust
undertake many tasks themsel ves. which. in undertake many tasks themselves, which, in
affording this liberty, would otherwise be left undone. All this has been long recognized as part
of the new order of things. (iirls who are not too proud to undertake domestic work do get a large
 according to arrangement, certain atternoons or
evenings "out, but maturaly they are expected
to he in the shelter of their ado a reasonable limit of time, for their employers, even while granting them this freedom, real ize, orshould realize, the personal responsibility of theirguardian-
ship. In the case of donestic service, then, there is no denial of a wholesome amount of variety in a
the girls life, but with it she has a sense of protection
and the comfortable assurance that she is and the comfortabe assurance that she no one orere
household. a member of a family, not a mere hoarder, that her comfort and convenience wilt he
duly considered, and her faithful performance of the duties she has engaged to perform recognized
and remunerated. There will be many swings of the pendulum before every moving wheel of Time's telltale clock is fittingly adjusted. The feverish rush after change and excitement amongst our girl
wage-erners will have abated. They will have
 gliters"' that the freedom they so eagerly songht
was but as dead sea fruit after all; that the Jack was but as dead saa fruit after all; that the Jaik
the Tom the the Dick with whon they laughed
and larked have either sought out as the wives of their steadier davs girls who had some idea
of homemaking hand homekeping or having
married theul and leanned how their previous
training had unituted them for the duties of wife-
hood and motherloood, were changed from the genial, jolly young fellows their fancy had painted them, ${ }^{\text {tith }}$ a right crose-grained, tault-finding husbands, wheir earnings and the indiesestible fool spending of quence placed upon their tables. We predict that the lesson will not be learnt in vain and before the next swing of the pendulum these will be the very
parents most dantage of the training in housewifery now being offered in nearly all our larger centers, as
well as of the subsequent practical application of such knowledge,first of all is paid a.sisistants in the homes of others, and then in the homes of which they themselves wiil become the happy mistresses.
The trend of present-day teaching being to elevate damestic service and to remove from it the old,mis. thken idea that it is a step lower in the social scale at the bottom of noarly all the trouble we can afford to leave the future to take care of itselif, as it seek fly wil; but it nevertheless behooves us to evil. Our housewives do ask for help and thes are sorely in need of help, but they are not likely to ask
it fro kind of freedomo, by their deliberate choice of the and cigar factories of the cities' prove the wholly unfitted for any home work at all, and it is could hed that just here the Farmer's advocate country, by inviting thoughtful suggestion of the forse who would naturally look upon this question the city home asks us to of view. The mistress of self-respecting farmers' daughters of the Dominion. tions, hem," she says, "that there are good posi. return for work certainly not, awaiting them in much less, arduous than that which falls to their they would earn, according to their on $\$ 10$ monthly be clear profit, nothing, as in the case of the em-
ployee in store or pioyee in store or factory, having to be deducted
for board and lodging. They would bring variety
into their lives ond into their lives,and would have many opportunities
for mental culture. They would thus laying up a little store of money, but also Q story be knolwledge and experience beyond all price. It is a country has overcoment her homee the girl from the mastered the details of her work, no employee is so intimed as herself. She is slower to form unwise friendship those for whom secting to admit into could have no respect, and for this, as well as or her intelligence, we ask her services. Will she And what says the mistress of the farm-the mother of these girls: "Yes, dear city madum, you give thems, they they are self-respecting and self. hands to anything and everything to lighten the toil on the homestead, and therefore it is that
we need them at home, and that is why we cannot spare them to you. There are some of us who are waithout danghters, and who have only our own would gladly pay for help if only we could get it,
but that is just what we cannot do and so the problem of domestie service is as much a problem to us as to you.
Perrhaps the idea that housework is degrading
and fitted only for those who for any other occupation may be converted to a different view by the opinion of a well-known riter and thinker, who says
divined that it takes as much sense and refinement sook a dinner, wash and wipe a dish, make a bed hs it should be made, dust a room as it should high society."

## Recipes.

Mix $1 \frac{1}{2}$ Ihs. raisins with the same of currants stir thoroughly. Beat 1 lb . of butter to a cream adding 1 lb of brown sugar. Beat te eggs light,
and sift 1 ih. of flour, and add the alternately to the butter and sugar, und beat well Add I tablespoon of mixed spices, and add the frui ast. Bake slowly four hours

One pint hread crumbs, I cup brown sugar, 1
teaspoon cinnamon, half a grated nutmeg and $\ddagger$ ib
 water: add I cup mola ssess, and 3 agkg well beaten,

Into one pint of boiling water stir enourh cor meal to make a thick batter or "mush," taking
Gare to have it free tom When cold, add seel theaspoonful, it $\frac{1}{2}$ tablespoon-
ful of hutter, teat
 Bake until hrown on top and one pint of milk. To be eaten hot or colld. and until it " "eft until cold, the
"owhey jellic

THE CHILDREN'S CORNER We think that all the little girls and boys fo whom our children's column in the ADVOMTE is
written' would like Lord Strathcona to know that written would like loy, just as provd of their country. and just as well abie to appreciate what he has
done and is doing for it, as were those other done, and is doing for it, as were those other
chitdren of Toronto who presented to hiili the beautiful little address written for the occasion by Mr. Hughes, which we print for them belo The presentation was made with some ceremony on Monday evening, 2lst October. The little girl who conveyed the message was escorted by a company of the Strathcona cadets, sixteen strong
dressed in complete khaki suits, who halted and faced about before the guest of the evening. After presenting her
what she said
" Dear Lord Strathcona: The girls and boys of Toronto welcome you to our city. We are proud were ready to go to Africa to assist our motherland when the call to duty came. We are glad to be Canadians, because we have so great, so fertile of our country depends on the trueness of the boy and girls, who will so soon be men and women.
We rejoice to know that we have so many brave We rejoice to know that we have so many brave
and true and loyal men and women in Canada whose splendid characters and great achievement efforts; and among the greatest of them all, your Lordship stands pre-eminent as a
model for young Canadians. Your long and model for young Canadians. Your long and
most successful business career, your able public life in Parliament, your honorable
diplomatic service in England, and es pecially your unequalled patriotism, have won for you our highest esteem and our deepest affection. All Canadian boys an and women
and so true

The Lookout Regiment.
The winners in the child-hero compe
The Alport school, near Bracebridge, Ont Class III-.J. H. Pilkey, Wexford, Ont.
Class III.-Lida Bowman, West Montrose, Ont. Ontario came out ahead this time, didn't of first prize in our last competition should be Hilda Bowman. The name seems to b a lucky one. You two Hilda champion I will announce añother competition next month-a nice easy one
better be on the lookout for it. better be on the lookout for of the "A" Company in West Montrose I hope you will correspond with the war office sometimes, Edith, and re
One of the soldiers writes
 look for good qualities in everyone that one knows?
I am trying to keep the rulles." Yes, my dear, that is just what it does
mean. If you were in a garden of roses you would not spend your time in looking at the thorns. What would you think of a person who was in a picture gallery, full of lovely pictures, and yet never looked at
them, but examined every little stain on the walls and floor with a magnifying hass. Everybody has sumethng nice in magnifying glass in an improper manner to grow if it is not checked in time. A cynic find fault with other people's work. He never waits to see whether he could do it any better
himself. The sketches sent in for the child-here himself. The skeches selow. I have been obliged competition are given below.
to shorten the first one a little.

A True Story of an Heroid Deed. "Parewell, sweet Maykin, farew.ll. (ood be
with thee to thy journeys end," said limt Hama
 besideged city with a parcel of hread falmost the bat
to be had in the city), and a rope tied about hee daint figure She was carefully lowered over the
wall and left to cary out her mission, with her

 Toget to him, Maykum :om hamd a lake and the began hed fourney. She i. . suer took t.ant from his nock mal then to he. hed


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lake only just in time, for a number of spaniards were already on the spot asking questions of the
wounded man. Presently some men came to the shore to search. Maykin waded out to her neck, her head under. She safely accomplished her mission, in spite of the dangers in put the letter in the prince's hands. s", but they roused the loyal peoplords-" Help esperate efort. Ma mas but a child in years but her brave deed exalted her far above the level of some men.

## A Boy Hero.

A long time ago a boy, about 1:2 years old. Who Whive in Holland, was coming he passed the many dye gates he heard water trickling out of a hole. He stopped to listen and hear where it was, hecause it was warked a way out. It was not a very big hole, but it would not take it long to wash to a big one. He wondered if He thought he had better stay, so he sat down and put his hand over the hole. He stayed there all night. and in the morning the people wondered what was the master wick that they had to carry him home. I think that boy deserves the name of him


Keeping tryst amongit the roses."
A Brave Boy
The subject I have chosen for the "prize compe-
ition" is about my (ousin Clayton, who had his arm crushed when he was about 8 years old. My uncle was cutling corn, and Clayton was helping
him with the corn, and he got his arm in some part him with the corn, and he got his arm in some part
of the machine and had it crushed as far as the elbow. Then he was taken to the house, and the
doctor was called. My uncle held his anm while the doctor was called. My uncle held his arm while the doctor took it off. Clayton didn't cry while the
doctor wak fixing it. It wash his right arm, and now
he can do anything with his left irm. He can write very weil with his left hand. It didne ceen

## The Bissickld Bird.



## The Rest Cure

At the nursing homes and private hospitals in many large towns the rest cure is a very expensiv remedy in which to indulge. Any woman with
sufficient strength of mind can, however, conduct it on her own behalf without leaving her home. It is done in this way : There must be complete isola written, and those that are received are to be put aside unopened. Only the lightest of literature is to be read, and it must be of a sensible and non
exciting character. For the length of time that exciting character. For the complete rest she must stay in bed -say for a fortnight or three weeks. She must not neglect her meals during this period ; in
deed, the more nourishment she can take the more deed, the mer cure will be. Milk is by far the most important item of her daily food. She ought to begin by drinking a gass or that is to say, if she finished her nights sarly. Then she takes another glass with her breakfast and another at noon. He ooclock tea consists of mink forbidden her. Last thing at night she has another glass of this exceedingly nutritious bever age. It stands to reason that her cure cannot be success unless she banishes from her mind every
worrying thought, and this she will find a very worrying thought, and this she will find a very
difficult task to do. She must drink no wine nor spirits, and when she feels that
she can come back to theworld with strengt she can come back to the world with strengt stead, she must get up for a short time each day, and return to her usual duties by
degrees.

The Message to Garc We call the attention of our readers to of note this training in loyalty to the duty nearest at hand, and doing the work hon estly and faithfully, instead of the dowdy slipshod and indifferent manner in which people faithfulness to duty comes as an in people faithfulness past. Many of us have her to learn it but it grows amazingly whe yet determines to be constantly faithful in performing the least duty as well as the greatest. Nothing is small in the making of character.

A quality like this is better worth possessing than material wealth, because good things in its train.

Keeping Tryst Amongst the Roses.
With Frank Smedley may we not say
of both girl and roses alike: of both girl and roses alike

Al jaureshors seeming
In yolden sunlizht leaming.

But whence, then, comes that wistful look upon the face of our Sweet Maiden
Rose as she awaits the coming of her lover at their trysting place It is a look as of flower she is about to pluck and place in her presently. But she knows, for her heart tells her so, that if he does not keep tryst to-day it is because he always to-morrow, and to-morrow we shall surely find her, fresh blossoms in hand, smiling and bright,

An Irishman, fond of expressing his views on things in general, had the habit, when he had no listeners, of talking to himself. A countryman of his. meeting him one day, said to him: "Pat, doesit the yon is yo (1) yourself is a great annoyance to people who happen to be about? Why do you talk so to yout." "And what are they, pray?" "Weel, wan of hem." replied Pat, "is that I like to talk to a sensible man, an the other is I like to hear a sensible hat talk. 'urate. "Oh-er-by the way, Mr. Bloggs, 1 was
wondering whether you would give me a small subWondering whether you would give me a mean the repairmp of the cemetery, wall." Wealthy Paront any therairing. Them as is inside can't get

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THE QUIET HOUR.
The Duty of Praise.
Thou laset done well, perhaps,
To lift the bright distuise
And lay the bitler trinth
Betore our hirluk king e
Whenevilcrawls beelow
What scems so brith
What secust so bright and fat
Thine eye she eeen and true
To find he serpent here:
To tind the serpent there
And yet It turnaway
Thy task is not divime,
The eviliangels look
On arth with eyes. like thine
Thou hast done well, perhaps,
To stow how closely wound
Dirk threads of Sin aid Selif
With our beet deedd are found:
How great and noble hearts,



Why is it that a whisper of wrong-doing is
passed from mouth to mouth, increasing like a snowball as it rolls along? Why do we eagerly retail the faults of our neighbors, while their
virtues are unnoticedand seldom mentioned? A few kind individuals, indeed, run to the other extreme
and praise everything and everybody. Such indis crimmate praise is worth very little: it is altogether
too cheap is too easily won. If is is not true, if it is undeserved, then it has degenerated into flattery,
and flattery is very harmful. Some people take great pleasure in giving others "a piece of their
inind," as they say. When the visible supply of fiaults runs short they hunt eagerly for more material, and we generally find what we seek for. We are not given to praising overmuch, and we
are not bold enough to tell a man of his faults face are not bold enough ort tele rather in cheerfully and
to facce. No, our forte lies rath behind his back. Of
pleasantly discussing them beh course, as soon as our backs are turned the rest of
the company begin to pull our characters to pieces the company begin to pull our characters to pieces
in the sime iriendly fashion. To be quick to detect
flaws is not a mark of genius, nor a proof that we Haws is not a mark of genius, nor a proof that we
ourselves are above criticism, it is rather a sign of spiritual pride. Our fault-finding is an admission respects at least, than the persons criticised.
Praise which is just and well-merited is a grand thing with which to help our cumrades along.
Many are toiling day after day at we srisome duties, without a word of cheer and encouragement from
those who love them best. Do you ever dream of praising a well-cooosed dinner, or a nicely-kept
house? Do you tell the children you are pleased with them when they are well-behaved and obediant: Do you ever give a ew words of en
couraging praise to those who are hired to do your join the children's "Lookout Regiment," and try to be on the lookout for good qualities in everybody
we meet, instead of heing on the alert to detect faults. Love is not blind, for God is Love and He knows us through and through, but it is our virtues
that He specially watches for and encourages. He never quenches the smoking flax, but rully this is shown in the parable of the prodigal son. The
father does not question the motives which brought father does not question the motives which brought
his son to him again. Fear of starvation was not a very worthy motive, but such a loving recep-
tion of one who knew himself to be so unworthy Would surely stir up more genuine sorrow for sin
than a cold, critical investigation of motives and reasons which would have had the effect of making the son try to justify himself. hronging the market-place of a Syrian city, and looking contemptuously upon a dead dog, with a
halter around his neck, by which he had been hrage through the dirt. ""It pollutes the air,"," said another'; :Cne could not even cut sandalstraps out of it." A fourth spoke of his ears,
draggled and bloody a fifth declared "he had no wht been hanged for thieving." But there stood thing their jeers at the dead dog, drawn near.
There was a strange light about his face, and in his There was a strange light about his face, and iooking manner a strange dignity and grace ano doking
duwn compassionately upon the dead animal, he
ditil: "parls are not equal to the whiteness of ii teeth." Then the peonle said among them-
Nes: Who is this: This must be Jesus of wareth, for only He could find something to pity
and approve even in a dead dog, and in shame
,ine



 Wher. Is Corge that Fights of every weakest

his assistants, do we? Let wather take up the
divine task of pleading for wormen hrethren, and en-
couraging them to fresh couraging them to fresh eft
Actors know well the Actors know well the mucessity of a little
applause to help them in play applause to help them in playing their part well.
In an American theatre a celwhrued actor came to
the manager when the the manager when the play was half oover, and said :
"I can't go on the stage again if the pit keeps its "I can't go on the stage again if the pit keeps its extinguish Atna." The manager at once told the
audience that Mr. Kean mistook their silent attention for disappointment, and accustomed to be bey
not applaud him as he was and
applauded the applauded, they. could not see him act as he was
accustomed to act. The audience took the hint
and their hearty actor. It is exactly the same on the stage of life no one can act his part enthusiastically and heart-
ily if he is treated always with cold and chilling disapproval, or constan ty discouraged by scolding
and nagging. If it is true, as Sidney Smith has said, that among the minor duties of life nothing is more important than that of not praising where
praise is'not due, it is surely even more true that one of the duties of life is to praise where praise is due. "The world is full of men and women who
are living unhappily and rusting in comparative
inactivity, or doing but a the inactivity, or doing but a tithe of the good "they
might do, for want of a little judicious praise."

Our Boys and Girls' Department.
My dear Boys and Girls,
Quite a number of very good essays sent in in response to our first contest, and I am
much pleased with the sentiments of patriotism and pride that permeate one and all. Those were
the very sentiments I desired to evoke when I the very sentiments I desired to evoke when I
called for this particular essay. I have often felt called for thas particular essay. I have often felt spirit, which is so essential to the building up of
heroes for the future, the material for which we

at Queenston lleights and
among the mavest deeds of hirimy and shink
among the brightest on the som! of famm, It is,
 Canadan and how dmat on the heart of rach loyal of the nations,"stands sevent hincommereanomg
the vast number of contintes in the world. Her ships ride safely oer the ". monntain wave " to
mother England. to distant Imdia and Xustralia, and to all parts of the civilized art he she controls her own. She has one of the best systems of government, and the best of educatimal :ystems:
a happy present and the brightest of futures. Why should we not love such a country and endeavor to should we not love such a country and endeavor to
lift her to a still higher position among the nations No country has more beautiful scenery than thousands from Europe, U'nited States, and else where. All Europeans admire our Canadian woods with the exquisite beauty of our Canadian lakes. Travellers gaze with astonishment and admiration at the grandeur of the Rocky Mountains; the mind of the spectator rests on their snow-clad peaks, rising far in to the clouds, or the green plain below. proud of and therefore love such a fair homeland as this ('anada of ours.

##  <br> Forth tand of the thistie, the thanrock and rose. <br> 

## Continually Fizzing.

A man who stammerca very much was taken of being drunk and incapable. His
name was Sissons. When asked his name was Sissons. When asked his
name, he began "Ss-ss-sss-ss-ss-ss
ss-". The Bailie turned around, and ss--" The Bailie turned around, and
said-"Stop that noise, and tell your name at once." The man again began-"Ss-ss-sss-ss-ss-ss-ss-- - " The Bailie very
angrily turned to the prisoner and said "I commandy turned to the prisoner and saidtell your name." The man began as
before " Ss s-ss-ss-ss-ss.ss-ss- Th is was more than the Bailie could stand. Turning to the Policeman, he angriy with?" "I should say, yer Honor, that
he is charged with soda water."

## A Grand Offer.

The Farmer's Advocate, which al. find in our youth of to-day. Individually we may find in our youth of to-day. Individually we may
not be able to accomplish much, but by each doing
his or her best to place our noble country where his or her best to place our noble country where
she should be, the equal of the proudest, what a she should be, the equal of
powerful total we shall make !

> Men who their duties know,
But know their rights, and knowing, dare maintain,
Prevent the lont. aiml dlow
> Prevent the lont ainild blow,
And crush the tyrant whil they then the chain :
These constitute a state."

The prize in Class III. of this competition has The prize in Class 11 . of this competition has
been awarded to Verne Rowell, Bryanston, Ont.,
whose contribution appears in this issue. The udging in the high appears in this issue. The ut final results will appear next issue. Only a few days remain till the close of our Christmas poem cousins to get in their work.

Which do you consider the ten best novels We offer three prizes for the three best lists, the winners to be determined in the following manner:
Every mention of a book will be equivalent to a vote, and the ten books having the most votes will be taken as a model, and the lists most nearly This is an easy contest, is open to all, and costs nothing to try, so I hope a great many will enter.
It will be interesting to know just what works fellow-readers most enjoy and to compare them with those of our choice. This contest will close December 5th. Address, as before, Mis
Pakenham, Ont. Come one, come all.

PRIZE ESSAY CLASS III.
Canada -. Why Do We Love Her? The brilliant victories of our hrave Canadian boys on the burning plains of South Africa, the
celebrations of these victories and patriotic noem which flow so freely from,our poets pens, all tend
to show the love of Canadians for their count to show the love of Canadians for their country.
But soldiers, poets, and all have good reasons for their love and loyalty.
Canad is our homeland, the home of our noble ancestors, whio so gallantly a and freely shed their
life-blood for their native land. Their brave deeds
this ont car something an who
 piaidup suler sthis: Yort the names of two neen tracelet, with noadiok hanas. kene eurt hink silive


 These bracelets for one tom to thirteen of thesese heartse thas or ther new sumery pionswin the sent the
 portion. Thees bracecelestares all the ragec just tow
 very natural desite To mhe then itulue takskitheets hem ease and plasent, it authorizes shem th





 thier witss there it on reatan whiw yumens dpon


 new subseribery thoses not atreaty yaking the








## Our

## Farmer's Library

## A

RECENT bulletin prepared by Prof. J. B. Reynolds, of the Ontario Agricultural College, gives a list of meritorious books on Agriculmade a selection and added a few others. How to obtain, see below

## SOIL AND CROP.

F FERTILITY OF THE LAND. - Ros, $\$ 372$ pages
A BOOK ON SILAGE.-Woll. 185 pages. $\$ 1.00$.
SOILS AND CROPS.-Morrow \& Hunt. \$1.00
Thos. Shaw. $\$ 1.00$
OILING, ENSILAGE, AND BARN CONSTRUCTION. - F.S. Peer. 247 pages. $\$ 1.00$ LIVE STOCK.

| THE STUDY OF BREEDS |
| :--- |
| 60 engravings. $\$ 1.50$. | HORSE BREEDING.-Sanders. 422 pages. $\$ 1.50$

LIGHT HORSES-BREEDS AND MANAGEMBNT. 226 pages. $\$ 1.00$.
HEAVY HORSBS S-BREEDS AND MANAGEMENT. 219 pages. \$1.00. Vinto
CATTLE-BREEDS AND MANAGEMENT. 270 pages. $\$ 1.0$
ATtLE BREEDING,-Warfield. 386 pages. $\$ 2.00$.
THE DOMESTIC SHEEP. -Stewart. 371 pages. $\$ 1.75$
THE SHEEP.-Rushworth. 496 pages. $\$ 1.50$.
PIGS-BREEDS AND MANAGEMENT.-Sanders Spencer. 175 pages. $\$ 1.00$.
FEEDS AND FEEDING.-Henry. 600 pages. $\$ 2.00$
GENERAL AGRICULTURE.
AGriculture.-C. C. James. 200 pages. 30 cents.
IRST PRINCIPLES OF AGRICULTURE.- Voorhees. 207 pages. \$1.00.
AGRICULTURE.-Storer. 1,875 pages, in three volumes. $\$ 5.00$.
CHEMISTRY OF THE FARM. - Warington. 183 pages. 90 eents.
FARMYARD MANURE.-Aikman. 65 pages. 50 cen
barn building. -Sandêrs. 280 pages. $\$ 2.00$
IRRIGATION AND DRAINAGE.-King. 502 pages. $\$ 1.50$
RRIGATION FOR THE FARM GARDEN AND ORCHARD.-Henry Sterart. $\$ 1.00$. SUCCESSFUL FARMING.-Rennie. 300 pages. $\$ 1.50$, postpaid.

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american dairying.-H. B. Gurler. 252 pages. $\$ 1.00$
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| No. 14 silver |  |
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| $7^{7}$ Jeveledd dient y |  |
| 15 Jeveleded gents |  |
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\begin{aligned}
& \text { No. 16. Sterling Silver Swiss Chate- } \\
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\begin{aligned}
& \text { No. 17. Nickel American O. F., large } \\
& \text { size............................... }
\end{aligned}
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\begin{aligned}
& \text { No. 18. Gun Metal American O. F., } \\
& \text { large size................. }
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No. 19. Nickel, small size..............

$$
\text { No. 20. Gun Metal, small size........ } 10
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\text { No. 21. Sterling Silver, small size.... } 10
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## Description of Watches

 The accompanying cuts fairly, well represent all the Ladies and Gents' Watches, sent all the Ladies and Gents watches,
and a description of each as numbered is as follows
No. 1. American Nickel Key-wind Boy's Watch that is absolutely guarante e satisfaction. No. 2. Gent's Nickel American O. F
Watch ; stem wind, and push-in stem and turn to set hands. This is a very strong, reliable Watch.
No. 3. Same as No. 2, excepting that it
has Gun Metal case instead of Nickel case.
No. 4. Is a small No. 4. Is a smaller-sized. Gent's Watch,
has sterling silver case, O.F. Screw Back and Bezel; stem wind, and push-in stem and

$$
\begin{gathered}
\text { No. 15. Gun Metal } \\
\text { laine } \ldots \ldots
\end{gathered} \begin{gathered}
\text { Sew } \\
\text { Swiss } \\
\text { seribe }
\end{gathered}
$$

No. 22. $7 \begin{aligned} & \text { Jeweled Elgin in } 20 \text {-year } \\ & \text { Filled Hunting Case } \ldots 2\end{aligned} 2$ No. 23. $7 \begin{gathered}\text { Jeweled Elgin in 25-year 22 } \\ \text { Filled Hunting Case }\end{gathered}$ No. 24. $15 \begin{gathered}\text { Jeweled Elgin in } 20-\text { - ear } \\ \text { Filled Hunting Case } . . . \\ 23\end{gathered}$ No. 25. $15 \begin{gathered}\text { Jeweled Klgin in } 25 \text { year } \\ \text { Filled Hunting Case } \\ 20\end{gathered}$ turn' to set hands. This is the lowest-priced
 and most reliable Boy's or smat.
Watch that is on the market.

No. 5. Is fitted with 7-Jeweled Nickel, firstNatity Elgin movement. The case is a 3 -oz. 0 . and bezel case.
No. 6. Same movement in Gun Metal or Black teel screw back and bezel case.
No. 7. Same movement with Sterling Silver back and bezel case.
Gold Filled O. F. screw back and bezel guaranteed
case.
No. 9. Same movement in 25 -year guaranteed
 Nos. $\mathbf{1 0 , 1 1 , 1 2 , 1 : 3}$ and $\mathbf{1 4}$ are fitted in the
same style of cases as Nos. $5,6,7,8$ and 9 ; the difference is in the movement, and the movement is 5 -Jeweled Nickel, first-quality Elgin movement No. 15. Is a small-sized Swiss O. F. Gun Metal
Chatelaine IVatch. Chatelaine Watch
No. 16. Is thesame, only with Sterling Sil Nos. $\mathbf{1 7}$ and $\mathbf{1 8}$ are a good-quality American Watch, O. F. stem wind, and push-in stem and turn to set hands.
These are a little larger than the usual These are a little larger than the usual
Ladies' Watches, and are smaller than the usual Boys' Watches, though can be used for either Boys, Girls or Young Ladies. Nos. 19, 20 and 21 are small sized ; in American Watches, O. F. stem wind, and push-in stem and turn to set hands, and
are first-class timekeepers. Will give perare first-class time
fect satisfaction.
If a nice leather wrist case is desired With these
Nos. $22,23,24$ and 95 are similar to the accompanying cut. These are regular are fitted in 2() -year guaranteed (iold Filled
 plain of plain engine tumed, and the sam applies to Nos. 2.3 and 25, excepting that they are fitted in 25 -year guar anteed (Gold Filled cases, and 14 k Gold Filled; 22 and 23 are fitted with 7 . Seweled Nickel, first-quality Elgin movements. Nos. 24 and. 25 are fitted then Nickel, first-puality Elgin movements
When making your choice of Watch as premium, be sure to
mention its number as given in premiun list, also whether Gaty's or Gent's. WED ORT

November 15, 1900


GOSSIP. Hie dispersion Sale of mr. John isale The catalogue of Mr. Isaac's fine herd of
Shorthorn catle to be sold at Kinellar Lodg
farm, Markham, Ont.on Dec. 18 th, is out and Shorthorn cattle to be sold at Kinellar Lodge
farm, Markham, ont., on De.. 1sth, is out ani
ready for mailing on application, as per his eady for mailing on application, as per hit
dvertisement. The catalogae embraces the
dedigrees of 53 head of high-class cattle, 4 o hich were imported directly from scotland best included in the list but which also rank as
notity
imported animals, while the balance are nearly
oll bred from imported sires and dams. These attle were selected for Mr Mr Isans. by his
ausin, Mr. Campbell, late of Kinellar, and were intended for a toundation for a arge
Canadian Kinellar Loodge herd than has been he farm having been enlarged this year by the
purchase of an ajoining ropacrs of land; but
he critical state of Mr. Isaces haalth has nd seek a change of surroundings, and having he farm for a term of years, and reluctantly位inquishes a herd of cattle which any man his herd at this time, while regrettable on ac
ount of the circumstances which render intueces if everbeen offered to the breeders and farmer or herds or fanilies, or for replenishing herds the growing demand for Shorthorns in th
st few years. Having been selected from arith number of herds, thorigh mostly identifie
with well-kown poular families of Aberdeen
hire , buorthorns, there has been noclose inbreed nerit have contributedt oproducing the robust
feshy a animals which make un the sale list lesty animais wity of the 45 females are in calf
The great maorited sires in Scotland, and several have
o noted
 vorite family of that name, a son of Emanci pator, sire of many good ones, including Golden
fame, sold at Mr. Flatt's chicago sale in August
 on short legs. that it would seem invidious to
nake any distinctions as to which are likely o be favorites at the sale, but close up amongst
he best will probably be rated the wealthy
 uill, Norseman. She is of of the the nont popparel
attern. round -ribbed yet deep-bodied, with hickly, fleshed back and handsome head an
orns, just the kind a cow one would like to oreed a bull from. The red Kinellar Rosebuc
Cow. Golden Belle, by Mr. Bruce's Moontone
of his magnificent Maytlower family, is anothe of the matrons combining size and quality in
high degree, and withalis adeep milker, earry
ns a shapely udder and a milk mirron that vould excite the eny of a dairyman. She in
 red Spicebox- with Gravesend for grandsire a favorite in the herds of Captain Barclay and
the Duke of Richlond. She is said to give
milk enough to raise two caly wes well ooks it every inch. Damsel lind, a red tyear Id daughter of the Collynie-bred Prince of
Cashion, by Scottish Archer, sire of the Roval hampion, Marengo, and of many other notel


 ccurs, pedigree of similar tyy shorthorn in which the last-named pair while the Ury guartette, all reds and of nuiform
oxcellence, , wll represent that farorite tribe so
long bred at Kinellar, and which has produced Many prizewinning and high-selling cattle is
his country. The Kiblean Beaty cow. Essi Ind, by the splendid Star of Morning, dam by
Couchstone sire of the champion Corne
 oung cow, a daughter of Clan Alpine,
y bondomar,and of the Princes. Roval fanily
nd has at her side a young bull calf of extra rdinary promise, a son of the Lancaster bul
Prince Louls. This youngster has evidently a
 ion of all the cows in the list, and detaile
leference to the strongest feature in the herd hegreat group of 15 in-calf 2 -year-old heifer
he great
will have to stand orer for our nex issut
intice it now to say that we believe it is safet tate that never before has an equal number
tuch quality and character been offered at on
He in the itominion. What Muld make for a herd! "Big on short leges reed type and the best of Scotch pattern, for
vealt hof flesh and hair, depth and spring of





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 thatit contains no oooaine nor for the remedyLutely sate to use at any time. Die of the suppositories is ipplied at night, is
aborbed, and the cure is anturana and painless.


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GOSSIP.










 be one of the best sires in scotland. Four
strong, sappy yearling bulls of grand quality
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seasonin to her, and
o to Nova Scotia, where he won the sweep. stakes at the Provincial Fair this year. He is
a massive bull of grand quality, 放d is illus
Irated in the picture, "Canataris Ideal.". Three are red and
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HACKNEYS



 horace n. Crossley,

Clydesdales--Hackneys, W:inlorm
 H. Bennett \&e Son, St. Williams, Ont., write,
U.e have had splentid season for salle., The
Leicestern we ofter



 of York $=2+501=$ and three of his ket. I won wo
special at Caledonia for best bull and three of
his offispring. He is now for sale, is four years


 W. . . Pettit \& Son, of Freman, Ont. report
the following sales of Shorthornh. :ho Mr.
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-howrard candidates.
Mr. J. M. Gardhouse. Hightield, ont., who








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November 15, 1900


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at the Kansas COty Show, in the shorthor
clats, by agses, except for heifer calves, which













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The sweepataes
age Mr Mukhouser being judge), weit to








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ames of the Herdbook, Nos. 17 and 18 , of the meerican Ho this year. Vol. 17 contains the
 ecretary of the Association is Fred. L. Hough Vols. 17 and 18 aiso contain vols. 10 and 111 of
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Nulls Nos. 135 to 148 and cows Nos. 1595 to 1733 espectively, The secretarरof Ad Manced Regis ter is S. Hoxie. Yorkvi.
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orseman, Sir Walter (Gilbey. The book was suggested by the increasing attention during





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