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Yow XXXV
WINNIPEG, MAN., AND LONDON, ONT., OCTOBER 20, 1900

## Thanksgiving

The recurrence of our annual national Thanks giving Day brings with it reminders of the blessings of a beneficent Providence which in large measure have been realized by the Canadian peopleduring the year. Peace and plenty are terms which have for song a period characterized the condition of ou people as a whole, thin tomparison with the ex peasily leads to the acknowledgment that we have been a highly-favored people. It is true that the war cloud which a year ago had settled over South Africa, menacing the life and liberty of British subjects, and which later on broke in fury over tha unhappy country, roused the patriotic spirit of on people and found a ready response to the call for volunteers to defend the honor of the nation, and that as a consequence there are some homes which are saddened by the loss of brave sons who laid down their lives for their country. The bereaved families have the sympathy of all, and the names and self-sacrifice of those who have fallen in the service of the empire will be honored and cherished by our common people. There is, however, great
 at peace with our neighbors, and ha lamentable continues to enjo inevitably comes to a land which is so unfortunate as to be the theatre of war.
The material prosperity which our people hav enjoyed for the last few years gives promise of continuing. The farmers of this federation of Provinces have on the whole had a good year, the crops in all but one having been well up to the average of good years. Owing to exceptionaly adverse weather conditions, the farms of the Province of Manitoba have not given the usual generous returns for the labor bestowed upon them, but the is a contingency that is lame will not seriously check Province occasionaly, the progress people, who have full faith in the future of the people, and courage to demonstrate their confidence in its resources. Fortunately, a good proportion of its farmers have heeded the admonition to devote more attention to live stock, for which a good supply of feed is on hand, and which will serve a good purpose in this emergency in tiding over a trying year, and will furnish an experience from which lessons may be learned that will helpfifl in ordering their future operations.
Live stock in nearry every ine has heen in active demand at good prices, the mare hile cattle of the cially having gell us the dairy breeds, have sold deef hrceds, asfactory figures. The dairy business has had one of the best years in its history, the pastures having in most sections kept unusually fresh thronghout the summer season, producing a large and stealy How of milk, while prices for cheese and butter have kept at a higher average standard than for years. The demand for pork products suitable for the export trade has been
uncomoulv good during nearly the whole year, ancommonly good turng hearty entinuously Is an adjunct to the dairy business, the raising of pigs has been one of the test-pay cheese factory, farming, the by products of the cheesely ased at food for pigs, and large numbers have lwen raised and prepared for market at and
sold at paying prices, sold at pardicating the undonted properity with Which erful expanion in the export trade of the Wonderfin in agricult ural prodicts in the lat few
from a few leading articles, showing that our sales of butter during the past year have amounted to over $\$ 5,000,000$, while in 1896 they were only $\$ 1,000$, 000 ; of eggs, $\$ 1,500,000$, as against $\$ 800,000$; of cheese, $\$ 20,000,000$, as against $\$ 3,000,000$; hacon, hams and pork, $\$ 12,800,000$, as against $\$ 1,450,000$, wheat, $\$ 11,500,000$, as against $\$ 5,000,000$; poultry $\$ 2,000,(000$, as against $\$ 18,000$; and apples, $\$ 2,500,000$ as against $\$ 1,000,000$. Our export trade in stock to the United States in the same time has grown by leaps and bounds, and whe of Great Britain exports of beer cate unsatisfactory ocean Britain (owing partiallo in as great a ratio freight rates) has not increased in as great a rate to the feeder have been fairly satisfactory. Importations of pure-bred stock have been on a larger scale than for many years past, indicating an active demand, and while a large proportion of these have been sold to go out of the country, stil a considerable number remain to be used as breed ers to improve the home stock, and those sold have realized a fairly good profit to the importers.
The influx of population to our western proviaces especially, has been a marked feature of the year, very considerable area of agricultural hand having been taken up, and largely by thrifty and indserming people, who are the thell for the stand We may well be than products in the British taken by our breeding stock in that of the United States One of the strongest reasons in the United stant of our affairs and in the outlook for presentagement is the decided intellectual activity aroused among the farming community, and which is steadily increasing. The farmer, his wife, his sons and daughters, are awake to the importance of true education-more in practical lines, a change which must inevitably come more and more into our educational system, from the primary and public schools up to our colleges and universities. The agricultural press, Farmers' Institutes, associations and conventions, all have their part in this uplifting to worthier ambitions, and as ours is largely an agricultural country, its prosperity is essentially dependent on the character of its agricuture. No country is more heathful for man or beast; ne people more active or aggressife, miant and as no plodang, more hoperur or seadily to good times by spending their money freely than the farmers, so no other industry can stand the strain of adver sity as well as can that of agriculture. The indus. trious farmers are the salvation of the country - the farmers feed us all and their interests are worthy the most intelligent consideration and generous en couragement of those to whom especially the great national interests have been entrusted.
Argentine Shuts Out British Breeding Cattle.
Ne have it on the authority of the live Stoch Journal (Eng.) that the Argentine (iovernment has issued a decree prohibiting the further importation Britain and Ireland. Shipments that were on the way when the decree was issued would be allowed traces of foot-and mouth disease. The step is aid to he the result of an outbreak of that disease hav ing occurred among a cargo of fine stock imported to the Argentine from England on one ofthe steam ers. While the cablegram bearing the news to England mentioned only cattle, it is presumed that sheep are also included in the prohibition. This decision on the part of the Argentine (iovermment
is felt by British owners of pure bred herds and hocks to be an unforturate oormence, sime best custopler, especially for high-priced Short
horns and Lincolns. While it is possible that the movement has something of retaliation in it for shutting out live animals from Argentine, stili. at the same time, it is not for breeding stock until there is a real need the situation then, from Britain. Aa veuld of tie sor our Dominion Shorthorn Breeders' Association to set about, as has been frequently urged, a movement to capture this market which Great Britain is so loath to see slip from her grasp. Canadian breeders have been importing liberally of late years from Great Britain to improve their herds and supply the increasing demands on the continent, so that with none going to the Argentine, they will now have a better choice and more favorable opportunities to buy from the Old Country herds.

## Judging at the Fairs

Now that the leading fairs of the year are over, and the incidents of the showyard campaign are fresh in mind, a review of the judging of live stock, with a view to deducting lessons that may lead improvement, may not be out of place. While recognizing the hopelessness of ever arriving at a period when the selection of juages can be made wholly satisfactory to all exhibitors, we are yet of the opinion that in cour, more satisfactory judging secured thaties in the ing Canadian exhibitions. Chis apples in the broad, generai acceptabion, from bias, and it is a as of fairness and fize and commend the wholesome please accept the generally thankless duty of placing the awards on the score of merit. That mistakes are sometimes made is admitted, but that is only human, and, as no man is infallible, these may well be forgiven when it is evident that they are errors of judgment only, or arise from the accidental overlooking of a defect for the time being, or the failure to give sufficient consideration to some point or quality of merit at the time. Then, there is the question of difference of opinion to be reckoned with, and the possibility that what appears to one a mistake may in the opinion of another seem justifiable and proper. In this, ariticise or to find fault than to do better work, as many a preacher and many a teacher, as well as many a judge of stock, firmly believes, and for this reason they doubtless think, as we are disposed to admit, that criticism might well be characterized by more charitableness than is usually evident on the part of the public and the press.

The question of the number of judges calculated to do the best work and give the most general satisfaction is one that has not been finally setted, and is a perennial subject of discussion and diference of opinion, though it has clearly come down to a questiong one when, if each man holds out for his own opinion, as he should if he has any decided preference, a referee, who is practically a single judge, breaks the tie, though he does not thereby necessarily declare that his favorite in the field has been given premier pace. That this is possible was plainly demonstrated at the Western fair, where, under a single judge, a heifer which at Toronto was placed first by the two acting judges was relegated to fourth position at London, the competition being the same. The reasonable infer ence is that, if the two judges at Toronto had disagreed on the disposition of first and second honors, and the judge who acted at London had heen called as referee, the heifer placed fourth at the latter place would have been second at the or ther, and we the have said it was wrong, and yet it is clear she was

THe E'ARMER'S ADDOCATE and Home Magazine. ther leading agricultural journal in the dominion.

not the choice of the London judge for even that position. This is only one instance of a number of reversals of the placing of animats in the varions classes at che turee primcipal Ontario shows this who look to the judges for a standard to go by, and it does seem reasonable to expect that competent judges should come more nearly to agreeing on the juages se placing of the animals in competition on the basis of merit. Of course, in some instances one animal may go off in condition in the interim between fairs and show to less advantage on its second or third appearance, but this contingency did not apply in the case we hate cited. While we have no hesitation in stating our own preference, as a result of experience and observation, for the single-judge system, we have no quarrel with those who prefer to trust to two rather than to one. with with provision for a referee if they differ. The difficulty in the latter case seems to be that some men lack the courage to disagree, and that comthe real judgment of at least one of the twain, who may be the better judge and the freer from bias. As an alternative expedient to those who are timid be as stong amb anomy who merve as is thought desirable, we conement for consideration the practice whot w. . . Whe has hen adopted at one

is the single judge who has been entrusted with the work and who knows he will be held personally accountable for its prosecution, and cannot shift the responsibility, since he must either have concurn judgment after the conference. One thing which appears to us important to be kept in viers both in the appointment of judges and in the actual work of judging, is to aim at the encourage. ment of a uniform type in each breed or class, having due regard, of course, to constitutional vigor and usefulness, and to suitability to the demands of our best markets. With these things in view, the work of the judges should show as much uniformity and consistency in rating as the character of the material brought before them will admit.
The suggestion that judges be required to give reasons for their rating of the prize animals, while it may in theory seem reasonable, is scarcely practicable on a large scale, since it would take best judges would shrink from the ordeal of a public address, for which they have had a public address the tendency would be to bring in talkative theorists having hobbys and fais to bolster up, and that class can invariably frame a plausible reason for their work, even if it be wide of the standard approved by well-informed and up-to-date practical men. The almost universal failure of the score-card system to give satisfaction in the public judging ring, when on trial, well confirms our contention in this regard.

## Improvement in Fair Management.

ffrom our eastern edition.]
Sir,-I have read and re-read your most commendale and well-written editorial article in Sept.
15th issue, "After the Exhibition," and while I heartily endorse it in the main, still I quite realize the great strain agricultural fair boards are making in order to run their concerns to a financial success, oftentimes accepting money from shady men managing side shows of questionable character, which I do not in any way justify, but rather
excuse, because directors are not exercising that careful selection of these that they should. Should an objectionable side show creep in, it should be promptly excluded from the grounds, and it is the duty of the local police in the corporation where the show is held to enforce the law against any very well to hold up the Royal Society of England as a model, but we have not arrived to the same plane as it, and we cannot hope to until the same patronage of wealthy and influential people is sympathetically bestowed, as it is in Britain. Can you explain why it is that the "select 400 " of
Toronto are not to be met in the hallways of the Toronto are not to be met in the hallways of the cattle and sheep buildings or at the side of the people, of course, are to be seen, but no general turnont of the elite. Is it for the reason that we that it is the correct thing to give commendation and encouragement to the successful breeders and feeders of prize animals? Speaking (or, rather, writing, in this case) generally, the manufacturing interests were not represented this year, and it looked to me as if the gulf between urban and rural people were widening. Now, if you abolish a certain class of catchy grand-stand performances, as well as the side shows, where is the money to come from to paty prizes? Gate receipts and entry believe that exhibitors of stock, etc., do not pay entry fees in proportion to the prizes for which they compete, probably not over one-quarter of that a man would réquire to stake to enter a horse in a race.

It would be a distinct gain to many boards, preserving them from falling into ruts, were steps taken to secure the presence upon them from time would of new men, whose character and capacity with infuse the exhibitions under then charge might say still more in regard to this matter, but this is enough to show where I stand. I shall be glad to see you hammer away and set the brains of drectors to and in affording opportunities for riewing live

Thankseiving Day.
sed Thursday

Favors the General Purpose Stallion.
Io the Editor Farmer's Advocate:
I notice, in your issue of Sept. 5th, that your I notice, in your issue of Sept. 5th, that your representative aty foriety for giving prizes to friendly hit at our Society for giving prizes that general purpose stallions. It is the of adion with mares of any weight, say over 1,350 lbsw, is a mistake : for in breeding horses for farm work we generally look for an increase in weight, however slight, coupled with a constitution better than either sire or dam possesses singly. But when we come to the breeding of mares of say 1, (HW) lhs. to $\$ 1.2010 \mathrm{llos}$, and over, then the question arises, is it advisable to use your 1,800 or $1,900 \mathrm{lbs}$. registered stallion? The result of such use is often a nondescript colt, with (lyydy legs and a body out of all proportion an ungainly usefulness of the general purpose stallion comes in. Bred to mares of the last-mentioned weights, you get, as it were, a step up the ladder of improvement a clean-limbed colt with a hody to match,
fit for the farm work this mating was intended to produce. This colt will be, then, a decided increase produce. This colt willa, and this is the colt that by gradual improvement (in weight, size and shape) is fit enough. G. 1. It may be said, on behalf of the non-use of the G. P. stallion, that he may be unsound. Are not registered stallions and mares also found which are
unsound? It is claimed that the (i. IP. stallion ansound e. It is claimed that the stamion may "throw back," and perpetuate the poor qual-
ities of his ancestors. Not if intelligent selection has been made in regard to the parentage of such a horse. Probably these are the views of many of the and as long as there are such general purpose and as long as there are such general parpose and former shows, the Society need not be ashamed of giving prizes for such. Now, sir, it would he
deeply interesting, as well as profitable, to see this subject discussed in your progressive paper.
Dottonwood.

The Northern Elevator ('o. is adding a drying plant to their cleaning elevators at Emerson.

The Place of Dairying in the Evolution of Agriculture.

It is not less true of agriculture than of other arts, that the story of its progress is the record of simple products succeeded by complex products, as well as of division and specialization of labor in of our country, together with the comparative perfection in agricultural and other arts to which it has so suddenly attained, affords opportunities even within the ife of the individual man to ment has been for it is doubtless thue thal in many cases the same men have cleared the land thany now making application of the best and highest now making application of the best and highest choice stock or the making of butter. It is quite plain that the earliest and most primitive and elemental phase of agriculture is the raising of
grain. The problem of the pioneer is bread. His earliest enterprise, in a wooded area at least, is the exchange of labor for land by cutting down the
eorests, the use of which land is the growing of forests, the use of which land is the growing of
wheat and other grains. In prairie countries the wheat and other grains In prairie countries the
order is the same for the kind of agricultural operation requiring the least demand of capital from the pioneer is the stirring of the virgin soil. It likewise vields the readiest and largest return for
the labor invested. This operation is comparatively simple. "Man shall not live be bread alone." This
But " is good philosophy even in a material sense. A part from its use on coin-growing is a natural and orderly
following on grem following on grain-growng is at natual and orderly
phase of development, as it repreents the progress
from simple to complex in product making, for prom simple to complex in product making, fors
whereas in the grain-growing phase grain is an from simp
whereas in
ultimate intermediate and instrumental one for is only an selling grain as grain, it is sold as heef or mutton or
pork. The production of theef, then to the best advantage evidently requires greater knowledre and versatility than the moduction of grain alone.
In the early stages of the atle hasines we find the cow doing daty not ar a montulucer of heef alone but as a producer in the present st
others milk only. the integrity Eve integrity
Every cow car
degree a milk-n true that the
character that operation of th
special. definite primitive con
the plow at all, and the work of providing beef is providing milk to others. There has come about a distinct cleavage in cow society on the basis of cumstances and accentuated by culture and selection. In other words, the law of specialization so
universal in all industry takes another striking universal in all industry takes another striking
There is one principle that is the spring of all
such change. The character of all production is framed so as to give what mankind judges is the greatest reward tor the minimum expenditure of
labor. The progress of the world is the finding of the fittest means to satisfy the wants of the world. Biologists who dabble in sociology have hit upon the happy idea of considering the whole world, or the whole of society, as an organism, and of repre-
senting such society as showing the same features in its evolution as the single individual animal organism does. The animal organism is simple at first, complex later. It develops organs in accord-
ance with its necessity and circumstances. Such change is the evolution of the fittest instrument for a given end. So in society, the division and specialization of labor are the developing of the
fitcest instruments to given ends. In short, the fittest instruments to given ends. In short, the economy of nuture chand that all change that is the outcome of man's effort is as much nature or as truly natural as the changes that the lowliest of the animal direction for man is as much nature as is the beast. We feel disposed to believe, likewise, that the differentiation that has taken place in the
cattle species is economical. But this is another cattle species is economical. But this is another
story, and is not intended for a counterblast against the advocates of the dual purpose cow. What a
man keeps, whether beef stock, dairy stock, or a compromise between these, resolves itself into a matter of profit and loss based on his
or his experience with any of these
The important thing to recognize is that, agriculturally speaking, dairying is a complex business if it is conducted as part of the farmer's operations,
as it is for the most part. To the primitive task of as it is for the most part. To the primitive task of
growing food, and later of growing animals from growing food, and later of growing animals from
the foods produced, is added that of the breeding and rearing and managing of a special kind of cow
product not produced for herself, but for an ultiproduct not produced for herself, but for an ulti-
mate and more specific product to which she is the mate and more specific product to which she is the
instrument, viz., milk. Is it not the case that we instrument, viz., milk. Is it not the case that we
cannot even stop here. for milk itself is subject to general or special application as for cheese or for butter: Viewed from the standpoint of the evo-
lution of the milk industry, it must appear that lution of the milk industry, it must appear that
butter is the bigher product, because it represents a finer and more discriminating selection of milk
components than such as is made in the case of components than such as is made in the case of
cheese: for in the case of butter the casein elements cheese: for in the cas it not appear. then, that the are rejected. Does it not appear. then, that the
butter side of the milk industry is the one towards which effort is going to swing? It will be well for those who see in time on which side their bread is
buttered. Besides the warrant that the universal haw of still more practical and no less important. This is
the law of increasing discrimination in the selection the law of increasing discrimination in the selection of food products oy socrety. Increased fastidiousthough cheese includes as much as is included by butter and cheese together as far as food elements are concerned, yet the tendency is undoubtedy to a discriminatory true the consumption of the finer product, viz., butter, is becoming more general: it is a staple and ordinary commodity on the table
of the ordinary workman where it was once a of the ordinary worknan of the method of living
luxury. This heightening
is a very decided mark of industrial growth, and the overbalancing of rural population by town population, for though wan plenty a mark of rural occupation, eet the living of the country is simple, occupation, yet the living of the country is simple, The recognition of the constant operation of
these two grand principles, viz, the natural tenthese two grand propiplest has to specialization, and the growth of the discriminating habit in the
choice of foods, should le to the butter man a solid and substantial encouragement for future expansion must recognize that his business is a complex one, depending on the careful breeding or selection of the best milk-making stock, the most economical feeding of these, determined not only by the suit
abilitr of foods to desired ends, but by relative suitability according to the market fluctuations and, finally, he must know how to make and put in the public eve the best grades of the commodity
possible, for to the best grade of all commodities possible, for to the larges grade of and argin of gain, for represent the greatest skill.

Two Points of Superiority.
Mr. F. II. Coburn, State secretary of the Kansas



Premier Ross and the Dressed-Meat Trade. In a recent issue of the Toronto (Ont.) Globe there appeared what was evidently a very carefully prepared statement by Hon. Geo. W. Ross, Premier ing cattle in the Province instead of shipping them alive to Great Britain

Although the dealers have as a rule done well, they have often been put to incouvenience and loss by inadequate shipping facilities, by heavy freight charges, and sometimes by the loss of some of their cattle in transit: Many cattle dealers seem to think that if cattle were slaughtered in Ontario and cold storage provided for conveying the meat to (ireat Britat sold for a trifle less than it did when slaughtered in Great Britain, the saving in freight and insurance charges would fully make up for the difference.
"I cannot say that the Government has fully matured any scheme to aid in establishing the enterprise. An enterprise of this kind can best be
managed by private capital. IT IS A GOOD RULE managed by private capital. IT IS A GOOD RULE
FOR A GOVERNMENT NEVER TO UNDERTAKE WHAT PRIVATE ENTERPRISE CAN BE PROPERLY RNTRUSTED wrth. I would, however, be prepared to consider any proposition from capitalists of good standing
which would furnish reasonable assurance of success. I do not think we could grant a bonus for such an enterprise, but it might be worth considering whether we should not guarantee interest, say at 4 per cent. for five years, on capital to be invested
up to at least $\$ 200000$. This would place the enterprise beyond the experimental stage. If successful at all, its success would be assured in five years,
"Last year we exported to Great Britain 115,0.57 "Last year we exported to Great Britain 115,057
cattle, valued at $\$ 8,561,2 \overline{5}$. If a slaughter house

the late garrett f. franklanid


 pood judge of a beast frequently offic iating in that crpacity at




would command even half the cattle shipped to ireat Britain, it would mean nearly 20 head of cattle per day for 301 days in the year. Even the
slaughtering of 100 cattle per day would be a pretty substantial industry for the Province. Besides, we exported t5s, $2 \boldsymbol{2}$ sheep. Provision coud and sending Australia at the present time. - The people of Cireat Britain would certainly
purchase beef or mutton if sent by cold storage it
 imported $317,231,952$ pounds of fresh heef and 371. pounds were imported from the 1 nited Sitates, and
$-15,45,156$ pounds of muton were imported from New Zaaland and Australia and the Argentine
Republic. We can surely produce as good an
article as either the I nited States or Iustralasiat and thus secure our full share of the Britioh market think there is no danger of at mather
proper quatity in furnished.
P think it would be to advantage of the

Year for five years, provided the scheme is well nently a grazing country. There are thousands of artes in Muskoka specialiy well adapted for sheep and cattle that could be profitably used for stockraising pimposes. We could easily produce three by our farmers, and 1 am conffdent if they were sure of a regular market, such as a large slaughter house would afford, they would raise a much larger number of live stock. Last year we sent to the average of $\$ 16.10$ per head. These were used as stockers by American farmers and ranchmen. Instead of sending the young cattle to the United them until they were matured, and consequently more profitable, and ultimately sell them to be slaughtered here ; besides, there are other advantages, such as furnishing employment to our own people, freight to our railways, labor for those
concerned in transportation, outward freight for vessels which would cheapen the return freight, the utilization of the by-products, such as the hides and tallow, and many other soindustry "As to the danger of creating a monopoly that would control prices, it does not follow that because we establish a slaughter house the present export
trade would be abandoned. If it were found more profitable to ship the live stock, they would be shipped accordingly, and the price of cattle would be regulated, as the price of grain is regulated, by the market value of the commodity in the Old World. We see daily fast freight trains with the names of Armour and Swift passing through Canada bearing the produce of the United States to the British bearing the name of some Canadian company passing over our own lines bearing Canadian produce to the Atlantic seaports? What Americans have accomplished surely Canadians need not shrink
from. I see no reason why we should send our cattle to be slaughtered abroad any more than we should send our logs to be sawed abroad, providing we can by our own capital advance them a stage for
the actual use of the consumer."
|Eitrorial Note. - The number of cattle $(115,000)$ given above by Mr. Ross as exported last year to (ireat Britain probably includes those from al Canada (counting in Nanitoba and the Northwest) and not book issued by the Ottawa Government. Mr. Ross is right in assuming that Conada can produce as good an article in beef as any other country, but, as was pointed out in our last issue, our beef stock has been deteriorating and does not now top the British market. This has been due to the development of the dairy industry and the spread of dairy cattle, the use of immature sires and too few good sires of the beef breeds. What the country needs is not less high-class dairy stock, but more firstrate beef stock, because there is ample room in the vast and fertile areas of Canada for both. We agree with Mr. Ross that it would be a better policy for the Ganadian farmer to finish his cattle rather than sell stockers to United States feeders,
Capitalists before launching into the dressed a regular supply of good beeves in addition to what are likely to go forward to the Old Country alive, as it will probably be deemed profitable to continue that trade. Large numbers of the very best cattle that come into the Chicago and other American markets still go to Britain on the hoof. The promoters of a Canadian dressed-meat enterprise must also be prepared to compete with the immense and powerful corporations engaged in this business at Chicago and st. Louis. Some years ago a Toronto firm tried it on a small scale, but the results were most disappoing. Were ram for a great matustry to develop. The flourishing condition of agriculture and other Canadian industries doubtless suggests the idea that the present is an auspicious time to promote the dressed-meat enterprise.

The Edmonton Industrial Exhibition Association.
Notice is given in the Torritorial cinzefte of the
acorporation of the Edmonton Industrial Exhi,ition Association, with a capital stock of $\$ 15,000$ sulscribed. The Association propose buying piece of land from the Hudson's Bay Co., lying in the town of Edmonton and beautifully situated for :an whibstion ground, on the north bank of the

W. (i. Potter, Winkler, Man.:- "I am a subscriber to your paper, and do not think that one ubscriber did not get any more than the last three
copies of the Aincocate. They were worth more than $\$ 1.010$ to any man who owns a farm or has five
or six head of live stock."

The Butter and Cheese Makers' Association.
The following announcement has been issued by the Executive of the recently-organized Butter and called for November sth. A meeting of the Butter and Cheese Union will sth and 9 th , for the purpose of rallying all those engaged in active dairying, and sizing up the
present situation. It is urgent to look into the present situation. It is urgent to look into the
requirements of our trade, to inquire into the quality of the goods we are now producing, and to define the nature of the work required for their improvement. We need to investigate if all the
forces which we have at our command are used in a forces which we have at our command are used in a to study as much as possible all the conditions required for successful dairying in the Province
t $1.30 \mathrm{~m} . \mathrm{m}$. a general meeting will be held.
At 7.30 a special meeting will be held for the benefit of the French people engaged in dairying. Friday morning, business meeting for the adopetc. All those interested in the welfare of the Province are requested to attend.

Maples Injured by Hot Sun and Wind. The leaves of the Manitoba maple, or ash-leaved
maple, in many parts of Manitoba during the past suminer, particularly where these trees were grown as the edges, more or less, often the whole lea being affected. Mr. George Greig sent leaves from Winnipeg, with the statement that he had noticed the injury during the past summer in many parts
of the city. The leaves became rusty and dried up. The lower part of the tree was affected first, and the injury gradually spread over the trees upwards. Mr. Greig was of the opinion that some other cause must be looked for than the dry weather. After ex-
amining many leaves from various parts of the Provamining many leaves from various parts of the Prov-
ince and in the streets of Winnipeg, I am convinced that it is a direct outcome of the excessively hot weather of the three last days of June, aggravated, however, to a large measure oy previous (Chaito-
on the foliage by the Negundo plant-louse phorus Negundinis), which was very prevalent fangous disease, and upon submitting specimens to Prof. L. R. Jones, an eminent mycolog
Burlington, Vermont, he replied as follows: Burlington, vermont, he replied as forws
I have examined the maple leaves which you sent us, and find no evidence of a parasitic fungous. The injury very much resembles a trouble which I
have noticed upon trees about Burlington this have noticed upon trees about Burlington this
year. The trouble here was caused by a number of year. The troumb the latter part of June, followed by one or two days of a strong, hot, dry wind. The
foliage of many plants was dried out in this way in foliage of many plants was dried out in this way in
a single day, and has been noticeable ever since, a single day, and has been noticeable ever since,
especially, on the side of the trees most exposed to especially,"
These were precisely the same days and con-
ditions which this summer did so much harm in ditions which this summer did so much harm in
Manitoba and the Northwest Territories Spruce Manitoba and the Northwest Territories. of pruce
trees were also seriously injured. some of these trees at Winnipeg, Brandon and Regina being so badly scorched as to turn choclate-brown in two or
three days, and many trees of various kinds were three days, and many trees of various kinds were
actually killed outright, the thermometer rising on the last three days in June to 98,106 and 107 degrees Fahr., respectively, in the shade.

## Importation of Trees and Shruls into Manitoba

The Minister several applications from farmers and fruit-giowers made arrangements for fumigation of such nursery stock as it is permissible to import from the United States and other countries under the Amendments to the San Jose Scale Act. These shipments must be addressedso as to come nto Manitoba the
the port of Wimnipeg, where a thoroughly-equipped
fumination station hats theen established, which is again this year moder the superintendence of Mr. again this year under the superintendence of Mr.
A. K . . ith, who, was in charge last year, a thor
ounhiy ent wh wit er, who will receive and treat with liydmathe acidgas all consignments. These be forwarded to their destimation without delay.
Thesernon this autumandurimy which these impor: The sesw this autumn during which these impor
tation- will hee adowed will last from the 1.5h of
October until the 1.th of Whanlur, and there will


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the following

$\stackrel{\rightharpoonup}{2}$ plants.
3. Herbaceous bedding-plants.
${ }_{5}^{4}$.. All conifers.
Cottonwoods which have been grown in Minne sota and North Dakota may also be imported with out fumigation, provided that they are shipped
through the port of Brandon, where they will be examined to see that they really are cottonwoods By the recent order-in-council, passed at the
instance of the Minister of Agriculture, the same five ports of entry as were named last spring for the fumigation of nursery stock were again men foned, and a new port was added for the Province of British Columbia, at ancouver. The ports of where fully-equipped Government fumigation houses are now erected are as follows :
Winnipeg, Man.-Superintendent, A. K. Leith Niagara Falls, Ont.-Superintendent, Neil Black. Wiagara For, Ont. - Superintendent, Colborn Wright.

St. John's, Que-Superintendent, P. H. Dupuis.
St. John, N. B.-Superintendent, Herbert Goold. Opinions differ very much as to which is the better time for importing such shrubs and trees as are allowed to be brought into Canada under the 'Amendments to the original San José Scale Act. in Manitoha is far preferable to autumn planting, although there are a few hardy varieties of trees and shrubs which will succeed if planted with great care in the fall. In the spring, however, root being heaved or injured by frost, which destroys so many of those planted in the autumn, which have not become thoroughly established before winter sets in. Therefore, if possible, it is better, if the and plant trees in spring, but thiscannot always be done. The season at the localities to the south rom which trees, etc, are purchased for importaso that there is danger of the buds having burst during the journey if there has been any delay these trees, consequently, could not be fumigated with safety. On the other hand, there is great advact as soon as it is ready for shipment in aumpor so as to have it on hand for distribution the follow. ing spring as soon as the weather admits of safe planting. The question of storing it through the winter is merely one of heeling in properly or of
storing in a cold cellar. Moreover, if the bulk of an importer's shipments have been received in the autumn, he knows for certain what stock he has on hand, and has time in spring to send supplementary passed away.
If private individuals decided to order shrubs and trees in the autumn, they must bear in mind that these should be unpacked immediately on in with great care. A light mulching of straw or some other loose material will be a great protection not only against the changes of temperature in winter, but against the sun and drying winds of

Springfield Agricultural Society Fall Fair.
The annual fall fair of the $\mathbf{S}$ pringfiold Agricultural Society was held at Dugald on October ?nd weather and roads, the fair was a succees, although doubtless not up to what it would have been had the conditions been more favorable. This Society has well-fenced grounds and a good building fairly
well adapted for the display of such exhibits as require to be under cover. There was a fairly good turnout of stock, the horse classes attracting the most attention. In several sections the competi-
tion was very keen, and the quality of the stock entered much above the average. R. Reed-Byerley showed the Clydesdale stallion, (iem Prince, but unfortunately there was no competition.
In draft brood mares, J. McLaughlin won with a good, hig, useful entry. He also won in yearling ning 2 nd on brood mare, 1 st on 3 year-old and 2nd on foal. W. A. Stuart won 1 st on team, and J
Holland won 1st on foal, besides several ends.
A large class of nine agricultural brood mares
lined up before the judges. In the draft classes lined up ce fore the judges. the judges. After careful review of the mares in this ring, Byerley's thick, low-set clydesdale mare was selected for ist place. She was by St. Regland,
out of the celebrated (llydesdale mare. St Cuth out of the celebrated (iund was 2nd with a really
bert's Lady. J. M. (iun ware yood sort of a smooth, cleaner-legged type, and J. Prat of his mare, with T. Lyons foal by the Gem
Prmic, lis. In the mave and foal classes were the largest
mimine (and an the. without competition. In A Sy, K. Moresome and II.

VanSlyck also winning on foal, with D). Munroe end, and A. J. Smith3rd. so keen, nor the animals so well brought out. J. Wright won on 3 -year-olds and year drivers were Haines on 2 -year-olds. A. Stuart winning 1st, W. Dood, useful class; R. Fisher 3rd. Saddle horses stood in the same order, with instead of W. Avison. Siace lady riders entered the ring and put their horses through the various gaits required in most commendable style, the prizes being awarded Miss Smith. Miss Smith.
In the sw
In the sweepstakes single driver, W. A. stuar S., judged the light horse classes. Probably owing to the macky exhibits brought harvest, most of the entries made in the different classe were well worthy of the premiumss
In Shorthorns, Ed. Hudson had
In Shorthorns, Ed. Hudson had the best of it winning 1st and sweepstakes ond only wanting a little more flesh to fit him for most any showring. Mr. Hudson also won lst and 2nd on cows. Ed. Anderson showed a really grood bull in rather thin condition; W. Brett, a year-old and Mrs. Haines' - year-old, Lord Roberts, won 2nd prize. Ed. Hudson also showed a number of capital grades, including six cows, winning ist and five females, and also a lst on best beef animal. II H. Perry showed a nice, smooth, good-tuality year-old cow, winning Brd place with her. H. H
Bray won 1st on a very proming heifer calf: Bray won 1st on a very promising heifer calf: B
Studhams 2nd. W. $\mathbf{W}$. Corbett showed a few Hol steins, and William Murray a number of Jerseys including his fine large bull, Royal, of Mrs. Jones breeding. To him was awarded the lst prize and
sreenstakes. There was no competition in this class. and Wm. Iurray, the former winning most of the of fainly good quality, shown n field condition. eing the only exhibitor of Berkshires. Kenneth McLeod showed Suffolks, and also a few Chester Whites. William Joly showed a Tamworth boar, some very good cross-bred hogs in the bacon class The cattle, sheep and swine were judged by H. O. Ayearst, of Niddlechurch, and James Viule, of Crystal City.
The poultry class was small ; a few turkeys and geese were forward, the principal exhibitors heing
T. H. Smith, J. Wright, A. Baxter, (). B. Harvey, R. Duffy, W. Murray, and K. McLeod. Inside the hall a very excellent exhibit of field
oots and vegetables was made, prizes being divided between a number of exhibitors. T. H. Smith, M. P. P., however, seemed to carry off the majority of the prizes in the single sections, besides the prize for collection of field roots, collection of vegeT. Lewis were also winners in these classes. As might be expected in a district so celebrated for supplying Winnipeg citizens with high-class dairy butter, the exhibit in this class was one of the list brought esting in the hall. A lengthy prize list brought missioner Murray, who acted as judge, pronounced
the general yuality of the butter of very high the general quality of the butter of very high average, many of the scores rumning overfur winner was R. Duffy, who captured not less than eight 1st prizes and three ends. Mrs. T. H. smith made four Ists and three 2nds, while A. Baxter got three 1sts Brett was also fortunate enough to capture a 1st prize. The domestic manufactures and ladies' work occupied a considerable space, and the various
articles were much admired.

The Udder as an Indicator
While every cattle fancier recogmizes the relative value of all the various points that go to make up point upon which he lays great stress in judging a dairy cow. I must confess that I am very partial point is not the color of the inside of the ear. nor is it the escutcheon, nor the lengt of the tail, nor the veins. The mammaly gland is in my estimation,
the most reliable indication of at dairv cow, I think the most reliable indication of a dairy cow. It think combined, in point of estimating actual production We may, and frequently do. see cows with an well developed the co $\underset{\text { tion as this important }}{\text { werer see }}$ we ever see poor produco with well developed milk is secreted in the $m$.
development of that ory product. I think that ment of udders in om expression as to what $k$
shape. size and composi

Our Scottish Letter.
The prevailing topic of conversation amongst than six months ago an outbreak of
FOOT-AND MOUTH DISEASE
was reported from Norfolk, and the Board of cattle first attacked to live as they were through the worst of the disease before it was detected. Some time after, another outbreak was reported
in the same county, and on this occasion the
other cattle. Where calves are fed off fat at three or four months old, as is the case in some parts of
England, the black calves got by an AberdeenAngus bull out of ordinary cross cows have sold as high as $£ 5$ a head. At one of the sales, Mr. Schroeter's, down in Sussex, a local fancier paid $£ 19$ for a steer calf which he means to feed for the calf being nursed by her dam. The absence of horns and the high prices given by butchers for these black cal fos per cwt. make it certain that the

## THE LONGHORNS.

A strenuous effort is being made to resuscitate the famous the second volume of a new series of its herdbook has been ago, or it may be more, the firs attempt to found a herdbook for them was abandoned. The renewed attempt is highly com ed whether any good purpose is served by trying to make thi breed popular. Mr. Westman, the Secretary, who is respons
ble for the recent publication makes out a fairly good case for them, and certainly shows that as cheesemaking cows they ar supeir hideous horns and hard, unfattenablecarcasses are grea drawbacks in these days when maturity Doubtless as th breed on which the immortal Bakewell first experimented, one would not like to see the
Longhorn extinguished, and they may linger long, but it
slaughter powers possessed by the Board were enforced which the local anthorities grumbled sorel, bout the restrictions, these were removed and the cattle and sheep trade resumed its norma conditions. No more was heard of the disease
until some weeks ago, when an outbreak was ntil some weeks ago, when an outbreak was in Yorkshire. Once more the strictest measures were taken, and there is no further account of the disease in that quarter. But scarcely had the
country time to recover from this scare when an country time to recover from this scare, when an
outbreak was announced in the Vale of Cluyd, in North Wales, right across England from Holderness, and hardly was it in hand when a further outbreak was reported in Wiltshire, and now, one veek from to-day, the officials of the Board of
Agriculture declared the disease from which lambs in Perthshire were affected to be the dreaded murrain, and to-day (Friday, 28th Sept.), for the first
time for seventen years, no market is being held time for seventeen years, no market is being held done is being considered by the leading lights of the Board of Agriculture in London. In connec tion with the Perth report, the diagnosis of the official experts is being challenged, and there is ing judgment. In the meantime, after the second ing judgment. In the meantime, after the second ease were found to be coming in from Argentine
ports, and the slaughtering ports of this country ports, and the slaughtering ports of this country
were shut against them. The Argentine authorties have now retaliated and closed the ports of that country to British cattle. This will have an injurious effect on the sales of pedigreed stock,
which are due in then davs, and meanwhile the dislocation of trade in Perth and the north is serious. It will be most unfortunate if the diagnosis of the officials is pronounced incorrect, but it nould be more unfortunate to have allowed footin a matter of this kind to be over-stringent than too lenient.

The series of sales of Aberdeen-Angus cattle conducted by Messrs. Macdonald, Fraser \& Co. Lttd.) has just been concluded. Three sales were in the south of England. It is noteworthy that the hest prices, both north and south, have been given by a new patron of the breed, and that his headquarters are in Ayrshire, in the heart of the great boonholm. Avr, is the gentleman in question, and he has made an excellent start, buying good cattle of good breeding and not overfed. He has been guided in his purchases hy Mr. Ralston, Glamis, of the best in Scotland. (ienerally trade at these sales has been satisfactory. good averages being
realized, and some idea of the extent to which the realized, and some idea of the extent to which the
breed is now cultivated in districts widely apart may be inferred from the fact that these sale
have this week heen held in Buckingham, Sussex and stafford. and, with the exception of one or two
amimals, all of those sold were purchased by buyers in England. Many landed gentlemen find these athle to thrive well in the sonth and along the the prices given for them by the hatchers show
that per cwt. ol stone they sell dearer than any


#### Abstract

does not appear to be sound business to breed cattle of their type at this time of day.


## Mating the Ewes.

Profit in sheep-breeding largely hinges on the proper mating of the ewes at this seasily there must be no excessive increas ing of the flocks, no overdoing of the fields with in lamb ewes as winter comes on, and crowding later ought to be in sound and thriving condition Thirdly, the whole flock ought to be young, or, rather, not old. As regards over-stocking, the ground, it is very tempting to increase our flocks long as there be room for increase without over crowding, the larger flocks are decidedly advised. Yonder 20 -acre unprofitable arable field may, per saps, be put down to pasture, and will allow of ing flock, but unless wider runs are given in har mony with the increase of the
be made; that is, of course, if the fields have carried an averpracticable, as a rule, through decreasing other stock to increase sheep much, because
ovines must not form the sole stock of the fields, nor that by a good deal. Neither may sheep-breeding to a profit be onducted if the flocks to which not sound in body or limb. That ever-to-be-dreaded disease, foot-rot, has robbed many farmers have themselyes And blame many a time. I have seen actually halty rams turned Vith sound flocks of ewes. The only needs wet weather to assist it to run through the whole is very contagious is an acceptfit to mate that is not free from the disease, and no ram fit to nse that is not sound on his ewes get heavy in lambl the disease rages to a disastrous degree for you may ant dress
the feet much at that stage of the ewe's pregnancy, lest you cause premature birth. And a
dozen more ailments I could name had I space, that sheep are subject to and which the breeding flocks. Mating too old or toong yanimals is a common mactice. Dut it is not attended with profit. The ewe is within the proper age tole from when a year-
ling or oneshear year. until the mouth is fuil, at Shepherds term it - that is, until there he eight should be culled, hecause her' next movement will
cient to demand the culling of the sufferers from them in the fall and in the spring and raise colts
piver divecerit
wael by J. t. mooney, Wawanesa, ma:
them in the fall and in the spring and raise colts
(oo, at the same time. I don't think a brood mare hollowing her. as I think both the colt and colt i will do beth as work here it a some ligh will do better if not worked, unless it be some light
work. I think the greatest reason that there are not more fall colts raised than there are, is because he majority have not tried it, and don't know
the advantages of it.


them in the fall and in the tpring
how, at the same time. worked any during the time the colt i he advantages of it.

[^0]he downhill. The yearling has at mating time two full-sized incisors and six lamb's teeth in the front
of the mouth. To breed the best lambs it is essental that ewes he not too old, not too young, yet how $r$ in some see such mated as have teeth wide at all Then there is the over-impatient flockmaster, wait for the lambs to pass the stage of lamblen before he must needs begin to breed from them. So they are mated when little over six months old, and bring lambs in their yearling season. But there are are bad yeaning times, dead with another. There puny young lambs brought forth, which although alive, hardly survive long, because of lack of milk and a bad nurse generally. And even at best the any time, as they do not make areeding flock at of their race, not one out of twenty. The greatest drawback, however, If have found in this early breeding is the loss of, now and then, the young not that mating had been conducted at too were ture an age.
While the ram is with the ewes they should be kept in quite a thriving state, but I am not in favo against flushing in its true sense So In fact, I am "seeds," clovers, rape, mustard, and such-like go, the ewe's runs cannot be too fresh and fruitful, but it is better to draw the line at trough food. such as over-fattening, and is sure to be missed afterwards, because you may not continue forcing your flocks at high pressure all through until lambing time. And rations to a considerable extent, your stimulating very poor against yeaning time, so that many a mishap and many a complaint befalls, abortion among others, that might have been prevented if through. Wherefore it appears that flushing ewes at this season while with the ram does not lead to profit. A good deal more has to be said on the present the present.
Farmer.

## Fall Colts Preferred.

Fall collts can be successfully, raised if one is pre ared to carefor them in the right manner. True the country are few fall colts raised in the pare have had, and that isn't much. I have raised two fall colts, and I like them better than the spring or the reason that your mares don't have to work so hard as they do in the spring, and the flies don't
have as long to torture the little colts while they are young. Then the next spring when grass come the colts are a good age to wean and turn out. I think it a good plan to have two or more, so they the mares all winter, stabling and feeding grai night and morning. I didn't have to work my night and morning. I didn't have to work my
mares while they were suckling, but better work

Selection of a Ram.
As the season for mating the flock of breeding vith a suitable ram for the next year's crop with a suitable ram for the next year's crop of considered hints contributed by an experienced
breeder to the Live Stock Journal, may be safely breeder to the Lice stock

No matter what breed is used, there are certain oints which ought to be thoroughly looked int oefore buying a ram. As a preliminary remark, it et-up or dressing of rams The head is the princi pal feature which shows what is called character and ought, therefore to be thoroughly characteris ic of the breed, whether black or white, horned or culine and not too small head, with. A bold, mas ength, jaws even, and clean under the throat. No eature is more important to a breeder, for the head will sell or throw away a sheep sooner than any hing else the neck the of shert, and nicely graduanted with should be thick, short, and nicely graduated with
the shoulders and bosom. It would be too much to eview in this connection all the points of a sheep hut they may be condensed no a few inclusive ex nd in outline massive, and large. He should stand p well and boldly on his legs, and his hocks should be strong and well formed. He should have a leg $t$ each corner of a square frame He should carry a thick, heavy fleece of the right character, not to
long nor too short. The wool should be fine in the iber, and set on a clean and well-tinted skin or pelt, Every part of a sheep can be criticised, and it it in
eresting to hear them discussed by eresting to hear them discussed by good judges remark from a good judge will seem as a sort' o evelation, bringing prominently forward some eature which had escaped attention, such as a or a bad coat. Even judges sometimes pass a point of this kind without noticing it, and happy is the buyer who, when the brings home his purchase,
finds it entirely right in all respects. Shepherds re excellent iudges and soon find sion Shepherd point when they begin to hunt for faults. It is difficult to find a perfect ram, neither is it necessary for ordinary purposes. The price runs up in the
case of any well-bred ram which can stand the higher criticism of breeders. On the other hand useful rams can be purchased for \&., quite good

Wanted--A Chance to Yiew Live Stock ublished in onr of Mr. S. H. Janes, of Torsue ronto of proper facilities for vie wing the live stock
exhibits at the exhibitions, has been repeatecly exhibits at the exhibitions, has been repeatedly
brought before pullic attention in the FARMER's. ADVoc.ate. The following from the Breeders
Gazelte shows the result of attention to the sub) ject at the recent Minnesota state Fair
receive more adequate recomnition at the hands of the patrons of the cattle show were provided with n the interest of the sports of the pase cursesied how the people did appreciate it! At times the seating capacity of the big tent was taxed to he limit. If Minnesota's experience last week managers can not too soon provide more generous time suitable pavilions for the jurgish at the same they sat for hours watching the awarding com mittees at work. They thronged the arena for two dias while the Hereford sale was progressing. They gathered in crowds beneath the can aras when a public discussion-a sort of farmers' institute, as
it were-was precipitated by the announcement of the reason for awards given by the judges in the class for feeder's stock bred in Minnesota. Prof. Hyaw opened this ball, followed by craig and Carand correct feeding was intelligently and profitably considered. There are things besides balloon ascensions and 'merrv-go- rounds' in which farmers can
be interested, if fair mahagers would only provide them.
Gomth Imerican IDressed Meat Landed in England in Poor C'ondition.


Apple Marke Report

In order that a stock bull shall be, and continue O be, active and useful as a sire, much depend and, indeed, throughout his life or the term of service. For the first eight months no better con ditions can be furnished him than the run of a good nother's milk or that of a nursecow, and a plentiful supply of bran and ground oats and corn or peas,
fed dry, or slightly damped, upon cut hay or chaff. fed dry, or slightly damped, upon cut hay or chaff
ensilage or dry cornstalks, together with a libera allowance of green clover and other soiling crops in allowance of green clover and other soing arrops in roots when the season for green crops is passed.
box stall is the best quarters for a bull at any age box stall is the best quarters for a bull at any age,
and the larger the better, as long as lie remains quiet, and with judicious treatment and handling. bulls of the beef breeds rarely get cross. Those of the dairy breeds, being as a rule of more nervous
temperament, are more liable to get mischievous, emperament, are more liable to get mischievous, should be trained to being handled, and haltered when quite young, so that they may never learn to know their strength, and should at all times be
treated with kindness and firmness. It is not well to play with them or give them unnecessary length to play with them or give a nose ring should be put in before the bull is a year old and before he is used for service. The mistake of allowing bulls to serv at too young an age is far too generally made, and
doubtless accounts for many of them becomin slow servers or unsure later on. In no case should bull be used before he tis a year old, and then sparingly. He should not be allowed to serve more old, and in no case should be permitted more than one service during the heat of each cow. It is an entirely unnecessary drain on the system of the bull to allow two or more services, and he will be just as sure a calf-getter from the first, and
will continue to be sure longer if limited in each case to one. The question of exercise is important and is not so easily provided for as one could wish As a rule, the run of a box stall, with a
small yard enclosed by a strong, close fence, is the best arrangement that can be made some have adopted, and strongly recommend, exercising the bull on a wire-that is, by stret ching a strong wire, with a ring on it, between two posts, and with, wire tether him so that he may walk back and forward for an hour or two each day, Others which whirls around, the bull being tied to it reel. head by means of a rope from his ring and allowed to take his exercise in a circle. Still others give the bull his exercise on a tread power, utilizing him to
run the cream separator, churn, or cutting hov one of these devices commend themselves, there is the alternative of a run in the barnyard for an houm or two each day in winter, and in a paddock in sum. her. Attention should be given the bull's feet to endency to cause the legs to grow crooked, and hinders the animal from walking as freely and aturally as he should. By the occasional use of a The saw a sharp chisel, and a blacksmith's rasp, rations should at all times consist of a mixture of grains in which oats are the princinal, and with he addition of a liberal proportion of lran, ronts and vigorous condition without heing mad heall hy or prompt service, and in the best form for siring healt hy progeny

## Autumn Foals.

It was my good fortune one year to secure the
rvices of a young Canadian as general farm help He was an excellent caretaker of stock: in fuct an all-round good hand. He was strongly attached to his own way, but that did not int erfere with my in erests, and was a decided benefit. I gave him ment. That fall I had two mares that foalled late in September. I was dubious at the prospect of caring
for fall colts, and expressed my doubts to the voung Tor fall colts, and expressed my doubts to the young
man. He offered to take entire charge of the four equines, with the understanding that I was not to interfere in any way with his management: I had
faith in his alijitv, and consented, merely stipulating for the privilege to note proceedings and tatke
pointers for future use. He repaired an old stalle making it weatherproof and comfortable for his charges during the approaching cold months. This work he did at odd times, not encroaching on his
regular working hours. While the fall pasture continued good he kept the dams and propeny in
the fields. stalling them at misht and feeding liber. ally of oats and well-cured hay. When taken from the pasture for the winter he gave them extra care
The colts were tied by their dams nights, and not anledsed nourishment from the molher, oml
throught the day. I had an aboundance of roots that winter, among them carrots, and I also had a good
surpl- of apples. Fich noon he filled the feed towes -upnly of apples. Each noon he filled the feed boxes with cut apples and carrots, with in sprinkling of and harin to nithe and relish the extras viven Sh. monerte. The stahle was kept immarulate
water, and on alternatedans they were allowed to xercise in a yard while the mothers remained in always received the best of care. The next Septem ber those colts were the admiration of all my considered the education I had received from my "ideal" help on the care of horses and his consci entious endeavors to earn his salary at all times worth considerabie to me, so presca him with young man's address. He married my daughter, and I gave her the other colt as a wedding present.

## L Losing Game Persisted In.

Word comes from Toionto market that of the great number of lambs coming forward recently, ot nine per cent. are ewes and wethers, which of the thousands of lambs marketed in the chief tock yards of Canada at this season are uncastrated males. Why it should be so is a mystery to old weather approaches the lambs hecome wisance on the farms where they are raised, and must be gotten rid of just at a time when every
other like farmer is sending his forwaıd. Even if they could be kept separate from the ewes without
difficulty, their flesh becomes rank as the season dvances, rendering them undesirable for mutton. Vere the operation of castration a troublesome or dangerous one, it would justify to some extent the attended with much risk, why do farmers permit uch loss to continue vear after vear? Not only would the lambs gain faster and make better mutton, but they could be marketed after the glut season is past, or even be held till spring if so
desired. when their wool will have paid for thei keep and the lambs themselves developed into topmice mutton carcasses of good weights.
Judging Live Stock---Score Card vs. the Old Way.
I suppose no one will deny that judging of our guesswork. There is not one judge in a hundred that has any definite set of rules to guide him in his
awards. There has been a prejudice against the core card outside of the poultry yard, and many good poultry judges do not score their birds, pre erring to take them as a whole. We believe, howver, that the score card can be made of great value
o at judge iu any of our stock rings. In the first place, he can take the animal in parts instead of as a whole, and in giving reasons for his a wards he can or approved different sections which have been cut holse being judged at one of our. county or town ship fairs. How often do we see the judge walking ound the animal two or three times, and then, after half-an-hours consultation, making the ifted. Here we find the most important section of the animal formation entirely overlooked, wheres if the score card had been in use, this omission ard for horses a full purn place. In the best score is given to the legs and feet, and justly so, for there much truth in the old saying, ". © of oot, no horse, and it is seldom indeed that a judge can award the coming before him. The following card we used in the Old Land $2 .-$ years ago in judging the English breeds of sheep: No. i Shropshires-Head, ear, nd face cover. 1.5 ; hack (keystone of the arch), 2.2 , tion, 10: hlockiness, $\bar{F}$; wol. 10 . Total. ior). This, nowever, is only the ideal of perfection, and as no udge can score to the possible limit. We have had deal, and we consider to be the limit for all pre tical purposes. How to cut in scoring is the great
"crux" of the beginner in judging by score card. One-third of the possible points in the section is generally held to he as far as one can go in cutting. the possible anoints we meet has the greater part of orange from 1 to a third of the fuil complement of pointsallowed the section. For example, take the possible points, Onaccount of the great comparawe can only cut from I to s. notwithstanding the mumber of deplorahle hacks which we find in the in all the classes of stock, which arequalifications have the class and these even when the total some would admit of a prize
being given.
a

I Western States farmer, after listening to a cows, told this one :. I want to tell you ahout a fall into a well. The second day atter the cow had came to me like a revelation. I inst went down in
the well amd commencol milk
hefong that cow and

Bacon in the British Market
The change in the mind of the British public in regard to the style of bacon is very marked. The fat are well mixed; the big, fat hog which was popular some years ago, has had, to give way to a pig of quite a different build. The modern bacon pig is an animal of great length; it is much deeper


hackney mare, mona's gueen, and her yearling DAUGHTER, TITANI
Moma's Queen (by Lord Derwent 2nd) won first for single Hackney mare or gelding.
also English silver medal, and Titania (by Squire Rickell) won third at the Toronto Industrial, 19000

## 

 light crop.Brome
type of pig which the bacon-curers now find most and depth, light in the shoulder and great length ivide in the back, and carrying its width evenly rom the shoulder to tail. This insures a deep, long ham, instead of the short, thick one which used to
he so general. The back and belly should run in as straight lines as possible.

The "Doddie" in the Ascendant. As showing how great has been the progress made of a century, a correspondent to the Farmer and Stock-keeper calls attention to the fact that twenty "comely Doddies" in England, while five years the there were fifty-seven breeders, and to day there are over one hundred! This increase is principally Polled beef in the London market, coupled with the remarkable success achieved by the A.-A.'s at the leading fat stock shows. In this connection we are reminded that these northern blackskins have won
the championship of the London show twice in the last three years. In Ireland the progress made by the breed has been almost as marked as on the other side of the Channel. Ten years ago there
were not a score of breeders of Aberdeen-Angus were not a score of breeders of Aberdeen-Angus
cattle in Ireland, to-day there are over fifty! regards the feeding and early maturity of these
Black Polls, the writer in our contemporary has Black Polls, the writer in our contemporary has been recently carrying out some experiments, and
he finds that well-bred Polled bullocks under twenty months old will, with liberal feeding, make from two and a half to three pounds of increase in live weight, and that animals over twenty months
old will make an average increase of $21 b s$. per day.

## Brandon Experimental Farm Notes.

 Our experience, like that of the average farmerof the Province, has been i very discourging on of the Province, has been a very discouraging one
this year. In early August, the yield of grain promised to be at least an average one, but on the 17 th of that month a fierce storm struck the Farm, accompanied by hail, and nearly an inch of rain and some of the fields were levelled as if pally. since the above date, rain has fallen every few days. Some of the grain is in bad condition.
The yield of fodder corn on the Farm is a large one this year. After filling two silos, there is still ahout three acres stooked for dry fodder. One acre
of this is Yellow Dakotal Flint, which is give a good yied of matured seed. and the fordder will be used to supplement
are sure to have this year.
the qulands this year. The plants were so short that the fodder was hardly worth cutting. but the ears were fully matured, and we hope to have some
seed of this very early variety for distribution. It never fails to mature here, and although not equal to sweet corn for table use, it is so much earliel
that every farmer should grow a patch. The ears are very small, but qui
various-colored kernels. Potutoes- This useful tuber has given an averthe neighborhood regarding rot: hut the crop, on
this Farm is perfectly free from it and the quality
two eye sets were used, we noticed many vacancies in the rows, particularly among early varieties,
but this year larger sets were used, and scarcely a vacancy has occurred in the rows.
Field Roots.-Mangels will give somewhat less carrots are almost an anter failure ore turnips and drought in spring and early summer. (Garden vegetables, from the same cause, will prove a very
only yielded about one and cutting of this grass but there is a fair crop of af termath, which promises an-
other ton per acre should the weather ever clear up sufficiently to dry it. The new
sixty-five acre pasture field contains two small plots of this grass, and che cattle appear very partial to it, neg
lecting the native pasture to feed on it This field encloses a lot of broken land, useless
for any other purpose: and for any other purpose: and water, plenty of shelter, and a variety of grasses, it makes a
very satisfactory pasture. very satisfactory pasture.
Owing to the drought in the Brome grass failed to send up seed stalks, and there promises to be a shortage of home-
grown seed. A large supply grown seed. A large supply
of last years seed was kept over on this Farm, and a num-
ber of one-pound packages ber of one-pound packages
will be sent out for testing purposes. Tilc Drains. - This wet
a severe test. There is about,, ,000 our feet of various
size of tile running through the Farm from west size of tile running through the Farm from west
to east. These were put down ten vears ago and are still working satisfactorily. Had it not been for this drain, about forty acres. of this year's crop would have been floating about in water. The
tile is only four feet below the surface in some

matured manitoba native souaw corve
places, but fortumately there are no springs tapped by it: otherwise, I fear it would freeze solid during dry by New Yonths, but, as it is, the tile is quit Brandon Exp. Farm

Western Fair Management.
Western or any other fair for five years, for the expense, and at that time of the year thrant the could be more profitably employed in other wavs Mr. Maxwell, the secretary, concluded: "The meeting wishes me, as secretary, to thank you for again desire to echibit the past. Should they notice and time to see that suitable accommodation may be prepared. They wish your exhibition every
$\qquad$ The charge has also been made that passes are passes are issued only to the directors and the chief of police. Regular admission tickets are sent to aldermen, members of the Fair Association, railway managers, newspaper men and certain civic and attend the fair, and limited tickets were given to the school trustees, members of the Public Library of Pard, city officials, hospital trustees, and members Officers of the Asociation western constituencies, o persons who had no earthly right to them. They were always refused.
"The matter of side shows was a very serious vere proper must be borne by the police they was their duty to learn their nature, and if wrong, to eject them. The Association was particular to state in all communications they must keep themselves within the law. The ide shows-that is, good ones-were a necessity, but in future greater vigilance would be exercised. "The exhibition is conducted as a means of from the citizens that it deserves. do not draw one cent out of it. Theirs is all a labor of love. The business men of the city appear quite their money, but they are not the fair and spend fair along as they should with patronage and by exhibiting. This is the only fair that does not gets $\$ 5000$ annually municipatity. Winnipeg fair the Provincial Government. The and $\$ 3,500$ from tween $\$ 300$ and $\$ 400$ from the Ontario Government. It is self-supporting.

Next year a determined effort will be made to and Tuesday, and to bring people hers, Monday Thited States. In Winnipeg, 6,coo or 7,000 from the States go to the fair there.
"London compares most favorably in the matter penditure and economical manage ment.
The financial statement for 1800 is evidence of the success that attended the Western this year.
The Fair Association has a balance of $\$ 1,374,17$, after meeting all expenses. The receipts were : Entrance fees, $\$ 1,766.45 ;$ privilegesand rentsof hoot hs, $\$ 4,504.86$ gates and grand-stand receipts, \$18,029.55; year special prizes and subscriptions, $\$ 1,425$; interes
 were: Prizes, medals, judges fees, $\$ 11,132,35$;
police, $\$$ sho 68 ; grounds and buildings and gener expenses, $\$ 3, i 41 . \hbar 5$; printing, advertising, etc. expenses, various departments, including attractions, fire
works, music. $\$ 1,04.01$."

Col. Gartshore, President of the Western Fair, makes the following statement regauding the farming community that the implement men have not been
very well treated by the fair very well treated by the fair
management, and that for that reason alone they were not phibiting. Is far as the im. plement mact is that we concerned. charged them anything but an entrance fee of $\$ 1$, for which power and space. They also received passes for admission
to) the grounds ar unis the number of men they to employed at the fair: and
when sufficient passes were Wot granted, they comald hati. may have appeared The IBoand the matter of passes, but the
 privilege is one that is very
 plained that they didey not hat the Board of Directors would
 "wery person. The Board pent :".s. to plate" its value here as an educator for the farmer



Good Pen and a Good Paper.
our fountain pen to hand in good order, I an freatly pleased with it; it is perfection in every respect. I shall tiy to get some more subscribers
rrince: frax
-RICE FROMK.s som


Dr. Wm. Saunders at the British AssoThe annual mectiation. British Issociation for the Adrancement of Science was held a short time ago, at Bradford, England, and a copy of the anserver newspaper of that place to hand contains Director of the Dominion Experimental Farm, read a comprehensive paper, entitled " Results of Experi mental Work in Agriculture in Canada under Government Organization." After describing the inception of the Farms, he dwelt at length upon the investigations carried on in connection with the plowing and early seeding, selection of varieties o seed, growing fodder crops, fruit culture, tree
planting, and the destruction of noxious insectsand combating fungous diseases.
In the lengthy discussion which followed, Dr Saunders was very highly complimented upon his excellent paper. It was pointed out that in Fing
land the policy is to encourage more largely local effurt, as there is practically no experimental or educational work of an agricultural character in that country entirely maintained from (iovermment
sources. Among other observations made were sources. Anding by Prof. Somerville, Professor of Agriculture at Cambridge :
"At present in England there were eight or nine institutions that received Government support in
the shape of annual grants. These grants, supple the shape of amuad grants. a staff of instructors and also facilities for the conduct of experiments. The educational work was
carried on on orthodox lines, and the experimental carried on on orthodox lines, and the experimental
work was devised and carried out on the initiative of the workers at the various centers. The result achieved during the last few years had been very extensive and had led tha belief on the part of the
farmers themselves that the work was of distinct farmers themselves that the work was of distinct
value to agriculture. But the value of the work was not so much in the way of placing models and examples, as it were, before the farmers as in making the farmers think in a way the y had not thought in the past. Agricuturists, if they were lines that they had followed in the past. In many cases these lines were satisfactory, but also in many
cases it was likely that improvements would be cases it was likely that improvements woud be
effective. When the farmers saw that these im provements led to better results, they began to devote more intelligence to their business. He considered that the work done in Canada was ex-
tremely valuable to farmers in this country, and he tremely valuable to farmers in this beountry, and the improvements in the variety of cereals and other plants. In the V'nited states, also, especially in Wisconsin, valuable work had beereals, not by direction of improving the y, or by better mannuring extendillage, but entirely by introducing new varieties of seeds. The improved yield from new vari-
eties was ofteu perfectly astonishing. and that eties was ofteu perfecty astonisherg habor or
without any increased expenditure on lat
manure. With regard to the alvantages Dr. Saunders found conld be derived from growing clover along with cereals, that was a point that had
strongly been insisted upon by Humphrey Davy in the first decade of the present century, bint he ith speaker) did not think the practice would be of
value in this country, for the simple reason that the value in this country, for the simple reasim that
best farmers here hoed their wheat, and of course it was impossible to hoe the wheat if the clover
plants were sown along with it. He did not prophase to make any attempt to criticise D. Samders
paper, which deserved the most careful consider. paper, which deserved the most carefmg comsitel to Euglish arriculturists.
In an editorial review of the foregoing session
of the Association the Bradford (l)werrer says was a paper in the afternoon which might have atracted if they had thought that the scientists cond teach them anything about Trade Fluctua-
tions which was woith a guinea to leann but all tion- which was worth a guinea to learn, but all ruth. Fi. whin

with pedagogy, and the personally-equipped farm
heing sulbiect to the vicissitudes of its owner, as the being sulbject to the vicissitudes of its owner, as
case of liothamsted has recently reminded us. case of Rothamsted has recently reminded us. bottom out of his plea for State aid by recounting some experiments admirably conducted under the auspices of the South-eastern Agricultural Society
with the object of ascertaining whether the British armer could successfully set up as a sugar-pranter. The eventual conclusion was negative, on the ground that although beet could be grown in the southern parts of England with as good a yleld as taten up by the cost of carting it to the mill. This is a conclusion corroborated by the experience
of not a few Prussian growers. But in Professor of not a few Prussian growers. But in Professor
Hatl's case it was reached by a thoroughness of Hall's case it was reached by a thoroughness of
testing and a carefulness of calculation which suggest that the existing experimental stations in this country are doing very good work.
have been an admirable object lesson, and an incen tive and atid to progress in several of the directions alove specified, Canadians who know the actual history, for example, of the development of our what amused at the Olserver's inference, that these were brought about by establishing experimental farms.

## Late Fall Pigs.

As a rule, it is preferable to have fall litters gives them time to lay a good foundation for a healthy and robust constitution, with plenty of muscle and strength of bone, by allowing them ample exercise in the pastures during the first two
or three months of their life. They will then be in or condition to take on flesh rapidly when confined to the pen in winter, and will be less liable to hecome crippled hy rheumatism than will pigs the necessary exercise to develop strength. When litters come late in the fall or in the early winter months, they must have the best care and treatment possible under the circumstances. This
includes a warm and dry pen for the sow when the time of farrowing approaches, and some extra attention to the little ones for the first few hours or, it may be, days after their birth, to give them a
good start in the world. The sow should be fed good start in the world. The sow should be fed sparingly of sloppy food for the first few days, and strength as the pigs grow older and tax her strength Care heavily by tugging at her for be taken that the pigs get some exercise daily after they are a week old, by letting them out with the sow for a run of a half hour of an hour on fine days, or if the weather will not pelled to exercise in the pen. The pigs should, when three weeks old, have a section of the pen set apart for themselves by a low partition, with the bottom board six or eight inches from the floor, so that flat trough, which the dam cannot reach, and thus taught $1 /$ eat before they are weaned. The weaning should take place at about eight weeks old, and the milk supplemented by a little shorts or ground kitichen swill may take the place of the milk if there is not enough of the latter for the youngsters. amixture of hardwood ashes and salt should be from which the pigs may partake at will. Where made by burning them and, when well charred, throwing water on them, and pigs will eat these
with a relish. It is better to feed so as to encourage growth and not fatness in the first three or four months. and then to feed more liberally in the finishing period to prepare the pigs for market. It
is wise also to avoid feeding much cold sloppy food in cold weather, as it is liable to cause indigestion and disease. Some very successful feeders feed (rough, and if no more is given at a time than is atisfactory, and if the pigs are given a run out on the ground on fine days for a short time where they can bite the earth and get a little grit, it will he found helpful in keepling in winter to carry them ment of cheeding sows in winter to carry them surcessful breeding of spring litters is another sulject, and one which may be summed up in at
few words by the admonition to give ample room for exereise im a yard or field and feed mainly on whole or pulped mangels, with a slight mixture of
shots or meal, to which may profitably be added
chowor
 pas thrown around on the ground once a day will
keep the sow in exercise and encourage mastica-
tion of her food. which will promote proper digescon and prove

Aprectiated in India
transport Depart-
sport Depart-
I thank you
ading me the

Treatment of Clover or (O)ther Sod Land in the Fall for Grain or Corm Crop, Etc.
As the work of taking as in the majority of cases the harvest has been a bountiful one, the next thing to do is to prepare for a contmuation of our accesses next yealt most of ws will have to obtain the best lesults, mose of of our clover or other sod fields, and the question naturally comes to our mind, What is the best treatment of a sod field for a grain crop next season? My way of treating the manure to thoroughly manure it first, lattead part of Septemas evenly as possible, in or and then plow it, laying each sod as squarely on its back as may be. Then, as soon as I am through with my plowing, i would
thoroughly harrow it. This treatment excludes the air, and in a great measure the water also, and while the sod rots nicely, it does not become sour. In thespring I wouldre-plow it, usingagang plow, set crops I would simply thoroughly cultivate it.
If stubble land is tolerably clear of weeds, and we intend to grow grain on it next season, I would adopt the same measures that I would with clover harrow it first, as soon as the harvest was off, and again as soon as the weeds began to grow, allowing it to lie until spring, when 1 would plow it in the ordinary way. If the stubble land intended for veeds, my first effort must be to destroy these as ffectually as may be, and to accomplish this I sould adopt the following measures: First, gang plow it, not more than four inches deep, having
first put on all the manure I could afford. Then I would thoroughly harrow it and sow to fall rye.
As soon as the rye was well rooted I would turn my cattle onto it and pasture it until the snow the cattle are top-dressing it with another coat of manure. In the spring, as early as convenient, I would turn the heary mat of rye sod under, plowing and thoroughly mix the manure first plowed undel in the fall, which will become immediately available for the young plants, while the heavy mat of ye turned under win ferment and act as artificial of the the early, cool nights and daysing while it is decaving. In my opinion, this treatment is much more profitable than the sowing of millet, buckwheat, etc., except on the case of very poor, light land, and no means gang plow it, and after harrowing thoroughly, sow o rape and pasture a sufficient number of sheep on it to keep it eaten down. By this process he gets eed for his sheep which they will relish, and their droppingsenrich the land in a mosteffectual manner.
There is one mistake madedy many farmers to which I would like to call your readers attention. It is the pasturing of stock on fields of clover on the year's seeding. This should never be done. In sours the land, making it unlhealthy for the young clover plants. It also punctures the land. leaving holes for the water to lie in in the late fall, which
freezes and causes the death of the plantsall them. In the second place, the plants need all the shelter which their first year's growth will afford oo protect them in the winter. If the field is pastured and the clover is eaten down close instead plants and a protection from the cold, the farmer who practices this will be surprised next season with the poor crop of clover he has. As a matter of fact, it would pay much hetter to add mulch in
the form of manue than to take away its natural protection.
I have been asked my opinion we harrowing. top-dressing and the sowing of clover and other seeds in old worn-out pastures late in the fall. I
would say that I believe it would be a waste of time and material to do this in the fall. The proper time to do this is in the early days of
September, when the clover seed is ripe and Dame Nature goes forth to sow. I never missed improving an old pasture by thoroughly harrowing in the mulching with fine manure, and harrowing to cover small log. Then, the first a thewer whichted with a seed sprouts and takes root. and there is sufficient warm weather left to give it a chance to grow and
get well rooted before the bleak, late-fall cold days Perth Co. Ont
Just as a mild feminme expression is rightly
regarded as indicative of gocidmilkingand hetding qualifications in a cow, so alow is a smart, hright appearance regarded as indicative of a gond laving
capacity among hens. Heavy hinds with dull, sluggish temperaments very soldom prove free
layers. The really good layer hats at smat active appearance, with a higight eye and gemerally wint elli a bird. (iond layers ant always the imost active memhers of the flock and they never eem to tire On the principle that all cow which ane heavy which produce a large number of egas must he more small number

Worth Remembering.
To the editor fan, -For keeping flies off cows, I hav
Gentlemen,-F ased this summer coil oil, sprayed with a hand sprayer, and $f$ find it kints about one half of them at the spraying. As the cows are tied up, we g Oxford ( o , Ont.

## The Russian Thistle as Fodder.

## othe kditor farmer's advocate

Sir,-I notice in the Natconal stockiman and
Fermer an item under the heading of "Thistle


Smon smart
Wo-sear-old Leicester ram. Frit-prize shearling at London
1899 . . .ow in service at Maple Lodge Stock Farm.
and West have just harvested their Russian-thistle hay that Russian thistle is becoming an important adjunct to the wintering of stock in some parts o the grazing country, and the note concludes as to be a blessing in disguise." It is well known that some years ago the Russian thistle was accidentally introduced ly Russian settlers into certain parts of Manitoba, and that the Provincial Government,
vith most commendal, $\begin{aligned} & \text { geal made every effort to }\end{aligned}$ radicate this pest before it spread further and became what it has been in some parts of the Dakotas and other western prairieStates-a terrible nenace to agriculture. settlers having been actually work of fighting it The item referred to above has been sent to me for my opinion. My opinion is simply this: that although it has always been
well known, since the so called Russian thistle has been discussed in camada, that sheep would feed upon it while in a young and succulent state, yet there are a great many plants which are far prefwhich will always be imminent if such an danger ive plant as this is known to be is allowed to spread, which it certainly very easily could do in a prairie country. I deny most strenuously that the Russian thistle is, or ever can be, "a blessing in
disguise" for its economic uses. As a means of disguise for its economic uses. As a means of
frightening our farmers to attend more carefully to the weeds upon their farms, this title may perhaps a fuel, for which purpose it has also been cor mended, I claim that it is not worth the while of any farmer in our prairie regions to pay attention to it. The danger from this plant can be easily learnt from correspondents in those parts of
Daketa where it stilloccurs. If farmers in Manitoba Degntaire hav, let them cultivate Mckiver's western rye grass (igropyrum (crerum) or smooth brome grass ( Bromus intermis,. This will pay them far better, without making them a source of very great
danger to their neighbors and the surrounding country. The experience of western farmers with tumbling mustard all through southern Manitoba and around Indian Head, and indeed wherever
wheat is grown in the West, should warn them against introducing any, such wolf in sheep's against introducing any such wolf in sheep's of the family of tumbling weeds
C. P. R. Grains and (irasses.

During the past season the C. P. R. Land Department have been making collections of grains and
grasses from different districts, from which to prepare samples for exhibition purposes. Wm. Sharman, of Souris, has spent several months up in Northern Alberta, superintending the gathering and curing of samples, and in spite of the unfavorcarloads of excellent material for samples, made up of wheat, oats, harley, peas and rye timothy,
brome and native rye grass, and quantities of brome and native rye rass, and wheat is some rerv good samples of fall wheat, Wawhon's follden Chaff. grown near Wetaskiwin. These samples, when nicely prepared, make not object lesons of what are the capabilities of the
country, and no doubt serve good purposes as immigration advertising.

## Manitoha Prize Wheat at Paris

 Wm. Laugland, of Hartney, who had an exhibit of wheat at the Paris Exposition, and 11 m . Stephen, president of the Virden Agricultural Society, grasses, have received word that awards of meri have been made to their exhibits. Mr. A. K. Hogg of Bates, in the Carman district, contributed a calof Fyfe wheat in the sheaf, and has also participated in the honor.

## The Faker Element in the Fairs.

I am glad to see that the managers of agricultural fairs are getting a " raking over." The storm very much surprised at the severity of it. I had not visited the great Western Fair at London fo ne seemed the greatest advancement was the faker side shows. As I walked around listening to hame Agricultural might as well be dropped from the concern. What with the yelling of peanut men, the jingle of the merry-go-round, the ham mering of tin pails, blowing horns and other to me a slander on the honored names of Agricul tural and Industrial Arts. But when I came to where those "hussies" were cutting up their capers folks were roped in, I said it was a downright disgrace, and 1 just wished I was a director for a littie while. I would make short work of their gathering in the dimes and so boldly offending the ense of decent people.
11 there is to be seen at the faight for them to see there? Their fathers belong to the show. and they always go, and it is rather perplexing for them to at others.
I know that it will be said by some that we need not look at that which is displeasing, there is
plenty of the good to claim our attention. But think it is wrong to allow the faker fraternity to get their living and spread their filth and vice right under the sheltering wing of the honored them of Agriculture and the Industries. Let not live without them, it had better die at once and die it will unless a change be speedily made, is there are many who say if they have to take as more fair for them. All the talk about the revenme derived is about as rotten as it is in connection With the liquor business. To me there is nothing be told by rulers and governors that this christian country can not be run without the money which it gets for letting that which is the source of all villainies spread itself, to blight and destroy the
citizens of our christian country. And it is a libel on the intelligence and purity of the Canadian people to say that an exhibition can not be maintained on the lines of Agriculture, Irts and debasing and immoral. Parents and children like an outing once in awhile, and for those on the farm what could be better than the fall exhibitions, but unless there is improvement on the one in better go elsewhere for their outing. EVERGREFN.

Wheat, which, although worth mone money pe
 been whecting grains, and grasses, for the ©ho P. R. Land Wepartment in Northern Alberta, informs us
that he secured some excellent samples of well ripened fall wheat, and from what he has seen considers the chances good for growing fall wheat
in Northern Alberta. We shall be glad to publich the experience of any who have had experience in
the growing of fall wheat.

Notes on the Treatment of Farmyard Manure.
1 n most countries of the Old Land the value of farmyard manure, or dung, as it should be called, is placed very high. As much as four shillings a yard has been paid for it immediately after being turned the faum a he manure to the field during the winter, to car special point of drining the teoms orer the heap as it is being made to consolidate and pack the pile so completely that when spring comes it will cut like cheese, and no heating takes place. Then, one week before being required, it is turned in five-feet penches, and the heating it gets during this short the dung in the best possible shape to be put upon the land. This is the next best way to spreading it on the land during winter. There can be no doubt
of the advantage of spreading such manure on the land, rather than leaving it in heaps. The part under the heaps is made too rich. and the heap itself is dried out and made much more difficult to spread. The writer has had the experience of dressing a grass field heavily with fresh, long
dung in the early winter, and in spring raking the whole of it as clean as possible with the sulky rake, and putting it into the turnip drills, the realt being a double crop of hay and no appreciable
difference in the turnips from those manured dirfectly from the yard. The following crop of barley and seeds, however, showed the want of the soluble constituents which were washed from
the dung during the winter and spring months. the dung during the winter and spring months.
Perhaps the best way of all, however, to make and keep dung is to leave it in the pen where it is made antil it is required to put upon the land. The surance of the pen can be bedded or covered with straw
once at day, and the droppings levelled and spread equally, so that the pen can be filled without leaving loose spots, which would heat and spoil before spring. We find, moreover, that the animals kept in such pens are singularly free from attacks of
rheumatism during the severe cold of the winter rheumatismb during the severe cold of the winter this troublesome complaint following the cleaning cold weather, not only here in Canada, but even in the Old Land, where the climate is much more moderate. It is surprising how comfortable the animals can be made in a pen such as we have prevents anything like heating of the dung, but there is always it gentle warmoth, which is very pleasant to the animals when lying down. By dehorning and feeding in loose hoxes as above, one
can hardly imagine the advantage obtained over the tying up method, with the daily cleaning out
-RIZEWINNING AYRSHIRES


Fall Wheat in Alberta. Through Mr. (ieorge H. Shaw, Assistant (ien eral Freight Agent of the (C. P. R., Winnipek. w. grown in the vicinity of Pincher (reek hy Mr (: Kettles, who states that he usually sows from the ready for harvesting from the suth of July to the from forty to sixty bushels per acref If fall wheat can be succosfolly Alberta, with such yields as atowe reported, it
should prove much more profitable that spring
manur through exposme and leaking, not to speak mamur through expmare and leaking, not to speak
of the "poning of the doors and the consequent
hilline drafte to the animals in a comfortable hilling drafte to the animals in a comfortable Simeoe (o., Ont

## nother Protest.

Gle, I mast say I was very much pleased with hie saml you have taken in denouncing fakers and foum hoasted ('anadian civilization. They cannot he Vomished too soon. Sincerely yours


Canadian Cheese Wins at Paris. A letter received by the Department of Agriculture, at Ottawa, shows the great success of the and the prospects for the growth of the trade of and the prospects for the growth of the trade of tracts from the letter from Mr. W. A. McKinnon, in charge of this portion of Canada's exhibit: Oanadas exhibits of dairy products, including Canada's exhibits of dairy products, including
butter, factory and cream cheese, were awarded

pair of typical lincolins,

the highest possible diploma, the grand prize, and prizes were awarded, but Canada alone received the maximum rating., One of the most gratifying first of high-class grocers in Paris, a member of the International Jury and a man who handles only the finest goods, and is exceedingly hard to please, has placed an initial order for Canadian factory be induced to take up any new article in the trade, the success of that article is considered assured ; it is, therefore, at once a tribute to the quality of Canadian cheese and a good augury for the esAmong the qualified critics were the United States Commissioner of Dairying, the British and Danish jurors, the director of British dairy at the
Exposition, and a number of Swiss exhibitors from Exposition, and a number of Swiss exhibitors from
the famous Gruyere district. The exhibits of Gruyere cheese aggregate 95,000 pounds, together with an assortment of various fancy kinds in
smaller quantities. The fact that it was deemed smaller quantities. The fact that it was deemed
wise to go to such expense shows the importance of the Swiss cheese trade with France, and the fact that competent judges think Canadian cheese can supplant Gruyere in public favor shows the great
field open for this branch of ('anadian commerce,

The Calf Intended for Dairy Purposes. One of the main difficulties in making dairying chinery, not of iron or steel, but of flesh and blood; in other words, the best dairy cows. Such cows
can not easily be bought, for the men who have ability to produce them know their value and their profit. Practically, the farmer who wishes a herd of choice dairy cows must grow them himself. While it is a difficult matter, it is not so difficult as
one would imagine if he would but go at it in the right way.
The easiest way to secure this is to buy heifer calves from the best dairy herds in the neighborgreed, at reasonable prices. If a farmer will buy a dozen calves from reasonably good dairy cows, which can be found in almost any dairy neighborhood, and wifl feed them properly, and when they properly with a sire whose dam and grandam have heen good dairy cows, he will stand a chance of
having half a dozen paying dairy cows in the lot having half a dozen paying dairy
and it proyeny with datiry instincts
and a propeny with dairy instincts.
What do we mean by feeding them properly
feed tham manlyon clover hay corn fodder, and Ferd with frombunthird to one halt as much, corn as outs daring the wht weather in the winter
season. If he find that the ren quitu fat on this season. If he finds that they erequite fat on this
ration, keave the -
to make then fat.


in the pail, just where you want it. If our readers ing, the yields of milk and lontter fat of lot 1 it to pay for a farm paper during their lifeting decreased respectively, do. 4 and 2.16 lhs., and of lot The plan is simple and feasible, and thoroughly practicable. There is no chance, for an loss in it

## High-Scoring Butter at Paris

F. W. Cuibertson, buttermaker of the creamery
at Sherman Nills, Me, was among those who sent at Sherman Nills, Me, was among those who sent
butter to the Paris Exposition, it scoring perfect on all points except flavo Culbertson won first premium
on tub butter and first premium on prints at the Eastern Maine state Fatir, on butter made the same as that sent to Paris, ex-
cept that two-fifths more salt cept that two-fifths more salt
and color were used. His metholl of buttermaking is given as follows: We have bi patrons, 20 of whom bring milk to the
factory to be separated. This we ruin through the Alpha sepamator, at " degs. F Some of separators, and others the deep-
selting Cooler system. I steam out the pipes,tempering vat and separator bowls, cream and milk
cans. The cream is cooled to 68 degs. and ripened with a 15. percent. starter. into the partlyripened separator cream.
The starter is made by running fine milk through the separator, pasteurizing the skim
milk at $1 \overline{1} 5$ degs. and cooling to 45; then I warm the milk to 7.
degs., and add Keith's butter degs., and add Keith's butter
culture, and ripen to 34 or 35 Cc for use. The cream used for this butter was 28 per for use. The cream used or this butter was es per coming in $5 t$ minutes in granular form, one-half
the size of wheat kernels, and the buttermilk looked watery.
I ran off the buttermilk and washed once with pure spring water at 52 degs, by revolving the churn slowly one-half minute. The water was then
drawn off. leaving the butter medium dry, when I weighed and salted one-half ounce to the pound, and worked on a Mason worker two minutes; it was then set in the cooler about five hours, when I worked it again for two minutes more, and then
put back into the cooler until the next morning, when I again worked it two minutes more, the butter being dry, mellow and waxy, and the grain like broken steel.
soaked over night in cold water with somes salt in it to form a weak brine. It rubbed ment paper, packed the butter solid, stroking the top off even and lapping the payer from sides
of tub one-half inch over the butter, put on a cloth circle and some salt, then a parchment circle on top, and using universal tub tins to nail on cover, bending tub tin five degrees with my fingers, so the pull out of the tuls. The hutter was colored onehalf ounce to 100 pounds of butter. This hutter was of light color, and salt, only about one-half as much of each being used for this Paris Exposition scored perfect except flavor, which lost inevitably by changes, travel, and length of time before being scored.-Chicago Ilairy Produce.

## Protecting Cows from Flies

## The question of flies on stock particularly the

 horn fly on cattle has for the lamany minds at work considering what is best to do about it. Not only has there been serious but young cattle and finishing steers stood still or receded during the three or four weeks the
past summer when the tlies past summer when the flies
were at their worst. During the wast summer, Prof. W. I. CarIyle. Wisconsim Fxperiment sta-
tion. conducted an experiment to determine the relifef from were divided into two lots as nearly equal in every respect as
possible. During the davtime possible During the daytime
lot 1 was kept in a smali padlot was kept in a small pad-
dock having an abmondance of
shade, and lot 2 in a comfortable stable provided with sereen doms and windows. In other
respects the two lots received
the same treatment. The cows


MPORTED OXFOKD Do move fighting flies, while those in how were practically free from them. Dur confined birds, wery fact goes to prove that a very
 Mas. more in live weight per cow. ('om-
and
confined birds, wery fact goes to prove that a very
few generations of this method of keeping will
undermine and ruin the constitution of the birds there will be a falling off in reproductive vigor, the egge will be more infertile, germs will be more and
mare lacking in stamina, a larger percentage will
fail to reach the piping stage, and a greater pro-
portion of those which pip will fail to get out and of a piece of soft leather, sufficiently large to
lee strong, lively chickens. Of those that do hatch, prevent the fowl from closing its beak tight a larger percentage will die, even where the parent stock are kept under the proper conditions. To get good market results, free range is not absolutely free, green range is the ideal condition for breeding birds, though fowls kept under moderate confine ment, with an abundance of green fool or a good
grass run, will produce better hatching eggs than grass run, will produce better hatching eggs th
those deprived altogether of these conditions In discussing the subject of feed and rang Commercial poultry, in the Relialble Poultry Jourpoultryman, says:
duced comes from birds raised poultry which is proand fed largely on corn or corn meal and some form of antmat that in ordinary enough worms, insects, etc., to supply them with the requisite animal food to give the quickest and most profitable growth. The same holds true of prolific egg production. To get the best results in
either case, a liberal supply of animal food in some form must be provided. This matter of green range is one which has dashed the hopes of many a fancier who breeds and raises white birds. It is range necessary to get the best fertility and stamina in the breeding stock and yet hold the color of the plumage down to that whiteness which alone wins over every other consideration in the show room. writer that the White Wyandottes and White Plymouth Rocks are being badly strained as practical birds through the intense desire to meet the views of poultry judges with regard to whiteness desire to keep up the best points of their breeding value by the only way in which it is possible to do so, and that is by abundant green range, both for production of vigorous breeding stock."

## Cost of Feeding Some Chickens

To make the most profit out of chickens, they quickest growth, yet at the same time not cost too much. If one has the right kind of fowls, they can be fed very cheaply. For instance, a lot of Barred
Rock and Brown Leghorn chickens hatched about Rock and Brown Leghorn chickens hatched about
June 1.5 were fed exactly the same. The Barred Jock eggs were laid by pullets not a year old, the pen being headed by a cockerel about a year old. The Brown Leghorn eggs were from old hens, the pen being headed by a cockerel. I set twenty-eight
lock eggs and hatched twenty-six chickens. The other 21 chicks in the experiment were Leghorns.
The chicks first feed was at cooked cake made The chicks' first feed was a cooked cake made out of specially prepared food. Then they were fed as they were old enough they were given a few oats: after a while a few peas were alded. Here is a
talle showing the exact amount of feed consumed :

| Kind of food. | Amount. | $\begin{gathered} \text { Cosit } \\ \text { per cowt. } \end{gathered}$ | Total cost |
| :---: | :---: | :---: | :---: |
| Prepared | 10 lbs | 81 mm | \$1) 116 |
| Brant | ${ }^{102} 3$. | (ii) |  |
|  | 1133 | 83 | 12 |
| Peas | 91. | 1 mm | 9 |

This cost of $\$: 3$ : 09 is from. Iune 1.5th until Oct. 3rd Or a little better than (ilc. each. On Oct. 3rd, the pounds each, and the Brown Leghorns three pound each, there same amount of feed consumed. They had pure
water before them at all times. By this method of water before them at all times. By this method of
feeding I lost but one chicken, and it was not right feeding I lost b
when hatched.
IIuron Co.

## Feather Pulling.

Our attention was dratwn to some bad cases of
eather pulling and eating a short time ago on feather pulling and eating a short time ago on
visiting a poultry farm where chickens were lisiting a poutry farm where chickens were
contined in coops and fed on a mixture of corn, received no green food nor animal matter of any kind, but to the latter they were helping them selves on the mutual plan. Many were plucked
bare in spots, and then they were not satisfied. bare in spots, and then they were not satisfied. same as the cooped birds, were active in the same
business, but to a lesser degree, probably because business, but to a lesser degree, probably because
they conld more easily escape from each other. In they conld more easily escape from each other. In
i large, outdoor vard. without green food of any
sort. was enclosed a thock of old hens that had been sort. was enclosed a thock of old hens that had been
used as sitters. These were right into moulting. which was being materially aided by the same vice as those in the coops and pen. The pulling,
however, was not confined to the old. loose feathers, but the bristling array of sprouting quills supplied a temptation not easily overcome.
It is only a short step to aciuiring the habit of pulling the feather- for the sake of eating them alone. Once the hethit is acpuired, there is only one
fffective means of prevention, if the hird is to he allowed to live A "poultry hit must he pro-
vided, which wil effectively prevent feather-pull-
prevent the fowl from closing its beak tight interfere with feeding. This bit is placed in the mouth and held in place by a piece of wire passed
through the base of the comb. Another, and through the base of the comb. A nother, and wire bent to fit the upper bill, hooking into the nostrils.

Before applying the bit as a preventive remedy,
ake sure that the trouble you are dealing with is the feather-pulling habit and not due to depluming mites. When depluming mites are present, the fowls will often stand about picking at each other and occasionally pulling feathers. They evidently
do this in the endeavor to relieve their mates from do this in the endeavor to relieve their mates from
the irritation cansed by the presence of the parasites. Any considerable bare area or bald spot on head and neck, breast or abdomen, should lead to an examination for the detec-
tion of depluming mites. Often the fowl tion of depluming mites. Often the fowl
will be seen pulling its own feathers, and will
and act uneasy, picking at itself about abdomen and vent and upon the breast. The bared area may not
show any unhealthy skin, and may be partinlt show any unhealthy skin, and may be partially
covered with stuls and broken feathers. Ex amination of the bird will, if mites are present show little scaly masses about the roots of the feathers around the margin of the hald spot. If these masses of scales are crushed, they break up
into a powder composed of mites and dehris. The intas powder composed of mites and dehris. The a magnifying lens. These mites are readily spread Anough a flock by contact with infested birds or with one per cent. carbolized vaseline, taking (are not to cover a largearea at one time (as it may in iure the bird), will destroy the mites. Anothe soapy water containing creolin or sheep dip. Use two tablespoonfuls of creolin or sheep dip in half a gallon of water for the first bath. Rinse the bird thoroughly with warm soapy water, and again
with pure, clean warm water. soft cloth, and keep in a warm place until the feathers are perfectly dry. This will kill all the
mites on the fowl, but will not improve the mites on the fowl, but will not improve the
appearance of the plumage. In additionto fighting


HRST-PRIZE TAMWORTH SOW.
years old. Toronto and London Fiblitions gew
be disinfected and cleaned thoroughly, to destroy any mites which may be harbored there. When these mites are destroyed, vigorous means should plumage. Every case of supposed feather-pulling

## Melfing Old Combs

Late October and early November should be spent in winding up the affairs of the apiary. All hive parts which have been used during the summer
should, before being stored for winter, be scraped Clean of lumps or ridges of wax and propolis. and the exposed parts of their frames scraped beeswax can be kept separate from the propolis and saved. divide combs into three classes: 1st, brood combs: 2nd, extracting combs; and 3rd, combs to be melted up. Brood combs may have a few drone
cells in one lower corner, but otherwise must be all workers, he straight, and contain very little pollen. 2. Combs used for extracting may be partly or If a comb would belong to this class except for patches of pollen. cut them out and let the bees fill In class 3 are the ones rejected from 1 and 2 : combs heavy with pollen, old, crooked and unfished
combli, These are cut out of their frames and melted up. Where two or three rows of cells next
the top lar are gool worker cells. leave them in the frame as a starter for the new comb next seaton. These useless combs, and all odd bits of wax, may
be melted and purified into nice liright cakes of be melted and purified into nice hright cakes of
commercial heesewax. Finst put them into a rather long, narrow box,
and pour oold water over them toclean them as far
as possible of pollen and whatever else the water
will cany off. Chop them fine with a spade, and
serape to one end of the box, which has heen raised scrape to one end of the box, whech has heren mased
higher than the other to allow he pollenl-water to
dhinn uft drain off. Change the water often for two or three
days until the mass is thoroughly soaked and washed. Then put it into a caldron kettle, with be in an arch, which prevents the fire coming higher up the sides than the level of the contents, else the wax may burn at the edges. When the mass has
boiled well for a few minutes, press out the pure wax. do this yon need a bag of burlan cuch binder twine is shipped in, about 10 in . $x 18$ in., with

## 1 )

two loops at the top to hold it open by when pour ing in the hot wax. The press is made of two strong strongly hinged toget her at one end, the other ends and drive it into the ground beside the kettle for the press to rest on, and another for the end of the lower handle. Let an assistant hold the bag open while you dip it about three-fourths full from the surface of the kettle with a dipper, then lay it in the press
with the open end folded under. Strips of wood inch syuare and $\ddagger$ inch apart are nailed across the lower jaw of the press where the bag rests on it. has been set to catch the wax as it runs out. Press by putting your weight on the upper lever, shift the bag, and press again. This may he repeated until the beeswax is practically all out. Empty out the kettle and press again. Repeat the operation until nothing remains in the kettle but hot water. Now wrap the box in old quilts or anything to hold the
heat and cause it to cool very slowly, to allow any dross which may still remain tosettle to the bottom of the wax. If it remains liquid for several hours before forming a cake, the under side will be found coated with a dark substance, which should be
scraped off before selling the wax. scraped orf herore sure to choose a still, mild day for melting up old combs. With a cold wind it is almost impossible to get the wax pressed before it "freezes" all over
the press and hangs in icicles in the box.

## Red Spider's Injuries.

In various localities in the Province of Manitoba there have been noticed during the past summer, roses and plum trees, diseased and blotched leaves which were either entirely yellow or spotted. In most instancesthisinjury wasthought to be by a mow fungous disease, but upon examination in all cases
submitted, the cause of the trouble was found to bub the spinning mites. which are classed in a
general way under the head of "Red Spiders." It general way under the head of "Red Spiders." It
has been observed that these insects increase much more rapidly and do more injury in hot, dry
seasons, and during the hot months of the summer than in the cool, wet seasons. The larger number of complaints came in from Manitoba during the month of August, and were most of them con-
cerning attacks upon raspherries. The leaves wen noticed to turn vellow and then dry up, at firston the old wood, and later the leaves on the young shoots were also affected, and there was consider year would be affected. (In some cancs, where at year leaves had been destroyed, it wats noticed hy Mr. (i. H. Gireig that new leaws were coming out
again towards the end of Angust. Mr. Lyall, of Portage la Prairie. reported throughout his, neep peas and many other plants
borhood were badly affected.
The abundance of red spiders in Manitoba and the past peason is doubtless due Territories during drought which has prevailed throughout the West this summer. There are always a certain number of these spmonng mites to be found on vegetation in favorathle for their increase. the condtiply with incredible rapidity, and become a very troublesome pest of the fruit-grower and gardener,
narticularly in greenhouses. The female lays from five to ten eggs a day for about two week, the eggs hatch in three or four davs, and the insects are full grown in ahout ten
days. The eggs are laid in large numbers upon the
food-plants, and the mites nearly always occur on which is spun over the lower surface of the leaf The name red spider has been given because some of the forms are of a bright scarlet color. By far marks on the back, and the insect has a greenish color after feeding on vegetation. These insects are
exceedingly small and difficult to detect without a magnifying glass. Like all the true mites, they hree pairs up till the last moult. Red spiders are often the cause of considerable loss among small fruts, bushes denuded of their leaves neither maturing their fruit properly during the year of well the following season. The harm they do is sometimes great, because they are small and difficult to notice, and are thus frequently overthe foliage of the plants upon which they occur and secondly, because they are very difficult insects oo destroy. There are two methods of combating
them. The first consists of spraying the affected plants with an emulsion of coal oil and soap suds, bushes with a dry application of sifted wood ashes, ime or powdered sulphur, or a mixture of one of the first two of these substances with the last named, in the proportion of one pound of powdered
sulphur mixed with ten or fifteen of finely-slaked ime or wood ashes. This must be thrown well up under the leaves, and three or four applications must be made at short intervals. When red spider have occurred one season, they are liable to appea
again the next year, and although this is by no means certain, it is well to be sharply on the look out to treat plants early in July, as soon as the mites are noticed on the lower leaves.

## Breeding from Ewe Lambs.

Now that the craze for early maturity has taken such thorough possession of breeders of all classes mencing to resort to the practice of breeding from ful if the practicell as from ram lambs. It is doubt because experiences go to show that very dis appointing results frequently attend breeding from such young animals. Where ram lambs are mated with mature ewes, satisfactory results may be
obtained, but one well-known breeder of our acquaintance, who has recently been experimenting with shearling rams mated with ewe lambs in the hope of developming early maturity among hit therewith, and has now decided to revert to his old plan of using his young sires with mature dams. Among no breed of sheep is the development of
early maturity so much fostered and encouraged early maturity so much fostered and encouraged ing admirers of that variety are by no means enthusiastic in their approval of breeding from ewe lambs. Professor Wrightson, who has had con siderable experience in the matter, is by no means
enamored of the idea, for, as he contends, " nature will not be hurried with impunity, and it is a mis take to make an animal undergo the trials of

The Food of Blackbirds
A bulletin has recently been issued by the U . Department of Agriculture on the food of the
bobolink, blackbirds, and grackles. This bulletin has been prepared by F. E. L. Beal, Assistant Biologist of the Department
The birds commonly known as bobolinks, neadbirds are all comprised in a group known the family Icterida, which is represented in the nited States by twenty-nine species and subspecies. In this bulletin are discussed the food
pabits of the bobolink, the cowbird, the yellowhabits of the bobolink, the wowbed blackbird, the California red-winged blackbird, the rusty blackbird, Brewer's black bird, the crow blackbird, and the boat-tailed grackle. These comprise all the important members the group, withe the excep-
tion of the meadow larks and orioles. The ravages
of the hobolink in the rice fields of the South, and of the bobolink in the rice fields of the South, and TMper Mississippi Valley at planting and harvesting ame, wre maturs of common knowledge, hut the Thown bulletin is devoted mainly to the food of the is hased on a careful examination of the contents of



of the species, and there is no doubt that in the
Mississippi Valley the red-wings and yellow-heads, Mississippi Valley the red-wings and yellow-heads abundant for the interests of the grain-grower The bulletin is illustrated with 1 plate and 6 tex figures


## Another Dilution "Separator.

Among the exhibits of dairy apparatus which was called ". Hunt's Ventilated Cream Separator, which, it "was claimed, would take out " "ull the hour, without the use of ice, reducing the cost of naking butter, making churning easter, and leav ing a better quality of skim milk for the calves can, with a side glass gauge at the top and bot tom to show the depth of cream, and a hollow tube ap the center. Half a dozen cans were exhibited the diameters of which ranged from about a foot to over 20 inches. The ordinary shotgun can used by
dairymen is about 8 inches in diameter. What was called the ventilation feature of the Hunt separator was only a hollow tin tube about $2 \frac{1}{2}$ inches in diameter, running up from the bottom through the movable cap for the top, the band of which wa perforated. We asked the young man in charge of the cans a number of questions about the proces for which so much was claimed, and suggested tha capabilities made at the dairy department of the show. He courteously replied that we could take was and try it ourselves, and if it did not do what was clammed wis proposition. He picked out a can and gave us a cloth strainer for the milk and told us to dilute the milk with an equal quantity of water and to putthe latter into the can first, straining the out that very afternoon. The herdsman in charge of Messrs. W. W. Ogilvie's herd of Ayrshire cow kindly furnished us with milk taken fresh from the cow for the trial, and Mr. K. W. Stratcon, an in College Dairy School, who was present doing the testing with the Babcock test in the public exhibi tion milking trials, consented to test the whole The milk (19 1bs.), diluted as directed, was set for une hour so as to give the process full justice. The cream began to rise very soon, and its depth was well defined, as seen through the gauge, and what Being half water, the skim milk looked thin, which might lead one to suppose the separation was good hut appearances are deceitful. Mr. Stratton's test showed that the whole milk was of very good thatity, containing 4.7 per cent. of butter-fat, but showed that no less than 1.2 per cent., or actually about one-fourth of the fat contained in the milk, was not taken out, a very serious loss, and one
which no dairy farmer can afford. (Good work on the part of any of the standard makes of centrifugal separators will not leave over 11 (one-tenth of that the skin. of butter-fat in the milk. The clain can was extra good for calves might be partly accounted for by the large yuantity of fat lef behind. Since the milk is to be diluted with an equal quantity of water, id dallyman would also ordinary deep setting, and have double the guantity of "half-and-half" skim milk to handle. From an agent's price list we notice that these so-called separators are made in seven sizes, quoted, retail to $\$ 10.50$, according to capacity, which we look upon as pretty steep prices for tin cans. We
did not hold the party in charge of the exhibit to his promise to give us the can, as the weather wa could not afford to maintain such a costly and wasteful luxury, and would not be heartless enough to give it to anybody else, when they could buy
shotgun can for $\$ 1$, and do their orin diluting, i shotgun can for $\$ 1$, and do their own

## Training Ioung Collies.

- mitable hard and fast rules governing the training her necessary no subject may lead tle reasoning. by

Instinctively, each species of animal in a greater or esser degree will exhibit the characteristic traits
peculiar to it, or, in other words, will show those qualities which existed in a marked degree in it progenitors, else the recognized aute as much as ire astray. This applies to dogs quite as much as natural inference to be drawn is that any person requiring stock of certain qualities would select the produce of those sires and dams possessing them
$t$ is just as reasonable for the farmer to expect $t$ is just as reasonable for the farmer to expect the huntsman from his pointer or setter. The purchaser of a setter pup (except he has the leisure and prily places it in the hands of a breaker, at an expense of from $\$ 25$ to $\$ 50$, before he undertakes to hoot over him. What does the farmer do? Too often simply nothing, and expects his tyke to do as
it is lid without any instruction. A collie in Scotand is not considered thoroughly broken until it has been in training with a shepherd and worked daily for eight months or a year. In this country here are not the same opportunities, but ful puppy is all the better of being taken when about 3 months old, and the more it is allowed association with the household, the more character and the sharper and brighter will it grow. It is sometime the house: that by so doing it is petted and spoilt. Of course, a dog can be (a child often is), but the on ho more likely than the other. By its exercise the brain is developed and intelligence is produced, fo a time escaping attention, the growth is so gradual not be overlooked that while a collie must be buil for a worker, he must also have brains. Instinc following him, if allowed (and he should be) int every room of his house, and at meal time he mploringly looks for a crumb from the table which should not be denied him. Such little attention will inspire confidence and the gratefu frame of mind, he is easily taught to be promptl obedient, to come to heel immediately when called until gradually he becomes a well-trained dog an

## The Beautiful Tulip

Those who are desirous of having an attractive display of early flowers next spring must make when this work will have to be performed majority of farmers do not care to devote a great amount of time to the cultivation of flowers, and those who desire a display of bloom often look to ion the the and the hardy spring bulbs are the most satisfac tory of all
Of the so-called hardy bulbs, there is, in all probability, no other that gives the satisfaction a brilliancy of color it is far in advance of all other spring flowers, and nothing can equal its gorgeous appearance in whatever position it may be placed f the more many classes of turps, of which a fe (3) Sweet-scented, (4) Parrot i5) Darwin, (i) (iesner ana,( (7) Single Early, (S) Double Early, (9) Variegated - oliage, (10) Duc Van Thol. These different classe iful varieties in them all. While this is true, the very finest are to be found in the "Single Early," Tulips are of very easy culture, and when the only giving regular yearly bloom, but also rapidly ncreasing annually. They will thrive in any kind of soil, even hard clay. IVhile this is a fact, they will give much more satisfactory results if care is thrive best in a rich, deep sandy soil. This should be well spaded up and made fine before the bulbs and from four inches to six inches apart, according to size of bulb. The bed should be slightly raised above the surrounding soil, so as to keep wate Some people lift their lulbs every year. This i tion with lifting and re-planting, they will not give as fine flowers or multiply as rapidly. A spot should be chosen so they may remain unmoved for
at least three or four years, then be lifted, the lumps devided and then re-planted. after September 1st as possible. While they may be planted on into November if the soil is not
frozen, the results will not he sh bulb has to make the most of it ronts in the fill fore the ground becomes fromen, for as sonn as the rost is out of the gromnd in the spring the flower nuds begin to appear. There is then no time for he sustaining the flower and producing a new bulb then given for root growt he and the more toot the arger and finer the downthe tonowing spring. etter. with some protection during the winter.
inches, is the proper thing. This keeps the bulbs will have to be opened or enlarged, the edges scar again, an action very trying on the vitality of the bulls; besides, the strength is washed out of the manure down into the earth by the autumn rains ing the flowers are made much larger and far more must be removed very early in the spring.

Most pleasing effects can be produced by filling three varieties coming into bloom at the same time. In planting more than one variety, care should be exercised to select colors that will blend and also varieties whose flower stems are near the
same length. Nothing gives greater displeasure to the true gardener than to have a bed of tulips made up of a hundred varieties, some in bloom to-day and others not until two weeks hence; some dwarf, some tall; some single and some double. Solid
colors is what pleases the true florist. A few of the finest named varieti
nary Bird" (yellow), "Cerise Grisdeline" (beantiful "ose), "Cottage Maid" (delicate rose, white stripes), with vellow) "LImmaculee" (pure white), "Pottebaker" (bright canary yellow), "Van Der Neer" (the finest of all violets, extra large), and "Proserpine (rose, shaded with salmon, extra fine). These among late tulips are "Byblomemen," "Bizzares" and "Parrots."
The tulip, the flower that many years ago caused men to go crazy, and the financial ruin of
men of wealth; the flower that was then and is now admired by all, and the growing of which furnishes employment for thousands in Holland, should be ex
in the land.

QUESTIONS AND ANSWERS.

## Veterinary

OWS Giving bloody milk.
T. M., Bruce Co., Ont.:- "You would much trouble: Wive have two cows for the following out of one quarter of their udder for a week. One
is much worse than the other, giving nearly pure is much worse than the other, giving nearly pure
blood sometimes, and it is with great difficulty that the clots can be got from her sometimes. Is it caused by a rupture of a blood vein?
|Bloody milk is caused by rupture of small vessels in the udder, caused either by external genital weakness. Milk the affected quarters three times daily. Feed lightly, so as not to canse a large secretion of milk. Give three times daily as a drench: 1 oz. tincture of iron, shaken up with a
pint of cold water. If the weather remain warm, pint of cold water. If the weather remain warm,
it will be good practice to bathe the quarters with it will be good practice to bathe the quarters with
cold water. The condition is very liable to recur.
J. H. ReED. indigestion, followed by inflammation of The stomach and intestines, in steer. into the orchard on Saturday. On Monday they all, except the cows, seemed sluggish, and did not seemed all right, except one which did not go off seemed all right, except one which did not go off
with the others. However, he got up when I went to look at him, and I drove him, with a little coaxing, down the lane towards the others. Next mid-
day we found him dead. When turned over, some bloody water ran from the mouth and part of the back bowel was projecting from the anus. When opened, the gray cutaneous lining of the first and second stomach would peel off and tear at the
merest touch. A small part of the jejunum was a dark red. In the orchard and clover stubble adjoining, to which the cattle then had access, is a swampy place where much peppermint grows. Is
it likely that the animal had eaten some poisonous weed? If so, could you give me any idea of what the plant might be, that I might look for it, and much oblige
|Your sre
caused indigestion. It may have been the change caused indigestion. It may have been the change plentiful. A sudden change of food often causes
digestive troulle. The others that showed symptoms of sickness either had not eaten so much or
had sufficient vitality to recover. It would have had sufficient vitality to recover. It would have
been good practice to have given each animal that showed signs of sickness a good purgative of Epsom
salts at once : 1 to 21 bs ., according to size. It is not salts atonce: 1 to 2 lbs , according to size. It is not
probable the animals got any poisonous weed, but probable the animals got any poisonous weed,
the digestive trouble caused inflammation of the mucous membrane of the digestive tract, resulting
in death.
J. H. Rever.)
 days ago I had two cows bady bloated bomgetting them. They came around all right, but one has not healed where it was opened. Wind keeps passing
in and out. If she has a full feed. some of it escapes in and out. If she has a full feed. some of it escapes
through the opening. What can I do for her : you used to perform the operations. hut from results, I presume it was a knife, and you made too
large an opening. If the wound he not healed by
the time roureceive this. heep her on short allow-

fied and then stitched. The wound in stomach must be stitched with carbolized cat gut. It requires in the skin be closed and that in the stomach not, the gas and food will escape from the rumen and, not being able to escape further, will lodge bet ween
the walls of the stomach and the abdominal walls and create inflammation. I trust a cure will result without an operation.
HORSE KICKED ON LLEG.
G.
W. M., Restigouche Con. B. that got kicked last fall on the gambol part of his
leg, and it became swollen and stiff, so that he has no use of that leg; he can hardly put it to the ground. He has been in pasture all summer, but don't appear to be getting any better."
[Your description of the part kicked
definite, as the term "gambol part" is used by many to indicate different parts of the hind limb. If the injury was received on the hock joint it is probable a bony union of the bones has taken place and he
cannot be cured. If higher up, unless there has been fracture, followed by imperfect union, he should recover. It is so long since the injury was received, the lameness has become chronic, and it
probably would be well for you, if possible, to have him examined by a veterinarian. If this be not convenient, I would advise repeated blistering with the following: Take biniodide of mercury, 2 drs.;
powdered cantharides, 2 drs.; lard or vaseline,, 2 ozs.; powdered cantharides, 2 drs.; lard or vaseline, 2 ozs.; mix well. Clip the hair oof the enlargement and apon at a time and rubbing well in, then a little more, and so on for half an hour. Tie his head so that he cannot bite the part. in 24 hours rub werl again with warm, water and soap, and apply a little sweet oil or hog's lard. Oil every day until the scale comes off. Blister in this way every three weeks.

Weak Fetlock in Foal.
Subscriber,
Wellington Co., Ont.: "What treatment would you recommend for a colt which came weak on fetlocks? It is strong and healthy
every other way, but goes over until it walks right down on fetlock.,
The cause of the above condition is a weakness of the extensor muscles, which are situated on the anterior aspect of the arm, which are on the posterior aspect. Applications of liniments or lotions do no good. Treatment consists in supporting the limbs by means of appliances which prevent the can be done the parts will gradually gain strength. There have been many different appliances tried with varying success. I heve found better results from the following than from any others: (iet your as is used for housings, collar pads, etc., to fit the leg from the knee to the foot. Have the feltso that the edges will not meet by one-half an inch. Get wide and a quarter of an inch thick, two the same length as the felting, and one one inch longer: The long one is placed in front so that the extending inch of wood will rest upon the hoof. One of
the others on each side. Six straps with buckles the others on each side. Six straps with buckles
on one end are now attached to the felting and stays about equal distance apart. This appliance is buckled snugly to the limb, sufficiently tight to
prevent shifting, but not tight enough to check prevent shifting, but not tight enough tall paddock in the stable, as it is not well to give much exercise. The appliance requires to be removed fora
few minutes twice daily in order to allow a circufew minutes twice daily in order to allow a circu-
lation of air around the limb, else probably there lation of air around the imb, else protably there
will be scalding, especially in warm weather. If
any parts are becoming scarified or sore, place any parts are becoming scarified or sore, place
some cotton batting over them. The raw surface mentioned should be kept clean and dressed regularly with one part carbolic acid to seventy parts
sweet oil, or with zinc ointment. J. H. ReEIn.|

Miscellaneous.

## gRowing artichokes for hogs.

R. (., Wellington Co., Ont. : "A neighbor
mine wishes to know, through the columns of FARMER's ADVOATE, whatever information you
may have re artichokes as a profitable vegetable to grow. How are they grown? For what purpose hog feed, etc., etc., feed, we believe artichokes are |Except for hog feed, we believe artichokes are
very little grown, and even for that purpose comvery little grown, and even for that purpose com-
paratively few farmers pay any attention to this crop. The sort of land and the same treatment that
will answer for potato-growing will suit well fow will answer for potato-growing will suit well for artichokes. The land is manured in fall, winter or
spring, cultivated well in May, and planted as spring, cultivated well in May, and palf of May potatoes are phant be not less than three feet apart. The land should be cultivated during the smmmer until the plants grow too large to work among.
The crop can he harvested with a plow or potato The crop can be harvested with a plow or patato the hogs will leave very few to waste if allowed
access to the patch without rings in their noses. Sometimes portions of the patch are left till spring.
when the hogs will root themout and do well on them hefore they can get pasture to support them.
For late fall or carly spring hog feed, there is no cropgives better returns than a good yield of arti-

H: F ( G More Russell, Man. Free sires,
colums of your valuable Having seen in the has it the past made a practice of fumishing th farmers of Manitoba with pure-bred sires, I would fise hnow in they still continue the practice, and if so, how wom a person go about getting an ani-
mal? Wishing the Farmer's Advocate every
[The above question was submitted to Mr. F. T. Griffin, Land Commissioner of the (. P. R., whd answers as follows: I understand that it is no the intertion herne "1 distribute any thoroughbred stock next season." |

> TREES FOR LIGHT SANDY soil. S., Stockton, Man:-"I wish to plant

Uff of the ther wher sandy land. Will you kindly varieties of trees and shrubs for this purpose, and also state whether I should replace the light soil with black loam or use manure to enrich the land also, what tree would you recommend to sow on this class of soil?"
[The following trees do well on sandy soil if the
and is well cultivated : Russian poplar, Siberian poplar, common native poplar, spruce, and ash maple. ilacs, and trees: Artemesia (old man), spiraas, little black loam should be mixed with it, if only fairly light, a good coat of thoroughly-rotted ma
nure spread all over the land should be suffie mat but the principal dependence should be in culti vating. Not a weed or blade of grass should be allowed to rob the trees of moisture. Ash-leaf this class of soil S A. BeDrorn Brandon Exp. Farm.

## bights of hired man

SUliscriber, Deloraine, Man.:-" Will you please inform me through your paper if a man hired to a every Sunday to do the chores. If he goes to church in the afternoon and does not get back till dark can he keep back his wages for lost time? man in a temploy hursts a man in my emproy, am supposed to pay him his wa. How many holidays is a man supposed to ave, hired by the year
When a man is hired by a farmer as an ordinary on a and if he wishes to have Sunday off, he should stipulate for that when making the agreement. u. When an employee has a temporary illness, for the wages, but not where he is engaged by the day or week. 3. A man h
to holidays.

## Chatty Stock Letter from Chicago.

| Beef cattle. |  | Twommot |  |
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THE CHILDREN'S CORNER
The Lookont Regiment Names of neww recruitsare: Lida Bowman, Ethel
Letson, J. H. Pilkey, Hilda Beaumont, and Jean Rogers. Montrose ; it is istate the cony in West How would you like to choose one of your number as captain, and let him report progress as to the
work you are doing? I think it would lee nice to work you are doing? I think it would be nice to
find some child who is likely to be overlooked by Santa Claus, and get a big stocking filled for him by Christmas time. The stocking could be made of hack or colored print. Let me know if you decide to do this, and I will gladly send a contribution.
Don't forget that the "Child-Hero Competition closes on the lst of November. I am constantly getting letters from children who say they always like to read about the Lookout Regiment. I hope vou will all be on the lookout for a chance to play
Santa
Claus this Cbristmas.
It is begin your preparations a good while ahead, then you haven't to hurry at the last.
May I ask J. M. Matchet to le
the prize sent several weeks ago know whether the prize sent several weeks ago arrived safely:
The other prizowinners have acknowledged theirs.

## Five Little Brothers.

## 


The carriage was dark and none too rooms
he five little brothen grew rery gloomy.


an hat ent


## A Sailor Lad.

'When shall we know the enemy has given in ? asked a ad, a tailors apprentice, who had runaway
from his trade and entered the navy as a commoil boy, about the year 11680 .
sailor ... the the fhip ill hauled sailor," "the ship will be ours.

At that moment, the ship that the lad was on was engaged in a terrible fight with one of the
French squadron, that lay vard arm to yard-arm French squadron, that lay yard arm to yard-arm other's guns. In an instant the lad had mounted the shrouds, passed from the yard of his own ship to that of the enemy, and with quick agility
ascended to the maintop-gallant masthead, struck ascended to the maintop-gallant masthead, struch and worked his way back to his own ship in safety. Before he reached the deck, however, the English saw that the enemy's, flack had gone, and shouted, their color gone, and thinking it had been struck down by the admiral's orders, fled from their yuns,
dond a panic ensued, during which the English and a panic ensued, during which the E
boarded the French vessel and captured her. In the midst of it all, the new boy came down
the shrouds with the French tag wraped aroumd his body, and showed it with glee to his messmates. The news quickly spread to the quarter-deck, and
the blushing lov wis led into the presence of the the blushing boy was led into the presence of the
adminal, who not only praised him for his bravery, addmiral, who not only paised him for his thavery,
but made him then and there a midshipuan Pro,
motion followed motion followed promotion after that, and the
tailors apprentice was afterwards known as Admiral Howson, one of Furland mont gallant sitilors.


[^1]
## 

## IHE QUIET HOUR

## My Brother"s Keeper.

Ret not in hove wats icy chain to thaw


I promised to tell you something about the effort hat has been made, during the last ten years, to
heer and uplift the poor of New York. As I said before we can only take a peepp art a feew of the
bimprovements, for their number is countless. improvements, for their number is countless.
Perhaps the greatest help has been given by men Perhaps the greatest help has been given by men
who try to do things on a strictly business lasis, giving justice rather than what is usually called charity: men who have built model tenements. which bring in three or five per cent, instead of
fifty, in which human beings may live decently and ifty, in which human beings may live decently and
comfortably. Some of these are provided with plenty of baths, free library and reading rooms, and at laundry, where the lodgers can wash their ciothes, with every convenience (a great improve lient on the old custom of doing the wasting in the and comfortable buildings may be had for very reasonable prices. They are not an encouragement to pauperism, but rather help those whoare willing to help themselves. The inmates of such tenements
are expected to be respectable and self-reliant, and are expected to be respectable and self-reliant, and
to honestly pay for what they get. Compare these handsome houses, with their smali, but clean, comfortable and well-lighted bedrooms, with the old
tenements in the Mulberry Bend." These used to be "jammed with a reeking mass of human wrecks, that hudded in hall and yard, and slept,
crouched in shivering files, all the way up the stairs crouched in shivering files, all the way up the stairs to the attic."

The great lesson of the brotherhood of man is home to each one of us, for we are only too ready to fancy, as the first murderer did, that we are not
responsible for our brother's welfa Special efforts are being made to help the children, who were formerly crowded out of the schools by the thousand. Many millions of dollars have been spent during the last few years on schools;
and their need of healthy, happy play is also recognized at last. Playgrounds are springing up in the most crowded localities, where playgrounds were never dreamed of ten years ago. If no other
spot can be found, they are perched up on the roofs spotcanceols. Gymnasiums and skating rinks are
of the school not now the luxuries of the rich only. Newsboys are provided with hotels of their own, where they are given a lift if they need it, but are expected to
pay back every cent advanced to them. They are po proud of the trinst reposed in them that they very seldom fail to justify it. One boys' clul, started with a handful, and can now count thousands of members. The rough gangs that used to
educate boys to be loafers, thieves and vagabonds have evolved into cluks which bring out all the manliness that lies hidden under a rough exterior: The necessity of doing something for the chilthe arrest of "hurclars" siw and seren years of acel A gang of five was once arrested in a bunch, five criminals, all about eight yearss old! Those rescued by the Children's Aid Society have a very different honest. to pieces, have been palled down, and small parks have, in many cases, taken their place. Marvellou
indeed is the reformation worked by those bits of green. One of the most energetic reformers, who hat worked hard to secure these parks, returned after a short alssence, to find one in what had been perhaps the worst spot in the city, $\begin{gathered}\text { It was real } \\ \text { grass, } \text {, } \text { wruss in the "Nulberry Bend } \\ \text { His delight }\end{gathered}$ could not be satisfied with the sense of sight, he must walk on it to assure himself that it was not a dream. Suddenly a policeman's cane was laid the angry command: "Hey! Come off the grass I) ye thini it's made to walk on?"

However, as he says, he had his revenge, having for destruction to let in more light, Whement had leen. parks were to be made, where the sign. Keep Oif the (irass !" should never be seen il the
tried to explain this to the policeman, but all the inswer received was a a gruff ": Giwan now ! I don'
 in it, too. People are improving since they got a Chance to wash themselves. The great unwashed Prefer to be clean, if they get halt a chance. The areat deal has indeed been done. but there are (ifl many dreary lives both in city and country ". "M dinving the command, "Bear ye one

have followed His example; they could not enjoy hungry and forlorn. It has been said: "OCharity in our day no longer means alms, but justice. The social settlements are substitumg cial touch for beggary. They are passenger bridges, not mere shutes for the delivery of coal and vegetablesbridges upon which men go orer: not doren, from
the mansion to the tenement. We have learned the mansion tac cff checks for human sympathy in settlement of our brotherhood arrears. The Church is hastening to enter the life of the people." We may not be able to devote our lives to this If the effort should cost us a sacrifice of time or If the effort should cost us a sacrifice of time or we not say with David: "T will not offer burntofferings to the Lord my God of that which doth cost me nothing." No sacrifice made for God is left
unrewarded. In this case, certainly virtue brings with it its own reward, for

To the one joll or or doldy joy go go lese
Christmas will soon be here. Are you going to make it only a time for presents and extra good
food for those who live well all the year round, or are you going to stretch your circle of Christmas
brightness so that it may include some of the "other half":

The multitude of peopples, nations tongues,
Shall stand before His throne. and every act


## Recipes

Rub a little sweet oil on the knives before putting away. Wrap in tissue paper, and keep in a dry place. If the rust has fixed on any of
the knives. rub with coal oil. hashed mutton.
This is a nice way for using up cold mutton. of butter. Stir all together until nicely browned. Cut up your meat, and add it to the onions, stirring it until browned aso cut up a few carrots and cover with water. and simmer very slowly for two hours. Thicken with a little flour, and season to taste. Put in a litule browning, if not brown enough.
light peddicis is very wholesome.
Ingredients - Quarter of a pound of bread
umbs, fuarter of a pound of flour dried and sifted, iwo ounces of sugar, quarter of a pound of mutton suet, four tablespoonfuls milk. hasin, beat the eggs and sugar well together, adi seasoning and milk, stir well into the dry ingre and and steam in a buttered mould for an hon and a half. The mould should have a buttered plate getting into the pudding
recipe for shortibean

Mix together $\frac{1}{2} 1 \mathrm{ll}$. flour and 2 ozs. sugar. Rub finely into it 4 ozs. butter. Then begin to knead to hard with your hands till it begins to bind
together.
No moisture required. Work at it till $i$ is quite soft and easily shaped without cracking
Nake it oval or round edges Put a piece of huttered paper on laz tin, place on it the shorthread, and bake in a slow oven till quite brown pale). It will take about an
hoor to oue and a halt. Move it carefully off
hep the paper, and (T) KEEP (ISTER
Most housewives know how rapidly the water in a cistern collects impurities, and they also know cleaning out of that cistern is. Well. it need not be done nearly so often if you get 6d. worth of charcoal, fasten it up in a muslin bag, with one or stones keep the suspend it in the cistern. The from which it seems to attract all impurities. If it is renewed say once a month, the cleaning out o
the cistern, under ordinary circumstances, need only be done once a year.

Dan't forget to put an apple in your cakebox. stale. Poultry when served cold is wuch inetur in appearance by being glazed. Half an ounce of with extract of beef makes an admirable Elaze Small glass jars or large tumblers are better than chima for jam potsil hecause shouat the preserve haked potatoes are wanted in a hurry. hooit the rall potatoes for about fifteen minutes, and then place
them in a hot oven until done. Cooked in thic way they will be quite as nice as if all the cooking weid in the ovel.

## Policeman ton tramp 21 want your name and yer: Well, me name is John suith and im

## Onamea, Hawaii

This is a world of contrasts, and all the more beautiful because it is so. We are told that no even upon the same tree; no two minds in such thorongh accord as to be as one, and that even when two pairs of eyes gaze upon the same landscape, the
one pair will see beauties to which the other pair is blind, all of which preamble goes to show that the Advocate is only following the law of Nature in presenting from time to time in pictorial form som of earth's varied scenes, leaving its readers free to we took them in fancy to the mountain peaks of our magnificent Rockies. This time we ask them to come with us to beantiful Hawaii, the "Paradise o the islands of the Hawaiian group, about mid way in the North Pacific, upon which civilization had left no mark until after their discovery by Capt. Cook, some 120 years ago, although in some vague record Madrid it is surmised that the Islands had at least been sighted by Gaetano about two centuries earlier. Evidently, the rest of Europe knew noth ing about them, and the Spay existence. Capt Cook at once realized the importance of thei position and the value of their resources. Barring a little thievishness, hardy
mental eye, the white sands girdling the Island of
Onamea, to hear the refrain of the hlue wave the featherlike palm branches to sway gracefully over head, and to almost long for a plunge into the placid waters of the North Pacific. We sa - almost, because a sea batti even al and voraciou shark has to be reckoned with, and although the natives are reckless and frequent bathers, an white people are assured that if enough of them g in at one time, or evided he makes a tremendou "splashing " of the water, yet we would not advis our readers, should they find themselves on the shore of Onamea, to take any risks. Go to Hawai if our picture tempts you to do so, but 'ware sharks

## Wedding Presents

We have all of us read of, and sympathized with, the newly-married couple who, on "taking stock of their wedding presents, found that they had seventeen butter dishes, twelve pickle stands twenty-three butter knives, and ten dozed but there can be no doubt that many young people just starting housekeeping find themselves considerably embarrassed by the number of similar

Spoiling Love Matches
When your son goes a-courting. or some young fit vour ises and by paying attention to the ittl parse awhile before you decide on opposing thei desires and thwarting their hopes. And do not se four face aganst the match, and make the young people misera
There is so much sweetness in the continuance upon - no regrets, no old love letters to tear up. or locks of hair to put in the fire.

A life hardly goes quite right that is cut down the very roots, and allowed to grow again Dont say"No because youdo nother grandfather, or because there was difficulty twenty years ago about that acre of marsh land, or because there was an argument between your aunt Priscma and the girs second cousi ther, and in saving a good deal against each other to make up for it.
Old feuds, old prejudices, of the stupidest sort, have parted many a pair whom heaven evidently maids and wicked old bachelors who might hav been good, happy old couples now if some other old couple in the past had not interfered without good reason.

onamea, hawait, h.i.
which makes the thief), the natives appear to have been hospitable an a type superior to the Pook cosians. with whom he had become atready acquainted. The newcomers, history tells us, were not wholly without their share o civilized weapons If the natives cored theirs, they, on theide. coveted and porsessed themselves of the tempting fruits and foods which the Islanders offered in exchange. Reprisats fol lowed, stringent airs had Cook in the carrylly out of from behind with one of the fron daggers he bad so extensively used on matering with the natives." To the old theld dicaided school geographically red Hpontii was known better by the name bestowed upon it by its discoverer, viz, the Sandwich Islands, but if thes have followed it history since (apt. Cook cast anchor there whel he was searchmg for know that the Hawaii of to-day has gone through many riscissitudes. survived many internal disruptions, and is now a flourishing little Republic. with nearly everyadvantage offered cra. The peaceful picture we precent to you creatux almost a longing to manation to -.te, with the
articles - many of them of doubtful utility of Which they find themselves possessed. It is, ladmit. ally a younger sister of the bride can be "confiwhat present would be really acceptable. Then, again, old friends can study utility more than mere acyuaintances. I know a dear old maiden lady, with a very large circle of friends, whose wedding brushes, clothes brushes, boot brushes, and brooms of various descriptions. Her present is always acceptable, for it saves the young people buying is something which serves to keep the kind donor's memory green.
Another useful present for a bride is a toilet glove box, with a few pairs of really good gloves in
it. The French have a proverb which tells us that a woman who is well gloved and well shod is well dressed : and to the young woman whose dress al lowance is somewhat limited, such a gift is doubly her "look nice during the visits which she pays after her return from the honeymoon. The principal thing to be studied is the suita. yecirionts. Wedding presents should be chosen regmirements of the home which they are to grace.

Good Health.
20 ascertain whether or not a room is damp, placed thereina of pre hermetically closing doors and windows. In twenty-four hours it should be weighed, and if the lime has absorbed more than about I per cent. of water, the room should considered datmp, and classed as unhealthy
 Children should live out of doors. They ought No be brought up in the fresh air and sunshine. childout it they droop and die, for "ife is a sun of its native element. In childhood the foundation is laid for mature life. Pale, delicate, hothouse children, when brought up in the heated atmosstamina for the future. A robust, hardy childhood secured by plenty of outdoor life, even in cold weather, simple, nourishing food at regular hours, without meat, cake, sweets or pastry, clothing tha permits of perfect freedon in the making of mud to, bed" of the old nursery rhyme, would help to lessen the terrible mortality among children, and insure to them some backbone for the needs of insure to
adult life.

## POETRI'--OLID FAYORITES.

## Kissing`s No Sin.


Mif it wasna hawful
La y yers wadma aliow it
If it wena holy Ministern wadua do it.
If it wasna modes
If Wuans wadena take it
fuir folk wadha get it.
The Chess-Board. My litlue love do you remember.
Ere we were grown owady wis.
Those evening in the bleak Deceenber Those evenings in the bleak December
Curtained warm from the snowy weat When you and 1 played chess together,
Heckmated by cach other seyes!
Ah.still I see your soft white hand
Hovering warm over Queen and Hovering warm over Queen and Knigh
Brave Pawnin valiant battle stand:
The double casles and the wink: The double castles guard the winge
The Bishop, bent on distant things,
Noves sidling throurh te tight Our fingers touch, our glances meet
And falter; falls your golden hair


Ah me ! the litule batule's done
Itispersed isall its chivalrs. Mid many a move since ther hexing shekers made
And many a game with fortune play And many a game with fortune
This, this is at leaste wont -if this alone.
That never, never, nevermore.
Asin those old still nights of yore. (Ere we were grown so adily wise)
(an you and 1 shut out the skies. Shut out the world and wintry weather.
Play eves exchanging warnthwithey.
play chessas then we played together?

The Groomsman to His Mistress.
Every wedding, sass the prov
Makes another, soon or late: Nerer jet was any marriage
Fintered in the book of fate. But the names were also written
of the patientpair that wait
Blessings then upon the morning
When my friend, with fondest look By the solemn rites permission,
To himelf his mistress took. And the destinies recorded
Ot her two within their book.
When the priest fulfilled his oftice
Still the ground the lovers eved And the parents and the kinsimen Aimed their glances at the bride:
But Hhe groomsuane the virgins
Who were waiting ther her side
Three there were that stood beside her
Wne wadark and one was fair. But nor fair hor dark the ot her Save her Arab eses and hair,
Xeither dark nor fair t call her,
Set she was the fairest there While her groomsman-shall I own it?
Yes, to thee, and only thee Gazed upon this dark eyed maide Who wa fairest of the three
Thus, he thought out How ble t the bridal
Where the bride were such as she?

Then I mused upon the adage,
Till my wisdoun was perplexe ondered, as the churchm Which of an who heard his lesson
shoult require the serviee next.
 Thine. perchance, "y dearest lad What if twows forgive the falleve
What if t were both mine and thin

Reminiscences of Tennyson.
Of the winning of Emily Sellwood much will is surely a wise reticence regarding a long period of trial in the closest relationship of the poet's life
For E.mily Sellwood and Alfred Tennyson had met in 1*il, when she was seventeen and he twenty-one Arthuy Hallam, we are told, was then staying at
Somersh, with the Tennsons, and asked Emily Gomershy with the Tennysons, and asked Emily a thrn of the path they came uphn NIfred. who at in her simple say dres suddenls sadd to her
$\because$ hom

Tennyson narrates the incident in one of his weeping, till her sister, smiling, chid her

A happy bridesmaid makes a hapy bride.
But weary years had to come between ere the bridesmaid became the bride. An engagement was entered into: but Tennyson was not in a position temptation of his life. Had he chosen to publish then, he might have married; had he chosen to write prose articles for the reviews even, many an
editor would have been pleased to add his name to editor would have been pleased to add his name to
his list of contributors. But Tennyson would not. In a smaller man such a resolve would have been intellectual coxcombry; in Tennyson it was the intuitive recognition of his high calling, the answer
to the whisper that lingered in his ear from his to the whisper that lingered in his ear from his
dawn of life, steadfast obedience to the command from far, far away to follow the gleam. Great gifts had been given to him to use worthily, and he set his face against giving to the world what he
considered immature work. How far Emily Sell wood upheld him in his determination we cannot know for certain, for the extracts from their correpondence published in their son's "Memoir" contain little that is personal; but of her loyalty to his
decision we have abundant proof. Her family, decision we have abundant proof. Her fammer,
however, viewed the matter from a different standpoint; it was hardly to be expected that the poet's sense of consecration would be favorably regarded when it appeared to involve the sacrifice of his
betrothed. And so, in 1810 , when the prospect of Tennyson making an income sufficient to support his wife or, for that matter, any income at allseemed to be as remote as ever, the engagement was broken off by the lady's relatives: and Mis ripening years passed, and it was in the spring of Sjo that Tennyson next met Miss Sell wood at Ship lake-on-the-Thames. Separation had only drawn
the two closer together, and the way now seemed clearer. Tennyson had three hundred pounds in bank; Moxon, his publisher, advanced another three hundred pounds; and Mr. Sellwood found the household furniture. It did not promise luxury, vedding.
In Shiplake Church, with its tower half-clothed with ivy, rich in painted glass windows and carved
oak ornaments, on the 13th of June 18.50 . Alfred and his betrothed were wed. The cake and the dresses arrived too late, and Tennyson used to re mark that it was the nicest wedding he had ever been at. The only guests were the bride's father friends.
It was at Tent Lodge, ('oniston, that Carlyle first
et Mrs. Tennyson; and he was touched with her met Mrs. Tennyson; and he was touched with hel thoughtfulness in closing a window on hearing him from head to foot, and then gave her hand a hearty shake. To Mrs. Carlyle he wrote
"Alfred looks really improved, I should say uture less detached than the past has been to good soul, find him where or how situated you may, Mrs. Tennyson lights up bright, glittering blu eyes when you speak to her; has wit, has sense
and were it not that she seems so very delicate in health, I should augur really well of Tennyson's adventure.
Carlyle was right. Of all the great literary men
of the nineteenth century, not even excepting of the nineteenth century, not even excepting
Robert Browning, Tennyson was most fortumate in his married life. ". The fear of God," he said in after-life, "came into my life before the altar when wedded her." In all things his wife was his ad viser. William Wordsworth died on April esk, 1850, and here were not a few candidates for the vacan poet-laureateship. The babel of tongues was great
but Tennyson was the popular favorite and in the but Tennyson was the popular favorite, and in the The Queen had not forgotten the idyllic charm of - The Miller's Danghter," and Prince Allert's ad miration of "In Memoriam "was profound. Temny on records that the night before the offer reached him on the cheek. It is interesting to note that although the Queen and Prince Consort were well ofquainted with Tennyson's work, some memthery of this gentleman," wrote Lord Palmerston th laureate to the (Que
Tennysonsacceptance was by no means a fore Courts, he said, "but a great love of privacy, It Cilues tells me that the price of the patent and come. He wrote two letters, one accepting and one refusing, remaining for a time undecided which
to send. From io Tonnyson. ly, Eron J. ('uth Mrs. Sweenev-. Inut phat about the suman a go: Pat bundle ander armo $\because$ Well. indade Mrameeney. Tive neve hin in the hathit al
chand any wan tell ver, the truth but if eve


## Healthfulness of Mountains.

It is well known that the chemical composition of the atmosphere differs but little, if at all, wher lips or at the surface of the sea, the relation of oxygen to nitrogen and other constituents is the ame. The far orplained by any difference in the proportion of its gaseous constituents. One important difference. however, is the bacteriolog cal one. The air of high altitudes contains in nicrobes, and is, in fact, sterile, while near the atundant. In the air of towns and crowded place ot only does the microbe impurity increase; but other impurities, such as the products of com has form carlons in the air, and especially in the air of pine oak, and birch forests. It is these bodies, doubtless to which the curative effects of certain health re is said to give reliof in diseases of the a fir forest tract. But, all the same, these traces of essential oils and aromatic products must be counted, strictly peaking, as impurities, since they are not appar analyses have shown, these bodies tend to disecen in the air as a higher altitude is reached, until they disappear altogether. It would seem, therefore that microbes, hydrocartons, and entities othe than oxygen and mitrogen, are only incidental to damp, and vegetation. From the lovidon Lancet

## The Ill-Natured Wife

There is nothing more objectionable and annoy ing than a nagging, discontented, ill-to-please wife and, unhappily, the type is by no means extinct, hoisy : if silent. he is sulky : if he reads, he is himself for the if he goes for a walk by quietness, he is cruel and selfish peace and hough it sounds, the only comfort he has his own home is when he is out of it. If he home a mresent he is told it clearer by bringing ring home something that is not wanted, whe to if he had brought so-and so there would have been fintle sense in it. And if he brings nothing, o half an hom stead talsion, he has to listen to way he treats his poor hard-workine wisf.acetu eft a good comfortable home to be made miserable silence while his wife sulks in evening of chilly could go on, but space forbids.

Answers to Sept. OOth Puzzles.
fath, da-h. fa-h. , yath. ha-h. lath, math. pash, rash, ma-h.



##  E.acri.

Additional. Sol.vers to Selt. डth Puzzi.es.


The Rest Cure
At the nursing homes and private hospitals in many large towns the rest cure is a very expensive
remedy in which to indulge. Any woman with sufficient strength of mind can, however, conduct it on her own bebalf without leaving her houle. It is
done in this way : There must be complete isoladone in this way: There must be complete isola-
tion from friends and relations; no letters are to be written, and those that are received are to be put Written, and
aside unoped. Only the lightest of literature is
to be read and it must be of a sensible and nonto be read, and it must be of a sensible and non-
exciting character. For the length of time that a patient feels she requires complete rest she must
stay in bed-say for a fortnight or three weeks. She must not neglect her meals during this period: indeed, the more nourishment she can take the more complete her cure will be. Nilk is by far the most begin by drinking a glass of it even hefore she has finished her night's sleep that is to say, if she happens to wake up early. Then she takes another glass with her breaks mila another at noon. Her both forbidden her. Last thing at night she has another glass of this exceedingly nutritions bever-
age. It stands to reason that her cure cannot be a age. It stands to reason that her cure cannot be a
success unless she banishes from her mind every success unless she banishes frow her mind every
worrying thought, and this she will find a very difficult task to do. She must drink no wine nor to the world with strength and nerves, she must not do so suddenly. Instead, she must get up for a short
time each day, and return to her usual duties by degrees.

Washington and Grint. - One day during his presidency, Grant came into the rooin where his cabinet was assembling, quiet ly laughing the best anecdotes I have ever met. It was that John Adams, after he had been president, was one day
taking a party out to dinner, at hishome in Quincy taking a party out to dinner, at his home in Quincy,
when one of his guests noticed a portrait over the door and said. 'You have a fine portrait of Washington there, Mr. Adams.' 'Yes,' was the reply, 'and thatold wooden-head madehis fortune by keeping his
mouth shut," and Grant laughed again with unmouth shut,' and Grant laughed again with un a permanent interest in Grants mouth, for though he showed no consciousness that it could have any application to himself, he evidently thought that insure fortune, and at any rate was not displeased at finding such a ground of sympathy with the Father of his Country.-Scribner. Advertisivg in Church.-The American sol-
diers in the Philippines see some strange sights.
Lately a crowd of them attended a church service in their honor. There was much praying and singing. The image of an old saint drew their attention Above the image was the picture of an eagle. On was the following legend. "The Old Reliable Con densed Milk." The artist had copied the eagle from a milk can. The padre explained that he thought it was an American motto. - San Francusco

## Humoreus.

Curate-"Oh-er-by the way, Mr. Bloggs, I was wondering whether you would give me a small subrepairing of the cemetery wall." Wealthy Par-venu-"Not me, sir. The cemetery wall don't need any repairing. Them as is inside can't get
out : an' them as is outside don't want to get in. Good mornin;
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, does it
never occur to vou that your constant muttering never occur to you that your constant muttering happen to be about? Why do you talk so to yourself?" "Shure, sor, I have two raisons for that. "And what are they, pray ?" "Weel, wan of sible man, an the other is I like to hear a sensible siben talk.
man
In a country village in Perthshire an old woman Was in the habit of keeping a number of hens. reaching a grocer's shop went into it and said calmly -" Wanting any eggs, sir ?" "Yes, old meeting not to give any more than 7 d. per dozen. "A richt, then, here ye are", she said. About a week afterwards the same old woman called on the eggs, replied -"These eggs are very small this time missus." "I believe that," she said, "but my hen nies had a meeting not to lay big eggs unless they got a big price
A certain young man was a victim of misplaced
Adence. He was particularly sweet on a very confidence. He was particularly sweet on a very
young lady, and called one evening, after having previously, paid her several visits. The girl's parents, thinking both too young to begin keeping company, gave a gentle the room and sending her to bed, and, secondly, by the lady of the house bringing into the room a huge slice of bread spread with butter and jam, saying to the youth in hes hame: it: a lang wye, an yer mither'll be hame; it

## The Complaining Woman.

Her trials may be very real, but all the same the complaining woman receives little sympathy. Her
voice contains a continual note of fretfulness, and her face wears always an expression of deepest inJury. Her grievances are against everybody, from minister who has called twice on her neighbor since he looked near her. The complaining woman, no doult, works very hard, and receives scan children devotedly, but still she is constantly "nagging" at them. She is so much engrossed avith her own troubles and wrongs that she loses al at heart the best and kindness of women, the world hever finds it out.

Large Families
There seems to be a desire just now to find out latest claimant to the honor is a Frenchman called Bresson. Who has just celebrated the birthday of
his forte-first child. It was born to his third wife, who is the mother of turteen. His first wife bore him fifteen children, and his second wife twelve. Thirty two of the children are still living, or were ap to a few months ago, when the father last heard families of their own, and they have become so scattered that he can scarcely keep track of them. He kept the names of his grandchildren until they numbered over one hundred, and then gave up the

## The End of Summer.

$$
\begin{aligned}
& \text { Good night! for the shadows lengthen } \\
& \text { Over the meadow irase } \\
& \text { And the gates of sunset are open }
\end{aligned}
$$ And the gate- of sunset are

For the dyiug day to pass Good night ! the mountains are fading.
The roice of singing cease : and the twilight, gracious and tender.
Is filling the railess with peace. Good night! for the summer is ended
0 summer of sunshine and balm! With ist riches of royal resplenden.
It curtains of silence and calm.
friends whose faces of smiling Wave rainbowed its passage with light,
Have heart, more warm than its putsee rest and a refuge, (iool nigh!

Good night : for the summer
0 vallee of quiet delight. mountains for cerer unweary,
mor ever unwandering, Good night

Good night! be it bra vely spoken,
Thougs ong on the lip should ceas
por the jo of the vanishe summer
For the iog of the vanished dummer

## ()ur Greatest Men.

The following is the list, in order according to readers of an English magazine consider to be the twelve greatest British-born subjects of the Queen: The Prince of Wales, Lord Salisbury ain Mr. Cecil Rhodes, Lord Roseberry, Nir Henry Irving, Mr. A. J. Bailfour, Mr. Rudyard Kipling The Archbishop of Canterbury, Lieut. Colonel R S. Baden-Powell. Among those who came closely
after the elected twelve were the Duke of York the Duke of Cambridge, Sir Arthur Sullivan, Dr W. G. Grace, Lord Wolseley, Sir Redvers Buller, Sir George White, Sir John Lubbock, 1)r. Conar
Doyle, Sir H. M. Stanley, "Fighting Mac." (ienera Doyle, Sir H. M. Stanley, "Fighting Mac" (ienerac Cormac, Mr. Hall Caine, the Lord Chief Justice George Meredith, and "Ian Maclaren.

Scene-Railway station. "How long does the "Stophere". two to two to two-two." "I wonder," mused the old lady

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(iold filled O. F. screw back and bezel case Nos. 10, 11. screw back and bezel case. same st $\mathbf{y l}$ le of cases as Nos. $5,1,4,7,8$ and 9 ; the dif ference is in the movement, and the movement is
1.).Jeweled Nickel, first-quality Elgin movement No. 1:5. Is a small-sized Swiss O. F. Gun Metal No. 16 . Is thesame.only withsterling Silver case, which can be had nicely engraved.
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