## MANITOBA and WESTERN EDITION



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THE FRRMER'S ADVOCATE \& HOME MAGAZIIIE
wil. WELD, propariror.
fHe leading agricturveral journal published
IN THE dominion.





Advertising RIRAtes-Single ingertion, 15 cents per line. $\xrightarrow{\text { Contract }}$
thomas weld,
Yanager Manitoba and Western Edition,
Special Notice.
On January 6th last Mr. Wm. Weld, proprietor of the Farmer's Advocate, purchased the Job Printing and Lithographing Departments of the London Free Press Printing Company, and is now operating the same. This office is probably the largest in Canada, certainly the largest in Western Ontario. The work done is not excelled on this continent, and efforts will be made to push it more than ever to the front. In Lithographing, Engraving, or Printing, the Cacine for all classes or work are unsursed, reasonable. Breeders catalogues completers. Posters,
delivered six days after receipt of copy. Diplomas, Letter Paper, Envelopes, Cards Circulars, etc., returned a few hours after copy reaches us. We have hundreds of stock cuts,
covering different breeds, that patrons can select from ; no extra charge will be made for the use of these engravings to parties placing their orders with us. Mail orders promptly attended to. Address

London Pristinis \& Lithographing Co., London Ont.

Notice to Correspondenis.
From lack of space we have been forced to leave over much important editorial and departmental matter. This includes editorials concerning one of the large Fair Boards, The Imperial Produce Company, Two rowed barley, Mr. J. C. Suell's reply to Mr. Dryden's Qua frien vs. Quantity," and much besides. of private letters of private letters. All these articles will appear na, post it so that it will reach our office by the 15th of the mowh. Write to the point, and briefly. No single artim, should occupy more than one greater length, arrange your article so that it can be continn arl. Practical, arteaconable articles
condensed are , what we want and what the
farmers will
©rditoriaí.

## Editorial Notes.

Many farmers in Canada to-day are deploring the low prices of farm produce, and for many sober, industrious, hard-working toiler the out look is anything but bright. The farmer with only gran to sell has, however, tho darke outlook. Prices are away down. Th true that in some sections the yield for the past year was larger than ustal. Th som in the Iuantity was enough to make for priees mean of price. With others the low of thinge actual loss, and there is piape future. The ceuses for this are many and various. Increased transpor facilities have very much lowered treight rates new land is coming into cultivareight ; is now largely grown in British India, with very cheap labor: other grains have similar com: petition, and chemical substitutes are said to be largely used instead of barley. The stock farmer has a better prospect-cheap, coarse grains mean a better chance for him. It is true that many fellers complain of the low prices paid for fat cattle, but the shrinkage in value is not nearly as much as in the case of grains. Canadian farmers must keep more stock, and send the products of their farms to market in a better shape. Grain growing extausts the soil, and to keep up its fertility manure is required

The best manure for Canada is barn-yard man ure. To get plenty of it and cheap, more animals must be kept. Different sections may be difer ently situated, and require different kinds stock farming, but as a general rule tacd farming will be found the best, wore department pustred for an the are now very many farmers who who grain they raise, ant feed in large quancicies, yearly increasing th men fille it pays is hendled, hat the stock class of good of there is no profit in must be good They will never pull off the keeping seruts.
mortgage, or swell the bank account,

Horses the past year have sold for fair prices. There is a good demand at paying prices for matched carriage teams. There is a sure and steady market for good, sound, heavy mediun teame, the prices are fair ; if very heavy, prices are al ways high for good animals, with flat bone and
tered heavy draught animals have found a good steady demand at good prices. This is a line of stock-raising not likely to be overdone, and on that can be carried on to a moderate extent o almost every farm. Cattle have not been high in price, but have, when good and well fed, lef a fair margin.
We regret that in many sections of Canada the feeding cattle are not so good as they were years ago. This is not as it should be. More and better animals are needed. In Britain a great nany cross-bred animals are raised for the kive greater weights than the pure-bred. Almost any good cross will do. Shorthorns on grades, Herefords, Angus or Galloways on Short horn grades. They feed well and make good beef. Much is lost every year by breeding scrubs. Let them go, goou animale can be got at reasonable prices. Iry them instead Much money is lost by wintering voung animal on straw-starvation rations. Grain is cheap let them have some of it-they keep bett winter better, and they will pay better.

Much has been done to help on Canadia dairy interests. Let the dairymen feed some of the cheap grain. It makes good milk, good butter, good cheese, and weeps the cows 10 heart. The coarse grains are noeded to hat this most importan -. the manure from grain

In Great Britain they have an industry not yet developed here, and that is raising the calves of the dairy farmer. Calves are contracted for and taken way when young. They are raised partly on milk and partly on specially prepared foods, are well cared for, well fed and wel wintered, and the following fall are sold to the feeders as store stock. A special businos cow made of this. For this purpose the dairy bee breed. Perhaps in this way a number of good stores could be raised for our Aberdeen friend who have inaugurated the live cattle trade
Many are crying out against shipping store cattle. They say we should feed our cattle her instead of sending them in oue ship and the in another to enrich the shrewd scotch feeder. If they can be ralsed amu scut ont rnay as well do it. It raise far more catle han wold meem to show pri es realima hat he the Scotah that there is money in the trawe. in some caues
farmer has his foul laid down in soth
oheaper than the Canadian farmer can raise it. Corn as an example: It can be laid down in Dandee or Aberdeen from Chicago cheaper than in London, Ontario. The home feeder can sen to Lond feeding in better order than the Cenedian animal Iresh from the Atlantic trip. He has all the winter months to work on. The long rail route to Halifax and the rougher sea voyage
practically bars us out of the market the whole practicaliy bars us out of the market the whole go by American ports and are slaughtered on landing.

The cattle that are going to pay are the well-bred ones, fed well from the day they are dropped right on till the day they leave the farm. If they are fit to go coming two yeary early maturing animals.

What about sheep and pigs? The latter have been paying well the past year, and probably more will be raised this year. Sheep are also doing fairly well. The price of wool has advanced somewhat, and lambs are in good de mand. Good heavy shoep in good condition Cor shipping have been paying. Mutton is the
very best flesh food, and is more largely used in very best flesh food, and is more largely ysed in
England than hare. Every farmer should have an few sheep. They will pick up food that woul be otherwise wasted, and the droppings are most valuable as manure. Sheep love the ary and they have that and plenty of pure running wate they will do well.

The breeders and importers of pure-bred sheep have had a good demand the past year, especially the medium-wooled sorts ; but all have appecially the medium-wooled sorts;
dout all have
dome farmers make sheep the main stock and do well with them.

In looking over the stock list to replace rain growing, do not despise the sheep. Give them_a place, and you will not regret it. And now what will your line be? What stock will you keep ? Generally a farmer will do best with
what he takes most interest in. That for his main line, but do not despise the others. Mixed farming-mixed stock-raising will often do best-but stop

## The Northwest Ranch Catte

From latest accounts there is every reason to believe that the ranch calle Rush Lake, Tr Saskatchewan, Gull Lake, Crane Lake, Binscarth and Dunmore the stock are in a fair way to come out in good shape. Pantry reports are not so favorable, as a prairie fre stif in the shape of grass and a large quantity of hay. Namoka lost rather havily as well.

## The Brandon Fair.

At a meeting of the Directors of the Agricul. tural Society, held on the 25th January, Mr. I. W. Vantassel was elected President ; S. A. Bedford, 1st Vicc-Pres ; Hy. Nichol, 2nd Vice-Pres., and E. Fitzbuckle, Sccretary. The accounts, which have been audited, were then presented to
the meeting, and showed that the Society wa in a much better financial position than ever before.
The new Board showed the greatest interest in the success of the Society, and decided to hold The prize list will be prepared at once, so that it may be distributued early in the spring. The
moard is determined to do all in its power to Board is determined to do all in its power to
make the fair of 1590 a success, and ask the hearty which we hope will be heartily given.

## Hon. Robert Read.

 We present on this page a portrait of the Senator, the Hon. Robert Read, of Belleville. He is one of the number who accon the Postmaster gation appointed to wait upon the Postmaster General concerning the charge of postage onery two weoks, Our readers will, no doubt, have retained fresh in their memories the report we gave on page 101 of the April number of 1889 .The Hon. Senator is an extensive farmer, and keeps a large number of dairy cows. He caused the first cheese factory to be erected in Canada east of Oxford County. Although elevated to the Senate, he is not above his business, but devotes a considerable portion of his time and talent to the interests of agriculturists. We heard him opposing measures that would have caused the expenditure of millions, but could never have been of any benefit to our country, excepting the contractors and a few favorite individuals. on the occasion of our deputation, he frankly told The Postmaster-General that he came to all "fair play


He has fought for the farmers' interests, an deserves their thanks. Would it have been ignt to pass the act that was introduced, com pay postage, and at the same time allow all politial papers to pass free of postag
It has ever been the policy of the Farmer advocate to elevate the thoughts of it readers more towards that which is right and just, than toward party or sect squables. The high, ennobling, enriching field of agriculture nutrammelled by party or sect, has been our heall. We trust that you, as intenigent men
 to, and hope a so hat you will soul awak to jour own dincerest by sending to rarn whose portrait adorns this paye. The time had rome when farmers can no longer afford to blindly follow a party. They mimst conoult the do this and act as a hoody, the national demen which now exists will soon pass away. With fromperous ayricultural class, the cometry min! are the agriculturisto to the nation. For severa years the farmers have suffered loss or have not
advanced; few indeed are making suitable in terest on the noney they have invested. It sehoves every man in the land to enquire as to
he cause, and help to remedy the evil. But the cause, and help to remedy the evil. But their cause will they receive the consideration they ought. If they would unite, every man
and every cause would be compelled to bend to and every cause would be compelled to bend their will. Systematic organization and deter-
mination of purpose is the great need of agriculture to day
What Dur Seedsmen Write Us.
Steel Bros. Co., Toronto, write:-We gladly comply with your request, and herewith hand you necessarily condensed reports of some
varieties of seeds we are offering this season. Oats.-The American Banner oats have done remarkably well in Canada the last two years, in many cases producing ninety bushels per acre. The grain of this oat is large, white and plump, weighing from thirty-six to forty-five pounds to the measured bushel, and ripeniug early, the straw being stiff and strong. These, with WideAwake bats, are the leading varieties for the year. Farmers in Ontario, as well as the Northwest, will find in these two varieties something really reliable and worthy of trial. Our practice is never to recommend a thing more than it deserves, and we have no hesitation in placing these varieties at the head of the list.
Barley.-Of this we have nothing new, but carry some very fine samples of Chevalier and Six-rowed, raised by that noted farmer, Simpson Rennie, Esq.. of the Prize Medal Farm, Scarboro. Mangels.-This season we are fortunate in procuring from turo a now diate Mangel, which comes to us very highly re commended, as producing euormous crops, and an excellent keeper. We tha will continue manns ar mor to dairying.
Carrots - Now, sir, you will pardon us if we take up considerable space here, for we, like the rest of mortals, have our hobby, and here it ha
We have no wish to bore you, but when one has a reaily good thing and knows it, to keep it to yourself is a sin-a positive crime. Now listen to the praises of our New Short White Carrót, which please do not confound with common white Vosges. Mr. Alfred Brown, of Bethel raised roots of this carrot weighing eight an one-half and nine and one-quarter pounds, and nine feet of drill produced a heaped bushel ; con sequently, having such magnificent roots ho swept the board at all county fairs. Professor Saunders, Experimental Farm, Ottawa, say they produced "the finest crop we ever grew." This carrot took first prizes at Industrial, Tro vincial and numerous other fairs, and they are without doubt the largest and heaviest croppin arrot grown ; thirty tons per acre have bee aised. Wo have no hestation in sayina nothing to equal it, and we hope reaters wifl give it a trial
We are informed, botlu : our travelers and numerous corresponder " tamal harc riven the enbect ensiderable attention and are now offering, illustrating and describing iil onr 1 190 catalogue those varieties most likely to sureen 1 there. Sainfoin and Lucerne aro Prulatly what will suit the requirements of this Fast and growing country, the great tap root of
he latter penetrating in some cases as much as twenty feet.
We, sir, believe in the future of our country, and take pleasure in endeavoring to assist in its rowth, remembering the saying, "That man is benefactor to his country who has made two blades of grass grow where only one grew before. And you, sir, will know:-No grass, no cattle no cattle, no manure ; no manure, no crops. W shall be pleased to continue our remarks corn, potatoes and turnips for next issue. Mr. George Keith, Seed Merchant, Toront writes:- Wheat.-The Red Fife and Whit Russian varieties still head the list, both for large yields and good samples, in this district.
Oats.-The best sample received this year is the Black Tartarian, which has yielded an immense crop. I would recommend farmers procure pure, imported seed.
Mangels.-Carter's Mammoth Long Red still holds its place at the head of the mangels 1,960 bushels have been hrown to the ace
John A Bruce \& Co., seed merchants, Hamil Lon, Ont., write:-The past foason wher section was ry dought during July and the The long continued ang a premare ripening early part of Augut less andinelled. The leading varieties are:-White Resi. Manitabar Red Fifo The Magyar, Lost Nation, Red Fern, White Fife and Mars.
Oats.-The favorite sorts in this section are : -Black Tartarian, Egyptian, Early Calder, Triumph or Cluster, White Russian, Welcome, Scotch Potato and Prince Edward Island. During the past season the following new varieties were tested in various sections, and, notwithstanding the unfayorable season, the Early Archangel, Holstein Prolific. The coming season will no doubt thoroughly test their adaptability to our climate.
Barley.-The only kinds cultivated in this locality are the ordinary four or six-rowed, also Rennit's Improved Six-Rowed. The Chevalier
or two rowed is being-enquired after and the or two rowed is being enquired after, and the
prospects are that it will be thoroughly tested
doring the coming season in all the favorable prospects are that it will
during the coming season
bariey sections in Ontario.
Buckwheat. -The Commo
Buckwheat.-The Common Grey is the leading Variety, but the New Japanese was grown to a
considerable extent, and reports of its great considurable extent, and reports of its great
productiveness and large grain will, no doubt, soon make it better known.
Mangel Wurzel.-This is a large and yearly are:-The Crate. Post, Loug Red, Norbition Giant, New Giant, Intermediate Yellow, Orange Globe, Golden Fleshed Tankard, Red Tankard and Red
Carrots - The favorite varieties are :- White Belgian and Large White Vosges. The latter is short growing variety, producing very thick
roots of fiue feeding quality. For shallow soils roots of fiue feeding quality. For
it is better adapted than any other.
Peas.-Golden Vine, Crown, Blue Prussian,
Black Eyed and White Marrowfat are the principal kinds
Dear Sir,- You will find enclosed the sum of
\$1, being my renewal for another year. I have taken your paper for four years, and like
better every year.-S. To show how important a factor Great Britai is as a market for the agricultural produce of
the world, the following figures will be of in the world, the following figures will be of in terest. Her imp.orts of foreign produce during
the eleven months ended Nov. 30 , 1889, were as follows: Live animals for food were imported
of the value in $819,180,105$ : grain, $\$ 232,586,155$, of the value of $819,480,105:$ grain, $\$ 232,586,155$;
dead meat. $8 \uparrow, 11,670 ;$ butter, $\$ 46,551,530$;

Professor James W.-Robertson. Prof. Robertson, the recently appointed Dairy Commissioner, was born in Dunlop, Ayrshire the sturdy Scotch, who were among the "Scottish Worthies" of conventicle and persecution fame brought up on a beautiful and productive farm, excelling as such in even that lovely part of Bonnie Scotland ; educated, until 14, at the Dunlop Free Church school, the Ardeer Public School, and Cunningham Institute. He spent three years at book-keeping and business in the office of Bailie J. Burt, the well-known temperance advocate and workingmen's politician of Glasgow. He came to Canada in 1875, and assisted in the exportation of cheese to scotland for one year while tiving on the farm in London Gore. A waras he learned the cheese-making in the Saford factory He was engaged ly of Tonnchip to Manuacturg ion is77 During the four years spent at North Branch, the output of the factory

grew from eighty odd tons to over one hundred and twenty tons of cheese in the season. He ac quired a facility in public speaking Lo do Room, in the local gatherings in Venus Lodge Room, women.
In the spring of 1881 he moved to Cotswold, in Minto Township, Wellugtor in four years beginning with one swa and prosperous cheese had control of of 700 farmers, actories, with a pars he took the initiative, and During these yanation of the Listowel Dairyhelped in the now the best known and en's Bools watehed of all the cheese markets in Cast Canada. Goverument to the desirability ettention grant to the Ontario Creameries of giving a graut 1886 he was requested by the Ansacio Government, at the invitation of Mr Tht Ballantyne, M. P. P., to assume charge o Thos. Dairy Department of the Ontario Agricul. tural College. He was then sent to England in charge of the dairy exhibits of Ontario, at the Colonial and Indian Exhibition (report of repor 1886, a special edition of 10,000 being distribu
ted). One thing obtained that does not show here, was the free advertising of our country, its
tesources, its products, especially its butter and esources, its products, especially its butter and
heese, to the extent of 600 miles of single columns, in such papers as the Daily News, Telegraph, Standard, Morning Post, etc., by writ ng up butter, cheese, etc., in letters on Hom
Rule for Ireland, by the introduction of th Canadian creamery system, imperial federation pronoted by the production of fine food by the He also visited Denmark to investigate the means whereby the Danes developed their profit ble butter export trade. In 1887 he began to gitate for winter dairying and the general
growth of fodder corn for cows. In 1889, it stimated that over 20,000 acres additional fodde orn were planted in Ontario as the result of thi ontinued agitation.
In 1888 he was invited to speak at the W is
consin Farmers' Institute. After a careful, consin Farmers Institute. After a careful,
houghtul examination of the American method of building silos and curing ensilage, he came
back and began to work for the general intro back and began to work for the general intro crop of fodder corn, and to erect and fill a silo In the correct way, on the Experimental Farm Notwithstanding the unfortunate fire which
consumed the farm buildings, the silo and en silage were demonstrated successes. Reports from nearly 200 silos in Ontario filled in 1889, with only two exceptions, proclaim them a grati-
fying success. Over 2,500 will be put up during
1890.
Meanwhile, bulletins on the care of milk, and of instruction on the practical details of the
nanufacture of cheese and butter, have bee manufacture of cheese and butter, have been
issisued frequentity.. Supervision has beenl.had of
the work of the ten dairy inspectors employed by the work of the ten dairy inspectors employed by
the Dairymen's Association of Ontario. Between the Dairymen's Association of Ontario. Between
fifty and sixty farmers' institute meetings and fifty and sixty farmers ${ }^{\circ}$ institute meetings and
conventions have been attended in Ontari annually. A course of college lectures have been
delivered on dairy husbandry. His experimental work in the treatment of milk, the feeding an and salting of cows, and the fattering of hog
have brought to light some valuable informatio A little writing for the ADvocatr and other agn cultural papers has filled up odd half hours. I Dairy Husbandry, at Cornell University, N. Y The office recently created by Order-in. Council, is that of "Commissioner of Dairy Husbandry position, Mr. Robertson was wisely chosen by the Dominion Government. The work to be undertaken may be classec under three heads:-
(a) Bulletins of information and instruction will be issued systematically for the guidence of butter-makers, cheese-makers and dairymen. b) Encouragement will be given (through the holding of conventions, the organization of pro-
inciaf dairymen's associations, and the dissemination of information) to the extension of dairynation into districts which have not made any progress in its practice. (c) The needs and prefer and information will be supplied to producers, and information view to stimulating the enterprise of comwerce, to ment those needs in qualities, packages,
etc. (d) Attention will be paid to the best etc. (d) Attention will be paid to the best
means for preventing and suppressing fraud in the supply of milk to manufacturers, and in the articles of dairy produce.
2 (a) Charge will be taken of all the stock nd stock experimental work on the Central Ex-
perinental Farm. (b) Dairy buildings will be erected, and the economical production of butter and chese will be examined, both as regards the
treatment of milk and the parts of the processes reatment of milk
f manufacture.
of manufacture.
3 (a) A series of Dominion Farmers' Institutes will be organized and superratended , their en who will attend smaller, local institutes. A eeport of their proceedings will be widely spread through the country. (b) Special con ventions r the ins. in the theory and best practic butter-makers, in the theory and provinces.
The Ontario Agricultural College especially, and the Province of Ontario generally, will feel the dios
collt for the Hon. Mr. Drury to fill the racancy may be found who will continue the valuable work commenced and carried on by the subject our sketch. The Dominion Government is singularly fortunate in securing his services.
There is not another man in the Dominion as tuitabale, and not over one or two in America.

## The Corn ©uestion

As most of our readers are aware this question was brought up in the House of Commons early in the past month, and after a short debate in which a few members took part, and with a little over half the representatives present, the resolution proposing a rebate on the tariff on corn for feeders and farmers (which the do tillers obtained last sess a small majority. Those members tituencies, supd they bean so minded, might at least moved an adjournment of the debate until such time as more general expression of the farmer's needs in this case could have been obtained, before allowing the question to be voted upon. The fact is, all the other bodies are able to obtain legislation to assist in removing any grievance that can be shown to exist, but farmers are merely of use as voting machines on election days, and serve very well in this capacity, and can be led as their different leaders choose, not for any benefit in their line of production, but as party followers, from which standpoint they more frequently draw their conclusions, than in looking to the interests of their business. The fact is the average representative sceks to serve his party leader far more than the wants of his constituents. We conslact the question of Free Corn one of the most inpor that is likely to come up during the present ing thought We hear much in this present ing the deht that is lying against our farm lands in all directions, but we consider that in lana depleted condition of these lands we have a much more serious outlook to restore these lands to their former fertility. The whole of our older counties will have to take up stock feeding in some of its branches, and to do this cheap feed is what is required, and for this reason the advocate deplores go deeply that this question of oheep feed for our stockmen, feeders and dairymen has once more got a set back. The older provinces cannot compete in growing cheap feed with the West, and a arge share of their lands require purchased feed to restor their lost fertility, before they will grow roots o grain profitably. Many farmers also require seed corn for soiling purposes, this must be im ported, yet this is also taxed, and the pretender policy of admitting the raw material in the Government desire to build up agriculture it mus Goventer. With all our boasted immunity from disease and freedem of inland lititish markets, we last year increased our export of cattle one fourth, while the United States, having th slaughter their cattl
increased one-half.

It, is not alone for the young that milk healthful, though its nutritive characteristic especially adapt it to promote bodily growth
It is almost equally a specific for brain call tion, and the student or writer who is faged out will' find a glass of warmed milk to reviere him better than a stimulant. Ice-cold milk, as in
deed all ice cold drinks, should be avoided, a they are very injurious to digestion.

## Free Corn.

In the January number of the Advocate you Corn." Ine opinion of farmers on there is duty on corn or on anything else that the farmer im ports. In a purely agricultural country like Canada it should be the aim of our Governmen to stimulate and foster our greatest industry. It is a noted fact that when our farmers are making money everybody else is. Make the farmer prosperons, and the country is prosperous also But it seems to me that farmers too often have to take second place, election times excepted. A number of years ago our manufacture were away down, and they called to our Legisla tors to lift them up. The Legislators answer ed :- "If you place us in power, we will raise you up and place your feet upon a rock (the 1 P.), and establish your goings (by making the consumer pay daar, wory doar wat buys). In fact, everybody wanted protcetion and the same answer was given. Well, we al got protection, the the se ored upon in this respect then ther husiness men, becauso farmerg' the are long in coming in. But now that they have got on to the racket through the medium of your most valuable paper, I truist that they will not rest till they compel, if necessary, our Government to remove the duty of every thing that is required by the farmer. It have the duty taken off corn and other feed stuff Our future points toward first quality bee mutton, pork and dairy goods. Now, we know that there is very little money in beef. W know, too, that an immense amount of pork is imported into Canada every year. Give us free corn and we can and will curtail, if not entirely stop, this importation of pork. I have not the fgures at hand, but know there are millions of dollars in the swine incustry. If we could lessen the cost of prowction, I beheve free con momla go a long way towaras enabling Fancter Taner warming 3. . If we to in tw beef it must be feters Free corn will whe to prine bet heaper beef than we can produce at presit: not ouly that but while making beef we will oriching our farms: we will be emablel to con pete at least in part with other countries in
There is one thing in 'connection with this miject that 1 think a disgrace to our Govern tor the manufacture of whiskey, and that farmer hould be taxecl for manufacturing it (corn) int rank, neither an I a total alstainer, bnt I In arong lelitver in fair play. It liphor was a he so bad, but as it is ouly a mere luxury, and (x) westh misery in our homes when used th is a shame and a discrace. Why, in the name
of common sense, hon't our Cimermment faver that industry which is the hackhone ani main
 Dear sip, I have taken the Abwenter



One prerequisite for a good crop is good, well developed seed. A vast amount of discussion has been going on during the past year as to results from sowing frozen wheat. So far, however, no direct conclusion seems to have been reached. In some instances there has been excellent results, and in others quite the reverse. This plainly indicates that there are other circum. stances affecting the result. It is quite probable that wheat that has been frozen, and the vitality of the germ thereby weakened, will produce a really good crop if sown under favorable conditions, such as a rich soil with plenty moisture to render soluble the plant food contained therein. Sa the orner hith, germ, if sown in a poor son winsuncent moisture to render the scant supply of plant rood available, is not som and mount of nocily arow th makes a deciuedy por On many Cared thistle seeds imported with them. It will be absolutely necessary to clean thorough. Iy with a rood fanning mill, and burn every thing that is blown or screened out. There is no basis on which to build the hope so many are indulging in aut present, viz, that Canade thistles will not grow in Manitobs. They do grow and zuill grow, and there is little reason to doubt that they will yet be found a great nuisance to agriculture. It is a great mistake to sow any kind of grain without cleaning it thoroughly. One foul seed may cause greater annoyance and inconvenience than would annoyance and inconvenence sown on a large
thoroughly clean all the grain soll
farm. In wheat the Red Fife still seems to take farm. In wheat the Red Fife still seems to take the lead, although there are sut are not yet produced in sufficient quantities to be sown to

## Our Seed Grain Tests.

The following are the results of the seed grain tests of the season of 1889 . Over 2,000 fourounce packages, containing two varieties of spring wheat, viz., Manitou and Colorado, of oats, Cave and White Canada, were sent to those of our subscribers who sent for them.
They were well distributed, Edward Island and New Brunswick, and as far west as Yorkton, N.-W. Territory; Ontario heing represented in almost every locality. Manitou wheat has done the best notwithstanding rust, and has proved hardy in the Northwest. The sample is reported good in the majority of cases, and the yield fair considering the season. Colorado has grown good and large yields from some parts, but does not appear to be as relisble in the majority of places where these two were sown side by side, but both have been more successful than some of the better known and older varieties. White Canada oats have giver great satisfaction almnst everywhere, heing far in advance of the old sorts. In a great many instances reported the yield has been immense, with capital quality of grain and plenty of gool straw which stands well. The Cave oat 2o has doue very well, with abnormal yields orted in a great many instances, and was very - rrom rust and strong in the straw. On the C. those who have tested these varieties are to try them again, as it is only by
trying new varieties that we can trying new varieties that we can

The ADvocite intends pushing these tests to
a 'rill greater extent, and has a large quantity a still greater extent, and has a large quantity
of the best varieties of winter wheat now out of the best varieties of winter Ontario, some sorts of which have proved extra good yielding whest of extra milling qualities. In many of the letters reporting the tests are enquiries for these varieties for seed fur this
season. The Colorado wheat can be obtained season. The Colorado wheat can be obtained
of any of the leading seedsmen that gre adverof any of the lead. The Manitou wheat can be
tiaing with us.
obtained from Mr. David Birrell, Greenwood, who obtained from Mr. David Birrell, Greenwood, who has a limited quantity grown by himselt for sale. The Cave oars are not this year, but on application to the quanocate office the White Canada can be supplied.

Hungarian Grass
J. L., Warrington P. O., writes :-"I would garian grass. What time should it be sown, garian how much per acre, also what is the cost of seed? We will have to raise something for hay. In the very near future there will be a great many farmers in Manitoba exclaiming with J L., "We will have to raise something for hay ! And while Hungarian grass is not all that could be desired, it will, if properly handled, make very good substitute for hay. The ground must be very clean, as the seed does not germinate quickly, and if there are many weed seeds in the soil they will get a good start before the Hun garian is able to corupete with them for standing room. It is a strong grower however when fairly started, and will grow even when thus handicapped, and make the very best use of all the available space between the weeds. If sown on clean, rich ground the yield is simply enormous, often in favorable seasons reaching four tons or even more per acre. Millet yields even a heavier crop than Hungarian, but grows coarser and is not relished as well. Fourteen to sixteen quarts of seed per acre is usually con sidered sufficient. The seed sells in ctario dollar at able ber dilar per bushe, but retails at two dollars ta Winnipeg. Mr O'Malley M P P for Mays:-"I Mr. OMalley, M. P. For Lorne, years with excellent resian four and alf tons rere but consider two four and a-balf tons per acre, but consider two garian is the nearest approach to alution the grass question in Mauitoba that as yet been proposed. There is no reason why the seed should not be grown here much more cheaply than to buy it at current prices,"' Mr. O'Malley further says he is not growing Hungarion at present, as a non-resident friend of his owns a large hay meadow in his immediate locality, to which he has unlimited access, but that in the near future he expects to loose this privilege, When he will again grow it. Mr. O'Malley finds it best to sow from the fifteenth to the twenty-fourth of May, as by this means it is sufficiently advanced to be harvested before the grain is ready. Hungarian should be cut as soon as it is fully headed out, as a very few days after that it gets tough and wiry and has not nearly as high a nutritive value. If it is desirable to save send trom a part of the crop, it may be left until the seed hardens, and cut with a
binder, makine binder, making the sheaves as small as possilbe
that they muay dry through thoroughly We that they may dry through thoroughly. We
shall be pleasel to have the experience of others
with With this or thy other kind of grass grow
successfully in successfully in timitoba and the Northwest.

Mr. Mullen's Farm, Cypress River, Manitolba.
Two miles north west of Cypress River Station is the farm of Mr. James Mullen, formerly of Lachute, Quebec. Mr. Mullen owns considerable and in this vicinity, and farms on a rather large scale, about two hundred acres being now ready for seed. Alive to the fact that, in successfu farming, stock must be made an important factor Mr. Mullen has stock is the most proftable horses, cattle, sheep and swine, as well as some fine poultry
In the stud is the Clydesdale stallion Cairn brogie of the Dean [448] (4898); he is a dar white feet He was bred by John Kerr, arshin Scotland. He fooled in Narch 1805, ported in 1887 by Prof Smith of the Ontari Veterinary College Toronto and was purehared by Mr. Mullef and his then partner, Mr. Owens Manitoba boasts of several excellent Clydedales; but to the admirer of the typical Clyde, who ha not seen Cairnbrogie of the Dean, treatremains. He is not of the mountainous mass of flesh kind but has probably as much quality as has ever bee seen in the province. It must not be inferred from this, however, that he is small; on the contrary, he weighed last June, in the height or the season's work, $1,600 \mathrm{lbs}$., being four years old at that time. He also measures twenty nine inches around the forearm, and forty inches around the stifle, and has a flank-girth of seven feet one and a-half inches, with well-sprung perfect beautifurty ; grand quarters ; short back, neck ; fine, silky, and unusually profuse leg feathering, denoting an excellent quality of bone; feet as 'good as could ne asked, and properly placed under him. He is a sight worth seeing, and must be seen to be appreciated. Few Clydesdales have the style, action and spirit of this horse. He is of the type now so popular across the fines, and which will yet prove most useful in this country, viz., muscle, style and action, in preference to abnormal size, accom-
panied by coarseness.
Lady Sally $\lceil 610\rceil(2439)$ is a fine brown mare, with a white stripe in the face. She, too, is of good quality throughout, with fine qualiy os bone and good feet. Her foal, June hill prone, credit to her sire Cairnbrogie of the Dean.
Maud (imp.) [612] and Dora (imp.) $[608]$ are
Maud (imp.) 612$]$ and team and raising foals as well.
Especially worthy of notice among the Short horns is staright -15439-. She is a fin excellent points being rood in the crons and excelent points, bert on with very fair underline A little coarseness of the horn is her worst eature
Redberry $=1543 S=$ is a fine, dark red foul
year-old cow with good substance and form, also a tine head, but in rather low condition oxing to the scarcity of feed in this locality. A nice roan yearling heiter by Soldier Boy stahles, also the stock bull St. Parrick, but space forkids extended reference to them. In the yard iv the Burkshiru hoar Gondenal In the yard is the Burkshrw ror Gool enongh are tine animals. Mr. Mrullen tahe consitleratle pride in his came fuwls, of which the has guite ${ }_{a}$ a large number.

## Stock.

## Hetter Cattle

The Breeder's Gazette says, "Fewer and wetter cattle will yet prove the salvation of the ardry. Here is a whole sermon in a dozen words. It is a favorite saying of the breeder of por stock, "The feed makes the breed." This, hat would great fallacy. Where is the in veek, as did Make 36 lbs . 12 I oz. of burter or th 6 lbs . eigh. given by Princess 2 nd, or as did Brant Chief 2415 bs. Munro's weight at thre years, or 1510 the weight of Britisher as a vear ling. Free access to all the feed grown in Man itoba would not do it. A visit to the Union Stock Yards of Chicago is an excellent education. There may be seen the lauk, thin-fleshed one and a-halr cent per pound Texan being slaughtered by thounands to supply the hom trade of 1 Une suse Polled 1 gus worth from four to five and s.herf cents per pound too good for the Amoricare and are shipped to England, where good beet is recognized and appreciated. This winter hao tully demonstrated that Manitobs has reiched and even passed the self-supporting point, and must at once seek an outlet for her beef cattle. Where is this outlet to ke found? If cattle of the right stamp are produced, England will take them at a fair price; if poor ones are protriond, they will go begging buyers, as no farmer fir the Dominion of Canada over saw them beg before. And why? Simply because this class of cattle will not yield a profit to shippers under existing conditious if furnished at half a cent per pound. And as we have no great manufacturing towns at home to supply, this fact will be brought home with force to our farmers in the very near future. As more pounds of the better class of beef can be produced for less money by using a pure-bred sire of any of the beef breeds even on the common cow, it is surely wisdom to hreed along this line. It not unfrequently occurs that the heifer bred in this way, true to her breeding grows well, attaining fine condilion for beel, and is sold for tha pup to reproduce her kina. This is solng the gore that will almost to a certainty lay a goldun egs. theder and importer of pure bred cattle, but it is simply suicidal to his best interests to nes a it is if a pure-bred sire is not availsble otherwise, a number of farmers should unite and procure . They are to be had in our own Province of excellent quality and at rates within the reach of all. While this article has referred to the beefy properties only of cattle, the same
principle is applicable to the dairy breeds. At all events and in every iustance use an pure-bred sire of the breed that most nearly fils the re-
quirements according to looation or individual quirements according to location or inded
hnice, and above all do not interbreed th different grades. The long line of breeding necessary to establigh the pure-bred cattlo give them great prepotency in crossing on cos will be
grade stock, but that these qualites will transmitted by their grade progeny is not at a probatile, hence crossing with very uncertain resulta.

Importrrs of draft hreeis of horses are hring. ing across the hig pood more mares than usual.
This is indivative of aivancel thinking. Too
much attontim has luen iven to the sire, and

## Sheep House.

 We have been asked to give a.jescription and design of asheep house for the winter accommodation of 100 sheep. If it is desired to keep that number of sheep in three nearly equal lots, we would reccmmend a building 72 by 36 feet, divided into three pens of equal size, the partitions resting upon cross walls supporting the which the loft is intend.ed, but as hay io genered, but as hay thener- ally stored for the winally stored for the win-
tor feeding of sheep, we ter reeding of sheep,
advise a building with posts from 18 to 20 feet high. The sheep pens should be at least seven feet high, which would leave large room in the loft for the stor age of hay. If so mucl loft room is not required the main building may be 72 by 24 feet, and解
 building whe aindicated. The basement for it weuld be neeossary to nave n passage arolarge medium or large breeds.
. Mr John Jockson, Abingdon, sends us plai sheepp pens may be buit or it will be more amount of the space, besides we preeter to be Mr. © Jo or, if preferred, and sheep, the building may among the sheep in feeding theu, to seif "As reequested I send you a rough sketch of a healthful for the sheep, be frame upon a stone foundation, say or two feol an be made sufficiently warmfor any $/$ eve of the experienced shepherd will read quil were the "little Southpurpose by the use of
purpose by the waed the tarted paper between the ner lining. Supposing that 60 to 70 breeding owes are kept, they should have two of the
$24 \times 36$ pens, and can be divided to best advantage for feeding the younger and older ewes a little bettor than those of midale age, and these two pens will be found necossary, especially in lambing time, to keep the ewes that have lamb ed early and those more forward with lamb, sep. arate from those cond Hater, which can dor nu rougher fare The hen mas be used for and ponmay if it is losired to winter a fow another section rams, anolised, or pr vision may be made fo vision a lean-to at one nd of the building. similar lean-to at the
 downis." The size of the sheep would of course make some difference to the room required. In a sheep house we think the ceiling should be not less than ten feet, with good facilities for ventiation. Plenty of pure air is very necessary to Our Subscription Prize.
We regrot to say la grippe has had such grip on our special artist that this truly beauti ful picture has not been completed. We will commence to mail copies of it about the 10th of March. All to whom copies are now due shoula receive them
by the first of April. If they do not come to hand by that date write us and we will forward you another copy. It has taken our artist

 linigg and of a lying in hospital for the cwes attention in fiven to the shluy one whe will extend the time for receiving new subscrib.
 for a few days before going with the flock agaill. is so winple and

 to catch any feed pulled out by the shece, and gui in which to foed grain or roots. An oppming


Messrs. Graham Bros. Clydesdales. For a number of years Cairnbrogie has been one of the most noted Clydesdale establishments in America, and the owners among the most noted horsemen-from their earliest childhood they have beon asoocisted with the leading live stoct breeders of this continent. They lon ago learned the good qualities of the Cydesdale, and very early in life distinguished themselve by importing a considerable number of firm superior hores. hape beopular. Although they have each yea modre popular. Although they have each year stables are by far the begt lot they ever owned The first we will notice is Macneilage (2992) foided June, 1882 ; sire Macgregor (1487), dam
Jefief (1295). This is a splendidly bred horse, o great aubstance, fine quality and finish. Some exoellent judges say he is the best son of the
noted Macgregor. He is thus described by Mr. noted Macgregor. He is thus described by Mr
MoNeilage, the Secretary of the Clydesdal Assoojation of Great Britain and Ireland: "Mac neilage (2992), is a short-legged, strong boned,
pith first-rate feet powerfuly-built horse, with first.rate He has been as distinguished prize-winner. When a yaarling he was first at Dumiries Union Show and second at Kirkcuabright.
year-old he was third at Kilmarnock and first at year- ooyal at Shrewsbury; and when a three year-old he was first at the Royal at Preskon,
and third at the H. \& 4 . S. Show at Aberdeen and third at the $H$ Hes proved himself to be a sure foal-getter, He has proved have taken prizes at Kilmarnock and Paisley and other shows in the west of Scotland. Since,
whenever shown."
Royal Lawrence (6243) is now four years old ; sire St. Lawrence (3220), first dam Bill of Carco Vol. X. This is a rather rangy fellow, his egsare g od and he stands well on hiem. Macl. X.,
(6055), MacMath ( 60500 , MacIndoe, Vol
and Southern Cross ( 7273 ), are all a year younger and Southern Cross ( 7273 ), are all a year younger
and than the last mentioned, and may all be dethan the last mentioned, and may all be ae
scribed as good in color, in bone, style and scribed as good in color, in farmers ought to
action-just such horses as our farm patronize.
Macclaskio (8996), a photo.-engraving of which appears in this issue, was bred (1487), first dam
Cecil ; his sire was Macgregor Kelpie (2034). To-day we consider him a better horse than Macneilage; he is undoubtedly th hest Macgregor alive-aiways a good coll has improved wonderfully during the last six months, and is of massive proportions, yet of splendid quality throughout; he will be one of the
chief attractions at the coming stallion show to chief attractions beld in Toronto
Kincraig (6879), the same age, was bred by Andrew Montgomery, Castle Douglas, Scotland sire Prince of irds arge, growthy, smooth colt
$(6618)$. This is a largen with a very good middle, back, yuarters. neck and head; he is strong in the bone, and $h$
muscles are well developed. muscoes are well developed.
Chairman (6593) and Prinee of Lothian Vo
xII., the former bred by Lords A. \& L. Cecil and the latter by J . A. Befour. M. ., Thesto kirk, Scotama, different type, very upstanding
of a somewhat
and flashy; in color a beautiful rich brown. and flashy; in color a beautitur rich hrown,
Their feet and pasterns are good; muscular de velopment, bone and form first-class. They a their symmetry and form irst-class. They
destined to be very popular with the farmers, anid are sure to do big seasons, and produce a popular kind of horse. May, 1887 ; bred by R.
Gilroy ( 6789 ), foaled Mat Gilroy (6789, foaled May,
Gilroy, Uppertown, Scotand: sire Master of Blantyre (2283), first dam Maggie of Barnillat (3524). This is one of the most verngh very large and
at Cairbrogie. Altheugh

 Main Top, all thre years ond morses of great merit thrugh
out ; their feet, pasterns and legs are all that
an be desired. They are of the same type, and
of much the same quality as Macneilage. much the same quality as Macneilage, ba the Iarquis of Londonderry ( 7482 ). Messrs. Graham hink this their best yearling. He is large and growthy, yet finely finished ; his bone is strong, ard and flat ; clothed with hair of the best Mality, his feet and pasterns the others, he has been a successful prize winner on both sides of the water. Arbitrator Vol MI., three month younger and somewhat sinam Hornbean. of a different type, yet finely finished. Al bout him denotes, good breeding and quality.
He is destined to one a noted horse. He is destined to be a noted horse.
Othello Vol. VII., foaled May, 1888 ; bred by
R. Neil, Bambourd, Scotland ; sire Bold Mage (4269), first dam Polly of Bamburd (6562), is a seautifully turned colt of splendid quality and
breeding. Like the last two, he is of unusual merit throughout
Besides the above mentioned, there are oth good horses and mares, but space forbids to will be exhibited at the stallion show, which will take place on the 13th of March in Toronto Those who cannot attend should write to Messras Graham catalogue, which will be rent on application This work contains much valuable matter tha every farmer should know.

## Clydesdale Stud

This establishment, like Messrs. Graham's and Sorby's, is not only one of the largest and best in Canada, but contains more very good horse than any stable in the U. S. A. These establishments are a national benefit of which sher h
Canadian farmer should feel proud and show h pride in a tangible way by patronizing the very goor horses they import. We herewith eive a sho Those wishing fuller imformation should obtain their catalogue which may be had by writing them. All their horses are very finely bred, of
large size and of unusual merit. Just such animals as will produce largo, valuable cart horses. In the large American markets to-day large cart horses are the only ones selling at States in this issue.) In October, 1889, page 305, we gave an illustration of Sir Maurice (4721), Eastfield Style (6724) and Eastield horses of great size and grand quality. Sir Maurice gained second prize at Inverurie when
aoal s second at Dalbeattie, and fcurth at the H. \& A.S. when a yearling ; second at Glasgow when a two year-old ; was in the short leet of five at the Glasgow Stallion Show when a three yearSince being imported Sir Maurice won the follow ing prizes:-At the 'rovincial Exhibition, held in London, first prize for the best aged stallion
the silver medal for the best Clydesdale stallion of any age; and the Prince of Wales prize for
the best lieavy draft horse of any age or breed At the Industrial Exhibition, held in Toronto, he won the first prize in his class and the silve
meilal for the best Clydesdale stallion of any age At South Ontario Agricultural Society's show he was awarded tirst prize for the best aged
$\qquad$ and heavily chathed whth musclle, the kin almulant aut of a blom homse, an! the hain

$\qquad$

## 1.ronte Induated fraturtion in :



Eastifield Chief, coming three years old. This
hoice colt is one of the best two-year-olds ever choice eolt is one of the best two-year-olds ever
exhibited in Scotland. He was first at Edinburgh, second at Ayr, and third at Glasgow this season in very strong classes. Since being imported, won first prize at the Provincial Exhibition held at London; first prize at the
Toronto Industrial Exhibition ; first prize and Toronto Industrial Exhibition; frrst prize and held at Whitby ; and first prize at the West
Durham Agricurtural Society's Show, BowmanDurbam Agricultural Society's Show, Bowman-
ville. He has wonderful bone and substance and is one of the strongest and best cart horses in America. He has very few equals. All three of these horses have improved in appearance ery much since the fall shows.
Sir Walter, now rising four years, is a well-
alanced, short legged, strong-boned colt, has first-rate feet and legs, deep ribs, good quarter and thighs, and a very good back. He gaine
fourth prize at Dalbeattie when a yearling, and a fourth at Dumfries Union Show as a two-year old last year, and last spring he was in the short
cet of the Glasgow Stallion Show, where he was awarded the Buchan District Premium. Si Walter won first prize at the Provincial Exhibition, held in London, September, 1889 ; firs prize at the Industrial Exhibition, held Toronto, in September, 1889 ; and first prize at
the Ontario and Durham Exhibition, held in Whitby. He also is improving fast. Aruethan Boy (5493), fated wne, 1886 , is one destined to be very popukar with the farmers. He has abundance of bone, muscle and of th ight quality ; his feet/and pasterns are goo Lord Gray (6965), pearly three years old, is
bay of low, blocky type, with flat, hard bone o extra good quality. Héis a nice, useful horse, with plenty of move and ambition
MacCalman (6995), a brown, also rising three
is a very large, strong colt, with extra good fee is a very large, strong colt, with extra good fee
and pasterns and good mover ; a trifle upstand and pasterns and good mover; a trine upstand and only requires a little time to develop him. thick, massive horse, strongly knit and close to the ground, yet very st
sire of heavy cart horses

$$
\begin{aligned}
& \text { sire of heavy cart horses } \\
& \text { sandlemas (5614) is } \\
& \text { Cand }
\end{aligned}
$$

Candiemas (5614) is much the same type with Renfrew Gallant (Vol. XII) horse. neat cut horse, with beantiful head and neck, a general make-up very pleasing to the eye, and will turn out a very good sire.
Clyde Admiral (Vol. X III.) is a very growthy,
smooth turned colt, with good, clean , hard bone smooth turned colt, with good, clean, hard bone
and strong joints; altogether a very promising colt. Paragon (7097) is a large, massive horse of
cols great size and symmetry, with legs of capital imposing looking horse ; is calculated to sire extra heavy dray horses. He is one of the argost ever imported hy this firm.
Eastield Gem, a nicely turned horse, of the
medium size rib, extra quality, good feet and medium size rib, extra quality, good feet and
pastens ; just such a horse as is required in some sections of the country.
Eastfield Laddie foaled finely proportioned and truly beautitol horse finely proportioned and truly beautiful horse, of
fine breeding ; he is a half brother to the noted horse St. (Gacien (3998), which he closely resem
bles, but is more muscular and massive. His hles, but is more muscular and massive. His
legs are short; bone and hair abundant, and of faultless yuality; joints all that could be wished his holy is thick, deep, smooth, and very mus
cular : his arms and thighs are very strong. He has a strong quarter and short back, superb on: in all a most promising horse.
Maria (Yol. XII), foaled 1888, is a magni Maria ( XII) foaled 1888, is a magnivesdale men; and though she then promise Wr. she is surpassing even her owners' expecta
She has everything to be desired; her (1. at siac, wondertul feet and legs, and splendid Cl. uromi qualtity, and, to top all, her good . Nomak make of the best brood 1.- Aily in Scotland. Space forbids us to

Horse Hrecding in Canada Before deciding in which line, whether heavy or light, it must be remembered that more judgment is required in the lighter lines of breeding, for winout quat the prices will not be and light harness horses the prices will not remunerative. A breeder may succeed, and will, lass horses for amusement and pleasure the case lass horses different, every point for display as well sutility must be kept in view, and a more practiced eye and better judgment in deciding, the sort of crosses to be made use of, is where the whole secret of breeding is brought out. Tho-most careful watchfulness over all will be required, and a thorough determination to excel in this work must over balance any scruples on The different breeds are all alike in many respects, and the same laws govern each line or breeding For instance, the foot is the first inportant point, without which, it has been truly said, there is ${ }^{\text {demo }}$ horse ; then the set of the pasterns, here again the same rule is carried along. In fact, whatever sphere of life the horse has to fill, the useful must always be kept in full view. A certain amount of the righe quality of bone below the knee, with strong, clean joints, thighs and forearms muscled as if they meant business, must be looked to in each class alike, and the breeders of any class that ignore these points are certain," sooner or later, to ind their mistake.
Vital force, by having plenty of heart and lang power, is just as necessary as any of the loregoing, after which due regard must be paid 10 strength of loin with proper coupling, propery sloped shoulders, well sprung rib and rounded barrel, after which it is an undoubted necessity to have neck and head properly formed and placed, with head and eye expressing good temper astrongly manifested. All must have quality saficient for each particular line of breeding, ard in every case action, without which no breed ort are really valuable either for breeding, properly developed the we fud this quality properly developed the whole construction is mbition popery balanced, and if we ad the nobler anim, inbued in horse life as it is is having a perfect horse
Each and every breed has its different char acteristics, but the same law of construction Whatever carried out in different degrees. in, as in every other in the front proits obtained, the large nocessary to fir ste study up the requirements of the market we are seeking to supply. Should we decide on breeding saddle horses, the demand will be found in our Canadian cities, for the land. For this line and for exportation to Eng used to cross on what mares we sires must be will be suitable for this cross, and an that can be found that are just what are required The great difficulty will be in finding the sored stallion that is fittel for this purpose for the breeder must nuv: bear in mind in which diree tion his next crosus are likely to be made. The fillies and mares should be held for breeding selling the geld. for saddle horses, for a

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advantageously bred to the Coach stallion f
arge carniage horses, to a Roadster stallion fir he best of drivers, and to the thoroughbred to fore, the proper thoroughbred stallion should be there of large size, gool color, good disposition, with
plenty of bone below the knee, not necessaril) ast, but of all things sound, which is too ofte oot the case with the turf winners. Horses o the breeding of thoroughbred horses is made Susiness of, and it is strange they are not more class, as well as trotters, speed is the goal aimed class, as well as trotters, speed is the goal ai
at, and often spoils more desirable points.

Dominion IBreeders' Associations
In a letter under date Feb. 1st, 1890, fron Mr. Arch. McNeilage, 46 Gordon street, Glasgow the secretary of the Clydesdale Horse Society of Geat Ritain and Ireland, he wishes to inform hrough the columns of the ADvocate, that they have issued a new form of certificate for horses exported from that country, which is of interes the breeders in Canada. The change dates from form, for have it drawn, and also has the vendor's certifi sate of sale for exportation, as well as the the pedigre ficme with gircen printed on the back all a form that is a model of conciseness and simplicity, showing at a glance whether all the rules have been com plied with.
Mr. McNeilage is well known by reputation among our Canadian Clydesdale breeders, as host painstaking and obliging secretary, an has done much through his energy and writing and well-known breed of draught horses. tadian coachef.s.
The first annual meeting of the Canada Coach Horse Breeders Society was held in London eb. 2nd, When - Wriden aris Ont Tise President John Gillson, Tondon; Treasurer, D. Fisher, Goderich ; Secretary, Jas Hitchell, Goderich. Dirtctors-George Char Sinith, New Hamburg; John Aikinhead, V. S Goderich, W. Wow Teeple, Kingsmill ; W. C. Brown, Meadowvale A. Marsh, Richmond Hill. Executive ComThe following standard for registrations wa adopted:- That such stallions as have two crosses of registered imported Cieveland ported Cleveland Bay or on it was also resolvei to accept as one cross horses of undoubted
pedigree that were imported urevious to $18-0$. peniquee that were imported previous a do allow a dam of one cross a recor number but no certificate, so that their breelin The olject of the society is a good one, as it will encourage farmers who have nuares of this earetul that atter this only imported registered stallions of the best gur lity be selected for thin purpose. This.class of Canacian toreston than any other have givell goor satisaction fing far exported to parply: and as they are in onpisi. fion by wealthy men the for

and hetter quality of Ayrshire cattle had been
exhibited at the various exhibitions than nounl. it was also stated there was recorded for the first volume of the new series, in class one, 772 bulls appendix 180 bulls and 313 corws, making in all a total of 2,720 . This showed ant increase of $\$ 50$ ince a ast yar, and tuere was a sufficient number rr a good sized volume. The number of menbers of the Association was 40, or an increase of
nine over. last year. There was $\$ 106.50$ on
. hand to pay for a volume of pedigrees when A question as to the length of time attl A question as to the length of time cattle
should be kept at exhibitions gave rise to a debate, and it was unanimously resolvel, "That the Association objects to the principle of
ing live stock on exhibition for two weeks," g live stock on exhibition for two week .
The annual meeting of the Draught Horse H. Wade, Secretary Treasurer, read the annual report, which was adopted. The report stated volume of the Canadian Draught Horse Stud Book had been published. It contains the pediree of 243 horses and 310 mares, a free copy as ociation. The membership last year was but 26 , and the report showed an increase of 24 , Since the volume was closed last June the pedirees of 34 horses and 4 mares have been record four crosses were requisite for mares and five for horses to ygrrant their being placed on the rolld Tregistration. The statement or he finances ssociation of $\$ 870$. The olection of officers resulted as follows :President, Mr. F. E. Coleman, Arthur ; Vice resident, Mr.J. Garshouse, Kessey ; Execu
tive Committee-Mcssr W. Kersey Colereine D. S. McFarlane, Claremont; W. Owens, M.P.P., Lachute ; Dugald McLean, York Milis; ipond, Brookin; J. A. Boag, Rav
The fourth annual report of the Executiv Committee was presented and adopted. On the subject of registrations the report states In 1889 WE were paid for 2,776 registrations,
2,595 certificates, and 378 changes of ownership. 2,595 certificates, and 378 changes of ownership certificates, and 11 changes of ownership, re urning the fees, leaving 2,729 registrations, ,552 certificates, and 367 transfers, against in $888,2,703 \mathrm{registrations,2,688}$ rertificates, an trations, 3,078 certificates, and 625 transters, howing a very slight variation in the three 857, aud 26 more in 1889 than in 1888 thus howing that Shorthorns during these years have not increased in numbers in this country.
On motion of Mr. James Russell Hill, seconded liy Mr. J. C. Snell, of Edmonton twas unanimonsly carried that:-" "This Shorthorn Preeders' Association protests against ex nding the time for having live stock at any
chilition in Outario heyond the period of one week." Mr. H. I. Hill, secretary of the Toronto Industrial Exhitition, in speaking on this hotion, sad hat it was not his intention to do nything without the opinion of the lireeders. Fampis Anocalk, he was sure that the nanagenent wond not ask that stock should be kept on exhmationthis. They would never make a new innovation without consulting the exhib.
a how or have visitor the Famper's Abvorate, replied that the recders and stocktuen as well as the agricul hral papers hatl been given to nnderstand that nined to holld the stork over for two weeks at the
$\qquad$
$\qquad$
$\qquad$ tatements were name? That a $u$ ?

Fancies and Fallacies versus Ex-
on Tuesday morning, so that the exhibitors
would not be harassed by being always on the alert to find out when the judging would begin. $\stackrel{\text { The }}{\text { present }}$
present year :-
John
Vin
Dry den, M. P. P. P., Brooklin, president. Vice-Yrexidents-Richard Gibson, Delaware, Ontario, Hon. D. Ferguson, M. P. P., Char-'
lotetown, P. E. I.; H. H. Ladner, Ladner's Landing, B. C.;.j. .j. Williams, Knowdon Quebec ; J. E. Firirweather, New 'Bruswick James Geddes, Calgary, N. W. T.; Prof. Geo.
Lawoon, Halifax, N. S. S.; G. L. Smellie, Bins. carth, Man.
Executive Committee-A. list-Edward Jeffs, Bondhead; Francis Green, sr. Innerkip; Jas Hunter, Alma; T. Russell, Exeter ; John
Hobson, Mosborough. B. List-David Rea Fergus; A. R. Gordon, Cooksville ; J. L. Cowan, Galt; James Tolton, Walkerton ; Wm. Linton Aurora. C. Lst-Arthur Johnston, Greenwod son, Ralsam ; Thos. Shaw, Guelph ; mons, Ivan.
At the afternoon session a paper was read by
prof. Shaw on "Adaptability of the Short Prof. Shaw on "Adaptablity of the Short.
horns." Mr. John Dryden read a paper prepared by Mr. Richard Gibson, of Delaware on "Fancies and Fallacies v. Experience - in
Cattle." Papers were handed in for publication Cattle." Papers were handed in for publication
by Mr. C. M. Simmons, of Ivan, and Mr. Wm. Linton, of Aurora.
It was moved by Mr. John Morgan, and unanimously resolved, that the thauks of the
Shorthorn breeders is due to 'the FAkMEr's Shorthorn breeders is due to the FARMER's posed two weeks exhibition of stock.
The Secretary, in reading his report, states that they had not recorded quite so many animals
as the year previous. There had been entered as the fourth volume of the stud book, 209 stallions, 107 of which were imported, and 280 mares, of which 42 were imported. and 13th, and it is fully expected it will eclipse anything of the kind yet held in this country. The trade of horses had been satisfactory
year. A great many Canadian-bred, as well as year. A great many Canadian-brea, as wefl as
imported colts and fillies, had passed across the line at good prices, according to the transfers ou their books. Seventy-six United States, and n horses and eight mares to the Northwest. No doubt a great many more had gone. This merr ly gave the transfers in the fourth vorume ing to the returns of Grear Britain, had beer larger than in any previous year, and larger than to the United States,
The election of officers resulted as follows:-
President-Wm. Smith, M. P., Columbus (re elected).
Vice-Presidents-Ontario-Geo Meore, Water
Uoo (re-ectecii) ; Quebec-Robt. Ness, Howich loo -re-electet) ; Quebec-Robt. Ness, Howtick
(re-elected) ; Nova Scotia J. McKay, Stellar ton, N. S.; Prince Edward Islaud - Hon. J
Clow, Charlottetown, P. E. I. ; New Brunswick Clow, Charlottetown, P. E. I. ; New Brunswick
-Hon. D. McLellan, St. John, N. B. ; Mani toha-J. . E. Smith, Brandon, Man. (re-elected),
British Colunlia-H. D. Benson, Laduer' British Columbia-H. D). Benson, Laduer's
Landing, B. C. (re-electeot). Landing, B. C. (re-electorl). Broughan; Roler
Directors - Robert Miller , B Graham, Claremont ; Robert leeith, Kowmanvilue
Arthur Johnston, (ireeuwood; (i. Davidson Cherrywood ; D. McCrae, (iuelph: A. Kussell Unionvile Dear Sir,-- Yours of the 16 th came duly
hand, for which please accept my thanks.
consider your valuatle paper worth sio per ye
 The fact stands out plainly that more woul
and mutton are absolutely necessary to suphly and mutton are atsolutely uecessary to copph
the demand, amld there is every ponpet in
prices for both will be remmeratic. to farm.
 country to be natural wool and muttur pond
ing sections. Many farums might prowitaly sh
perience in Cattile.

## Prepared by R. Gibson for the Domin

 We all he fancies as to color in cattle. To odmire a roan others a red. With Gereford breeders, red with white face is orthodox, and with Angus men, black and all black their creed. Color may be called a fancy : so it is. Experience says sou may follow your ancy so long as it is not prejudicial to the animal. That the Angus and the Devon breed true to color is certainly not an objection. That the Herefords are better, except for the sake of uniformity, by being so uniformly miarked we doubt, as in our boyhood days, in the early forties, we well remember the greys shown by Knight \& Heath and Lord HathertonThat the Shorthorn has suffered much from the red craze cannot be denied. Experienca says nothing has done the breed more for fill these latter days than this foolish desire for al red. Fortunately we have cscapod in a great measure in Canc. been carried to the extrene, as ane deteriorated Their hoir is harch and wiry having lost that mossy and baverike wedereost such as is indicative of feeding propensities. It is admitted on all sides that roans are superior .ack of uni formity in color? What a fallacy! Experience says it is better to be uniformly good, though of various colors, than uniformly bad and all of one color. If Shorthorn men must have but one color, why not choose roan? The Shorthori race being the only pure breed, so far as we know, that are of that color, whilst there are ts of red sorts.
The Jersey men tell us the craze or fancy for and colors, black tongue and black switen, brought the
In horns there is another fancy ; some say le us have a good strong horn, it is an indication o constitution. The Angus men retort y yu don want any, whilst the Hereford and the Ayrshic breeders like a certain shape. Experience says though the horn may meet the necessity for defence, still it is of great value to the breeder in making selections for stock purposes. A heares, coarse horn may not bo der whe

Many a good animal have we seen discarded at fairs, thrown out for having a heavy horn, verhaps placed behind a light tleshed one with delicate steer's horn, the other carrying many Such is surely a fallacy. The heal is worth lut a few cents on, the block, but on the living (mimal what an index to the value for hreeding helvedere on secing his head thrnt throngh an "unh "indow, and determinel twhy himat an


The export demand for live cattle is very good. .i. aro on this side, while in England they and a half cent per pound higher. Mr .
lickerdid, of Montreal, and Mer reventy
averare of prittle prices in anticipates a british markets this

## Meterinary.

## "His Water.

BY W. A. dunbar, v. s., winnipeg, Man. from which the horse is supposed to suffer, the from known among horsemen as "his water" is believed to be the most common. Any veterinary surgeon, although of limited practical experience, is capable of giving ample testimony as to the general belief among the knowing class organs of the horse are very liable to become deranged. The professional man can easily recall to mind the vast number of cases, for which he has been called upon to prescribe, where the owner of the patient, or some other person, equally as wise and as well qualified, has informed him, in a knowing and mysterious manner, that the animal was troubled with "his water." The writer, now at the close of fifteen years' practice, can aver that three out of every five cases of sickness and equine race, which he has treated, were previously diagnosed hy some knowing individual to be something wong true in connection with acute this is, especialy, tre diseases of the digestive reason why the the che lisble to become obstructed and otherwise deranged is, to a certain extent, in otherwise deranged is, It may, however, be partially accounted for from the symptoms exhibited by a horse suffering from intestinal indigestion or constipation, when a great mass of freces has accumulated in the pelvic flexure of the large colon. The bowel in this case being abnormally distended by solid contents, and in consequence a great deal of undue pressure is brought to bear on the bladder and surrounding structures, which causes frequent stretching and apparent attempts at staling. In such cases the inexperienced and unscientific observer may have some grounds for supposing that the trouble is of a urinary nature ; but in a large majority of the cases which are termed "his water," none of the above symptoms are present, nor any other symptom that would indicate the correctuess of such a diagnosis. The veterinary surgeon meets with this opinion regarding the troubles the horse has had with "his water" at almost every turn, and in many cases he has to manifest his acquiesctnce, or rua the risk, at some future time, of hearing the opinion express "the that knowledge is much inferior co the old man Knowall," the local quack. I some instances the belief that the urinary to bad results, for acting on this supposition to ball restuts; for acting on this supposition continually dosing the animals under their charce with diuretic medicines, or, in horsemen's language, "Givin' them som'at for their water," which, in quite a few cases, actually inflames or delilitates some of the principal organs connected with the urinary system, and thus, in their suk'ene ignorance, they bring about the very comition which they are endeavoring to avoid. Dis.ases of the urinary organs of the horse are not tiy any means unknown, but in my experience
any are not nearly of so frequent occurrence as they are generally supposed to be. Compared
about one to twenty-five, and in relation to
diseases of the respiratory system about one to twenty. The symptoms of the principal diseases of the urinary organs of the horse are, by the
practical observer, quite easily distinguished. I practic, therefore, humbly suggest to those who employ a veterinary surgeon that they in etwry instance, not only in supposed urinary trouble,
but in every other case, permit him to make a but in every other case, permit him to make a
diagnosis without interrupting him with a gratuitous opinion ; only answering, if you can intelligently, such questions as he may dem necessary to ask. I am quite sure that by the
observance of this suggestion, there will be laid on the veterinary profession a heavy debt of gratitude.

## The Wary

## The Milling Competition at London.

 I suppose some of your readers will be expect ing a few ines from my pen in answer to some of the statements of those who have written barks of about this subject. The phose Jersey airly wo the val about the lady ing comment. To call "sour grapes" does not make the fruit on one's own vines any sweeter. Let me address myself to the few arguments in his letter. Mr. Guy writes : "Evidently Prof. Robertson does not allow anything for the quantity of milk produced, only its quality, viz., its butter fat and solids. This ruling we object to as being an unfair and absurd way of judging.' The fact is the scale of valuation, which was published long before the test began, and which was known to Mr. Guy, gave full and-equitable value for everything in all the milk, except its water. Water in milk has no real or rateable value, so far as I know, whether it be put there by a cow or a man.It is open for discussion and suggestion whether some extra points should be allowed for the milk of heifers in future tests.
I do not find anything else in Mr. Guy's letter rorthy of remark, except, perhaps, his fina complaint, to the effect that, if the standard of jadging be not changed, the Ayrshires wir net randerd it candard is open for crico marlut valus in Was framed the milk yield of any cow. A fanci Dul seato of points does not usually indicate the the wilk or the profit-making dower of the nimal as a milker
I will edvert to one other matter in Mr. Guy's The tables of points, which he gives, are rroneously calculated from standards of valution which are not apulicable with fairness to our province. Let me show him where his own tatements and figures would lead to: Take the points, as stated by him, from the Ohio Farmer standard, at his own figures of 582.06 due to the Ayrshires, and 580.63 to the Jerseys ; then, if the points claimed by Mr. Guy for each bo divided by three, merely to oring the figures to something near a cash vatue in cents for the milk, the Ayrshires will stand with 160.68, a against 160.21 for the Jerseys. fuy will calculate the per cent. of prorton the value of feed consumed by the Ay.51.es. $31.48 \cdot 8$-when their mikin . he will find that it shows eight per cent., and he will calculate the por the bersey value 1 - 1 milk is valued at $8160 \cdot 2$, he will find that it shows thirty-three per cent.

I have taken his own figures (I know they are not correct) to show that it is his way of writing, and not the "way of judging," that is unfair and absurd."

- Messrs. Smith Bros. look after the claims of the Holsteins to reputation, as well as they manage their own excellent herd of that breed. But I venture to predict that the report of a few instances in our own province, where the Hol steins have held their own when tested for profit making talent with other breeds, would do more to strengthen their claims than a pamphlet ful of notes
States. States.
Your third correspondent seems to jump to many conclusions without wasting (?) time in the
examination of facts. That is not a wise practice for even a man who professes to be so "practical." I do not find in the report which I made upon the test, or elsewhere, that "" cows ' 'J' by total points allowed, were to ' $\mathbb{A}$ ' as 44 .-odd is to 11." Of course the deductions drawn by Mr. Rice from the statement are equally far from fact. The result recorded in my report gave the per cent. of proft on the cost of the feed consumed. To show that Mr. Rice's conclusions are wide of the mark, let us suppose that three lots of cows had boen under test, and that the third lot, " C , (probably from excitement, or unsuitable and xpensive feeding), had shown only one per cent.
of profit in the value of milk, above the cost of of profit in the value of milk, sove the cost of
the feed consumed, as against 13.87 per cent. the feed consurued, as against 1.87 per cent.,
and 47.04 per cent. in the cases of "A" and
" $J$ " "J" respectively, would there, then, be any
sense in saying that "cows 'C. would need to give 'thirteen times', the quantity of their mill to equal the quantity given by cows 'A'? That would be the kind of logic, and would be equally applicable and true with the assertion
Mr. Rice that "cows ' $A$ ' would need to giv Mr. Rice that cows A would need to give
four times the quantity of their milk to equal cows 'J Now, Mr. Editor, I need not assure your
eaders, who know me, or who have read my readers, who knnw me, or who have read my
writings, that I have no favorite among the breeds. I am humbly and earnestly trying to bring to the attention of the farmers of Canada, the proffi. making tatent of all the pure breeds in their
several spheres. And I will return agein to this everal spheres. And I wil return agein to this
discussion, and continue it as long as it will serve that end. The arguments of the special
advocates of each particular breed in its favor, will be read with care. The public are with me, will we are after the cow that makes a large prof and not a cow that can only conform to the fanci ful mills atandard of a fanciful expert
ab. W. Robertson.
Mr. J. G. Washington, of Boissevain, has in Lady Allen $=6493=$ and her calf the nucleus of herd of Shorthorns. He purposes buying a ew meritorious animals in the near
believing the best only to be good enough. The least demand for improved cattle is usually found in regions where there is most need of improvement; the best demand from regions
which are already found a goodly number of hich are already Improving the average meri airly good cattle. Amproving the average merit
ordinarily increases the desire and alility to secure cattle of the highest excellence
At Boissevain recently we were shown the
four year-old Clydesdale stallion Donald Dinnie. our year-old Clydesdal M r. J. W. Knittel, of tha
He is the property of heace, and is a compactly built horse with ex. cellent quarters, fine head and neck, aud most
excellent feet. He has fine guality of bour. but excellent feet. He has fine quality of bane, bil
not quite as much of it as an ardent fancicr not quite as much of as an arde. however, we
the bred would like. He hat,
 stock of great
the same sta the sam
Melena,
track
Melena,
track.
best at
will star
best at the mule or mine and a quarter. She will sta
season.


## Our Butter Interests.

The great reputation which our Canadian cheese has won in foreign markets must be a satisfaction to all interested in the wellfare of our country, while every lover of Canada must for the production of butter are so great, this important industry has been so sadly neglected. As we contemplate our capabilities and possibilities in this respect, it might be well tor us to consider what has made us so successful in the manufacturing ol cheese, and see how far we may apply with certainty the same causes to the successful manufacture of butter. In the first place that any manufacturing business may be carried on with the greatest success, it is most essential that a good market exist in which the goods produced may be disposed of at proftared prices. In this respect outter, as compared ing Next we may look at the co.operative ing. Next we may look at the co-operative pushing our cheese to the front From the butter standpoint this must, if possible, have a still greater importance. To secure a good mar ket at home and abroad, we must have uniform ity of product and first class quality, suited to the tastes of those to whom we hope to sell. By co-operative dairying we can most certainly se cure these ends with greater ease and at less ex pense than in any other way. Intelligence energy and perseverance are most importan factors, and here may be mentioned the unceas ing efforts and determination to succeed of a first à few, whose numbers gradually increased, until to day we have good men and true scattered far and wide who aro cetermined that Canadian cheese shall keep the first place Men who do not feel above rang seeded help fre when necessary to we at others whe are willing to take tho butter interests of our country to hand and to heart, of whom in a few years Canada shall have just as great reasons to be proud, as of thoso who have fostered our cheese iuterests and brought them to so success ful an issue. Sume have considered the butte and cheese interests of this country as antagouistic, but this is most certainly not the case, but quite the reverse, and the more thought we give to this matter the more we behold not ouly the harmony which exists, but the many links that bind the two industries together. To secure the place in butter manufacture and exportation which is possible, there are many matters to be taken into consideratiou. First, we need to possess ourselves by careful breeding of
first class butter cows. Next in order and first class butter cows. Next in order and
no less in importance comes an intelligent and no less in importance comes an intelligent and
economical system of feeding and watering, for economical system of feeding and watering, for
which purpose stables should be arranged conwhich purpose stabless caretaker arid confortally veniently for the caretaker and confortaty
for the animal, having spercial ryand to
cleanlizess in every department. As the cleanliness in everv department. As the
best cesults are attainatle during the winter months, we should aim to have our cows calve
in the fall, then we call supply during the scason in the fall, then we can supply during the sasan
when we can devote most tmin to the care of onr cows, the milk or creann, as the case may be for
butter manutacture. I see no reason why facbutter manntacture. I sce no reason why fac.
tories conld not be fitted up, for the making of
dhene from June to November inclusive, and tories cond nome form June to November inclusive, and
forese butter making the balance of they yarr, and for butter making the balanec of thu year, and
no reason why che ese makers should yot learn the art of butter-making, and thus have profit.
able employment the whole year. These are able employment the whole year. These are
matters requiring the careful thonght of thuse
interested.

- Bntter-Making In my last paper I finished the churning of the butter. Now the best way of getting it out of the churn. A good deal depends on what kind of a che is to draw off the but. pellaps the readiest way is to draw orf clath so that no butter escapes in the milk, and when the milk is mostly drawn off put in the churn a little cold brine not very salt, give the churn a few turns, draw off the water and repeat this operation two or three times until the water comes off clear, then take out the butter into the butter-worker, whatever that may be. A large wooden plate is often used, but a good smooth hardwood board will serve the purpose.
If the one used be a common plunge churn, pass the staff head quickly down through the mass a few times, taking as little butter down with it as possible, that will raise the most of the butter to the top of the milk; have a small strainer or creamer and take all the butter out you can get and put it into the butter-worker or plate, as the case may be, wher staff, and dasti as your a little, and that wir gather cogether any a lding a little clean water if the milk is thick, it will gather and separate better.
Too much working spoils the
butter and makes it greasy ; too little does no take out all the butter-milk, and it won't keep so that a little judgment and skill is required here to do it just right
Whether the butter be in a plate or on a board don't spread it, bruise it, or squeeze it. If in a wooden plate press it with the wooden ladle, and turn it over and cut it up into long, narrow strips, and press the milk out of it, gently pressing each strip by itself. If it is on board, tako a common bread roller and roll the the butter out thin, turn, and fold it a few times but don't squeeze or spread it, roll it out When all the mik has been pressed out of Wash it with clean water with a litto sate irrit Experience will sooul tol a carefur ouserver whe the butter is purged of al the wilk and read for salting.
 more salt If the butter is for your own family use malt to rea your own teste, but if for the warket don't use more for present use than one half ounce
The best way to salt. - Cut the butter into thin slices and spread it over the plate and them together doubbe third of the salt, pur turn it edgeways and do the same, and press down flat and repeat the saue, adding a little more salt till finished. When finished, fi.l the plate with water, or put the butter into some other vessel where it can be covered with water hour the the it staind
If a board and roller is used, the same process Can lew carried ont on the board ly rolling the lonter out thin and anding a little salt cevery
time it is rolled, and put it aside for a time as before directed, but don't leave it nucovered. Preparing tor market. -Sce that the scales ar
 is all weighed set to work and furt it u! as
desired, either in prints or into rolls. If rolls are neatly done up and tidily finished they sell as well as any way. Now put the butter into pans or a nice clean tub and foat in as when it
keep it cool and it will keep as nice as when keep if cool the churn till you are ready to take came from the churn you get there with a fine article seek for the best clastomers and give them a taste of your nice, clean, gilt-edged butter;
two, or perhaps four, cents a pound more will be two, or perapss four, cents a pound more will be
your reward. Don't trade it off for groceries you can get cash for


## The Dairy Cow Competition Again.

 Kindly allow us space in your valuable paper to answer Stockman's last letter. He began in his fisst to find fault with Holstein breeders for not competing in the Advocate test. Sinalt with ha woy next expect him to with the breed. We atis ind fault with the loose On account of their great milking powers mos of them remain thin while giving a large flow or milk. During this time they have not tha plump. rounded appearauce of the beef breeds hence Stockman thinks them loose and open This simply goes to show their strong dairy qualities.Ohjection No. 2. -"Public records never come within hailing distance of private," etc., etc. At twelve of the leading fairs in the United States in 1889 Holsteins took first prizes every time (open to all breeds), and every time the prize-taking Holstein made two pounds of butter or more per day on the show ground, and a high as 3.12 lbs. per day. Surely when all the ircumstances and drawbacks in show groun ests are considered, everyone cannot help ad mitting that these tests are within easy "hailing nstance of private records
Objection No. 3. - "Big records often a bequest, etc., etc.- We will show that this is rot the case by citing examples. Wadlk in one years ohe gtill lives ay, 20, ب12 los. a to shildo 2nd (9 years old) gave five years ago 23,602 bs. of milk. in a year, and 17 lbs .12 ozs . of butter in seven days. She still lives, and quite davs. Piertierje 2nd gave, beginning February, 1887, $30,318 \mathrm{lbs}$. of milk in one year. She is now nearly 13 years old and she also lives. We may add that Lady Baker, with butter record of 34 lbs. 6 ozs. in a week; De Kol 2nd, 33 lbs. ; ozs.; Gerhen 4th, 32 lus.; Natchez, 31 lbs. 9 ozs., still live, and scores of others might be given. His reference to milk fever may here be reterred to. This breed have not this disease any more than other breeds, but as a rule milk fever is brought on by injudicious feeding. Let as illustrate. Before leaving for the exhibitions we bought several grades to keep up milk supply for our customers, and among them we got a shorthorn grade. The day after buying her she he owner and he said that he had fed her whole harley. This was done to put her in fine form Fir selling Now, we do not propose to cast the licioms feedina sho sot. With a reasonable amount of care Holsteius are not apt to be trouhtled with this or any other disease. trollable, "etc. We have heard leading breeders
speak about this, and our own experience bears
out their testimony. Our best milkers have out their testimony. Our best milkers have never beet uncontro 13021 lbs of milk in a year ; Onetta gave 10,607 lbs. in ten months, and Cornelia Tensen is now giving between six and a-half and seven gallons a day, and two two-year-old heifers
each gave over 1,164 lbs. of milk in January each gave over 1890 The only trouble we have ever had with them was, that we had to feed, water and milk them regularly, and the she "The world canno stock. He syy further on, "The world cannot
expect scientific breeding, etc., etc.," but we say expert sciencid has had practical breeding of the most successful kind from these same people. Let us
tell Stockman that in 1584 (the latest reports we can get) Holland sent to England $35,377,392$ lbs of cheese, and received tor it $\$ 4,342,002$, and 124,994, 128 lbs. of butter, and received for it
$\$ 24,285,575$. Thus, for butter and cheese, she received over twenty-eight and a-half million
24, received over twenty-eight and a-halis mind one-quarter the size of Ontario; yet, she leads
the world in dairy products. Does Stockman the world in dairy products. Does Stockman
really believe this breed unprofitable? They cando for our country what they have done for their own, and since their introduction has in, creased rapidly, and are adding to our country'
prosperity and wealth.
SMITH Bros.

Western Dairymen's Association Meeting at Stratford.
The President, Mr. R. Cleland, of Listowel, called the meeting to order at two o'clock, whe unitess was commenced. In his opening mars and ing free toevery one. The sum of onedollar would still be charged as member's fees, and member would have the privilemof ofting and receiving the annual renort of their proceedings. The inspection of milk has been continued at con siderable expense, but with increased good results. The inspectors and their instruments liave give good satisfaction, and the instruments in use are perfectly reliable for all practicable purposes in testing milk at the factories.
Mr. John Robertson addressed the meeting on Cheesemaker's Duties. He said: "First, get all the information you can so that you can teach should be like a little dairy school ; second
shers the daty ripen your milk to a uniform condition every day before putting in the rennet ; third, have the curd ripened and mellowed to the same coudition every day before it is ground and salted ; fourth keep the temperature of the curing room stead and the result will be a uniform product which sells more readily at better prices and establishes a better name both for the maker and the factory."
Gov. Hoard addressed the meeting on "The System we have of Pooling Milk at the Factor ies. That is, every farmer is paid the same price for his mik whether it is good or bad Many farmers will not now submit to pool mill stupidity. The cupity. The cheese industry is not yet secur be formed whereby every farmer will be paid according to the value of what he delivers at the factory
Prof. 1. W. Robertson discussed the work the Association for the past year. Never befor cheese interests. Inspection was more satisfac tory th those who could best judge of the work Other ...ntries are following our example, scaan -atario received $\$ 475,000$ more for it
cheese than it would had this product been sold "Adulteration of Mils. ar Mo Marlane ment Aaysa He Inand Revenue Depart the Adulteration of Foods Act. That act had nothing to do with milk supplied to cheese fectories, but he was quite willing to assist the Association in their work and also to assist their inspectors in their work by analyses. The pre sent system is not fair, it rather gives a pre. mium on carelessness and adulteration. He believed the day would come when honest and progressive dairymen will not submit to the present arrangement. A better system would re sult in some farmers getting fifteen cents more per 100 lbs . and others getting fifteen cents less, but each would be paid according to value received and not as at present. The President and others, in discussing this question, agreed that the instruments in use were the best known so far, and for all practical purposes were satis factory.
Gov. Hoard, on the "Cost of Production, said the farmer was a stupid animal, so are great many cheese and buttermakers, legislators, governors, \&c., doing work and business with hard work, hard hands and soft heads. He gave importate of for 1 milk, he sail wers twe ty cents per 100 lbs. to feed to hogs, but it must be judiciously fed to good hogs. Large weights
were not so profitable as smaller weights, either in hogs or cattle. Breed is the true foundation; reed 18 the super-structure built upon the
foundation, that (and that principle alone) will soundation, that (and that principle alones) wil starves his fas. farm, starves
will at last starve himself.
Prof. Roberts, of Cornell University, addressed Dairy Husbandry." Primarily they are in the soil, and the first principte of successful farming
is to enrich the soil. It one ton of timothy hay is to enrich the soil. It one ton of timothy hay
is worth $\$ 8$ per ton, the average of New York State per acre, then our "Sibley's Pride of the North"" corn, I aised on our farm this season, is worth $\$ 40$ per acre for feeding purposes; then
our six best cows average 8,000 lbs. of milk and the general average of our herd 7,000 lbs. per head - -more than double the quantity of ordin ary farm dairies.
advocates of silos and corn-growing which thes advocates of silos and corn-growing, which they America within a few years.
At the closing session
At the closing session onf friday morning, we Get a Retter Cow." One idea had to be given up and that was simply the quantity of milk a cow woun after not the water. He was totally opposed to legislation on adulteration with a view to prosecution. We ought to pay or milk according to its value as we do for
rheat or barley, or any other commodity we buy. Am 1 going to pool my four per cent milk with my neighbor's three per cent. milk I am not such a fool, and you had better look
out this will be upon you directly, too. Feer your cows good, sweet, clean food that she like and she will eat more of it. You don't want
nour bread cut a week or two before you eat tit your bread cut a week or two betore you eat it
neither does the cow want old, musty, dry food, neither does the cow want ond
She don't like it. And she likes plenty of good, clean, fresh water, too, and not too cold either.
In reply to Mr. John Robertson, Prof. Roberts In reply to Mr. John Robertson, Prof. Robert
said milk should be tested every two weeks, or sight or ten times during the season, and strike an average, and each patron be paid accordingly, address to cheesemakers, based upon some ex periments made last sea:on.

## Dairying.

by mb. John hettle, m.f.f., borssevain, man. About thirty years ago Mr Whitmore, father of Mr. Whitmore, of Whitmore \& Birrell, Little Falls, New York manufacturers of dairy atensils, started the first cheese factory in the tates. It occarred in this way:--Mr. Whit more made better cheese, and, therefore, got a higher price than his neighbors-for it was the ame the 1 One of hie nether higher the pr. Whitmore's place and got him to mikk to Mr. Whicese po that he could get the high price too, then another and another took their milk to him until he had to enlarge his premises to accommodate them, and started the first cheese factory ever established in America A short time afterwards a Mr. Farnmanham moved from New York State to the County of oxford, Ontario, and started the first cheese factory in Canada. At that time Canada was importing over $\$ 50,000$ worth of cheese a year, and now, since the cheese factory system has been established, we are exporting over $\$ 8,915$, 680 worth yearly. It is claimed that the factory system in ten years raised the price of land in the County of Oxford, where it was first started rom $\$ 10$ to $\$ 20$ per acre. In 18751 started the frst creamery in Western Canada. After driving p one concession and down another for weeks, got the promise of over 200 cows, but by the fime the factory got started that number
dwindled down to 60. The next year we hei ver 200 cows . The next 450 , and the nex season over 1,000 . The creamery is still run ning, and is ons of the largest and best in Canada to-day. The farmers supported
hearlly after the first year, and claimed it in hearsly after the of the best enterprises they ever went into. I may say there are over a dozen creameries
and tarted within a radius of firteen miles of the one started in 1875 . The farmer then took more
sterest in his cows, he began to see in them interest in his cows, hat was never calculated on before. Many a time I have asked the question
when I was canvassing for milk, How much did when I was canvassing for milk, How much did
ou make off your cows last year ? and the you make off your cows last year? and the
answer was always the same, "Oh, I don't know, never bother with the cows, the wiff attends or all that." But when he had from pay at the end of the year, there was quite a ditference to him. The factory system has pread all over Ontario, and the section o
county that has gone into the support of it the trongest is the wealthiest to day. The pioneer of Ontario raised wheat as well as we are doing, ud raised large crops too. It was no unconumon hing to have forty lashe lat pord they could not raise spring wheat at all ; then they started unmer fallowing and rawing fall wheat, which fow years that has almost failed them too. see by the crop reports for Outario that the aver age is sixteen bushels per acre of very poo yaliry to raise. Therefore, almost all they have to depend on is their dairying and stock raising. and we, the proneers of this new and magnificent rovince of Manitot, our land out before wi start dairying. Now, sir, alter yeals of frost am rought, I think it is time for the Manitula farmer to turn his attention to Marrymb, Mand given the question full investigation, claim that ay the farmer as well as wheal at and dullar per mahel. Now, sir, if milk in Qutari, at 70 ct. convention.
and surface soil is, that owing to the losenenss of the latter, capillary action ceasses to a very
extent where the two meet; therefore, the extent where would otherwise come from below
moisture that would moisture that woun rincipal roots of the plants. As the soil gets very little moisture from above, very little from the subsoil, and that the piants leaves, as well as that lost by evaporation, it is leaves, as wond tored at that the surface soil gets
not to be woll pretty dry.
If the ploughing is done at the right time (just before the weeds seed out), the secon crop of weeds will not hed there are no before the frost kills them, and there are ne perennial weeds in there is much ploughing to country; but wher tone early in the springbe done, it nas harrow or cultivator can be used in that case to destroy those that would otherlate enough to destroy wisin the last harrowing, wise seed out. Bhite turnips, or rape, or some of sow broadcast wint with the roller. In some cases the roller may be sufficient to cover the seed, but it is generally best to give a light harrowing. About the end of the third week in September turn on the cattle, and won't they enjog it Provided the field is not too small, or the cattle too many, they will put in most of their time on this green feed till the snow comes, tramping over it and packing the soil down in splendid style. Saying nothing about the advantageof this succulent food for the cattle, when they can get nothing of the kind on the prairie, this packing of the soil is of the utmost importance to the future erop. Again, in the bare fallow, a quantity of nitrogen passes on in the air, this, to a certain extent, thus saved.
turnips and rape and
In the spring harrow and drill in the seed. In the spring harrow and ing the drill the seed is laid on the compact earth with the loose earth that has been stirred by the harrow as a covering. This com. ract earth is mois, aroken at the depth that has been stirred by the harrow instead of at the depth that the plow turned. Il the sed is sown and a good deal of it that is ner the surface will not grow ; but, if drilled in, it will be in the best possible position for gernuination I know of localities where, this last seazon, here were
crops at all except those that were drilled. Stubble land that is ploughed in the fall slould be harrowed so as to help it to pack, and treated in the same way as the sumluer falow in
thic suriug. Stubble which is ploughed in the spring should he just skimumed, the lighter the letter. This gives a mulch for the surface, earth to cover the seed, and leaves the soil
below compuat and moist. |'erhaps the uise of the disk or suring tooth harrow is ceyrually ass

## s strilled in.


$\square$
actice to mextent, and is much seser in ry season than to backset in the spring. The ryakesen than is almost sure to dry out, while the breaking after the winter's snow lies close to the
bil belo w, and retains the moisture very fairly Soil below, and retains the moiture very Thave sen that might be said to be well cultivat ed produced almost nothing;
ag is not to be recommended The fine of the roller as the finghing touch The use of the roller as the finising tonch
except in certain cases, is not advisabbe, as is it only compacts the light soil on the surface which hould be as looso as possible to act as a mulch,
hot farther down. It also aking little or no effect farther cownil which, reduces the surface to strong winds, are carried
seeding is followed by strong away. land, cultivated in this way, will, I believe produce good crops in dry seasons when there
are many failures, and will also give the best returns when there is plenty of rain, Remember also that as a rule o the land tart producose
greatest quantity also produces the best qualit greatest quantity also producase tue best qualy
so that the reputation of the country may be maintained for its great specialt
Farmers should remember that the prosent system of farming, which amounts to take alt
you can get and give nothing back, cannot last You can get ana give the manure that is made
for ever, so that all
The should be carefully saved and usea. The tor
summer fallow which is spoken of as ast for summer thand, and by some supposed to restore fertility simply mountan to taking off one good crop
instead of two poor ones. The time will come instead of two poor ones. The time will come
when the question will be: How are we to when the question will be: How
Testore fertility to our failing fields?

## Testing Cows.

Testing cows has been a feature of many of the best Canadian fairs for some years past. The object has been to demonstrate which is the nost profitable dairy w, but owing to the nethods adopted have in very for in fantees hrown much lightou the one been decidedy he contrary, the restere he weully been nisleading. As thess too milk and butter pro. condurtec, the a the cost of producing need has heen Better has not ween taken of hutter at a profit of ten or protuen two pounds at a loss, 'Therfore, the wiunt sholla he how cheaply can the cow produce point stro hor much can she produce ; or, in other words, the test should be which will make he most butter from a given amount of food. The farmer who keeps his cows in the stables and feeds all alike can reach a fairly satisfactory conclusion by weighing the milk and testing it with a lactoscope, or even a plioscope, costing burate Senty-ive cents, will lead to a fairly of the concusion as to the comparative ver season it is
 the cow that produces fifty per cent. more mill may do so at seventy- five per cent. greater cos ot While ru sones se thime monut tor much in this country as yet, the wisdom to lreel with that end in view. Profesor Robertson cetimates one-hal or tue cows helping
aro to le paving for their own keep and arlo to be paying or their own keep and neping
to tay the board of the other half. If this be corvert, and many practical dairymen ollaim that it it quite within the mark, surely we
thoull l larin a l losson from it. It does not cost Shoull larna a lesson from it. It coes yo cow
 iay hler hoard, so that the actual difference in 2 suall herd of ocws might pay the interest on the suor yave. It is to be hoped that testst of cow
niav prove in the near future a protitable and
 Sthlin is to be the case, however, they nust be


Nuitter regardless of what it costs to

Dr. Barmardo's Hitome-One Solution of the Farm Labor Question. Mr. Alfred B. Owen, agent for Dr. Barnardo Home, Toronto, writes usfin regard to the wor of the Institution during the past year "Between the months of April and August, 1889, we placed our 300 boys who came from England in three parties, numbering 60,100 and 50 . 6 were brough they will Manitoba, where they will roceive a year s ractical traing bent out have in all cases armers. The bo period of careful training in med Homes, where, at the present time 250 boys and girls are receiving maintenance nd education, and being taught and trained or position's of usefulness in life. The boys who have passed through our hands during the ast year have, as usual, been solected with great care from this large number, and our aim has been, as always, to send none but those who are at least physically healthy, mentally intelligent, and morally pure. As long as we
do this, although there have been, and always do this, although there have been, and always
will be, failures and disappointments, the charge cannot be laid against the work of the Institution that in giving these orphan lads a start in life, they are imposing a burden upon the the population of the Dominion. The demand for our boys during the past season has far exceeded anything in our previous experience in
the work. Long before our first party left England in March, we had more applications ior them than we could supply, and every day during the spring and summer letters poured in apon us from armers all over the country, It is needless to say we have been obliged to disappoint a very great number, while others we
had to keep waiting many weeks for oursecond and had to keep waiting many weeks for our second and On the other hand, most of those to whom boys were sent have been highly satisfied. Out of
the entire number placed durng the year, we the entire number placed durng the year, we
can only find the names of three whom we are compelled to regard as failures. We do no mean to say that all the rest are faultless, but
they are earning their living honestly and they are earning their living honestly and
respectahly, and they have been guilty of no moral offence beyond the ordinary failings and shorteomings of boybood. Weclaim for our boys that this is a record of which, as a class of embryo citizens, they have good reason to be
proud, especially when it is remembered that proud, especialy when it is remembered that
the influences they are under are not always the best, and even among employers there are sometimes faults of over-exertion or over indulgence
that tend to foster what is not good in a boy's character. "Our visitors and travelling agents have been actively at work during the year in all parts o seeing them and their employers, and ascertainin that they are contented, that they are being well treated, and that the conditions upon which
they are placed are being carried out. Our aim they are placed are being carried out. Our aim
is to visit each boy at least once a year for the is two each boy at east once a year for the out-longer if necessary. In all, 997 visits have
been made by our agents during the past year, been made by our agents during the past year,
and from the full and careful reports made of these visits we find that twenty eight boys only
out of the entire number, less than three per out of the entire number, less than three per
cent., are doing badly. We have altogether
the names of 1 ane lads. the names of 1,906 lads on our books, brought
out and placed through the Province of Ontarid since the year 1882 ; of this number we are in direct communication with about 1,350 , or about

1 per cent., the remainder being chiefly those 71 per cent., the remainder being chiefly those
who, having come to man's estate, have changed their settlements two or three times, and we have thus been unable to follow their movements, and whom we therefore only hear of by chance
and at considerable intervals. The task of
kerrite keering in touch a and correspondence with a
tamily even of 1,350 is not a light one, as
videnced by the fact that our mail matter tions/received at this office and 13,685 sent out Our desire is to let every boy regard the agent of the Home as his friend, and we encourag stances for advice and help.
"We are glad and thankful to say we hav had scarcely any instances of cruelty or ill
treatment of boys during the past year. W neatment of boys a boy to any man who is not certified by a minister or magistrate to be in every respect a fit and proper person to have a boy
intrusted to his care, and this precaution with close and regular inspection, is an almost unfailing safe guard against a boy being subjected to serious ill-usage. In placing boys our rule is to allow's mouth's trial at the first commence request that we may hear from the boy during the month, and if all is satisfactory, we cor respond with the employer to settle finally the
terms upon which the lad remains with him The conditions, which are embodied in a simple form of agreement, provide for the boys receiv ing board, lodging, clothing, schooling for the
younger boys, and for their attendance at church and Sunday school. Wages in the case of older boys are fixed for a year. Smaller boys are engaged until they are seventeen or eighteen, an receive wages in the form on a lump sum agreement gives either party the right to termin ate the engagement by giving a month's notice but in addition to this we reserve for ourselve notice any boy whom we have reason to believ is not being properly treated. Our experience
show that these conditions are workable and show that these conditions
generally fair and satisfactory.
"During the coming season we hope to place out at least as many boys as last year. They will have passed through the usual preliminary glad to receive applications as early as possible glad to recelve applications as cary as possio
and will furrish the necessary particulars to
anyone desiring them."

Fence Post Anchor.
The accompanying cut is a device termed by the patentee, Mr. J. D. Smith, Mount Elgin,

that are built on the top of the ground. The wooden stakes usually used have not held secure ly during the high winds of this winter. The the (or side for a whe is driven into the (I) 1 or iron bar (4) so as to keep the sides expanded (1) and 2) and in such a way that they take immedi. great force. The free end of the wire is fastened Cou The foce and of the wre sumann

## the bottom of F

 Vithout some such device as the above fences oned, as wooden stakes are easily lonsene duing wet weather and high winds, as can b ences have been built, hundreds of rods have been blown down and with the wooden stake ittached. The anchor is out of the way of frost is cheap, costing a fraction of a cent each, anmuch more easily driven than a wooden stake.

## Seed Catalogues of 1890.

As a rule the standard seedsmen of each the he counrements of farmers in their own part o follo actio the future. this anfice wong the seed catalogues Co of London, Ont, which, on the inside cover, gives first a useful table that at once shows th quantity of each variety of seed per acre and per hundred feet for field and garden culture, and also the distance to plant different variegies of plants and quantity required per given space a s a is a great doal anorma for gleaned from the folloging which will bo found worth or pace on any well appointed farm:-Carter' Orange Giant Carrot, Pearce's Canadian Giant and Carter's Warden Prize Yellow Globe Man fels. Colorado spring wheat seems to have done the best in this locality. Oats have a new variety in the Golden Giant Side Oat and Rose ale Oat, which are well recommended. The Egyptian Mummy Pea is certainly a distinct and valuable new variety
$W \mathrm{~m}$. Rennie, of Toronto, issues the Illustrate uide for Amateur Gardeners. As usual he e valuable new specimens, such his selected Long Red Mangel of prodigiou ne, Mo Mamath Yellow Intermediate, Ren nie's Prize white oats and American Banner oat, Colorado spring wheat, also imported Chevalier which there is great hopes of Canadian farmer being able to export to Great Britain.
The old established house of J. A. Simmers f Toronto, issues a neat descriptivé catalogu which the standard sorts of field roots, the Canadian Banner oa s , and Ladoga spring wheat, are favorably mentioned.
Unfortnnately we are not in receipt of the atalogues of the . Bruce and Robert Bros Hamilton, but hope to review these in our nex issue, along with the new varieties of potatoes orn, turnips, co., a ants that may be new to eaders
The seedsmen of New York lead out with some eeautime desig,s Jeses Vick Rochester, N. Y ully describes many of the new and old varietie he has been noted for. Peter Henderson, New York, and John Lewis Childs, Queen's Co., ${ }^{2}$
Y., have most elaborate catalogues in the line Y., have most elaborate catalogues in the line
Iower and garden seels. Lovett's Guide Horticulture, of Little Silver Spring, N.J., very descriptive in the 'she of rults as
with everything in the vegetahle line. Jopher Stokes, 217 Market street, Philadelphin, Pa sends a manual of garden and
novelties in these lines.

## Techanirsville, IJucks Co. lines.

of our readers do

## Exhibitions.

W. A. hale, sherbrooke, ol

In preparing for the exhibition it seems best o allot to each director some one branch for which he seems most suited and for which he is to be responsible during the entire period of he exhibition. of cases, can best be dispensed witended on them and money which would be expen profitable use. In judging, in all departments, decided prefer In judging, in all ghould be given to the system of employing angle expert judges instead of the usual custom of appointing three local men, one of whom usually does the judging while he throws the responsibility of his decisions upon the othe two. Judging by points, especially in the dairy, poultry and live stock departments, should whenever possible, be established; thus, by showing young hreeders wherein lie their weak as well as strong points, is acconptotg more than by simply awaruing prices and should or three best competing and have a wholesome, tendeney in checking the injurious practice or grossly over fattencin bree ing animals for tho pres, to detriment of defects, greatly, how and general usefulness of the animals thenselves. Every publicity should the animals be given on the entry tickets atiached to all also bibits as to the namfe catud residence of the exhbitor. This, from an educational point of view, is of great importance, and it not only shows the public the confidence the directors have in their judges, but also prevents any biased judge from shielding himself in the professed ignorance of whose exhibits are being submitted to his inspection
In the matter of providing amnsements it seems that, as in the case of all circulating libraries, by far the largest 1 roportion of works read are fiction, so tor a like reason does' it seem necessary that "attractions, as they are canch, must be provided each tay wherc mainly upon the of the association is dependent mainly upon the gate receipts. What remains artions are of an inoffensive nature, and to entirely prohihit all gambling, betting or games of chance, amt upon mo excuse of how mild a nature, to he sold or even brought upon the ground. So long as herme racing, or "speedting ind it should the governe" by the strictest rulcs, and any attempt a "joakeying" be severely dealt with, and among
these and other attractions a goomlly share of thin
 sports, "tugs-of war," trials if strength netw wn
teams of working oxen and "raught harses, anl ceams is of more importance, and nerhap maly
whall
attractive with the ". $2: 40$ clans," is a
all walking race between working trants onsomst are ildentical, so should profect
willingness to help one and othe

## them all. Politics shomld ne ver h.unt allmwn!

enter int
their sist
their visiturs should ever inm the fir ats; s. We
and impartial judsing shomk
rule, and although directurs it
heavily upol
exprerience $t$
heaviy ne that
experience
sucess, and thi
success, and that an homest and impurting tion is by lar the hest and most pmotitalic a to.
tisement that conld be devised.
(b)arden and (G)rchard

## aspberry and Blackberry Culture

 for ProfitThe witer has often wondered that more armers do not set a part a plot for this branch of ruit growing. Indeed, aside from the question of direct money profit, it would benefit every armer to grow these delicious fruits for his own ase ; but let no one attempt to grow for prof who is not either near a good local marketwa close within reasonable distance frout at moderate rates to the largo markets. It is also important that pickers be obtainable without difficuty in sufficient numbers and at moderate ingures-on cent a quart, where the crop is good, is what wer usually pay. Where these conditions are favir. able, and with proper attention anl curna there is certainly as mucta prof, ther with the labor expended, as in any other branc of fruit growing.
Almost any soil will do for these fruits, pro vided it ve rich auld be made so, and if not naturally well-drained it must be thoroughty underdrained hefore planting, for no success will be obtained if the land is poor, cold or wet.
Beginners should procure their plants from some responsible nursery-if possible in their own neighborhood-where they can be procured at reasonable rates, which, of course, vary slightly in different localities ; afterwards the grower can raise his own plants by setting apart a small piece of land for that purpose. The red raspberries and the blackuerries propagate from the roots, but the black raspberrics from the tips, which must be laid down and covered with a little earth to ensure their taking root from the last of August to the midate of Septem ber is the proper time to do this.
Either fall or spring wir to plant in, but is the writer sopimion that int enis chmate sprin is preferatle. succt thricy one year hame
 is feet apart, and from eighteen inches to two feet apart in the rows
A gool way is to plow out furrows at the ithe fances apart you wish to, and set the plants Muming the carth well round the roots, the set the phants deep, they should never be set an) deeper than they grew in the mursery. (iivi when good cultivation during the summer, ann an to the plants, funishing off with a deal furron in the centre of each row, this should be plowed fonwings be on the shallow silde, then give goon oultivation the following summer dill fruiting sain. It will the found alvantageons to


moved, and in the spring the principal as well moved, and in the spring the well cut back to at
as the lateral canes should be least one-third of thcir original length. It is also a good plan to go through them in August or September and cut back the young bearing wood for the following year, not allowing these canes to grow more than from three to three and a-hall feet in height, this plan will render much spring pruning unnecessary. Some recommend training to stakes or to a cheap trellis, but in the writer's opinion this is needless if they are kept well cut back. If too many suckers grow in the rows they should be removed, and
at all should be allowed between the rows. By giving protection in winter a full crop can be obtained in many localities where otherwise little or ho fruit could be had. The method is simple and consists of bending the canes down engthwise of the row and covering them wown earth ; it requires two men, the canes and the other place, then the plow hem to keep them ill place, the row turning should be run on. This chould be done pretis the soil upon the following spring, after ate in tho severe frost is past, they should be anger hassing a fork under them, then released lifting and shaking off the soil.
If the soil is kept well manured a raspberry or Hackberry plantation will last a long time and still bear profitable crops, indeed, under such circumstances, they have been known to last for twenty years in the older Provinces and in Europe, but the average duration under good culture is from about nine to thirtean years. As soon as the patch ceases to bear remunerative Compost, soapsuds, slops of all kinds, barnyard manure, on wood ashes (unleached) should be applied as a topdressing between the rows from time to time, especially to raspber ries, which are gross feeders. Some cease cultivation the second year and simply keep the ground well mulched with long manure, a plan whic able answer fairly well any
saving in point of labor
saving in point of labor. Raspberries and blackberries are much Raspberries and blackberries ation troubled with leaf blight or rust, usually in old plantawith leaf bight or rest, tions where the arowing feeble. Applications of the plants are of iron will be found benesicial. the affected parts should be cut off and burned. Nor are they much troubled with insects, thoush the Blackberry Bush Bore some times attacks the pith of the young canes, but is not very common. Infected canes should be pruned off ii the fall and burned. The beetle, he parent of this grat, is abst and top of the thorax. It lays its eggs on the stems early in

There are a great number of varieties of these lierries, amil new ones are constantly being Clruwn wit the market, some of which are good Anil more worthess. Beginners should select Cinimits that have been tested and found to do ach wh their nelghborhood, as different varieties and andent locaties and sois, so that it is (.). Nive a hist that will succeed every Wor the purposes of this paper it will , C. . . What wive

- RED RASPBERRIES,

Highland Hardy-Early, hardy, productive large, a great favorite where sufficiently hardy, 3. Marlboro'-Medium, large and fine, hal hardy.
. Turner-Early, hardy, productive
black raspberries.

1. Souhegan or Tyler-Early, hardy, small but profitable.
2. Gregg
3. Gregg-Late, rather tender, large and pro-
ductive ductive
4. Ohio
to be small to be small.
5. Mammoth Cluster-Medium, hardy, productiv

Lawton - Large, tender. 2. Kittatinny-Large, productive, half hardy. 3. Snyde
be small.
4. Weste
4. Western Triumph-Hardy, productive. It is a difficult matter to estimate the profits of raspberry and blackberry culture, prices vary
so much in different localities and so much in different localities and other condi-
tions are so unequal, but the following estinate may give some idea of what \& grower should receive from a plantation in full bearing. With
reasonably good culture, from 2,000 to 3,000 reasonably good culture, from 2,000 to 3,000
quarts can be raised to the acre. Raspberries should at least fetch from 8c. to 10c. per quart, and blackberries from 9c. to 11 c .; then, allowing 2e. per quart for picking and marketing, and 2c.
for cultivation, etc., there would remain a net profit of from 4c. to 6c. per quart on raspberries,
gnd from 5c. to 7c. on blackberries.
Now, and from 5 c . to 7 c . on blackberries. Now, taking 2,500 quarts as raised to the acre, then
the net profit to the grower per acre would be, the net profit to the grower per acre would be,
on raspberries from $\$ 100$ to $\$ 150$, and on blackberries from $\$ 125$ to $\$ 175$. These amounts, undoubtedly, have been far exceeded in some prices good-as much as $\$ 600$ and even $\$ 700$ having been realized from a single acre. The latter figures, however, are merely possililities not probabilities, but the former ought to b
within the reach of the ordinary grower who is suitably located.

## Vegetable Pathology.

dames ellis humphret.
Prof. of Vegotable Physiology. Massachusetts State
Agricultural Experiment station. (Continued from February issue.)
the black-knot of the plum.
Plowrightia morbosa Sacc.
This wide-spread and fatal disease, so common on cultivated plums and cherries and on some species of wild cherries, is peculiar to America, being, as yet, unknown in Europe. Its char acteristic elongated, black, knot-like excres rences are two well knowu in Massachusetts to have pratieally put a a, since its atcack plums in many parts an end the of The dires pata ho tate.
or Plowrightic morbosy a fungus, Sphacria branches of the trees and which attacks the in the swollen tissues of the knots. One of these may often extend nearly or quite around the branch, girdling it and causing the death of all aluve the knot. When this is not the case, the tree is greatly weakened and soon ceases to produce fruit, while the knots increase rapidly and finally kill it

Wrealls reproducing itself by spores, the funinycelium and the consequent gradual extenof the knot. Thus it is common to find, in Ahing, a new knot immediately alljoining Cmains of that of the preceding year. - fimgurs produces two chief forms of spores and early summer the surface of the
young knot becomes covered by a " bloom," com call the summer spores. Thesa we may promptly and can probably produe geshinat tions at once, though our suppositions on thi point are based rather on analogy than on direct evidence. Later in the season the black surface of the knot shows to the naked eye, on close ex amination, a division into many minute facets or regions, separated by slight furrows. Micro scopic study shows that each of these facets cor responds to a cavity which finally communicates with the exterior by a pore at the middle of its facet. In these cavities are developed the winter spores, which become ripe and are set free in late winter and early spring, and, presumably, produce the beginnings of new knots at that time.
Nearly all our knowledge of this fungus is due to the admirable account of it in Part V. of the Bulletin of the Bussey Institution, by Prof. W. G. Fartow, of Harvard University ; but furthes study is needed of the manner in which the in fection of the branches of the host by the spores of the fungus is accomplisted, and of the early history of the development of the knots. When not mued cen be dian tinvance as en er ere to it down and burning simple ding down not sufficient for Dr . Farlow has shown that knots on a tree cut down in aumer ad allow to lie through the winter, developed their winter spores as if the tree had been standing.
The treatment which has been recommended is that the knots be cut off and burned, as fast as they appear. This often leards, however, to very serious disfigurement of the tree, and a less heroic remedy is much to be desired. A treatment similar to that recommended in Bulletin No. 4, of this Station, namely, the painting of the knots with a mixture of red oxide of iron in inseed oil, has given very good results in case of young trees on the private grounds of Dry C. A. Goessmann, Director of the State Experiment Station. This preparation seems to stop the development of the fungus so that the knots crumble and fall away, with the least possible injury to the branch. Even were its effects no so complete, such an application would be use ful in preventing the dissemination of the spores of the knot-fungus. In connection with this painting of the knots, opeal fertilzers have biect of lessening their susceptibility to the ttacks of the fungus
A very serious difficulty in dealing with disease of the sort is presented by the fact that ne ting it by destroying all his old trees and garefully treating the young ones, may be surrounded by and constantly exposed to old trees elonging to neighbors, who have too little nergy or public spirit, or too little faith in "new-fangled notions" to co-operate in any systematic attempt to conquer the trouble. General co-operation over a consillerable area is in important prerequisite to success, especially In dealing with diseases of long lived plants, like rees. But unfortunately, there is found in ho reasons that, because his trees have sufferel ob long if mblack-knot, they always must, an hose simple laziness ant conservatism lessen the resulit of the int
gressive reighbors.

But attention must be paid, in fighting the
lack-knot, to other than culter lack-knot, to other than cultivated trees
merely. Since, as stated above, the attacks some of our common species of wild cherry, care should be taken to destroy all such trees within a considerable distance of the culti-
vated trees, for they may serve, as well as vated trees, for they may serve, as well as any
others, to spread the infection. Since uni species of wild cherry, the black rum-cherry, is
said not to be attacked by the black-knot it said not to be attacked by the black-knot it would be safe to destroy those wild trees seen to hood under careful observation.
[to be continued.]

Parasitic Plants-The Farmer's Microscopic Foes
$\qquad$
(Continued from February issue,)
In our first paper we endeavored to show the position of the Fungi among plants, and the roceel mat give some of the chief charactere tiscuss no brew n considering them attempt to glean interesting instructive and practiol Low hegin at thelyery threshold of life and examine some minute forms, at the present time grouped with the Fungi, and about which we hear a great deal; for around their life history there gathers much of an interesting character. We refer to the tiny forms of life known by such terms as germs, bactera and microbes. Thrse names are becoming household words, because it is now generally believed the forms of life socalled are closely associated with the origin and development of many diseases.
If a burning fever consumes us, if la grippe seizes us, or small-pox, cholera, diphtheria and a host of other alments claim us as victims, we are now told some microbe has begun to prey upon us, and that our restoration to health will largely depend upon the condition of our system to resist and overcome this microscopio formi of life, so rapidly permeating our whole body, developing at the rate of millions in twent four hours.
No time is lost among them in perpetuating the species, for they reproduce by a sort of division-one becomes two, two become four,
the four eight, and so on. Sometimes the method is varied by a sort of budding process, the buds becoming adult forms. Whatever node is followed the number increases rapidly The three terms referred to above, require sonie explanation to the general reader. Germ is a very loose expression and may be used in variou enses, but when applied to these minute arganisms we usually speak of disease germs Bacteria, too, is somewhat confusing, and was ssociat chieny used in connection with the forma robably thic certain diseases. Bans minut fe, a the Hund on the covers all these tiny living object found on the threshold of life, whether they be
 re aware of the specific form
It is only a few years since the first ray of cientific light flashed out from this invisible yorld of mierobes, and since that few fields of escarch have been more thoroughly searched nd few yielded more molific results. The microncope has been simplimel, ami microscopy

## The Emglish Sparrow.

W. E. saunders, London, on
(Continued from February issue.) man is lashed on every side by an innumerable host of like not unlike the letter " $S$ ", in outline, while others somewhat resemble corkscrew but all invisible to the naked eye, and may be seen only by the highest power of the microscope. One writer, in comparing the size of a mïcrobe to that of a man, says it would be about the same proportion that a grain of sand bears to Mt. Blauc.
Forms of microbes-

$$
\begin{array}{ll}
\text { 1. } & \text { Mierocococus. } \\
2.0 & \text { Bacterium. } \\
3.1 & \text { Bacillus. } \\
\text { 4. } & \text { Vibrio. } \\
5^{\prime} \text { § } & \text { Spirillum. }
\end{array}
$$

We find them in liquids assisting fermentation, and amongst substances undergoing decay, changing them into inorganic material, so as to restore the elements of which they are composed to the mineral kingdom, and thus put them in a form that higher plants may feed from these lements again and propare food for man and beast. We find them in the soil associated with the production of nitrates - a most valuable compound in the development of plant life In this case we have a microbe which proves great importance
from an agriculfrom an agricul tural standpoint Erysipelas, scar let fever, measles, diphtheria and small-pox show a minute globular form ; consump d.velop a rod like d. vylop a rod lik
type, quite dis $\begin{array}{ll}\text { type, } & \text { quite } \\ \text { tinct } & \text { under }\end{array}$ diameters; cholera roxters. the growth
and some fevers are accompanied by a host of peculiarly twisted forms. To combat these subtle foes, some the one-fiftieth thousanth of an inch in diameter, is engaging the attention of many distinguished scientists today. We are rapidly gathering information regarding their life history, but there is much to learn and much to be done before we shall have become thoromght actu they have with microbes and the hithere are associated. the diseases with which thention to cleanliness, By paying rigid attention to cleantiness, using prire wator, furse in the most favorable we are pucting athstand attack. In the case of condition to wiscases the isolation of pratients contagions discases the isolation of by the use aflected, destruction of disinfectants and vaccination, have all been adopted on account of what science has revealed concerning the nature of microluc. By following these suggestions we are
we may be enabled to lessen, if not altugnt her wesist attacks from a form of life that may that in the air invisible to our eyes, lut if conv introduced into the human system muler certain conditions of health at once multiplices and in
many cases canses the death of the inlivilual many cases causes the death of the nex paper we shall "isims
atravkel. In the next pap
the lumens whim canses the "potato rot."

This state of affairs cannot but cause grave concern to those who ghe don to the matter, but as yet nothing has been beyond toward the public looking to the recommendatioir numbers in various ways, such as preventing them from breeding by destroying as preventing thest whener possible, taking down houses put up for their accommodation, as well as those
erected for other birds and usurped by the one in erected for other rirds and
question, and refraining from feeding them at all times, which may sometimes result in starva tion in winter.
In England, where the bird is indigenous, the and it has been stated by Miss Eleanor Ormerod, in a letter to the Times, of January
that the ravages on wheat have been "estimat that the ravages on wheat have been estricts to amount to one-third of the crop," and Miss Ormerod is one of the most prominent economi
entomologists in England, and has devoted a entomologists in England, and has devoted bearings of entomology on agriculture, and has included the sparrow in her labors, affecting a it does so argely In a paper read before the Farmer's Club, April 30 th, 1885 . Miss Ormero condemned the sparrow on all counts, judging both from evidence and inference, and she
ly recommends it for wholesale slaughter

That the extermination of the English sparrow
would he a great boon to Canada, the writer haa no doubt, and for the benefit of those who may their dwelling places, it may be mentioned that the Ornithologist of the Department of Ayriculwith at Washnyton has inau experiments mad efficient and economical poison for use, and the simplest method of preparation It was
that wim much the quickest, but arsenic was better suited for the purpose, most birds that were fed on
arsenic in tho morning dying in tha night following, when they would be in their nests or ronst. ing places, and thus their poisoned horlies wonld not often endancer the lives of domestic ammals,
particularly in the winter, when they seek the martet secluded places for roosting purpioses. The best form of presentation was one part of arsenie to liftecn of cornmeal hy weichit, mixent
dry aml fed wet. If whole grain, sulh as wheat, iny and it is well to moisten the grain with a
 so as to canse the poison to adhere to the grains. There is a little assondiation in St Thomas to which the writer would like to call attention,
which has heen duing good work with small outlay. By private emberiptiou a fuml was raisen, amd the memhersol the asson ciation. mo.t?
lines whe have the goont of the liril and the hove wha have the soon of the hirm and then service froce and spread the news mor the tow

tions elsewhere, it may be recommended that as the females are the ones who are most actively engaged in perpetuating the baneful species, the price set on the heads of females in the breeding
season, that is from March until the end of season, that in from at least double that of the August, shoul the females can be exterminated, it goes without saying that the males will soon die out without any special assistance from man.
It is generally held that until the Government It is generally yater and vote a sum of money for
take up this matter the purpose, the increase of these birds will not be materially retarded, and certainily and and the
this is done the better for the country, and then this is done the bettri less expensive the work will be. That it will come to this sooner or later, fow that have given the matter michat and in-
can doubt, as, even though the disgust can doubt, as, even though the disgust and in-
convenience caused to the residents of cities be not sufficient to call for its suppression, the tim is coming when the damage caused to farm
crops will become immense, assuming national proportions, and then one might almost say will le too late, steps will have to be taken, and at an enormous expenditu

How to Grow Pansies from Seed. by peter henderson. sitting-room, greenhouse or hot-bed where the temperature will run from 65 to 75 degrees, any time from middle of January to middle of Apri, but the earlier in the season they are sown the
 plants will be. heb best way to start Pansies, or
in fact, any kind
of flover seeds, is of flover seeds, is
in shallow boxes rather that in
pots. To make it as clear as possible, we show three
different stages of the operation.
Fig. 1 showsa box tig. inches deep,
two wide and
nine wide twelve long,
wherein a packet shows the e. 3 nsy plants
traupplanted. wherein a packet
of Pansy seed has just been sown in
js used for almost

## Poultry.

 The Lay of the Hen. ave wondered how, o heap such men. abuses,
Notwill hatanding all our uses,--
Such abominable abuses on the poor domestic hen !
Though we lay a baker's doze conen
Of fresteggs, they come and cozen
ery one them for omelets, or puddings, cakes
or pies;
Till the tste of things is vesing.

If wa turn our mide to setting;
If we turn our minds to seting
In our thoughtlesshess,
are ourting warming shingle nails, or door knobs,
are ouly warming shingle nails, or dion,
Though quite harmless nur vocation,
Though quite harmless nur vocation,
Ye our owners with vexation
Yen uting not unlike
a lion!
We are good industrious scratchers,
When were not employed a. hatchers, ver leaving any soil

Yet instead of words of kindness,
It is "t "hon ". and in their blindnoess
Men forget to heed the tessons daily offered by the
dumb!
When we're sarcely out of iacket
Made of down, begins the racket-
we ar

Frit the evicure who buys us
Would most certainly despise
Would most certainly despise us,
Should we eavor of a quality denominated "tough."
So we're never really certain,
When an axe wiil draw the curta

About our future welfare, as our bodies roast
broil.

## Winter Care of Poultry.

The house should be sufficiently warm to allow of a pipe running from at least two feet above the roof down to within one foot of the floor. For a house ten feet square, which will accommodate twenty-five to thirty hens, a ventilator pipe four inches inside measurement wil answer, but six inches would beyr. be readily understood that the ventilator will not be nearly so great when it only comes through the roof, hence the necessity of the greater area of the pipe. The reason for taking the air from the lower part, or near the floor, is that the lower or heavier air is loaded lighter air that rises to the top, as well as that it is of greater importance to remove the impuritics existing at the point where the fowls live aul breathe than higher up. A dry floor is of great importance. There is nothing more conducive to disease thau damp floors. For this reason it is best to have them of wood as well as usel they should be removed frequently to the depth of four or five inches, as they become so incorpurated with the droppings as to emit foul gasses constantly. Poultry kept in confinement, as they must of necessity be in our long, cold thane, require to have constaker broken aravel, powderea crockery or meat 11 atso be furnished if the birds are to be C. anso be furnished ancommon for dofitable. It is not at birds, in fact there Crmer to overfeed lirds killed every year from this echoice of neglect. This danger, how than die of neglect. This danger, as it

## The Milk Test at Londom.

has the birds too fat for health before he it aware of it. As to feeding, it is wer choped oats feed in the morning, ser boiled or barley throrala fed hot are also expotatoes or other vegetabies fed he kind must be celleut. It is a rood plan to hang a head of provied by the roots, and let the birds pick cava they feel disposed. A turnip, mangle wurtzel or sugar beet may be fed profitably by having a board of convenient size with nails having a board of convenient siz of the head.
driven in it to within an inch
Then cut the root in halves and strike the round Then cut the root in halves and strike the round
side of it on the nail, which will prevent it side of it on the nail, which wirds to eat the
rolling over, thus allowing the birly
inten dig rolling over, thus allowing the edily, often dig-
inside, which they will do gree.
ging it out to the very skin. The floor of the ging it out to the very skin. The floor of the
house should be covered with straw eighteen inches deep, and their grain feed thrown
in it. This will keep them in healthy exercise in it. aid materially in keeping them healthy. and or wheat should be fed principally,
Oats or
althoug barley and corn may be fed occasion although barley and corn may be fed occasion
ally as an evening feed. This system of feed ally as an evening feed. This system of feed.
ing will be found especially beneficial for winter

## Poultry Accounts

Those who think there isn't any money in maintaining poultry for the production of both eggs and chicks, in nine cases onlon. Let a their conclusions on supposithat decides whethe or not poultry pays with you. Run your poultry book on the debtor and credit system, and the the accounts will be simple of adjus fowls, you have just purchased a not estimate the down the price paia, or assession at present value of the floek in your possession at order to and make a note oughly a convenient method illustrate mon book, I append samp.e forms for keeping a hen book,
to pages that can be used :-
to pages that can etatistical page
No of fowls in flock
Value
Laying hens
Cocks.....
Growing pullets, whation and Plymouth


$\begin{gathered}\text { Debtor page. }\end{gathered}$.
Purchased, Jans.2d, 1 bushel wheat
corn
Nails for repairing hiennery
For Farmer's Advocat
Sir,-I was surprised to see in reference to the above in your January number of the ADVocate, that Mr. Guy is not receidently feels sore over the contest, and 1 dor in appar in print, the matcer " as writing is Mr. Guy's statements or insintaking notice of reding of the three successful uations about the
cows in the test.
I am the party who had full charge of Mrs. Jones' herd of Jerseys at London and Toronto, with discretionary power to feed to the best of my judgment, which I think I did successfully, as out of a herd of seventeen, I had not a sick or "stalled " animal during the two weeks the cattle were from home. It is most unpleasant, as Mr. Guy knows, to have a sick animal at a fair, and when you meet with one you generally find it is from over-feeding. Now, I want to tell Mr. Guy, no matter what "he thinks or what was "generally known, that I Jerseys during the test exactly the same as 1 before and after the test. As proof escond or cows did not shrink in their mik tre seo made use third day, as they would have dives me credit for of the "tactics Mr. Guy Jones feeds hor Ar. Guy must thimk the high pressure Jerseys by stean, or some would expect them to system at home, Iondon on what he imagines milk as they "With other things in Mr "stunted 1 . Guy mank, sonal and vicious. $\quad$ Foreman for Mrs. E. M. Jones.

## STOCK GOSSIP.

Messrs. C. \& C. Christner, of Haysville, Ontireport an imported Shropshire ewe which
died that raised thirtoen lambs in six year
Mr. W. W. Chown \& Co. of Belleville are prepar-
ed to supply cheese factories with ali necessary supplies.
with them.
We would draw the attention of our ieaders to
the edvertise the edvertisement of Mr. Robt. Ness. Howick, Que.
This quantleman has been long known to the Cirdesdale breeders and importers io all parts of the
Dominion. this stud in our next tissue.
We direct tie attention of our breeders of Clydes-
dale stallions to the advertisement of the H chelataga dale stalitionsto the advertisement of the Huchelaya
Agricultural Society, Montreal. This is a move in the right direction, and we hope to see a very large
exhbibit of talliong there on the 15th of A pril. Full exhbit of stallions there o
particulars will be tiven
prodie. N. P.. Montreal, P.
Canadian Enterprise. - The Ontario Pump Co
haverecently completed the erectlon of the wind
 min ware, at shelburne, Ont. We are infor med that
sit surpasses the expectation of the corporation an
it it rurpasses the expectutical means of water rupply
an efficent and econot This Company's rempesentative
and fire prote to and fire prote tion. This Companys just completed
in Encland. Mr. S. P. Peck mas also
and

 The maniress in
their busind
their wills.








The pages can be further itemized as desired, and the expenses and roceipts for an summarized and ${ }^{\text {pplaced }}$ in regurak halanc another page where they can be some such ed with a glance of the eyc. simple system you don t, as a the dark, egg producer, go stum as to profit and loss. Cury ay out on them, be every item of expense youtlay of repairs, and at it a pound of feed or an with everything the field you. If you dress a chicken for the table redit this page with its moneyed worth, in household.
We have
We have seen very satisfactory results emanat fry . Different varieties of food can be fed, an their relative values noted on hennery on business rinciples, you have every detail of it constant



## Stamily divele.

THE DARK HORSE
a month in an american country house. by george a. hibbard. (Contunued.)
"What do you think now?" said Kerneval trl-
 of the cancerinp ponies for they had been at the
villaze, and were on their way home, betore making




 tical Interests to drive tid double harness, ", and woman and woman tut not man and woman, conddentve Trake married people, its the same




 olt roatly Holoks ast tueuph they were not petting




 Thand alive Wrex fort trouble, ed beady-eyed, bit Soned. hifh - cheeked woman could do dhato
suppose. You men always seem so troud of vout























 Wrex main can doanthing for himself," replied
aele ford. $A$ woman can do nothing for her${ }^{\text {self.f }}$ But suppose he cares for the girl?" continued
 That shoild make no difference," he answered
uncom
wionemistinly





隹



She had been puzzzed by bis snatlention- -urr by ted young person of sim:le heart and direct pur-



 wose there is only one thing to be done- one ond
osible thing hy which ircumst mcess can be mas

 Dakayne-a a plomidid serve


 No the ofter with a curious ittle ensor to Jurhere, she said. "Of course. Iforgot to ter

 And Mrs. Kerneval moved quirkly toward the

 There was a moments silenc
 hint tor, when sie was nit to blum
pot exaculy hituoney is more than she it if that pirl But that would not be it,": said Wreeford. "C3

 Mhat nay te a mavi' way: womand when sh


 Iti wive in. Nit





 Wondersat their-money.







 near-" dont sou bequan think," - rising. and with eviden

 terests in common and such stify
Kerneval shook his head silentiv
Kind



"Of house, exuld I IT" aval-sang slowly:
And Kerrueval hat
The chameleon sana, and so sang he
Thin, 1 diet on woman's.
constancy;
It's thinner food than my nual fare
And 1 grow zo stout on tbick euts of air."

- What nonsenne is that? some of your own mak




 minaried orer he klory that might have pertiap
been won. Noro vossible ebance for Bu garat now. How i wish one of our hoises could win some S..Very,", responded Kerneval, "and perhaps-


 Wi. with aroust suspicion; "I have sen
Wreefurd, from my window; going to the stables Wo mornings long betore any one oupht to tuing
if being down. I wonder why he was kulig Here"." used to know Carney : they were in Afghan


it was perfectly shameful in Everest., she said




We want Good, Live AGENTS to Canvass


## ๖utinnie Əulay'\& Dep't.

An Old-Fashioned Dried Apple Pie. 1 sometimes look backward and sadly lamen Tor the thersgitle with which I'm conte
 In For which no sane mortal could sigh
I never shall offer the praises to sing Inever shald offer the praises to sing
Of the old-fashioned dried apple pie Oh, wass't it awful! I still recollect

 It was made out of cotton, or sawdust or chips,
Or somethinn as miserably ryy
Like ary Like a piece of wool blanket it seemed the.
Did the old-fashiontd dried apole pie.
I should hate to fall out with the friends w
And sever the ties that endear:
I shonld hate in desert forever to rove should hate in a desert forever to rove
Where everythings lonely and drear.
Wher Wonere evarythank sactice unholy deceit,
I'm really not pining to die. IMt realy rer do most anythin

My Dear Nigces
What a horror a woman as a rule looks whe she is ready for bed, and small wonder if balm sleep refused to visit her tired eyes at all. Her hair done up in about fifty small, tight braids, and her bangs in as many hideous newspaper curls, her tice smeared with oil, or pomas, cold cream, and her hands ncased in a pair of very soiled gloves. Now leave it to yourselves to say whether this picture is avery inviting one-though true of fifty out of sixty we spend one-third of our lives, and as we tid we spend one-thiru
there perfectly oblivious to all surroundings, we should endeavor to secure as much fresh air, cleanliness and comfort as possible, else And we awaken unrefreshed and seek that rest in a dirty condition, smearing our face and hands dirty condition, smearing fear whether a coating of oily substance is not positively iujurious to the skin, for it must retard the functions of perspiration, which is intended to keep the pores of the skin open and clean. Which if obstructed will find outlet in roughness of skin and eruptions. No oily application can be got rid of next morning without a free application of soap, and consequently the face has a sore, scrubbed feeling all the next day. Do nêt be afraid of water for the skin, it will never injure it, though one dirty, old, titled lady once de clared girls washed the bloom ofl their cheeks. Before going to bed bathe the face and hands in cool water, and if glycerine agrees with the skin add a few drops to the water. Wipe dry with soft towel, brush the teeth carexwer the oughly with powder or soap, brush the hai until the head feels cool, it with a large wehind the head, socus the bangs alone until smooth, horn pin ; leave the baugs aless, it ma the morning. Now slip on your nigraress, be clean an eweet, and your slumber will be light, refresh ing and sound, and you will awaken in th morning fresh and rested as you never can do you cover your face with grease. I have see you cover your face widy for bed a positivel repulsive looking object, and the sheets, blan kets and pillow-slips would all be partakers of the anointing process. Nothing can look daintier than a woman in a white nightdress, and I have seen somt positively prain for bed.

And why do some women take such pains to disfigure themselves, when they can produce just the contrary effect without so much trouble. In the morning, if you do not indulge in the cold water and dry off quickly. The effect is wonderfully refreshing and only requires a basin full of water to do it. Pay particular attention to the care of the feet, keeping them scrupulously clean. Brush the teeth thoroughly, and rinse the mouth well, and brush the hair, part a fresh, and dress for the day. Now for the bangs which went without the papers last night. Curl them on a little spirit lamp, which you can procure for a few cents. When you are dressed, just take a peep at the fresh, clean, rosy face, and smooth hair, with its fringe of crisp little curls, and you will wonder how you ever went to bed reeking with grease and untidy curl papers.
Do not be afraid of wrinkles my dear girls. No effort of yours except keeping your lives pure and your hearts light will keep them from coming. Grey hairs only add a fresher tind
to your complexion. Let all about your bed and sleeping apartment be white and sweet. And your bed should be well aired every morning by opening the window until thoroughly cooled.
Hang your nightdress up by day in preference to Hang your nightdress up ty day in preference to
rolling it up tight or putting it under a pillow. Minnie May.

## Happy Married Life

We venture to hope that our young friends may in their married life afford a proof of the falseness of the saging that, "Marriage is the door that does survive marriage in farmore cases than is generally known. Experiences like those of James Nasmyth, the inventor of the steam hammer and of Dr. Arnold, are not so very uncommbn. The former said about himself and wife: "Forty two years of married life finus us the same ", ed cronies that we were "the rare, the unbroken, Arnold otten dwel thou "ss" of his domestic life
 Tes, the dalmost awful," when we conside at tinnes seems to be "almost how little when we reflect how, how in this life We least it must be rudely disturbed. Mrs Elizabeth Fry when a girl, loved her family so dearly that she used to wish that, when they had to die, two large walls might press towards each other and crush them all, that they might di Loving husbands and wives can sympathize wit this wish.
"He will not separate us, we have been'so happy." These were the last words of poor Charlotte Bronte when, having become Mrs Nichols, and having lived with her husband only mine months, deatri came to suatcur do domestic felicity from the tips of the happy pain Br hid Frld by the bent death The thonght of this separation should make them very careful to reat each other as they would wish they ha treated each other when the separation comes he possibility of loss is felt. "Whatsoever thon takest in hand, remember the end, and thou shal "Woman is a delusion," sair a crusty old bechelor in ". Well, man is hugging some delusion retorted
or other.

Fashion Notes
For spring wear nun's velings have been imported of heavier make than heretofore, with borders of a contrasting color woven in length wise, they make up prettily in the draperies, ad for vests, basque and sleeve trimming. The popularity of loose sleeves remain unuminished. The lining is always ruade coat haped, the material, cut leg-o-mutcon or other hape, is fulled into shape over the lining, and sually finished at the wrist wita. Wided band or such trimming as the drem nish Soetch inghame seam to be the favorite material for washing dresses, and they can be prettily map a ewing in wifel lece is shown for trimming them. It serviceable lace, with deep van ykes, which aper upards around the botton dykes, whic
of the skirt.
Fringes are woven along the selvage of man f the new woollen "suitings," and are used for tailor made gowns. These "suitings" come in checks, bars, stripes or plain colors.
Lustrous mohairs and alpacas come in all the new colors for spring suits or for general country wear ; in summer, leige, gray, suede, navy blue, are some of the shades. Polka dots and fine pea dots are on many of the summer woollens for children's wear.
The bonnets are still preferred small, though ater spring fashions may favor larger ones it is still too early to decide.
Embroideries are amongst the first spring importations, and are very beautiful in design and execution, and will be much used upon dinner gowns, as they laundry well and are effective. House slippers appear in very stylish and comfortable shapes; toes not too pointed and heels moderately low. favored than the high walking shoe is will be disarded just as battoned lot, wit
Evening dresses are made up very nicely for oung girls and so many styles prevail that it not difficult to choose some pretty, soft waist. The skirts worn just touching the floor, the ost convenient dancing length. Crepe of al elicate shades appear for these simple dresses, ream, pink, mauve, gray and yellow. A ligh

## Pure Air.

Do not be afraid to go out of doors because it little colder than usual. The cold air will no hurt you if you are properly protected and take xercise enough to keep the circulation active On the contrary it will do you good. It will purify your blood, it will strengthen your lungs, it will improve your digestion, it will afford healthy, natural stimulus to your torpia circula tion, and energize your whole system. The injury which often results from going into a cold atmosphere is nccasioned by a lack of precos to some part of the body, expure to stron lraughts, or from breathing through the mouth
Corgha Ant Comprextovs.- All golden haired women should choose colors which harmonize
with their sunny locks, aa a contrast in color ,rings out the objectionable red shate. If on so crowned would choose warm, bright browns,
and golden orange, teep clarct, and sea bhell and golden orange, deep claret, and sea sheh
rink she would surprise her friends with the
glory of her hair.

## PRITE essay.

## Economy of Time.

## by miss Jessie J. lambert, ${ }^{\text {alcoma, ont. }}$.

' To every thing there is a season, and a time to every purpose under the heaven." Economy of time in a household can be obtained only by prompt and strict attention to the details of each day's work. If we would sit down a few minutes and plan how we can save time about our work, making one step count for ever possible, the work would move on more easily; you can keep many operations going on at once if you use bur a ith ateady hand. An one up atter, another witha "If he had but old mathematician once said, "If he had but three minutes in which to work a probl two of which his life dependedin which was the best those minutes in deciding wike an old farmer's way tor whe "There's no time lost, directo thetting." A sharp scythe will do enough more work to make up for the seeming loss of time. After a little rest we pick up the thread and weave on all the better and faster, and when night comes it finds us with as much work done and ourselves less fatigued than if we had allowed the work to keep us on our feet all day. But how is this to be done? With many it can be accomplished only through methods order and system. We must learn to meet our work and not wait for it to rise up before us, an in meeting it to meet one piece at a time and doing it in its own time. Be punctual ; always be ready in time, and have all your arrangement ready.
Everyone, whatever her circumstances may be, should learn to do some one thing well so that she can rely upon it as an unfailing resource in time of need. It takes time to perfect one's self in anything, and the wise girl will take time that the forelock and begin at inished within a reasonable time, and never allow yourself to say : "Oh, it's no matter when I finish this," or time will do." These are dangerous expressions for young or old to use, as they help to form the habit of putting off until to morrow the work of today.

Procrastination is the thief of time
Year after year it steals till all are fled.
Year after year it steals till all are fled.
And to the merctes of a moment leaves
The vast concerns of an eternal scene."
Every womanly woman loves fancy work or needle-work of some kind or other, but no one should cultivate her fingers at the neglect of her mind, it is just as bad as to cultivate the mind to the exclusion of feminine accompristments Gather up the fragments hat notning be lost," was spoken by Him who created ell world, and each mer and draw the nue thes and a true conco will be sure not to wast care of the moments wake geod care of the hour will be sure not to waste dars. The economies will be sure not to waste days. wheconty to thatle things, and are freyuently repeatec little things, and are freyuentist of time, Dr. Carlisle says. To make the most of life with all its peculiar limitations and possibilities is, redeem scattered, desulury pratictes of bur we should take care that the right thing is nic crowded out.

## Use well the moments, what the ho Brings for thy use, is in thy power ;

 Brings for thy use, is in thy powerAnd what thou best an understan
Is what lies nearest to thy band."
Three score years and ten are the alloted por tion, and often not half that or indispensable fourth of which na lay consumed on the bed of sickness and many a year of the infirmities of age, and some part must be spent to the recruiting of health by exercise. How then can the ing of heaith by exercise. used. Time and tide wait for no man. Neither for the young with minds as yet unstored, unfitted by ignorance and error for the battle of life. Nor the old whose life is almost lived out, and but a brief space remaining to repair their mistakes and redeem lost time. The simple and ungifted, who have but little from nature, need to be the more careful of their precious time to improve the ittle they have. The clever and talented, who have the greater account to render for the gitts seceived. that time is not our own ; it is the gift of God, and given for a purpose. Every hour that is wasted fails of that purpose and
must be answered for. Time is the most must be answered for.
precious thing in the world. We are given only a moment at a time without the promise of another, as if to teach us highly to value and
diligently to improve it, by the consideration that for anything we know it may be our last. A moment once lost is lost forever. When we are animated by evil thoughts to revenge a
wrong, to say bitter words, or do cruel deeds, Wrong, to say bitter words, or do cruel deeds
then is the time to delay, but if there is any good deed to be done, any kindness to express aily joy: to diffuse, let us hasten to give it forn and voice, knowing that there in in the blessed work of doing good.

Shun delavs, they breed remorse;
Tabse thy thme while time is fent thee.
Creeping snaiss have teak repent the
Fly the teraut lest thou repent the
Good is best when soonest wrouxht;
Linkering labor comes to nought.
Hoist up sail while gale doth hast:
Tide and wind stay no man's pleasure
Seek not time whent time is past;
Soner speed iearly bought:
Leter thy fore-wit guide thy thought

## The Orioles.

the elm flutters the golden robi
Beautiful to look at is the orchard oriole, an sometimes he beliaves as well as he looks though his temper is not to be relied upon. If he is alone in a cage it doesn't matter; he will always
get on well with himself, and if he disapproves get on well with himseff, and if he cisapproves he will be sure to do-why, you will not mind it much. It is otherwise, horecer, his family car make lifo a burden to one who has to livo with
inim.
I always advise having two of a kind, since in hat way you not only see more of the real charand many notes and calls you would never hear were one alone. But you should be careful to secure those who can live together. Even when
the sweet influence of spring makes this oriol sentimental, he is inclined to be disagreablle to
the ladies of his family, lint two male will often Iive together in harmony:
The Baltimore oriole, who is commonly see ami is more gorgeoully dressei thau are thy vari
ave fruit. During the season of pears they ourish best if allowed to nearly live upon them, although of course, they must always have the solid mocking-bird food also. An orchard oriole once nearly starved to death in my house before discovered accidentally that it was fruit he wanted.
He had his own ideas too, the fruit must be resh and tender. A solid apple like a Spitzenburg he would not touch, nor did he care much for a soft one, but in a ripe Bartlect por the temed-sensible soul! I useight in a seed cup of a size to hold it steady, and he would with his sharp bill clean the inside of that fruit perfeetly, leaving a complete skin without a break and a core standing upright in the miacte, with hardly formed. Neither of the orioles sing through the winter but the orchard oriole begins quite early in the spring, and sings almost conety of which one does carol with lation oriole is not so levish not tire. The Ballu his voice at that season. Both of these birds are interest age, especially to tame. In one ; in the
 respond more readily to his mistress' efforts of cultivating his friendship. He will become very Tmiliar, almost inconveniently so, for orioles have a genlus for picking things to plées.
To begin with, they thrust their beaks into very opening they find, whether it be between wo leaves of a book, or in the lace at one's neck. Having the beak in, the next operation is to enlarge the hole, by stretching open the mouth Yery industriously they will work at it too, and with a singleness of purpose that explains thel power of making the close-woven mats they hang high up in our elms and maple trees. Another rassion as strong as that for testing and enlarging holes, is for pulling put threads. Woe to any embroidery you have, about! An oriole picke. out the silk threads from an embroidered spo cushion on my bureau, till it was half covered with hanging bits an inch or two long, and he enjoyed the performance so much thal kent to the heart to take it away from him. He went to it regutarly in a business breaktast and ball, and patience, he whe as lrawing out a stitch he had been laboring over, he um seize the tened ait of and and thg with his stout little legs spread far a apart, everting avery atom of strength, was yery entertaining.
Inot so amusing when he takes a notion to bull your hair ; and a mass of material so bird, but he readily learns that this is forbidden, It is alwats well to keen something in which he can amuse himself by executing his fantastic "drawn work," a soft, loosely woven towel, or ficce of cheap lace, fastened down so that he can pull in it, will entertain him (and you) for days. Thking holes in wall-paper or plastering, is a partimilar deligity to an oriole, and in fact he Ims. use his long sharp bill for something. As a graceful and entertaining pet about the
hovie. either the Baltimore or orchard oriole
missurpssed. - American Housekeeping.

March, 1890
THE FARMER'S ADVOCATE.

\$tncle 'बcm's Department. Under the snow Under the snow the roses lie,
And violets blue as the summer
 Under the snow the mountain grreams Whisper and frolic as on they go,

Under the snow in bowers of moss, The Dryads are wearine their robes of floss, Robe that in summer will sparkle and
Under the snowdrifts, under the snow.

Under the snow are voiceless lips,
And tender eyes in dark eellpse.


My Dear Nieges and Nephews:
How gladly we welcome in this blustering month of March, carrying as it does amid its snows and storms and drifts its tokens of Spring. Already the longer days, bright mornings and days to follow. My nieces and nephews do not sympathize with the poet who wrote
"My heart is weary waiting-waiting for the May." There must have been something wrong with There masically, else he would not have felt like him physically, else hectue spectacles as to see no pleasure in other months preceding May. Farmers' boys and girls have no time for such longings - there is too much to do, too much to keep fielir miniais dut lionds busy With Yessons and music, and reading and playing, swinging clubs, sleigh-riding, going to and coming from school, with the knitting and crocheting and washing dishes for the girls, and the care of the little lambs, calves, dupks, and the interest taken ia them, there isn $t$ much time to wait or long for anything. Every day is full or ought to be, and tho tine goes by so quickly, that we wonder how the wecks aind months are passing, bringing
reasons in their reghe.
Isn't it a good, a blessed thing, this world is not governca by know when the sun would rise or set, if we didn't know what season we would have next. If people were made by chance, and instead of our limbs being mated they were uneven, and part was neglected in one and given this would be! The wisdom of the Creator is this would
seen in all His works. We admire this regularity and wise Providential arrangement ; but how many of my boys and girls have their work and play planned thus wisely: Thanks to father and mother, in your well-regnlated home everything goes on smoothly and happily, and the boys and girls - the men and women of the future-are preparing for the work. Olook out for the habits of order, an your lif more with less trouble in this busy hife worh of ours.
How many of you have heard a phonograph talk? You know it is a machine when win say speaker or speakers in the room where it How many of us would like to have one star and tell all we sald to-lay searets, it once if we and all! not ever afterwards be careful of the "idthe wofds." Mr. Edison is the inventor, and in to think and toil long and hard. Listen to for the last seven months I have worked on this singleword 'specia.' I said it into the phonograph, 'specia, specia, specia,' but the instrument responded 'pecia, pecia, pecia.' It was enough to drive one mad! But I held firm and I succeeded." Just think of it, boys and girls, seven months, scarcely taking rest, determined to succeed. How much has that man accomplished in this one life with his persevering efforts on electricity
Can you imagine him a boy at school, giving up a hard problem before solving it? Can you imagine him letting a weak lam sitting wasting his care? Can you imagie and when a boy, and time, trying to athe from school because the lessons were hard to learn? Can you? Can lessons Can you think of a lot of other things he
you Col did or did not do when a boy? Do not think, now boys and girls, that he was clever and you found school and home works very irksome ; and one, a distinguished naturalist, seldom knew his lessons, and was very careless and stupid, so his teacher thought, but observing that his pock ets were receptacles, not for string, nails, pencils and marbles, like other boys, but for toads, lizards, and other living specimens, he gained his friendship by talking about these, winniug the boy's confidence, and was surprised to fin how much he knew whom he had thought dull. After showing him that in this line othor branches of education were recessary to wake his know ledge usetul, he began to the simple reasour that ing study of the lear. Shakespeare says "To work, we love: we rise betimes

So cultivate, in every way you can, your tastes The little girl who can dress her dolly tastefully and the boy who has a pet subject, in which h delights, will find, in being intérested and suc ceeding in it, will be more interested in other things too. This calls to mind a little chap who thought shavings "bitty" (pretty) when he made them on the newly swept floor, who is now the successful carpenter; also of a woy s room, on whose walls were pinned butterfices, moths, insects, and in jars suakes of various kinds, who from his ouservant yualites, has learnt mith nut is not weary hien let alone lecause ne
 jects heme whose yavioty of hind Syuirrels, etc., is interesting and instuctive. But Uncle Tom must close hiss long letter hoping that all his mieces and nephews have re covered from "La Grippe," which seized so many of them in his unkind embrace.

A Renh in Teiephowe.--Brown (who has just had telephonic connections estallithel he tween his office and house, and is very much fleased with it : "I tell yon, smith, this
telephone husiness is a wonderful thing. I want you to dhene uith men this evening,, and I wil motiry Mro lirown to expect youl., and I Peaking

- Death loy cold The immediate cause of death by cold is apoplexy. The heart is arrested and paralyzed in the xercise of its office, and no longer supplies the brain with artefoent force to the extremitios hrown wion the large vessels th accumn ine from the main spring and there is no ingress for the blood returnin rom the brain. The large sinews therefore be come overgorged and apoplexy follows.

The Greatness of London.
Every four minutes marks a birth. In the next two hours after you read this thirty babies heve been born and twenty deaths will have taken prace. Wirth de the the hat recors bers an wenty-four hours mul oultude. Verily, 100 miles of streets, and if your wonded them at the rate of twenty miles a day walked the wore you wo cer by nearly fifty days if you should rest on Sundes. And if you are a thristy sort of a on Sunday. Couldn't pass a public house, don't be alarmed, the 7,000 miles have five-and-seventy miles of public houses; so you need not think of thirst. In a year London folks swallow down 500,000 oxen, $2,000,000$ sheep, 200,000 calves, 300,000 swine, $8,000,000$ head of fowls, 500 , 000,000 pounds of fish, $500,000,000$ oysters, $200,000,000$ lobsters - is that enough to figure on? If int, there-are-some milition tons of canned provisions, no end of fruit and vegetables, and $50,000,000$ bushels of wheat. But how they wash all the food down you might feel glad to know. It takes $200,000,000$ quarts of beer. But more than this, 0 quarts of wine; the wine of rum and $50,000,000$ quarts o,
the rum, the beer, $260,000,000$ quarts. Th population of London within the police district is $5,600,000$. The police force consists of 9,000

He GotIt.
Among the passengers on a western train re ently was a much óverdressed woman accompani a by a bright looking nurse-girl and a self-willed, yrannical boy of about three years. The boy roused the indignation of the passengers by hid ntinued shrieks and his viciousness toward is patient nutrse. He tore her bomet, scrato her hands and finally spat in her face without a word of remonstrance from the mother. Whe ver the nurse manifested any firmness, the mother chided her sharply. Finaly the omposed herself for a nap, and abou the wind anasp came saing and datch it. The nurse caught his hand and said coaxingly :- "Hastn't touch. Bug bite Harry Harry screamed savagely and began to kick he the urse. The mother, without pening her eyes or lifting her head, cried out
". Why do you tease that child so, Mary ? Whim ho youl what he wants at once.
"But ma'am, it's a -
Thet him have it I say.
and caught it. The scream that followed and callyt it.
lironght tears of joy to the passengers' eyes.
The mother awoke again. "Mary," cried

|  | 6 -Star. |
| :---: | :---: |
| \%auram. | 1. A consonant. |
| * * * | 2. A Roman weight. |
|  | 4. Sown in gardens |
|  | 6. One who makes eve |
|  | 7. R A note in mustc. |
|  | A consonant. |
|  | Mutation. |

In February ADVocAtre two cousins new I find.
And gazing at their signatures, this thought cones And gazingind.ir sign? And if so, where is he?
 And then at that charade I caze, it is so good, I
Afar
That there will likely be a change in the winningfear
That there will likely be a change in the winning
list this vear.
T'm FTrsT, it must have been a sEcond, that longcontinued silence. never so, weloome. Clara
But better late than net ARMAND.
Rilance. 8-Hinden Poets.
Do not gipeak so low. Elle. You should speak Teud enounh for the whole and to hear. gers at that upper door.
II tbat Bob Ryan that crosses the moor every-
dav?
 he going to to kill his calf or hatre Woodworth
going to kill both.
MATTE
 My
My $, 4,4,7$, we are all tronabled wilth.
My $1,2,3,4,5,6,7$, is a useful linvention.
HENRY KEEVE. hild.


4-Charade. Tis a hard cuse friend Ada think
To ever our cousin true.
Making Charades for Uncle Tom Making Charades for Uncle T
And anagrams quite new. Our cousin Clara Rilance, has
Broken the ive anew̄,
By Broken the ive anew,
By asking dear old Uncle Tom,
To forgive her, so can you. A. Howkins too comes to the front,
 Yet another Mattie Woodworth
Who hails from way down tas Sends kindly greeting to Uncle
By setting crypt f for yeast. But alas? there is her brother,
Himself the midnilht ow $1:$, Himself the midnipht owl :\%
Has quite deserted Uncle Tom,
A ToTAL Sackville fowl. And then, again, "the learned Reeve
Have fallen from the ranks. Have fallen from the ranks.
Come back, ome ba k to Uncle Tom,
Stop cutting up sach pranks. Stop cutting up such pranks. I see that unto new recruits,
Is offered a reward: Ho lend a mplime to Uucle Tom,
His vessel get on board. Although a novice you may be
 Send Last puzzles to Uncle
If only for a start.

LLadder. Fatrbrother.
his is a ladder by which to climb
 time,
Will prove himself studious and
bripht.



 Mo 5 to 10 , if this you guess 'tis a "sign you's
(Aniog well.


Outario) or new puzzles andama village in New York
(a count in IIInois) a vilage In Delawarel come to
thee. You can thee You can have a a village in Arizona) time
theether you village in Georra) prize or not
whetre are (a village in Indiana) (a avilaze in lilinois) There are are and if you (a town in Georgia) the (a
and (a vilaage in Kentuoky) you can (a county in There are (a village in Kansas). then why not be (a
bay in Nora Scotia) and help (a village in in in Kentucky) of the Advocate.

## Answers to February Puzztes

$\underset{\text { B R A M B L E B E }}{\text { E }}$
 2-Which ever way the wind doth blow, Then blow it east, or blow it west,
The wind that blows that wind is best


Names of those who have Sent Correct Answers to Feb. Puzzles. Sarah Moorbouse. I. Trvine Devitt, Clara Rilance,
Drusilla a A. Falborother,
Dorothy Fox, Lucy Drusilua A. Fairbrother, Dorotby Rox, Mory
Cunningham. Amos Howkins. Heury Meeve. Morley
TBoss, L. Aoss, Willie N. Redner. Ada Armand.
 Geo. Harrison, Alice Hendrie. Harry Attwood,
G. Clark, Mattie Woodworth, Mary Morrison.

## Morning Breams

The old notion that "morning dreams come true," is interpreted by the physical state of sleep being less perfect; trains of thought sug. gested follow more nearly the course oins them. associations, and the memen are wholly lost to the mind.

## Death by Lightning

Few persons who have not inspected a human body struck by lightning, have an idea of the mode in which the stroke affects a sudden ter mination of life. The visible alterations in the frame afford a striking contrast to the ordinary ravages of what is termed disease. The machin ery of the body appears nearly perfect and uas scathed; yet in none of the matarily annihilated.

## Farmers, Enjoy Your Advantages

 It is the scarity or want of an article tha It is the or enhances its value. W makeld prize and enjoy more fully the oppor wities and privileges that are within our reach nd not be repining and complaining because wo hant have imaginary blessings that would in reality be inferior to those we possess.By improving all the chances for enjoyment with which we are surrounded, life on the farm is more independent and more satisfactory than any other. Besices an the form tables, milk, cream and butter, youg ducke healthy eggs, sprinq chickens, yom any verily, food for the gods - can yore articles of foou that to you? You have highly, and at so whe the life as but one life to live
. Have a grate poultry, use less lard and more por will he healthier and happier. butter, and you on a farm can have all these
Remember, you in all their original luxuries at first cost,
purity and freshliess.

Toddy, the term for a mixture of spirits and water, appears to be taken from the Indian
word tari, or tali, the sal or wine of a palm.

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 cattle, to some very useful breeding cows and sesides two tmporer
On aocount of Fobruary betng o short month, we
have had to olose two days errilie than usual in
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had gone to press, and the same has been the case had gone to press, and the same has been if any are wisapporinted they will kindly take this excuse for
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A review of the Park Hill herd of Ayrshires, the
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mention of the vartety of highy-bred animats tha
met

 and Campbell bree fully thev have been hred. Any
once show how eren
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E. D. George. Putnam, Ont, in a letter to us
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milk while the mother
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