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2.-The essays whll be judged by the ideas, arga-
and
 and not by the grammar, punctarers who have en-
our obeect being to encourage farmer
joyed few educational advantares. 3.-Shuld one or more essays, in addition to the the
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later than the 15th of August.
A prize of $\$ 5$ will be given for the best essaj on Th, Treatment and Care of Manure During the Fw, liny Season to Render it Available for
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Haw. for
\&inn will renfived the atiocate free for on
cace mill also receive one of our handsome

## A New Fraud.

Generally speaking the man who produces two pounds of butter from the pre vious source of one should rub shoulders with the one who causes two blades a ily-tongued grew bofore. When, howora, bly individual offers a prepall in the cream patents that wh, whe pher previous to chur he should be given to twenty-ive por his ublime gall was beyond understand that ivis such community. Reference toleration ill a cive in Hoard's Dairyman tosuch an article being offered for sale in some parts of the Western States, and now it is being offered in Manitoba, or at least it has been offered, but whether sufficient patronage has been extended to the agent to enable him to continue the business or not we are not in a position to state. There is little prospect of his doing business, however, with those who have read the dairy columns of the Advocate for the past year. If butter is properly made it will contain eighty to eighty-five per cent. of butter fat, and if it does not contain at least eighty per cent. it is of an inferior quality. Now, there are but two waya in which the increased quantity could be obtain ed, viz, by coagulation of a part of the caseine in the milk or a more exhanstive creaming The former would be vay wne, and butter made on that principle were ollered at Virden market, under the pres inspection, it would be woses rejected. If means to all intents and party is really obtain any materiar increase in qualion of caseous ed it wrab consequent sacrifice of unality, as matter and concequ of centrifogal creaming the present systex than one-third of one per seldam leares for in the milk, and deepsetting in is equally exhaustive, or if properly in 1ce-water is chled even more so. But whether the compound is even intended to increase the product, even at the sacrifice of quality, is an rop question. One farmer of our acquaintance tried, following the instructions carefully, and the butter produced was precisely the same in quantity and quality as well, so far as could be ascertained without a chemical analysis. It would seem, therefore, that the object was to get hold of the farmers' money, and that too without the slightest intention or expectation of accom plishing anything in return. When such an article as this is found the agricultural press wil announce it far in advance of it being peddted wisdom. wisdom in every instance deal for a very little.
promises to give a great dell

Manitoba Experimentál Farm.
As this is the season of the year in which most information is to be glesned from this farm we continue the article in reference thereto from last month, and purpose reporing the progress made by the most promisice ous at the farm at present, fully three-fourths of whom are actual farmers. The Council of Cornwallis recently visited the farm in a body, and the superintendent says it was a pleasure to listen to the intelligent discnssions and comments on the various branches of work being done. The breaking that was done early in the season is now being backset, and most or it is in fine condition, atthough conaderablo work will be necessary to keep the weeds in check. The wheat harrowed atter town is much more free from weeds than that not harrowed, so much so that or observer cannot fair to neces, and Timothy Alfalfa cannot be callen The native grassea only to a limited amising than any of the are much more proill prove very valuable for articial ones and mature from very early to very pasture, as late. Agropyru July issue as being an early and abundent grower, is now long past its best, while some of the "drop seed" varieties that promised but little at that time are very promising now. These varieties diop their seed and the parent stock dies, the seed growing up the next year.
The most promising oats are the Welcome White), and Black Tartarian.
In two-rowed barley English Malting and Prize Prolific are much the most promising, while Baxter's Prolific Six Rowed leads the procession by long odds, being now (July 18th) over four feet higb
The peas promise well, Early Field being th most promising at present, Multiplier and Crown comivg next Waitiesta, but white and black-d. sown a little thin.
Three varieties of buckwheat were sown Comm, ise in the order name
 hundred and sixty avenue trees planted, many as late as the middle of June, not one has died. These avenues of ashleaved maples are a great mprovement to the appearance of the place especially as there is a nicely graded roadway between them. Great progress has been mad on this farm this season.

## The Kind of Horses That Sell.

of M. T. G. in the breeders gazette. looking road horses ; they outsell the draft horses, and the question is how to produce them. In this our farmers are being grossly misled with foolish talk about George Wilkes. He was a great trotter and founded a great trotting family, but it is not a roadster family, and a large proportion of even its fastest representatives are hideous in appearance. Great sums are paid for members of this famly ugly ong in looks scare a man and trotting-bred, speed-producing dams and looks, soundness and roan machine. Who is there in ficed for a gambing funds to buy a fashionable Wilkes stallion, and who has mares suitable to breed to him? Axtell himself would be a curse to us with his curby hocks. You will not find in the market where fine road horses are sold in the markes of the conformation of Maud S, higher behind than forward. Buyers of road horses fight shy of that conformation, for it is a maxim that a road horse should be highest at the withers. They do not want them with the almost universal trade mark of the Hambletonian family, a curb. * * * The meanest lookers and the hardest to sell that I have ever had on my farm were standard-bred. When the market buyer comes along for road horses he will not give you a penny for standard blood, in fact he
does not care how the horse was produced if you does not care how the horse was produced if you
have what he wants. He wants an upheaded, have what he wants. He wants an upheaded,
showy, handsome animal of good color, with good feet, broad, flat, clean legs, good hocks, good knees, no wire cuts, a neat head with good oye and ear, a clean throat latch, a neck of good length, not of the ewe fashion, so common in the Wilkes tribe, but set ongh on the withers, good length of body well ribbed up, stout coupling and good disposition, with gait to warrant some prospect of speed with the education of ordinary road driving. That is what he wants. To produce this animal with the greatest certainty breed a mare with these characteristics to a stal lion also possessing them. Simple, is it not Like many another abstruse problem it is simple enough when stripped of humbug. If the mare and stallion had each a sire and dam of the same pattern the less chance of a failure, and here comes in the value of a pectigree. But pedigree based upon the 2:50 or standard scheme may cead to the production of the most unsaleat, brute on earth. Of you have a stitable mar trotting stallion, of fine style and action, within reach. It must be remembered that standard is reach. It must be remembered that standard in solpuence the standard to day includes an enor mous percentage of unsound, misshapen animals [While this article appears in an American paper, and is written by an Ameriran horseman, it is equally applicable to Manitoba. While a
horse like $\Lambda x$ atell horse like $\Lambda$ xtell proves a homanya to the fortunate producer, there is not mucti dont math stands, from the fact that the great majority his foals will be of little use for any purpose, and
only a very sinall percentage will be fast enough only a very small percentage will be fast enough
for a gambling machinc. Fn )
In mating geese the gander should always hee
of a different strain from the soose.

## Negligences

The old adage reads "Take care of the pence and the pounds will take care of themselves. How many of us take every precaution when looking after the big matters of our profession? We make arangements to put in a large acreage of grain and do it wel, or buy car loads of steera for grazing purposes, or way out pen at a bargain buy close and market well. Still are we doing our best? Are nct many of us neglecting the pence and only looking after the pounds? I will call your attention to a few of the "negligences.
performing labor out of season.
We all know how difficult it is to make headway when work is pressing us. Let us get a week behind hand in the spring, how long does it take to recover? If those roots are not hoed at the right time it will take three times as long to do it. The same with corn, or working our summer fallow, or commencing lality of the hay, but also let the fall wheat be ready for the reap. er before the hay crop is saved. Then the barley and oats are ripe before the wheat is in the barn. Most of us know how it is.
Again, after finishing our harvest, do we well clean, oil and pack away

> our machineiv.

We all know how much we have to pay for implements in the present day. Formerly, wagon, sleigh, plow, harrow, scythe, cradte, axe, Now we mist a log chain would be a good springtooth harrows, chaffeutters, pulpers, mowing machines, hayloaders, tedders, horserakes, hayslings, \&c., \&c. After investing in a museum of this kind we are certainly "negligent" unless we provide a suitable building for their reception when not in use. I venture to say more machinery is rusted and rotted out than worn out. The life of a mowing machine is estimated years cutting 25 acres each year. Will they do it if we are "negligent" with them?
Again, do we provide
with tools kept in good order. I remember see ing one in York State made comfortable with stove, \&c., \&c. On the walls over the bench were black a representation iu full size of the tool that should hang there. Thus, having a place to אerything, and everything was exprected to iir its prace, all a glance wotlo incicate at hice Do we provide a supply of nuts, bolts, copper instean faring to go to the the midst of harvest? If not, may I not say we art "uegligent."

1) we make all we can? Could we not mak ashmpest where all refuse could be thrown, the barm the frow the bouse and the pork finse that can be seraped up here and there ! is surprizing how fast such a heap increases in size if once startell, if there is once provided Asain, are our lonildines provided with care
allowed to percolate through the manure heap in the barn-yard, and by so doing wash out the most vabuable, because soluable, elements.
as to seeds.
Do we change often enough? Are we sufficently careful to sow only perfectly clean and pure seeds, whether of wheat, oats, barley or clover; but few of us are aware of the vast number of deleterious seeds, usually found mixed in clover seed. If we do not examine such, carefully, before buying, we are certainly "negligent."
How are your gates and fences?
Remember poor line fences make bad neighbors. Bad fences make breechy and unruly cattle and horses. Have wo abols sech bear and put gates and fences and see that they look all right? If not need we feel surprised if we find our horses astray or our cattle in the we find our horses astray, or our
wheat? If these duties are overlooked must we not admit that we are "negligent."
Again, are we making the most of the food we are feeding our cattle, whether for beef or the dairy? Are we providing them wíth comfortable stalls? Are the buildings well battened, so as to keep out the cold and draughts? Do we pro vide a little soiling corn for summer feed for our cows when the pastures begin to burn and feed gets scarce? If we do not attend to these matters we are certainly " negligent.
I might ask, do we provide a good vegetable and fruit garden, or do we, as I am afraid is too often the case, leave it to be done when we have nothing else to do, or possibly expecting the wo men to "take hold ?" If we fail in having a "negligent" of providing our families with what "negligent" of providing our families with what
it is eur duty to provide. negligent of it is our duty to provide, negligent of enabl of food, and of our pecuniary interests as well as of food, and
of our health.

Dominion Farmers' Council.
The Dominion Farmers' Council met July 19th President inttle in the chai
The discussion touched upon the prospects of the crops generally, all the members speaking o expected to be over an average of twenty bushels expecter, but the sample would be excentionally pood. Oats had suffered much from blight and rust. Peas were good in some localities but many fields had been plowed up on account of the extreme wet weather. Apples were declared to be slmost a total failure ; there would hardly be enough for home consumption.
President Little had brought in samples of heads of two new varieties of wheat, viz., the Surprize and Canadian Velvet Chaff. The former had a large head and had a handsome appearance but the straw was very coarse and affected with rust, and upon examination the grains were soft and quite uneven in size. The Canadian Velve Chaff head was large and attractive; straw quit bright and free from rust, and stiff and quit fine: grain large, even and white. dian Velve Chana grown, but he had compared it with other varieties grown with it on another farm and certainly gave the Velvet Chaff the preference It was remarkably hardy, a strong grower and all his neighbors were favorably impressed with its good qualities, and were anxious to obtain seed of this variety for this fall's sowing.

## Mr. Leach spoke very favorably of the crops it his part of the country. The wheat was very it his part of the country. The wheat was very good. The soil was light and the crops had not

 good. The soil was light and the crops had notwinter-killed, and the yield would be quite satis-winter-killed, and the yield would be quite satis
factory. Most of the old varieties had bee factory.
grown. Whetter, in speaking of the prospect of
Mr . Whe Mr. Whetter, in speaking of the prospect of
the crops in his vicinity, stated that the Demo. the crops in his vicinity, stated the Garfield was arat wheat had lodged badly. Ther promised to a newer and better variety which
yield better. Wheat was badly winter-killed, and on that account the average yield would be much smaller than many supposed.
murch smaller than mane more favorably, and
Mr. Kennedy spoke moren Mr. Kennedy ally good. He found the Manchester to have done the best on his farm ; had not tried any of the new varieties.
Mr. Deadman thought that the wheat in his neighborhood would not exceed fifteen bushels per acre on an average. That on cley lend- bad been very badly winter-killed. He thought the field of Velvet Chaff on Mr. McEwen's farm would go at least thirty bushels per acre.
Mr. Richard Gibson had grown three varieties, two of which were new, viz, the Golden Cross and Early Red Clawson. He also had grown the Manchester. He had samples of the three with him. All were red wheats and very bright an plump. The Golden Cross was decidedty the best of the three, all the members quite concurring in this opinion aiter examining the samples. He had also examined a field of the Cow. McFen Chafl wheat ghow whe ad whe for the phatically of the best description of pastry and biscnit flour, stating that he had known forty biscuit flour, stating thice of ordinary baker's per cent., above the price of ordinary barers
flour, to have been paid in some cases for the best brands of pastry flour, and the Velvet Chaft was a sort that was now much enquired for by was a sort that was now much enquired it. He millers who would pay a higher price for
Moved by R. Gibson, seconded by F. Shore,
that the Velvet Chaff wheat, examined by us, is that the Velvet Chaff wheat, examined by us, is
very promising while growing, and it is calculatvery promising while growing, and it is calculat-
ed to elevate our flour in the market, especially for pastry and biscuit purposes, more nearly taking the place of the old Soule and Deihl varieties. Carried unanimously

## Our Stock Prizes.

Do not lose sight of the splendid stock prizes we are continually giving for new subscribers. The following is a copy of a-letter we have just received from Mr. John Senn, of Cranston, Ont. pair of improved large Yorkshires, sent me as a subscription prize. I am grateful to you and will show my gratitude later in the season by
doing what I can for the ADvocate.

John Senn.
Through the courtesy of the author we are in reciipt of a copy of Blakelee's Industrial Cyclo1reura, which is full of usefur hints and derices aull one things around the farm that require a nechanical education to bring out. When once n. in ind, as in this book, they are at once quite "u, as in this book, they are at once quite lustrations are given, and there are hints rybody, but are particularly relating to
m and farm work, with a boy's department is useful, interesting, and well calculated baway many an idle hour as well as to he boys a taste for useful employment.
umestic Department is also full of receipts omestic Department is also full of $r$,
(igns of the most useful character.
"Royal Show " of England and Its Stock.
The Royal Show with its peripatetic character uaturally savors much of locality in which it is heid. Ahis Jear, Mymouth being the chosen point, carried it to the extreme south of gand it speaks proved. so successful. In point of numbers horses were not strong. The light-legged classe had good representation but were not numerous The hunting varieties were chiefly from thi counties near Pymour, way to Yorkshire by cosch horses were carried away to Yorkshire, by such well known breeders as the sterica
and Mr. Scoby. Among Shires the famous sires Harold and Bar None were not only represented by champions, but the former had two winning colts the latter two winning fillies to their credit While such names as Lorbaw and Mr. Longton, Gilbey, Mr. James Forstaw Mr. Longton, as usual, were
In Clydesdales 'Mr. Kilpatrick's Prince of Kyle, that has never before met his equal, suf fered a do alogether fresh Montgomery our readers are aware, is own brother (a year younger) to Prince of Albion, and has hitherto younger) Nis brother's most dangerous rival. The Marquis of Londonderry's horse Crusader was 3rd.
In two-year-old colts, Mr. A. Montgomery took first with Prince Darnley, another colt in which the union of the blood of Darnley ani balance of the prizes go to colts by Castlereagh Macgregor and Prince of Wales. Altogether the breed made a fine showing considering the diss tance from home.
Suffolk horses were in strong force and breeders
fthis sort seem to be pushing them to the front. The champion horse, The Czar, to the astonishment of other breeders, appeared as the heavies horse in the show, and this class all through was exceedingly well represented, breeders evidently trying to reduce the length of leg and obtain a little more bone.
Shorthorn cattle made a most creditable dis. play. In the dged bull class Mr. J. DeaneWillis' Challenge Cup (57029), a bull of true Scotch type, winning first honors. He was bred by Mr. Duthie and was sired by his noted bun from the adjoining county of Cornwall and were good types of the breed. In bulls born in 1888, Her Majesty the Queen's New Year's Gift headed the class. Second went to Mr. T. Willis (of Caperby) Prince Rupert, by Warlaby Royalist. The 3rd to T. F. Roskruge's Rob Roy. The bulls calved in 1889 were headed by the Cruickshank bull Count Lavender, a beautiful and heavily fleshed roan, a credit to his breeder, Mr. Duthie, also shown by Mr. J. Deane Willis. Cornwall again scored a good second with Mr. Trethway's Pol, a red. The Prince of hates won ord with Lord Fauntleroy. In cows last year s winner, Moliy Millicent, was again successfar andy in beautiful finish, slowido ase miking qua

Brierly was second with his Marchioness of Water loo 6th. Lord Polworth's Wave was the reserve In the winping heifers, born in 1888, Lord Pol orth's Truth, of the Booth Hecuba family解 Field Marshall, divide the honors in the orde named, while in the youngest female class, Her Majesty's Rosalind by Field Marshall, scores first. Lady Blythefield, first owned by Messrs. Hosken \& Son, of the Waterloo tribe, and sired by an Oxford, is 2nd, 3rd going to a Duthi bred heifer of Mr. J. Deane-Willis. The cow Molly Millicent, taking the champion prize for best female. The Cruickshank bred Coun Lavender taking the champion prize for bulls. In Herefords, Lord Coventry's famous cow Rose water again tops the ist of a capital entry in entry is sta nerit Mr. Jrice, Mr. Palmer, Mr Robinso merit. Mr. J. Price, Mr. Palmer, Mr. and other well or honors aders add their quota to swell whe numbers ofhibits Devons bein he wat were brought out in great number and made a fine display
The Channel Island cattle, both Jersey and Guernsey filled the cow and heifer class to the full with capital renresentatives that carried quality and character alike
The sheep department was fully filled, and ach breed bearing its characteristic type in thiat high degree of merit for which the different breeds of mutton-producing sheep of the country have a world wide reputation. Cotswolity fully made amends for the lack of numbers present. Mesers. Swanwick, Garne; Bagnall, and Thomas are the principal exhibitors, and divided honor pretty equally. Leicesters made a good showing both in number and quality
Lincolns also made a capital display, particu larly is this the case in the classes for ewes, which were an unusually good lot.
Oxford Downs made a nice even exhibit, with some extra good specimens. Mr. Brassy and Mr. John Treadwell took the largest number of Adams and Mr. Miles.
Shropshires were far in excess in point of numbers, with classes filled with grand specimens. Mr. A. E. Mansell led off in the old ram classes with Windsor King that won first as a shearlog last year at Windsor. Mr. A. S. Berry and Mr. Bach followed in the order named, amended. Bach took the reserve and highty co huge task for the jul second and third. Inge was also first with a good pen of lambs, Messrs. Bradburn second. Mr. C rahain was first in shearling ewes, also third, Mr . T. S. Minton second. Southdowns, Mr. J.J. Colman, M. In waty Hix berliag ran toop second. In twat shearing rams the Mr Wr Toop thiri, Wllis winning for the pen of lambs Mr Colman was again first with Pis of slearling ewes and Mr Ellis second. The bect show of pixz for a great many years appearel to the general opinion of the old countrymen. The Improved Yorkshires were simply granil, in which Mr. Saunders Spencer, Hecond and a third, and took nearly half the
prize money in the section. Messrs. Nuttall, Strickland, and eleven others had a good fight for the other half of the prize money. In the lasses for Middle Whites, Mr. Spencer was even more covetous; he won more than half of the six other exhibitors having to be contented with $£ 30$ of the $£ 63$ awarded. In the Small White classes the entries were fourteen for twelve prizes, and the competition very slight. The same remarks would apply to the Small Blacks except that the entries were more numerous and the pigs better. We have seen a more useful lot of Berkshires shown in one of our Canadian fairs ; those exhibited were mostly short, thick pigs, wanting more length and grow. Mr. T. T. Minton's champion full

a view of belvolr farm, the property of richard gibson, esq., delaware, ont.
boar was also a good one and in fine condition. A real. Where, let me ask, has such variety of very fine sow won the special for sows, as well as the most pleasing and natural products been first in her class for Mr. Tricker. Messrs. A. T. dealt out with so lavish a hand. Truly entered Gibson, Edney Hayter and James Lawrence all land flowing with milk and honey. Wre leading showed highly bred sows. The pens of three
young sows were the weakest, but Mr. Benjafield's prize pen were remarkably good and ueat. house, a handsome well kept resitence, whose The Tamworths are gradually undergoing a rooms are decorated with fine of engravings and change due to crossing or selection or both; paintings of celebrated stock of ancient orign. they are not as good as the Yorkshire, but quite Mr. Gibson kindly showed us over his fine farn, equal to the common pig of the country. It is his extensive, rich, well shaded pastures, remind said that the Large and Middle White have been ing one of an English park. He pointed ont to
nsed for crossing if so the good blood has not used for crossing, if so the good blood has not $u$ some of his favorites, the Shorthorns, for
been wasted. At all events the Tamworth will which he has done so much, and is so widely been wasted. At all events the Tamworth whill whe has done so much, and is so widely
hardly be popular Canda. We have already
which favorably known. His present herd is as
and hardy ene pop of the sort.
pigs enough o $\begin{aligned} & \text { and favorably, known. His present herd is as } \\ & \text { large and highly bred as ever, possessing good }\end{aligned}$ The large imported breeds of English and milking qualities, a feature very desirable at the French draft horses are the most powerful, and present day. His extensive fields of grain promise useful in moving heavy loads, or endmring hara a lomntiful yield; lie was then busy taking
service, but they are specialists, fitted mainly for
ene branch of service.
care of his hay and attending to the hoed crops one branch of service. care of his hay and attending to the hoed crops; opportunitie
" "Relvoir Farm." Mr. Gibson has alway aimed at possessing the best in every department. Of late years Mr. Gibson has been widely known at the bench shows, where choice specimens of
his dogs have been sold to dog fanciers at long figures, others have been purchased by farmers, for what farm does not require the services of a intelligent Collie

Scratches.
In the early stages wash twice a day with sugar of lesd, or add a little carbolic acid to this lotion equal parts, is very good. Acetate, or sugar of lead as it is generally called, is a white powder, and has a sweet acrid taste. For sore shoulders, put as much as would lay on a quarter of a dollar, in from half to pint of rain water
(Good farming cousists as much in overcoming
adverse circumstances as in improving favorable opportunities.

Our Clydesdale Illustration. The accompanying illustration represents three magnificent Clydesdale Stallions, The Granite City (709), Bounding Willow (811) and Lord Coleridge (817), the property of the late firm of Everest \& Kerr, of Ridgemere Fan, Reabur Man. Comment on these three horses is needless, as their successful show career in Manitoba and Ontario is sufficient evidence of their high merit. Granite City has won every prize he has
competed for in the Province; Bounding Willow competed for in the Province ; Bounding Willow has taken secoral on the time of holding the absent from Brandon at the time of holding the Portage sainst a strong field. Granite City is second against a strong fie Erskine, well known
stand, take Granite City to his farm at Burn- only from the oldest and most noted flocks. sides, while Bounding Willow and Lord Coleridge
will will remain at Ridgemere, the property of Mr. Everest.
Eastern Studs, Herds and Flocks In this month's issue we have to report the arrival of four cars of English sheep, arriving in this city on the 28th of June, having been ship. ped from Liverpool on the 13th of June, and ped from Liverpool on the 13th of June, and
were all imported by breeders of this locality, were cars going to Westminster, to enlarge the flocks of Messrs. William S. Hawkshaw, W. H. Beattie and David H. Dale, just south of this city, and the other to Mr. Gibson, twelve miles from here. The sheep were landed without miles from here. The sheep were landed without
any loss and were in nice condition, looking as

This is Mr. Gibson's second importation Shropshires, last year he having brought out something over fifty. They were also from the Bulwell flock, which was establish ed in 1877 by the purchase of ewes from Mesers, Bowen Jones, Crane \& Tanner, Fanx \& Harding and Peter Everall, at high figures. The ram Britisher was obtained from Mr. J. Evans to mate with these. Since that year the only ad ditions to the ewe flock have been as follows :1879, from Mr. Bradburn ; 1880, Mr. Coxon ;
1881, fifteen from Mr. Minton ; 1883, five from 1881, fifteen from Mr. Minton ; 1883, five fro T. J. Mansall and ten from Crane \& Tanner. Th Minton, Chesham from Maspen, Shrawardin aton, Chesham from Maspen, Shrawardin


The Granitr City.
eris, reaburn, man.
thpe boundna
from Crane \& Tanner, Gambetta from Mansall, y the number of his prize winning sons that | well as if they had been having the best of care from Crane a from German, Royal Frederick from have teen imported. The dam of Granite City, on farms either side of the ocean. We have also Gold Dust from German, Grom Evans, Dudmas. have been imported. The dan of Crince of Wales had the pleasure of inspecting these sheep since Beach, Uffington Reserve from Evans, Dudmas俍 Du known sire. Bounding Willow was district the importation of Mr. Gibson, consists of 36 prenium horse for Upper Nithsdale, Dumfrie- shearling ewes and seven rams. The ewes were shire, before his exportation to Canada, which those selected to put in the home flock, and along with the winnings of his getat this season's could not have been bought only for the reason shows in Scotland should pave the way for ex- that the estate is in the market and the tenant ten-ive patronage here. Lord Coleridge is by expects his farm to be sold, hence, in this Chicf Justice who was sired by Blue Ribbon, all unsettled state he decided to sell his hock, and will known sires in their native land. $\quad \begin{aligned} & \text { this importation is the result of careful breeding }\end{aligned}$ Sulscrucent to this engraving being placed in from the best flocks of England since 1877, culs of our artist, Messrs. Everest \& Kerr dis- crossed with rams or high ind. Couper Angus, partnership. Mr. Kerr will, we under- which have been selected regardless of cost Scotiand ; of the four imported rams a three
shear is by Mr. Buttar's Corston True Blue, the others are got by Scotsman, the former bred by Mr. T. J. Mansall, the latter by Mr. A. Erived is
sall. One sall. One of then for the show ring, and is a likely candidate for high honors. He is well developed and is first rate in quality. shearling ewes that came over in this lot are also bred by Mr. Buttar and sired by his noted stock rams Scotsman and young True Blue. Twenty ewes have produced 32 lambs this season, many of which are very promising. Several importations have been made, this year's ruumbering 46 . Mr. Beattie has built up a large trade, selling all over Canada and the United States, and has been very successful in the show rings for the
last few years. Breeding and importing Collie dogs is also included in his business, of which he has quite a large kennel on hand. Of two lately imported is a dog by Gower Chief, a son of the famous
prize taker Mitchly Wonder. The other is a prize taker Mitchly bitch, sired by Clydesdale Wonder, a son of Clydesdale Trumpet. These are both bred by Mr. Buttar who is also quite a dog fancie
of Glanworth, Ont., is one of the latest t enter the breeding lists as regards Shropshire sheep, but, like most of his other undertakings, does not believe in half-way meas Shropshire sheep ten months since his flock now numbers over 100 head. He began by purchasing a number of grade Shropshires last fall, but feeling inclined to add to the quality and notoriety of his flock, soon after purchased ten imported ewes of Mr. Beattie, Wilton Grove, to which he added others until he has 17 imported ewes, and with Canadian registered sheep and this years crop of lambs number in all nearly sixty recorded sheep. Mr. Millson intends selling out all his grades and investing entirely in pure-bred recorded sheep. His sheep have done well and his lambs are very fine, proving fory will do in large Millson has been in dairy plenty of run. Mr. Minson has in the feeding cusiness, has of feere for finds sheep pay better with less labor the kind of stock. of Glanworth, also has a large flock. Hi second importation was chosen in person, an have also landed lately. These just arrived together with their lambs, make up, nearly combined with the flock imported last fall one hundred head. Amoug those lately brought over is the shearling ram Wool Merchant, whose breeder, Mr. Bach, thought so highly of him that he was bred to part of his Ilock last season
The last selection consists of a choico lot The last selection consists of a choice lot of
shearlings and two shruar ewes that has been shoarlings and two shrar ewes that has beell
made from Mr. F. Bach, of Onilumy, and Mr. R made from Mr. Arns. Mr. Hach took ligh
Bach, Craven A A
honors in a very strong class at the late liogal honors in a very strong class at the late Royal
Show at Ilymouth with some of his sheer.) A few Dorset horned shocep, were selected from
the flock of \$Ir. Thomas Chick, and these shoult. open the way for larger importations of this
breed, the specinenshaving been nuch almine Five cows well cared for and amply fod are always surere profitahle than douhle that number
which receive little care amd imsulticient foud. Wheh recere make a great mistake by kerping
Many farmers man
more stock than they can properly feed and canc for. Our most sucessful fanners, are those
whose stock are well fed aud well carced for.

## Horse Breeding.

There is perhaps no domesticated animal which presents more variety both in size and other attributes than the horse, different types or which are now spread over almost all parts of displays a greater aptitude in adapting itself to climatic and other conditions, and that too with. in very circumscribed areas. Within the limits of the British Isles, at the extreme north, we find the diminutive Shetland, a dwarf in comparision with his gigantic relation, the massive Shire horse, an inhabitant of a milder climate. In the mountains of Wales is the little Welsh pony with his bloodlike head, the diminutive thoroughbred, while within a radius of a hun dred miles or so we find the rangy Cleveland Bay, as well as the Scotch draught horse, the well-known Clydesdale. When one considers the number of different types, not only or horses but also of cattle, sheep and pigs, which are now oxistent within the limitod area Britain, one may well ber why ment, and enquire in what way liey, were originated aw kop to explain the matter and furnish theory whieh rests on a good founda furnish a theory and long before the introduc tion of railroads, there was little travelling done and that little was generally on well define routes. People in those days stayed at home and their excursions rarely extended further than their county towns. Vestiges of this are even now extant, for each county has its own peculiar dialect, and it is often difficult at the present time for a native of one county to under stand another from even an adjoining county This stay at home habit of the people reflected in like manner on their animals, as the owners did not often go visiting neither did their stock, and in process of time, by a certain degree of in breeding and selection, the horses, catthe and sheep acquirca a it wirents of their motilued to ait rembedly has lneet effect, but climate is not the only influence. Taking the Shire horse as an example, we find that the nature of the soil as well as food, the latter being to a great extent modified by the former, has a considerable bearing on the matter ; thus the Shire horse on the rich, low hing, fine counties of tincolns und similar counties, is usually consider aily heavier. His bone is hardly as clear, neither are his feet as good as those bred on the higher ands of Derbyshire, \&c., and it is a well-know act in Wales that the feet and legs of horses wrel and reared in the rich, low-lying valleys re never as good and clean as those raised on the stony uplands. Careful breeding and selec hon will certamy ouviate this to a great ex. chit, and with julgnent and proper mating feavy draught horses can be bred with succes in such and similar situations, fut for high high and diy. In Canada this does not apply oo the same degree, for during the season of anllots utim rather from a lack of moisture, and in summer is often deficient in herbage. Th avace -pecincens of horses in Camada are a
nencing with the French Canadian horse followed by the American trotting horse, and in turn by the Clyde, Shire, Percheron and Thoroughbred. Much enterprise has been displayed by our horse importers, who have at different times brought over specimens of nearly every variety of English horses, and farmers with praiseworthy, but mistaken zeal, have many of them attempted a combination of mest of these crosses, without any regard to the kind of mare they were breeding from, and the result of this indiscriminate breeding may be seen in the miscellaneous types of horses in the country to day. Such was not the method by which England has become so celebrud horses. The crosses of alien blood inch those were, on the contrary, rather few, and tho with a well-defined purpose kept constantly in iew. Like begets like, is "like begets like, reeder, but a taor ane ancestor." This is called else the ink tavism, or in commonspe a contingency which nd thated against, that so often proves disappointment to the breeder, even of pure bred stock. How much more, then, is it likely to be a stumbling block in the case of animals or such mixed breeding as the ordinary bred horse in-Canada. It behooves, therefore, breeders to exercise great caution in the selection of breed ing stock, and it is not sufficient that the animals themselves be possessed of individual excellence, but it is likewise important to ascertain particulars as far as possible as to thei progenitors. Horses and mares that are un sound with any hereditary diseases, win or tainly reproduce in their offspring the defects which they themselves possess, it being a re markable feature in prof the points are more easy of more desirable properts. 1 is essental then to guara agaiust ire from or descended from un. are themselves inifm or descended from unsoundents, for the use of such animals will accions, forly is is isappointment and loss af looth time and money. The lack of success in horse breeding is often attributable in a great measure to the want of care in the selection of the dam. Many persons possessing mares, re gardless of their loose leggy make, small size, or hereditary unsoundness, have often thought them good enough to breed from. How often has one heard it remarked, " $O$ h, she will do m to work, and I can alterwards breed a colt from her !" To such, the advice which has frequently been given before, may again be repeated, "do no breed from the old mare because she is old, even wough she may be an old favorite. Ou the Contrary, breed rather to a mare that is wode rather than over the prime of hre. In the selecfion of breeding anals, bis their produce an to the pros this class of horse a good demand is now arising) his class be considerel with referene to tho easiness of his paces : he should possess quality and should be able to lift his fore legs well, but not high. High knee action in the saddle horse is not desirable, and is rarely pleasant to the rider ; it does not conduce to speed nor necessar. ily to safety, for the surefootedness of a horse depents more on the manner in which he puts
his foot down than in which he lifts them up He should likewise be able to canter lightly, as
well as gallop, and above all, he should be able to walk at a smart gait. The type of mare for breeding saddee horses should placed shoulders, pact, deep bodied, werl not legsould be possessed of breeding combined with substance and bone to carry weight. The with subs such mares should be a thoroughbred and if possible a proved cood stock.getter, sound, and of a good and not fretful temperHe should stand square on all four legs, the forelegs dropping straight from the shoulder to the ground and not calf-kneed; his fetlocks should be sloping but not too long; his feet good and open and free from any signs of contractior ; the bones of the hocks should be large, well-formed and clean, with no enlargements or puffs of any kind; his head should be well set on a fine arched neck; his shoulders well laid back; his chest capacious and deep, for depth of chest is necessary for speed ; his back should be straight and rather short ; girth deep and well ribbed up; hind quarters full and not sloping ; his tail set on well and high, while his action should be good; he should be able to walk not gallop free, and lastly, it is not essential
that he should be possessed of extraordinary that he should be possessed of extraorainary
speed. On the other hand, some of the points so valuable in a sadde horse are not equally es sential in a driver. The horse intended for harness work ought to assist in his object by throw ingalrion soth substance musula therefore possess botr subsance and muscula the feet for this latter item adds greatly to the reandeur of his a ppearance, and not a little to his price, and as he carries no rider the iar or putting his feet down does not produce the same amount of wear and tear to himself, neither is the rider inconvenienced. Shoulders in a harness horse are not so important as in the case of the saddle horse, while cantering is not only undesir able but an unspeakable evil. With these exce tions the mares for breeding harness horses should be similar-tathose for breeding saddlers but in this case I should prefer to use a differen sire, such as the Hackney or the Cleveland Bay, the choice between the two depending somewhat on the mares and somewhat on the class of pro duce desired. The Hackney is a big little horse, standing on short legs with excellent feet and joints, and is particularly noted for his high action, and as such, is eminently calculated to cross with leggy, weedy maros of which there are many scatcered through the country. He is being over 15 , but having plenty of substa being over 15.2, but having plenty of substance and mated with the larger class of mares or with plenty of size combind with high ction, quality which is much sought after by fashion. quale city people who are always ready to give large prices for action. If, however, horses 18 hands and over are desired, we must look to the Yorkshire coach horses or Cleveland Bay with his lengthy quarters and long elegant top lines. The market for this class is likewise very good, and carriage horses of this breeding are fetching from $\$ 700$ to $\$ 1,000 \mathrm{a}$ pair in Chicago. As to which is the most profitable horse for the farmer to breed it is impossible to say, so much depends on a variety of circumstances; in the case of the sat horse and hunter it is seldom that the full profit is realized by the breeder. Few
$f_{\mathrm{a}}$ tucers liave the time or even the inclination to
chool a hunter, and they are consequently often business only half learned, at a comparatively Low price to a dealer who educates them and in many cases secures a large profit. Fortunately for farmers, wealthy people have a fancy for saddle horses and fine carriage teams, and for comfort in the former and appearance in the latter, they are willing to pay fancy prices. Con sequently, if light horse breeding pays at all considerable profit must be realized from rearing either of these two types, for the demand, slready Large, must annually increase with the growth of our population, while in the States there is almost an unlimited market. In conclusion, it must not be inferred that 1 am in favor of crossing pure breeds. On the contrary, ifaran standard bred troncing while if it is Clyde or Shire mare, let him breed to pure Clyde or Shire mare, let him breed to pure
ires of their respective breeds. To do otherwise will certainly result in a loss. It is not to breeders of pure bred horses that this paper so particularly applies. It is to the ordinary farmer
rho after many years of breeding with no well efined object in view, is still continuing the practice of raising horses which will not average

The Devon as a General Purpose Cow.
F thomar chick, stratron, dopchester,
I was pleased to read Mr. Nicholson's interest ing paper in your issues of April and May, on the General Purpose Cow. No doubt on many points the remarks are right; yet, there are assertions made which, in miy opimion, can general purpose cow "requires four essential general purpose cow "requires four ardes, viz, robust constitution, hardiness to stand the climate, aptitude to fatten, and fairl good milking qualities," I quite agree with him, having found, from experi
having these four qualities.
Starting from this basis, I will endeavour to show where, according to my icea, Mr. Nichol on has certainly "the Jinge Holsteins and Ayr First, he says, the Jerseys, occount of heing shires aro " Thi may be true, but when he nongoes oul tate, out by not being adapted for either," I cannot agree with him. The breeders either, care of themselves, and perhaps prove the contrary. As a breeder of Devons for the dairy and general purpose cow ever since the year 1851-nearly forty years-I hope my remarks may be considered reliable, and founded upon personal experience, not upon hearsay or what have been told by others. As to robust consti tution, the native home of the Devon is close to the forest of Exmoor, where they live and thrive on the poor pastures and bleak hills, out of doors, all the year round. If transferred to a richer soil, and better climate, they grow to a larger size. As fat beef, Devons command the top prices, no other breed of cattle being worth more money, weight for weight, than a Devon in the English markets. If they live anu Dirive on their पative they sould he able to stand the possibly exist, they colder but drier (Gazers here will pay as much hor a small Deyon cow as they will sive for a large one of another breed, on account of their
readiness and aptitude to fatten, and velue when fat. With regard to their fairly good milking qualities, there are hundreds, probably thousands, of Devon cows kept in this county of Dorset alone, as dairy cows for their mikk and make their living by doing so. May I add that, this year, 42 cows of my own are rented by a man who pays me $£ 12$ for the produce of each cow for the year. Are not these facts sufficient proof that Devons possess the four requisites for general purpose cow, vi., robust constitution, hardiness to stand the climate, aptitude to fat an, and fairly good miking qualities " ny of your roaders being a good general purpose cow, whope, when he crosses to tha mill then be pend a day or two wif Devon cows that have berer been shut up in a house since the days of never balford that breed a calf, and give milk heir calno to months every year, and ar ram nable for making beef when no longer requir ed for the dairy. There is another point which ppears to be in favor of Devon cattle, they require less food than Shorthorns ; they will also live, here in England, on less costly food during the winter, a further proof if needed of their obust constitution, consequently the expenses of keeping are less, or a larger number can be kept at the same cost.
It is far from my wish or intention to detract from the merits of any breed of cattle, but seein such a sweeping statement as to Devons mad without the slightest proof of its accuracy, and knowing, from a life-long experience, how in correct and wide of the mark this statement I give you these facts about Devons that may perhaps, interest those who know nothing what ever of the valuable qualices of a brood of catlo that deserve to bo That "Devon" are good all-round properties. has was at appreciated the 8th of May last, near Truro, in the sale, of the herd belonging to the late Lord Falm th, when 100 animals, including Foung palves, realized on an average as much young carch, one young cow being sold for the high price of $£ 273$.

Greyhounds and Agriculture
The Russian official estimate is that no fewer than 170,000 wolves are roaming at large in that country. Last year the inhabitants of the Province of Vologda killed 49,000 of the brutes and in the Casan district 21,000 were killed. There are wolves in the Canadian Norkw, brey are not, like the European wolves, or a a times very troublesome on the plains, especially to flocks of sheep Sir John Lister-Kaye imported a number of Belgian and French wolf-hounds and Scotch deer hounds, and other breeds of dogs have been tried with very fair success. By their aid the numbers of those coyotes have been much reduced, no less than seventeen of them having been brought down in a single day on the Cochrane range. The hounds in use, however, are scarcely fast enough, and, with a view or giving them a greater turn of speed, Mr. Dar Gordon, the veterinary surgeon, of Ottawa, Ontario, has hounds ever shippel from England, namely, Just inian by Cui Bonoout of Stylish Lady, and Jetsam by Royal Stay out of Castaway

Onr Yorkshire and Tamiworth $\quad$ cases' these pigs have gone where Berkshires have $\quad$ Whether or not the Improved Yorkshire has

Illustrations.
The illustrations of the Yorkshire and Tam- moment believe that one-tenth as many Berkworth pig, given in this number, will give our shires have been sold for exportation to Denmark, readers a very good idea of the form and points a country where utility, not fancy points, are eaders a very good all three are produced from

animals, and accepted as lifelike by leading English authorities. All interested in hog raising should carefully read Mr. Benjafield's article on Berkshires in last issue, also the article on Tamworths in last and present numbers. It is quite evident from these that the ity of as of superion over another ise breetled even in England What pork packers require is a pig with a long, deep side, good with an abundance of lea meat of good quality throughout the entire car cass Such hogs our farmers will find most profitable.


IMPROVED LARGE YORKSHIRE SOW SMIfffield QUEEN 18 ome to stay in Canada will much depend on the Dominion. I am led to make this remark from the perusual of a paragraph in Mr. Francis Green's letter in your May issue. When writing of the Large White class of pigs at the Englis) class of pigs at the Englis
Royal Show, he states "As a matter of fact, the Improved Large Yorkshires are almost invariably the sole contestants in that class. I hope he is not correct, nor do I think he is; indeed, the very opposite is the fact. As a proof of what I write I need only quote the prices made at a recent sare most popular noblemen our most popular noblemen by our first auctioes, The pigs were sent into the ring pigs were sent into the ring
in good form, and were bred from two herds, one of which has won many Royal prizes has won many Royal prizen
in the classes for Large Whites, and the other, which is advertised as "all pigs descended from Royal
. He surely cannot have so winners and eligible for entry in herd arding snell's assertion that "in his low an opinion of my countrymen, or so high an book." What more could be wanted if Mr search for high-class Berkshires in England last opinion of the natural modesty of Berkshire Green's contention be correct?. year he had to compete with buyers from nearly breeders as to imagine that the sales, had they Large Whites. Prices made were from 10s. for all, if not quite all, the countries of Europe been made, would not have been duly an the Im. five months' old pigs upwards. Seven boars and named, etc." I do not for one moment doubt that in the press. As to whether or not the Mr. Snell believed what he wrote. But, what proved Yorkshires are more suitable for bacon- sows nearly a year average of les,
does it prove if true? The questions are: Are he Improved Yorkshires taking the place of Berkshires abroad? Second, Are the Improved Yorkshires now bering mored to foreign ped tries than are Berkshires Third, Are the shires more suit able for bacon cur ing purposes
Fourth, Are the Improved York shires a success in they come to stay At the risk of offending Mr. Suell, 1 venture


ER of Numerols improved large yorkshire boar holy ell witish shows own herd since I know more of it, and because |curing purposes and consequently for general more pigs are exported from it than from all the consumption than the present type of Berkshires, English herds, including Berkshires.
To fuestion one I reply: Certainly, since Jan. uary 1 st, I have sold Improved Yorkshires to uary 1st, I have sold Improved $\begin{aligned} & \text { thirteen foreigu countries, viz., Canada, the }\end{aligned}$ thirteen foreign countries, viz, Camada, Ge
States, Buenos Ayres, th Cape, Russia, GerSus, Sueno many, Spailu, Cortugal, Norway, Sweden, Nen Canada, and everyone declares that the present countries as many as thirty-five boars. In many their trade.
than $£ 3$ each
then seven boars and gets, about five months old made the eno mous sum of $£ 9$ 15s., or about 2 8s. each. Reput ed winning, or
being exhibited being exhibited
at Royal shows, at Royal shows or even entry
the herd book proves nothing and if your pig that ground alone they are doomed to disappoint-twenty-nine pigs highly descended and all the rest of it, being sold for far less than I made by private sale this spring of
mproved Yorkshire conntries as many ast thirty-five boars. In many their trade.

The Tamworth Pig. by g. allender, england
(Continued from July issue.
(Continued from July issue.)
If the views of Messrs. Harris, given in my last article, are souud, the most fashionable English pig of the future will be the Sandy Tamworth, two or three pens of which have regularly appeared at the Birmingham Fat Stock Shows, where they have been the butt for the ridicule and sarcasm of fashionable pig-breeders and others. These words struck mied that, as very common sense, anf I I would try the old soon as opportunity offere, neglected breed. In Tamworth or some kindred of twelve acres near 1882, having a smainton, where I had room for a few pigs, and the wherewith to keep them, on few pigs, and the skim-milk from my herd of Jerseys, I sent a the skim-milk fommission to Messrs. Lythall to purchase some Tamworth pigs for me, and in due time two sows arrived. I certainly was somewhat alarmed arrived.
when the creatures came out of their crates ; when the creatheres slab-sided beasts. These sows were in pig. I subsequently purchased the best were in pig. mas Show, and a boar out of another prize pen, and so laid the foundation of my herd. By selec tion, the produce of these pigs have immensely improved, and not only have many of my friends who at first chaffed me about my "wild" pigs become staunch breeders of the sort, but what is more important, the bacon-curers, not only in England, but in many foreign countries, have become customers
for them. We have now classes for the Tamworths at the Royal, Manchester, Liverpool, and North Lancashire, and also this year, While pleased at the success of my efforts pleased at the success of my efforts
to bring this useful breed into notize, I do not for one moment desire to condemn other breeds. By good fortune, the Tamworth By good fortune, the Tamworth
was not crossed with the Chinese, and now that the breeds which were produced by the admixture of Chinese blood have been condemned by the bacon-curers as carrying an excess of fat, this old, lean-fleshed breed will, I think, be as useful for a cross, in a contrary direction, as the Chinese pig undoubtedly was some half century ago. I prove this, and at the same time admit the value of the fat pig, by the following statement. In 1882 I puta a marge white boar. Out of the liter, the produel in Clins cross, Texirited wo ") and won the 1883, in the "cross-bred " class, and won the first prize and he cup as nows of the litter, the show. I kept two sow pigs out of the the pro. and bred from hem sy a duce being, of course, three-quarters seross-bred ries lave been sold except five, which I last year piys have been sold except inve, whad for also a
fed for litter of pure bred large whites, farrowed at the hitter of pure bred large whites, farrowed had also athe time, within a day or two, and on the same day. I selected pigs out of all the three litters, viz, the pure white, the pure Tamworth, and the three quarter Tamworth and quarter white dilling kept together and fed alike. The cross-
either of the pure breeds; the Tamworth is far $\mid$ mals, we must select as a basis of operation in advance of the pure whites. Now I submit animals of individual merit from the best beef
that this is a very valuable lesson for all who feed pigs for profit, not for show, It indicates
that the value of the original Chinese cross has that been lost, only by constant in-breeding the tendency to produce fat has become too strong.
The new blood of the pure old-fashioned lean The new blood of the pure
breed has told and has paid.
Pure Tamworths are good feeders, as is shown
by my having had six hams cured, smoked, and by my having had six hams cured, smoked, and
dried by Messrs. Harris, of Calne, and which dried by Messrrs. Harris, of Caine, and which
then weighed, in the aggregate, 121 lbs , a full 20 lbs, each, off pigs twenty-seven weeks old.< Having tried the cross with white pigs, and
having tried white pigs alone, I have now cleared having tried white pigs alone, I have now cleared
off every white pig and any pig containing white off every white pig and any pig containing white
blood. I believe the Tamworth to be \& most valuable cross for the Berkshire. Messrs. Harris have, I believe, proved this ; I want to test it
myself, and recently bought a Berkshire boar-a a large useful pig.
large last word. Tamworths, however carefully
One lat one may select, frequently throw pigs with black
spots. These are perfectly legitimate in the pure spots. These are perfectly legitimate in the pure
Tamworth, unless the Tamworth, like many other creatures, especially, cooks and hens, is to
be spoilt by the "fancy" udg.

Special Purpose Cows.
It is my opinion the selection of a cow should be made with particular attention to the object

he prize-winning tamworth boar, dickie baj. strains. If our object is to reach the highes point of perfection in dairy cows, we must selec from the best milking families only thos animals which have
recommending them.
One of the most important questions at pre. sent with us as Canadian dairymen is :-How are we to get a supply of good performing dairy cows in the least time and at the least expense The only way is our reach. My observation and means with led me to the conclusion that exper of our native Canadian cows are exceedingly good milking animals, both in quality and quan good miking animais, bort in quasty and quanthoroughbreds, and that if they are intelligently bred and properly cared for, Canadian dairymen cannot possess them selves of a better foundation for a profitable dairy herd than some of our best cows. Being hardy and indigenous, qualities of no little importance place them in more favorable circumstances for devtlopment than many of the imported breeds. It is a lamentable fact that our native cattle have for so many years been bred so unintelligently, carelessly, and unprofitably, and that so many years have been almost lost in the line of bringing them to that perfection and usefulness of which they are capable. It is also to be regretted that much time has boen lost in perfecting or thorghored, breeding for color, syle, cancy, do., in or hand it is pleating to note that wisdom gained by experience is now having a good effect in the breeding of all domestic animals. Most of us who are now dairy ing could, by careful examination, and by making ourselves more familiar with the peculiarities of the animals we have, choose from their number a fow at least that would well repay us for intelligent care to profit thereby. Cows are of two kinds, but, in breeding. Use only pure-bred sires that strange to say, many famiar windamental truth. have ancestry possessing such milking qualiAs lords of creation, we can, by becoming ac- ties as you desire. Pedigrees are of value only quainted with nature's laws, make them serve as they enable us better to know the individual ar ends in the production of animals with merits of an animal, and in too many instances wonderful capabilities ; yet there are bounds we are used to mislead. I have had splendid may not pass. We cannot breed in such a way results from the use of Jersey and Guernsey as to produce cows of a solid red and solid white $\begin{aligned} & \text { sires, and believe that good oftsed may be pro } \\ & \text { duced by the use of many of the different breed }\end{aligned}$ color from the same individual, because it is necessary to take different directions in breed ing to produce animals of different colors. For the same reasons we cannot breed the best beef and the best milch cow in the same animal. These qualities are possessed in perfection by no individual cow of any breed, and while each breed of cattle possess to a greater or less extent some peculiarities of their own, let all bear in mind that the excellencies of none are in the breed but in the breeding, for by one improper mating the good qualics estryed, and there quired in years may be destroyed, and there fore the real worth of caln and the individual. rests inainly on the best breeds animals Hence we halities, as also in the best milk. ing breeds, poor milkers. If we would be the most successful in the production of beef ani-
duced by proper care in the selections. if we use proper care in ahe selections.
I believe it is an ansulut necessity if we would become successful breeders of dairy cows
to have that special object in view. $\Lambda$ faithful to have that appcial object in view. Ave that the examination
greater is the tendency to take on flesh the less
is the profit in milk. By careful study, and the is the profit in milk. By careful study, and the experience of others, combined with our own,
we may become capable of determining the we may become cas stock with great accuracy, thus saving time and expense in milking heifers
a year or two to find out what they will do. a year or two to find out what they wil do
The fact that our Canadian interests and perThe fact that our anald be greatly advanced by an sonaleased production of first-class cheese and butter, demands our thoughtful attention. By
keering a greater number of special purpose cows keeping a greater number of special purpose cows

we could greatly increase the protitableness of we could dairies, and this should be sufficient induce. | ment to stimulate us to greater efforts to possess |
| :--- | ourselves of choice animals. Let our aim be no

less than to equal, if not surpass, the most suc.
Fassark. less thal.

The Coming Dairy Competition. As previonsly announced, the editor and pro. prietor of this paper has again offered for competition as a dairy prize a splendid silver sert cows which, on being tested, produce the greatest
 vizo will be awarded this year at the Toronto Industrial. The Industrial Association have offered a second prize of 830 and a third prize of $\$ 20$. On June 6 th a fully advertised meet ing of breeders interested in the dairy breeds was held in Toronto. Mr. Wm. Rodden, of Montreal, represented the Ayrrhires of the east Messrs. D E. Smith, of Churchviile, and K. B. Stevenson, of Ancaster, represented, the Hol stein Breeders Association, M. Wass Richmond Hill, Ant., horn interests. Col. .ames adressed the Dominion Dairy Commissioneses carrefully conmeeting, and th one the rules which governed sidered one by one the rules whith gerended last year'sted unanimously. Below will be found the amended rules which will govern this year's test. We hope that each of the dairy
breeds will be represented in the test this year:
$\square$ RULES
to govern a competition for a comparison in the economy of the production of
mbik by cows of different brew,
at the industrial. exhibiton, toronto, september, 1890.
I. Cows of any breed or age may be entered for competition. The cows of each lot entered may be the property of one or more persons. No lot shall contain animals of different breeds. No lot shall contain pure bred and grade cows. Grade or native cows forming one or more lot.s will be admitted upon equal terms with the others, but the animals of each lot, which are not entered as pure bred, must be the grades of one breed.
II. Each competing lot shall be composed o three cows. The competition shall be between the lots and not between the several cows. The person in whose name the entry is made shal declare the age of eack cow, tire if pregnant.
III. Each entry shall be made to
on or before 1. Thee days. The milking shall be performoder three days. Che day to be appointed by the person in charge of the tests.
V. All cows entered for competition shall b milked clean to the satisfaction of the person in charge of the tests, on the morning and evening of the day previous to the beginning of the tests, VI. There will be no restriction as to the quantity or temperature of pure water that may be given to the cows, or as to the quantity salt that may be fed. The feed shall be provided by the persons in charge of the several cows lots. The several kinds of feet shall be value) at current market prices by the person in char, of the tests. Representative samples of the ferd shall be open to the inspection of an pers.
terested. VII. The quantity of feed consumed ly esch lot during three full days shat from one day before the first milk for the test is taken, until one day before the last milk for the test is taken.
VIII. The milk from the several lots shall be valued at sixteen (16) cents per pound of total butter fat contained in it, together with two and a-half $\left(2 \frac{1}{2}\right)$ cents per
IX. Counting from ninety (90) days after the late of last calving, five (5) per,cent. additiona value shall be added to the valuation of the milk for every thirty (30) days thereafter (and pro. portionally for every part thereof) up to the end of eleven months after calving. Counting from ninety (90) days after the date of the last service (if pregnant), two (2) per cent. additional value shall be added to the valuation of the milk for every thirty (30) days thereafter (and proportion ally for every part thereof) up to the end of hundred and thirty (230) days atter service. X. Milk of unpatatabe fiavor, or abnormal as to the nature of its constitution and of human food, or for manufacture ine dait products, shall be rejected
XI. The largest proit for will he awarded the the forementioned scales, $\$ 65.00$, given by prize of a silver service, value' $\$ 0.00$, given Home Magazine, London, Ont.
XII The decision of the person in charge of the tests shall in every case be final, and the animals and premises where they and their feed are kept shall be under his supervision. No feed shall be fed at any time during the time of the test without being weighed or measured by himself or assistant.
XIII. The prize will not be awarded unless at least three lots compete, two of which must be of distinct and dis class will Thess at least three herds compete, two of which must be of distinct breeds. Entries for this competition to be made with the Secretary of

the Toronto Industrial Exhibition not later the Toronto Industria Saturday, August 16th, 1890. Entrance | $\begin{array}{l}\text { than. } \\ \text { free. }\end{array}$ |
| :--- |

The Dairy Qualities of the Ilolstein-Friesian.

Mr. Chairman and Gentlemen, - In times of depression, men in all avocations strive to lessen To accomplish this successfully they invent and use skilled labor and fuel-saving machines, so that they can offer their products to the public at a low price and still make a good profit on them. The farmers and dairymen of necessity are compelled to follow in the same footsteps, The grain growing farmer makes use of the ciffer ent labor and time-saving macrincry, by whic he lessens the cost on the products of tre soil, and so praces himself ore an for cod the mantuacturers io if he wanta to keep pace vith the the with fuel seving machinery in the form of the impreviry cow. The cow which yields the greatest profit from the food she consumes is the row which the dairyman should choose, for it is only by lessening the cost of production that he may expect to keep even with the others. But different breeds of dairy cattle claim to possess her, but let us examine them a little and we wil soon come to tind which is the most protitathe cow for the general farmer and dairyman. It is
the cow that will yield the largest amount of milk,
batter, cheese, and beef, from a given amount of ood. The Jersey is only a special purpose cow, and
 ; the Ayrshire also does not find favor on account of being too small for all purposes. The Short horn, at one time a grand dairy and general purpose cow, has, through breeding for the beef orm exclusively, been entirely ruined as a profitable dairy cow. The Holstein-Friesian is, in reality, the only worthy general purpose cow. She has almost the size of the largest special beef breeds; is a rapia grower, actanly outslit ping all others in early maturing $q$ as dairy They are alreads their claims as the greatest cows. None dispute and slowly but surely they re also prow the greatest buter ducers They are hardy, acclimatize readily in all climates from the far north to the sunny south, and prove themselves the most economical consumers of food under all circumstances. In Germany, where for many years back tests have been conducted to ascertain which breed gave the best returns in all directions for food consumed, the Holstein-Friesian has always been leading, and ever loud has been the praise of our forefathers (who emigrated from that country) of the large black and white cows from Holland with their immense udders. The stables of the nobility are filled with them, and the cream and butter of these Holsteins grace the tables of the richest in the land. To show you what rank the Holstein takes as a dairy cow interesting countries I will quote you a for figures. In 1883 diren leter to their the United States, Consuls asking then for whe they were Ccredited. I will guote a few figures from the report of Consul Tanner in regard to the cattle of Belgium. The whole number of cattle in the Kingdom (in round numbers) are $1,556,000$, of these there are :

> Hollanders (Holstein-Fr
Hurtams Shorthorns).
Ayrshires.
> Ayrshires

Hollanders. from $\$ 118.00$ to $\$ 180.00$ per head.
Durhams
8.000

Other breeds not known in this country were eported. Belgium is situated about equal istance from North Holland and Friesland, the home of the Holstein on the north, England and Scotland, the homes of the Durhams and Ayrshires on the west, and the Channel Islands, the home of the Jerseys, on the south-west. Neither of these breeds has any advantage of situation over the others; all are within eas reach ; all have been equally free to win a position in this country. Belgium, in fact, has bee great field on which these foreiga breds have met on equal terms to contend been acting the Her far come determine on the part of a great committee to determine on that-
merits of these breeds. There have been no out. side influences to bias their decision. The figures which 1 lave given you is their verdict. The average numuter oonble of all the other three, also the price is more than double. These facts, combined with the favorable impression they have made since their introduction into our country, actua
ly outdoing all others, places the HolsteinFriesian into the front rank as a profitable dairy cow, and crowns her queen of all the dairy
breeds breeds.

## How to kill Gophers.

 by f. l. washburn, entomologist, experimental station.1. Gopher Traps, Of iron, about eighteen inches long with a strong spring which drives $t_{\text {wo prongs }}$ pron thror about $\$ 1.00$. They are, when be purchased for about $\$ 1.0$. of a gopher, the set, thrust down the open hole of a gopher, the necessary. Gophers come to the surface during the night and early in the morning, and again about noon and again late in the afternoon, and it is at these times, when the branch burrow is open that the trap should be set, though one could, and some do, dig down to the main burrow and set the trap there. In the latter case two traps are really necessary, setting one on one side of the spading and the other on the other side, so that from whichever direction the animal may come, he finds a trap. The trap is sprung by the animal touching a plate with his nose or head.
We have tried a limited number of experimenta with this trap, and found invariably, that the gopher would spring the trap before reaching it, by pushing loose earth against the plate. This was the case whether the hole was closed with sod and the light thus exeluded, or left open, Until we have tried this trap further, we hardly feel qualified to give a just opinion on its merits, yet, from the work we have done with it, fear there are technical dim with the wariness with its use, which, combined with succes: ful.
2. Shooting. A handy shot-gun is really very effective. One will often, at about noon, or late in the day, find himself close to a gopher burrow fron whe sell shot at such a time will put an end to him.
3. Wire Neting. Where injury to young, newly transplanted trees is extensive, it is suggested as a remedy that, in the hole dug for the reception of the tree there be placed a wire meter and two feet in depth. The upper end of this should be from four to six inches below the surface. The mesh might be $\frac{3}{4} \mathrm{in}$. Black iron is preferable to galvanized iron because it is cheaper, and would not last longer than three years at the farthest, by which time the roots would be large enough to withstand any attacks. Though rather expensive, this is said to b effective.
4. Pitfalls. The following excellent plan comes to us from California to be used in districts ver mueh affected:
Dig a trenck around the land to be protected the width of $\mathrm{a}_{\text {spade }}$ and about sixteen inches deep; in this, about 100 feet apart, sink five gallon oil cans, their tops, from which the tin has leen removed, level with the bottom of the ditch. The ditch must not be of course, any wider than the cans. Gophers travel at night and, on trying to come into the inclosare tumble into the ditch, and run along until they drop suto the cans. Prof. Wickson, of California, says: As many as fifteen live gophers have be math in one can." These trenches should rusi m the drying vegetarion outside to the
5. Sulphur. A "smoker" or "sulphur gun" should be obtained of the local hard ware establish. ments for about $\$ 1.00$. This gun is made with fthe other, and working up and down over the ther piece, the latter being held firmly with its pointed end in the hole by one hand grasping the long handle, while with the other hand, one pumps, as it were, the fumes down the burrow B. in the figure represents a perforated disk ftting into a smaller pipe, and held in place near the lower or conical end. It is on this plate hat one places pieces of old woollen rags which are set on fire. Upon this burning mass is poured powdered sulphur. When the gun is ex tended the air rushes through the hole in the top When the gun is shat, this hole is closed by lea ther valve within and the air is forced througt the burning sulphur into the burrow. Thi treatment is most effective when the ground is damp. We are inclined to think favorably of this means of riduing a place of gophers. A far as it goes it is cortainly crective, and we are convincel that iu a sum cases of its usa away.

Bisulphide of Carbon. This is a very volatifle liquid, which can be purchased from druggists in one pound bottles. It should never be brought near a light, as it is extremely explosive,
Saturate a piece of cotton half the size of one's fist with this liquid, thrust it into burrow as far as possible and stop the opening tightly with sod and earth. This remedy has been used successfully against the so-called ground squirrel and has been mentioned as a possible remedy for the Pocket Gopher. We have personally tried it on the latter and think it has been effective. We would reserve, however, our final judgment until further trial. Bisulphide of Carbon, like the preceding, is best used when the ground is damp.

1. Poisoned Wheat. This agent, so success fully used against the "ground squirrel" or gray gopher, is sold by druggists in tin cans. The Wakelee brand is considered the best in the market. In the case of a ground squ the a frains are placed at the entraien recomend and the same procedure has been recommende in the case of It should be used in the early at expensif used later the animals would leave it spring. If used later act. It is said to partIy lose its effectiveness by lying for a length of time on damp earth, hence it would do well to place it on some natural object-a stone, a piece of stick or the like, when putting it at the en rance of burrows. It should of course be care fully kent away from children and others ignor ant of its use.
2. Strychnine. We have found this very efflacious. Wholesale druggists sell it eithes powdered or in crystals in $\frac{1}{8}$ oz. vials at the rate of $\$ 1.10$ per oz. Retail dealers charge much full of the poison, will, if properly used, last a long time. It would be far more economical for a number of farmers to unite and purchase one ounce (eight vials) at wholesale. If the crystals are purchased they can be easily reducen ha pown for mith powdered atrych poisoned pieces it to very good advantage.

A piece of potato, twice the size of the end joint of ones thumb, is poisoned by introducing into two or three slits in it, a very small amount (barely what one can hold on the very tip of the nife blade) of the strychnine powder. Theu a poon tied to a small stick serves to introduce it or some distance into the hole. Gophers aro passionately fond of potatoes and, apparently est the poisoned pieces with avidity. Mr. Clark Walters, of Athens, says : "I have killei very many gophers by putting poisoned potatoes on the end of sticks and thrusting them down their burrows. So eager are they for the potato that they wili often consume that part of the stick which is moistened with the juice.
In the experiments here, the poison was put out sbout noon, or in the atth bling whe gress they can reach from the burrow beging Thi opening is the opening of the branch burrow, which extends a foot or two in a elanting direction into the main runway, so it has been a comparatively easy matter to run the has down into the main burrow. Of course there are opportunities for failure in this method and in every other; the gopher may be pushing a lot of earth before him and shove the bait out of the hole before he has scented it, rendering it useless, hence the first attempt may be unsuccessful occassionally ; but do not be discouraged, it may be necessary to try them several times. To render bait more attractive it might be touched with the cork from a bottle containing oil of rhodium It is well to put two pieces of the potato in each runway, inserting, by means of a long-handled spoon, one piece on one side of the branch burrow, and a second piece on the other side.
Further, the poison might be attisguised by making a syrup of sugar and water and adding the strychnine with perhaps a drop or two of al
of rhodium. Strychnine is a deadly poison and we cannot en too carer are children. Keep it under lock and where there are chits use to no me who is not erfectly reasonde and well aware of its danger perfectly resp.
ous qualities.

The grey gopher
This squirrel-like gopher (Spermophilus beecheyi) masquerades in this State and in California under the name of "ground squirrel." It is on the border line, as it were, between the squirrels and gophers, though really belonging to the latter family. Its wide spread devastations are too well-known to need comment here. Our wheat crop and fruit trees especially, are the sufferers.
rembites
"Smokers" or "sulphur guns" used as above outlined. Bisulphide of Carbon when the soil is
damp, as directed for the pocket gopher, and damp, as directed or the pocket gopher, and
poisoned wheat, are all effective. poisoned $\begin{aligned} & \text { To prevent ""ground syuirrels" from gnawing } \\ & \text { fruit trees or climbing the tree after the fruit, }\end{aligned}$ fruit trees or climbing the tree after the fruit, a California orchadist suggests a may that four
round the tree trunk in such a way inches of the paper at the upper edge extends
out. The rattling of the paper when the out. The rattling of the paper when the
squirrels attempt to cross it will frighten them. squirrels attempt
The following receipt is recommended as making very effective poison: Add nine gallons of water to one hundred pounds of wheat. To this add one pound of phosphorus, one pound of
sugar, and one ounce of oil of rhodium. Bring
 morning stir in enough flour to make a kind of paste. Scatter this over ground frequented by
the auimals.

Hope Farm, St. Jeam Baptiste. There are few points in Manitoba with greater ttractions for the true ag, iculturiat than this farm. In company with Mr. Martin, the enter prising proprietor, we made a hurried run there few days ago and saw the farm in its summer clothes. The large fields of wheat promise well as do the roots and other crops. The farm generally has a decidedly pleasing appearance, We are pleased to be able to announce that ou September number will contain an illustratio of the excellent bulldings and details of the wor farm there.

## The Crops.

Throughout the Province the crops are simply magnificent. Few place the average of wheat b low twenty bushels per acre and some at twenly five. In some localities it will reach thirty. The vicinity of Brandon promises well, as does the whole district along the line of the C. P. K. from the west. Around Souris (Phem Stean the prospects never wore Baptiste the fields are magnificent and wally repre. to swell the averally equal to that of 1887 and sent the cor more la Prairie has had much less rain than other portions of he Province, although usually more favored than other parts and if the yield reaches twenty bushels per acre it will be the outside figure, and it will require a longer season than usual for the yield to reach that. Of course some are placing the average for the Province away up, even as high as thirty bushels per acre, and
while some fields may reach even fifty the averwhile some fields may reach ev
age will not be far from twenty
Farmers' Institutes and Emigration.
"The strength of a nation is the homes of its people." A people happy and contented in their homes are a powerful people. There is no picture that has as great an influence on an enteng farm life. There are thousands of such happy farm life. There are West, but those who homes in mand is a considerable extent iso from their fellowmen, and this fact renders them hackward and retiring in their disposition and backward and retiring their own immediate locality. In view of these facts Farners' Institutes should prove highly beneficial in inducing immigration. What would give the young men or others in the eas a more exalted idea of Manitoha farming than the published proceedings and discussions of Farmers' Institutes throughout the conntry ${ }^{2}$ Our Local Government has mate a very good move in granting aid to Farmers' Institutes but have stopped a little short of the mark, and while the grant of fifty cents per member for al paid-up members up to a hundred, is a more the right direction, it might have been better to have, for the first yoar at leas', provided for an organizer for the first couple of months. usual a pathy shown much the result of a lack
ments is not so appreciation is a hesitancy to undertake orgam ation, and more especially as there is a considerthe Act as it now exists. An organizer acm tomed to such work could in one or two months
each season do a vast amount of nsef ful work that would be yaluable to the farmers direct

The Future Dairy Cow for Canada. Sir,-There having appeared two letters in the
Montreal Witness, advocating the Canadian cow, I Mon treal Witness, advocating the Cana sense than, I to be misled by such prejudice. We have had quite an experience with the Canadian cow, and
tind that a few will milk well for a while, but nd that a few will mill well almost exclusively on straw during the winter for generations, has made this a fixed habit.
The Canadian cow is but a scrub, coarse and The Canadian cow is but a scrub, coarse and
homely, without any definite shape or color, and is neither profitable nor ornamental ; while we
have, in the Ayrshire, a cow that has been bred exclusively for the dairy a century or more beautiful in shape, and fancy in color-a lovely brown, nicely spotted, and speckled with white.
Why, Jacob chose the spotted and speckled, so you see he had an Ayrshire fancy. And, as the Scotchman said to Professor Brown, of Guelph,
when asked why they preferred the Ayrshires, replied: "She was the coo to mack the siller." And that is what we all are trying to get
besides, I know of no animat, that will respond more readily to kind and generous treatment than the Ayrshire cow. In short, she is a thing of beauty and a joy for eve
J. R. S. has, no doubt, found the Ayrshire cow profitabie. There is a table cow be oftener He infers that a obtained from well established breeds that have been cultivated in one line for breeds that have good qualities having been thus established and Cominsmitted from generation to generation. Common sense would teach us that such animals, as a rule, are more profitable than a nondescript, descended for generations from animals that have been bred at hap-hazard without any especial object in view. A great many farmers, especially new beginners, fall into error by supposing, because an animal is purely bred and duly registered, it is sure to be profit able. This is not always so, nor will it ever be thongh, each year we hope to see fewer and fewer unprofitable animals recorded. If your means will allow you to buy pure-bred cows, select those which have the qualties you desire, Do not, in any case, buy an in eistored but because it is registercd or fay bog stock among get a gairy breeds. a good animal is one that the cairy brotsle a forn for consumed ; the yiener the profit the better the cow. For her to teater the pabreeder, her dams and sires, forgen: erations, must have possessed the same qualities. Such a one may be termed a good animal and no ather. In selecting and breeding animals, de termine what you want and buy, and breed along that line. Other farmers again fall into error by supposing that there are few or no goon Lows but those that are pure bred or high grades This is also a mistake ; many gool milkers may he found among the common cattle, but they are obtained much less frequently than among pure brels or high graues, and, generaly speaking are not to be depended on as breeters. Thei produce may be good mikers ant trey wry not IT we wish toatrance, nothing
 minnars that ravo eotablish a type is computed that only one-third of the cows in merica are kept at a profit to their owners me third just pay their way, the others are kep A a loss. All cows should be tested frequent hiat the quner may know to what third his cow

All whu pass throwh the door of success will

Trial Sulbscription.
We will send the Farmer's advocate on January 1891 for 25 cents.
We wish each of our subscribers to send us four now names, accompanied by $\$ 1.00$, for which we will send the Advocate to each of the new sub scribers up to January 1991, and to the person who sends us the new names we will forward, post paid, a copy of our famous picture "Canada'

## Herd and Stud Books

Our office is fully equipped with all the herd and stud books published in Canada, as well as the Clydesdale Stud Book published by the Clydesdale Horse Society of Great Britain an Ireland. These books may be consuted by any of our subscribers who are interosted podgrees. We are pleased to acknowledge the furth
courtesy of Mr. Arch. McNeilage, Secretary ourtesy of Mr. Arch. Clydesdale Society of Great Britain and Ireland, in sending us the back numbers of th

The Dominion Dairy Commis sioner's Proposed Mee ings in Manitoba
Just as our July issue had gone to press a letter was received from Professor J. W. Robertto the meetings he purposes holding in this Province and the adjoining Territories. We are pleasad to see that the Professor has the Territories than he expected to be able to do when he wrote us early in the season. It is the intention to hold six meetings in Manitoba and nine in the Territories. The Manitoba meetings will be held as follows : Winnipeg, Wednesday, August 13th ; Manitou, Friday 18th; Glen. day 16 th ; Brandon, Tuesday 19th ; Portage 1a Prairle, Wednesday N W Thi programmé point on the M. Wy be to is provisionalatly but it will be adhered to as change it signt. We cannot urge upon our closely as pos andy these metings The Professor has the happy and decidedly rare faculty of making his hearers listen to the end whether they are especially interested in his subject or not, and has a store of knowledge on dairy subjects equalled by few of his contemporaries. The American dairy papers pronounce him the best authority on cheese-making on the American Continent, while his knowledge of butter-making is equalled by few. He began his dairy hife as a cheese-maker learning the business in enhe actownhip, Norfolk Harris, of Salford, Dereured, or more properly speaking, developed a tacility for public speaking in a Good templars Loage, and by teaching taken an active part in Farmers' Institute work in Ontario, and has on several occasions spen his holidays in the Western States giving lecture on dairying. Those who can make
to attend his meetings here will not regret it.
We have had the pleasure of a visit to Kings wood Stock Farm, and of seeing the recent of th best American herds. The Kingswood herd, thu reinforced, is well worthy a visit from all inter ested in fine stock. The year olscs. Greig pai S1,000, is an especially fine animal, and a early issue of the ADPocate will contain al illustration of him, with a detailed review of the

## Building a Trout Pond

 Sir,-Being desirous of building a trout pond, and as I think I have a good place for one, and as I do not know anything, perhaps you could give me some information. 18t. What size 2da. How, and what feed do fish require ? 3rd. Where could I get fish to stock a small dam. By answering abN. Dent.

As you are desirous of building a trout pond and rearing the most delicious and gamy fish of our waters, viz., speckled trout, I will hurriedly ive answers to the questions you desire inform a good place for a pond. Now having a good place for a pond does not cover the point only so far as the land is concerned, the essential part to have good pure water to fill your pond with, and that it should be cold, limpid, running water from a living stream or from springs jutting out of the earth. In any case the water should not get above $55^{\circ}$ to $60^{\circ}$ of temperature in the hottest summer months, a higher temperature will not warrant success in the raising of any of salmonoid family. These include in our Canadian waters, salmon, salmon trout, specked the higher order of fishes. The lower orders or families take in the spring spawning fishes, sueb familes take as ill , ins and fish these latter named fish can be tried in water of a very high temperature running up to $70^{\circ}$ and $80^{\circ}$, and only take a few days or a few weeks for their eggs to hateh: Whilst the salmonoids, being fall spawners, take from five to six months to hatch the embryos. Temperature is therefore the medium which regulates the time in which the young fish breaks forth from the egg. From these remarks you will see the necessicy of filling your pond with cold stream or spring water, if you want to be successful in growing speckled trout. Next as to size of pond, briefly, $I$ would say, the larger the better, if you have sufficient supply of living water to fill it, and keep it full. The larger the surface area, the larger supply of natural food will be produced, and consequently you can grow more ish, and larger ones than in circumscribed limits. It is just like rearing cattle or other animals on land, the larger the pasturage area the more feed there will be, and consequently more cattle can be kept, and they will thrive As to the depth of your pocond portions of it should be pretty deep, say six eight or ten feet, when be pretty deep, say six, eight or ten feet, when
ice will not form to reach the bottom, but large portion of the pond may only run from six inches along the edges, and gradually increasing in depth, till you reach your maximum depth whatever that may be. The shallower parts will give the most natural food for your trout, especially where anyatic plant or vegetation of any kind are produced; as upon these plants insect life of various kinds feed, and produce their young Whitch in turu are being fed upon by the fish which inhalit the ponds. Without vegetation on land, no animal life coulú be produced or grown ; withsut vegetation in the water, insect or fish life com? I not exist, hence the baneful effects effects sto. in streams, its resinous, poisonous effects st... 11 vegetation, and consequently, in
your pond has a large surface area, and produces plenty of insect life from the aquatic plants from the absence of these last mentioned re quirements articial feeding has to be resorted to, finely chopped bier or meat of any kind, can be sparsely scattered here and there to the fish You ask whers youl could get fish to supply your pord. This can be readily answered It may be too late in the season just now, but this you can find out by writing to the officer of the government fish hatchery at Neweastle, Ont, immediately, and if any speckled trout fry are still on hand, you could get them by paying $\$ 2.25$ per thousand at the establishment, and transporting them to your pond, where if all the requisites above related are to be had, and your dam safely and securely made, you will, in the course of two or three years, have an abundance of speckled beauties, varying from six to ten and twelve inches long. Keep the little boy and the man poacher off your poud, allow honest angling with hook, line and Hly only; uphold the law in its entirety, Soptember to the 1st of May, and you will be recompensed for your outlay and troubl

## Permanent Pastures vs. Frequent

 Seeding.We hear a great deal about the advisability of laying down permanent pastures. These are very desirable on rocky ground, and on such other land an ald fin ther on good arabie fiela temporary pastures are the most prontaio, and mor the seral Western Territories will be brought into cultiva Western formy alover are in the east. Even in Europe permanent pastures are not as popular as they once were. The editor of the Eng lish Agricultural Gazette, in a recent issue, says "We arenotanxious to see too greatencouragement given to the conversion of arable lands into permaent pastures, because we believe that temporary pastures, as a rule, pay better. The system of aternative husbandry is certainly more produc pastoral system." All over the country we find and in grass that is not producing one half the profit it would if broken up, cropped for an interval, and again reseeded. A system in vogue field many excelent farmers in Ontario is to seed fotherch clover and perhaps a sigght mixture fay or grasses, from this they cut one crop of far pasture a season. This is bet done by eutting the sras ealy pasturing antil the 20th of Juss after the sed is gathered the land is immediately plowed p, put in crop and soon again reseedod sometimes the soce by this system many farmera being in creased the fertility of their farms anch reseed and now up large acres each year An Ontario farmer with whom we are well cquainted has doubled the productiveness of his and by this method within the last five years Clover cannot be used in this way in Manitoba
but every intelligent western farmer shoul watch carefully the native grasses and see some sort cannot in fore east.
that clover holds in the
The "slow cow usually pays the farmer bette

How to Keep Up the Wertaluty Our Farms by $\mathbb{B}$ reeding Cattle and Sheep, and Feeding

## eep, and for Profit.

> Continued from Julv issue.)

The sheep industry is one of the most profil ble for the money invested, when carried on i limited or economical manner in small flock am sorry to have to state that this nobl dustry has come to be a soil-robbing system. portion of the grain product should be fed every winter on the farms where it is produced. Do not sell but part of your lambs in that of them at home ; finish them to weigh 140 lbs. in July ; they are worth $4 \frac{1}{2}$ to 5 cents per pound live weight to ship to England. That price and their fleeces will pay you. For example: A lamb costs $\$ 4$, feed $\$ 2.50$, total $\$ 6.50$; 140 lbs . of July, at $4 \frac{1}{2}$ cents per pound, $\$ 6.30$, add fleece, $\$ 1.20$, makes $\$ 7.50$, which leaves a clear profit of one dollar for each sheep, not counting the manure. In conclusion, let us sum up the different branches that I have endeavored to discuss. I have admitted that it 18 hard to show large profits in favor of the breeders and feeders feed consumed. Yask you what industry, connected with agricil y in will any that make a better shqipig? But I will say that I have not valued the manure managed breeding farm $\$ 8$ per head for every bullock fed each year ; for the light steers, $\$ 6$; the heavy steers, $\$ 8$, and for the sheep $\$ 1$ per head. If these methods are adopted and con. tinued it will restore our lands to a high state of fertility, and all our cereal crops will be increas. ed from 10 to 20 bushels per acre, according to the location and strength of our soils.
The farmers of Ontario should finish a number of the stock raised on their farms every year either by winter feeding for beef or mutton or feeding through to be finished on the grass, This is the only true system to keep up the fertility of our farms and realize the true valu four stock produced thereon
To attain the best results in breeding and feeding requires regularity in every detail, and ind treatment. A mixed ration, and see to it that you do not waste a large by feeding too much. A git and bring about fed, wirt produce ether fall he man wale animal loses much of his feed. No tany will take exception to what have said. I ask them to look around through their own ueighborhoods for proof. Is it not an igg any ou find in the best condition, and their home There is anothere way to look at this importan question. Are not many shutting their door as far as educating their families are concerned is necessary to the prosperity of our familes, we must get our sons and daughters interesited in early life, or we find them drifting from home, nd from our own freside, to the the gambling
vain amusements ; from there to the tables, just because we did not get them interest ed in some one of the branches which should be iractically carried on at home.
it should be, there are so many branches that every member of our family can be interested in
one branch or the other, as his or her taste may be, thereby becoming a practical producer and be, there
ceducator.

## Ensilage

heap production must be kept in view on the arm as well as in the factory, and every avail. able means will have to be brought 0 bear ccomplish this He this iderable towaras solvig all the older parts f the country will have to give more attention the live stock and dairy departments, and the cheaper the production of feed is just where the profits of feeding stock for any purpose where the profits of feeding stock ver a wonderfully rapid growth and a great weight of stuff per acre; against which we have a long season at which growth is at a stand still. Consequently we have to fall back on the food supply that is husbanded through our growing season. It has long ago been determined that all dry rations cannot be fed to the best advantage through our long winters.
Horses and cattle rapidly lay on flesh when placed on the nutritious grass of early summer. This has two reasons, the food is in the most palatable form, and is in the casion assimilation ; therefore, animals feeding on pasture partake very freely of it, and on acco the of it being easily nutrinent forture condition tha Fy $8 \%$ nutritious ratio, and are only credited with $1 \%$ fat but any one who has fed roots knows full well the benefit of feeding them particularly in conjunction with dry food. When we remember the number of cattle we have seen that have been fattened with advantage upon roots and straw, with very little else added to the ration, we are almost tempted to exclaim that analysis are at fault, but analysis only gives $4 \%$ nutritious ratio for ordinary pasture grass, with $0.4 \%$ fat. In both the foregoing tho resturs are anke showing the advantage of food being placed before the animal in as palatable shape as possi ble as well as in such a sotcied form hat immediately be acted upan by the animal fed. Chis is what the nutriment see of ensilage, not ongy is allo in the silo ctained in crop hronly undergone it shoult hin the very next possible stato to feeding grass
 the inmense bulk and weight obtained per acre But to particularise, it is not now necessary to build as expensively as it was thought when silage first came into notice.
The common plan now is to utilize one end d the store barn, then by taking off all the old siding, and by studding with scantling $2 x$ x using tar-paper on the studding outside, then by using the ordinary ${ }^{\prime}$ siding over this wher ever it comes to the weather, and boarding in on the inside, and coating this with hot coal tal and applying the tar paper in the same way a lapering a room. liy this a perfectly frost prow and air-tight compart ment will he formed.
tar-paler also helps to preserve the hoards, and by this means ensilage cau be kept in a mou perfect state. For the bottom, perfect draina, is the first necessity, fhen, by all will be read for filling This is often done by placing the for tilling. outside and havine carriers arrancei there. The cut corn can then be easily carriou there. Cheche for filling. Two of these, a
 having it fall some distance from the end of the
carriers time will be saved by those in charge at carriers time will god way of carrying corn is to
the barn. A geo
take off the back pieee of the ordinary hay-rack and change the wheels round by placing the front wheels on the hind axle. This lowers the
hind end of the rack, and by having a plank come out at the bottom those loading can easily carry the corn up on to the rack. By having the corn nearly as ripe as is required for
cutting, and using such corn as will mature cutting, and using such corn as wilage can be made. Then, by filling and tramping corners moderately the process will be quite successfully
attained. It is still believed, by those who have attained. It is both methods of taking out of the silo, that moderately narrow compartments give the best results, as by so doing the silage is in the best
state. As is often the case, the waste stuff accumulates and spoils, and of course ruins what is good, hence much depends on taking and keeping it fresh right up to feeding, for
animals very soon tire and loathe food that animals very soon tire and
not perfectly fresh and sweet, as is evidenced by not perfectly fresh and sweel, as in the fing sweet hay from a stack and that fed from a loft above where stock has been housed. In looking into the cheaphess of
this storing feed it is found that something like $\$ 3.00$ per head will cover the cost of the building required. For cattle feeding, there is no doubt that ensilage might profitais no dombt that green corn is not a perfect feed of itself. When the and shock up, and loaded with bars, it will feed
grain is in the glazed state, or just ready to and shock up, and and as profitably as at any other time, and by placing it in the silo at this stage it uill The softening thus performed is also of benefit in cattle feeding, and is much more palatable husking, shelling and grinding, will not only cost far more, but still leaves the difficulty o

Application of Chemistry and Geology to Agriculture

Continued from July issue,

mffelent kinds and states of matter.
Atr the kime cor live, the atmosphere which surrounds us, or in anto two great groups of organic and inorganis matter. The solid rocks and earth, the atmos where, the waters of the sea and ocean, or, in short, everything which is and which has been devoid of life, is classed under the head of in rganic substances. On the other hand, all horlies, whether animals or plants or their re mains, are classed as orgamic matter. The latter appear, and are of a striteture readily perceiven by the eye as in the pores of wood or the lean of meat, and are thus readily distinguished from horganic matter. This distinction is Verything which has lived or perormed any of watter, and everything else is inorganic. Al hough the rocks and soil (the latter in its pure yost hatter) Le coal which we often find down deep in the arth, or the limestone which is made up of wultitules of skeletons and shells of minute mimals, are organie substances, the former being harg plants and trees which have fallen an luayn and hecu huried in the earth caused b

I:ur in many sulnstances of organic origin also,
and gum, and are formed in plants in great bundance, which do not present any pores or bres, not being endowed with organs, but are produced by the agency of living organs, and are ncluded under the name of organic matter When plants and animals die their bodies undergo decay, but still the mold is considered as organic matter, and form plant food for the yrowth of other plants when made available.
Again, heat chars and destroys wood, starch and gum, changing it into a black substance totally unlike the original substance acted upon. If you distill wood it produces tar and vinegar, and if sugar be fermented it is first changed into alcohol and then into vinegar. All substances thus derived from vegetable or animal products are included under the general designation of organic bodies. Mubje, a piece of hmeston sue sed han arbonia but mueh more lifleit en be separated into carbon and arygen, and the metal calcium and oxygen. These component parts can not be separated furt it is fruitless under every known chemical process and they remsin carbon, oxygen and calcium. These ultimate unchangeable sabstances are called elementary bodies, and those which are formed from the union of two or more of them are called compound bodies. There substances which are recognized 65 elementary pound bodies which exist, and are formed by combinations of the elementary bodies, are infinite in their variety. The rocky and earthy crust of the globe, the ocean, the atmosphere, the plants and the animals, are all made up of diversified forms which man can no more number than the sand upon the sea shore. It is one of those wonders of nature wrought by the infinite power and wisdom or our Creator, and a the same time should be of great interest to the farmer as he goes about his daily toil with an observant eye and thoughtful mind, as they are so to speak, the raw materials from which he enabled, by his skill and industry, to feed the redur few of the sixty. five elementary substances by a very most complicated system of combinations. This is astonishing , yet it is more so that nearly the whole mass of these vegetable and animal pro Jucts consist of and may be resolved into, one or more of four of these simple substances. When any vegetable or animal substance be comes decayed, or is burned, it either entirely disappears or leaves behind it only a small uantity of ash. Oil, fats, gum, starch, cotton ore, horn, hair, \&c., when burned, either disappear altogether or leave only a small remnant
vehind, while wood or flesh leaves only a small quantity of earthy matter or ash unconsumed sist of three of the elementry bodies, and rarely of four. All of the agricultural products for the greater part, inclusive of the combustible and welve. The four referred to are carbon, oxygen hydrogen and mintrogen. The twelve consist of hlosphorous, potassium, chilicon, magnesiun ulphur. Particular attention should be paid to these by the student, as they will come up in
hese pages again and be treated in their proper
${ }^{\text {Crder. }}$ But a knowledge of the first four elements mentioned is indispensible to the farmer, for without he cannot comprehend the laws which
control the operations of nature in the growth of
plants, or the reason thy he adopts cortain processes in his farm work to aid and facirleate hime
in successful husbandry. He should also have in successledge of the remaining eight elementary substapces which enter more or less into the ash or incombustible mineral portion of the plants which he cuttrates, mineral manures in which the soil is defective for the successful solubility of plant food. properties of these organic constituents of plants properties of these organic constituents of plants further inquiries-considering by what means, or in what shape, they enter into the circulation
of plants, and how, when they have so entered, of plants, and how, when they
they are converted or changed into those subthey are converted or the skeleton of the plant con sists or which are produced in its several organs,
and afterwards treating the other eight in their proper order.

## [to be continued.]

Farmers' Organizations。
In 1775, when the inhabitants of the thirteen states then existing on the North American Continent, afterwards known as the noted Stamp Act, which was the climax of what they considered tyranical legislation, a device of a snake divided into thirteen parts and underneath the legend " join cr die," was sent to each of the different states. Out of the union that followed has grown one of the greatest nations of the earth. Of late years manufacturing concerns have found it advisable to unite and by a congreater success of business than was possible before. The laboring men and mechanics, by anion, have been able to secure at least shorter hours of labor, and in some instances even in this, the infancy of organization, to visibly affect the results of elections. Farmers are least mind fol of the benefits to be derived from organization of any class, while the benefits to them would be equally as great if not greater. An Manitoba here is especial of orgization. A , country, in which farming las of noesocister a certain extent experimeral, must in $m o s$ no bor bere it can be granted It is to be that local institutes will be formed in many places this season, and when a sufficient number hes been formed a central institute, composed of deligates from local institutes, and meeting once a year, might be advis able. One thing is certain, if advantage is no taken of the Act re the formation of Institutes, the Government will not be likely to grant more aid, while if it is taken advantage of there will be good grounds for asking for more assistance and greater facilities for carrying on the wark. Full information $r$ the formation of institutes will be given on application to the Department of Agriculture, Winnipeg.
It is remarkably suggestive that at the
creaneries and cheese factories, where a of milk tusting has, been employed, the milk contains much more butter fat than formerly. We
have al.ways advocated testing milk and allow. ing ali it is worth and nothing more, but we had no tilea that it would have such a magical

As a roult of a cross of the Hackney blood,
throut Iirelly on his Judge Curtis mare, Mr. W. I' with, of Portage la Prairie, President of
the Pondice and Lake Side Agricultual Society lhe ante and Lake side Agricultual Society,
las. of. mith believes in mixed farming, aud
evidn anixed business, as he has alluady evid wity a mixed business, as he has alleady
over a
well.

Cammington Manor and Vicinity. A representative of the AdVocate, having been driven from Moosomin to Elphinholm Farm by the genial proprietor, Mr. R. J. Phinn, felt an intense desire to cross the intervening
expanse of prairie and visit the stockmen of Cannington Manor. Mr. Phinn kindly placed at his disposal a buckboard and a broncho and decided to go along himsel. Whoche, of Mc ight repairs Mr. Neil McConnachie, of McCrotting bred stallion \$atchen Golddust. Be ides Patchen Golddust the Messrs. Mc Connachie Bros. have the following Clydesdale stallions, Young Baron Lennox 2245, A. C. S. Argyle [1073]. These horses are all making good seasons and the enterprise of the firm in importing them will be of great benefit to that section of the country. Leaving Cannington Manor on the left the stock farm of Mr. D. F. Boissevain, Moose Mountain, is reached. Mr. Boissevain is an enthusiast in stock, but it is difficult to discern which are his favorites, the Shorthorns or Holsteins, although he has a goodly number of the former and but few of the gatter. At the head of the herd of Shorthorn buke of blythwood, an excelfent animat, in Territoriss. In the herd is the beautiful roan Cow Maid of Irvine . the four-year-old roan Di Vernon; the young red cow Ruby of Carlisle, and the nineteen months oid heifer Sylvan Beauty. Other excelrent a which win herd, a more complete review of which-wil probably appear in these colums at some futur
date.
Leaving this farm in the morning and pro ceeding south along the foot of Moose Mountain the farm of Mr. Han is some of the best farm the this westorn col throw with hot air stone structure feated and elo with stone basement beneat plement shicd, ioultry house stands on a bank facing end when the floors are laid in the lower ant will be very comfortable and well danted to the requirements of the occupants In the yards were a few pure-bred Large York In the yars imported from Ormsby \& Chapman Springfield-on-the-Credit, Ont., and others cros between Berkshires and Yorkshires. In the pasture was a nice little herd of Galloways, some of which were bred in Ontario and others in Sco tand. Professor Troquhain 4593 (5942), bred by Mrs. Wilson, New Galloway, Scotland, and iniported by Thomas McRae, Guelph, Ont., is at the head of the berd. This animal is a typical Gailo way, being of good length and substance, and beef right down to the hocks. He was three years old last January and would now weigh close to eighteen hundred pounds. He was a winner at the Provincial Fair, Kingston ; the Industrial, Toronto, and the western Fair, London, in the fine, large, three year-old cow, bred by Mr Biggar, of Dalbeattie, Scotland, and a good beast in many ways, but a little coarse. McRee of Janefield 4621 (110/4), bred oy thos. Mer ant Guelph, Ont, is a very 1 .ce, mai of excenent yuahy. Sherman, Balig Kirkcudbright, Scotland, is very much like

Blackie of Janefield, and the two make a pretty pair. Hebe 5th of Drumlaurig 1981 (10330) is iso a fine animal and a credit to the herd. Hebe 5th was bred by the Duke of Bucclench, Thornhill, Scotland. The Messrs. Hansen father and two sons), have been for many years sidents of Constantinopre, the capital of urkey, in Europe, but are delighted with th Turkey,
change.
From
From this farm to that of Mr. E. C. Pierce President of the East Moose Mountain $\triangle$ gricul aral Society, is the work of but a halr hour co ar now arry heor Scotch Shorthorns, ad his 1 th the exception of the bull at his [10845] was a pasture at ton great sistan of acenting an in station to however, an opportunity was forded of inspecting the poultry of Miss Lilley Fierce, sister of our host. Miss Pierce is an en husiastic fancier and has some very nice Buff Cochins and Brown Leghorns.
Starting for home a call was made at the farm of Beckton Bros. to see the thoroughbred hors ase Philips. This horse is a good representa ive of the thoroughbred, having a fine head courageous, intelligent eye, fine, beautifully rched neck, clean supple limbs and graceful ction peculiar to them. Jase Philips comes of good family, being by Great Tom a son of the Great King Tom. He stands sixteen hands high and weighs about eleven hundred pounds in mod rate condition. A start was then made for

Pure Bred Cattle Association.
A number of prominent men who are interested fine stock met at Brandon on July 23rd formed themselves into an Association under th above head, , Territories, D. F. Boissevain; Secretary-Treasurer, Wm. Martin Eosshed is represented in the Executive Com Eaitee follows :-Holsteins, A. H. Acton; Pol te Hale : Ayrshires, T. Weld 4 ; Galloways, C. Hansen ; Durhams, Geo. Smillie, John Sherman, Geo. Craig, W. Lester ; Herefords, D. S. Stewart. Constitution, \&c., given in the Sep-

## tember number.

The Brandon Exhilbition
The Brandon Fair was held July 23rd and 24th. The attendance was good. The inside exhibits were not much of a show, poultry were also a poor exhibit. Of the five Shire stallions three were grand representatives ; the othen two were good, the class making plenty or work or the juages. Many or the spelars coincide with the decisions war or chdesaales, and bou two were remarkably fine representatives. A capital display of draught teams was well worth seeing. As might have been expected from the number of high class Jurnams fiat have been brought int fore folls and Holstein cattle were shown, Ath and Breeze Lawn herds of Shorthorns fair prices were obtained. Al. together the exhibition was a pronounced success, the weather being very favorable. The show of implements and agricutural mace forl and prist will be given good. A full reprort and
in the Stptember issue.

Insecticides．
By Prof．A．J．Cook，Michigan Agrioultura

## （Continued from July issue．）

The use of tobacco smoke in closed rooms like forcing houses and conservatories is too well－ known to need remark． For this purpose even stems，or refuse powder， Thich can be got very cheaply in tobacco factories， will answer well．A pound of the tobrcco to two or three gallons of water makes a very effective decoction．I turn the boiling water on to the tobacco，and when cool strain out the tobacco， and the decoction is ready for use．Last summer I found this very effective against the striped flea beetle，and the cucumber flea beetle，both of which insects are often very troubles gardener．If further use confirms this property of the tobacco decoction，we have in it a very valuable insecticide，and may to use．This too experiment to gres I think the best substance ro and for ticks on tion of the kerosene emulsion will kill lamblice，but does not destroy the lice so such hee，and does not leave the hair of the animal looking so well．I have used both and anefer the tobacco．In cold weather，after thoroughly washing the animal to be treated， it should be warmly blanketed，and kept in a warm place until dry．
The work of washing an animal is not great． I have，unaided，washed a large cow in ten min utes，and I did it well．Neither is it a disagree able task．I presume a force pump might bc used in this case，but it would take ore of the decoction，and I ref the 1 know it do the washing thoroughly done．

$$
\begin{aligned}
& \text { Carbohed acid emulsion } \\
& \hline
\end{aligned}
$$

I have now used this substance for nearly twenty years，and have repeated assers of its value my own experience，and from others of its value Entomologists aro beginning to recognize its Entomologists are
value．No fruit grower，or lover of shade trees， canafford to be ignorant of this valuable com－ pound．I make it just as I do the kerosene pomulsion，only stronger．One part of carbolic acid－I used the crude material，but try to ge that of good strength－to from five to seven parts of the soap solution is of the proper strength．
This is the best preparation I know of to pro tect against the apple tree lark lice and apple tree borers．As there are three species of thes borers，all of which are senoustion does for al apple tree，and as one pribly injurious scal he borers tha hare woll four liirds with one lice，we see that here he the aply this we have only to
stone． cloth，roll up your sleeves and with gloved hants if you prefer I omit the gloves－thoroughly scrub the trunks and main branches of the tree， not wetting the foliaye more than we must． This should be applied lifteen or twenty
after the trees blossom．No one can afford t neglect this treatment，especially in case young trees，as trees newly set are specially st ceptible to the borers．In case che little scale or bark lice are present on the trees，they shomlid certainly he washed with this carbolic acid emml．
sion．Newly set maple shate trees should also
t the same date that we France－is a minute plant louse which attack
would scrub the apple trees－for two or three years after transplanting，for they are ala liable to attack from the big－headed borer． We often hear soap，alkaline washes and white wash recommended for these preparations are insects．While all of these preparations are serviceable，they do not equar the carbolic acin emulsion．This latter is cheap，easily made and applied，and vary in May to destroy the codling the apple orcha called＂apple worm＂－nothin perhans in the way of inseet warfare pays the orchardist so well as scrubbing his apple trees in early June with this carbolic acid emulsion．
white hellebore．
This vegetable poison is so mild，that used in mall quantities which I shall recommend，it is buhach，be used as a powder or mixed in water I prefer to apply in the liquid form，as the application may be made more thorough．It should be used about as strong as pyreturum－ one ounce to two gailons of water．This is the best remedy for the earrant slug．It should be thrown forcibly on the foiage－especialy uple， the lower leaves－from below as mucti as possibs and should be appried earry－as insects commence to their for at the bushes are stripper nozzes which all wise．Wo tow the treat the bushes from below．

## the bushes from below

aldo in carion． at because it is unimportant．Indeed it is one of our very best insecticides，and were it not that the vapor is very explosive when mixed with air，and inflammation when fire is brought near，we should place it nearly at the head of the list．Yet with caution in its use，no danger need be feared．It is a compound of sulphur and carbon，one atom of the latter to two of the former，hence its name－bisulphide of cartoon－ and its chemical symbol－$-\mathrm{CS}_{2}$ ．It is formed by passing sulphur funkes over superncatel char coal，or bringing suppiur in conlack charcoal．it is a clear irquid heal water and volatilizes with great rasf times hearer than more lin in able nature it is manufac ir．Prom ts sielt langer．The vapors are aso wwholesome，and as their entire confine went is quite impossible，the manufacture o his limid is attended with much danger，both to health and life．From these causes as well as the extreme volatility of the liquid making its escape from vessels easy and probable，it retails at a high price．If purchased，however，from be purchased for about 10 or 12 cents per pound ncluding the can．The freight is the same on 10 pounds as it is on 100 promus．The raper from this liquid is a most powerfur insecticice and far less expensive than the first two，and 1 anore dangerons to use than the last．It antich used in the arts．Especiany fil from seeds，and as a solvent of rubber．Thus lisausecable odor is not infrenuently．noticell in the shop of the colbler． It is casy to prove that the vapor of this
rance－is a minute roots of grape vines，and in Europe has been very destructive．Baron Thenard，in 1869 recommended the use of bisulphide of carbon to destroy these frightful pests．Holes were mad in the ground by use of iron bars，the liquid furned in and the hole quickly filled．The iquid quickly volatilizes and kills many if no 311 of the lice．One dose is said to be ample for single vine．It requires from to 300 pounds per acre．it afactorily treated in 200,000 acres have been sat single season．Seven in a single season． On the western prairies it is now used extensively and very effectively to destroy the prairie dogs． John H．Elmer，of Kansas，writes：＂I have used bisulphide of carbon to exterminste prairie dog with complete success．It took only five gallong
to rid 120 acres of the burrowing pests．I used to rid 120 acres of the burrowing pests．I use
it as follows ：I rolled up a ball of cotton bat ting the size of a small hen＇s egg，saturated it
with the liguid，threw it into the hole and with the liquid，threw of the latter with earth stopping it air－tight．It was very rare that had to use it twice on one burrow．I bought it directly of the manufacturer，
Cleveland，Ohio，for ten cents per pound．
eveland，Ohio，for ten cents per pound．
Mr．Isaiah Lightner，Mason，Nebraska，writes： ＂I have destroyed the dogs on about 80 acres at a cost of $\$ 30$ ，and increased the value of tive holes．＂
$\$ 500$ ．One pound will do for twenty－fict This seems proof sufficient of the power of this liquid to destroy．We have no prairie dogs in Michigan，but we do have the striped gophers So this information is valuable．
Moreover I have used this same liquid very
siceesfully to destroy ants．I made a hole in successfully to destroy ants．I made a hole in the ant nilf ounce of the liquid，and speedily stopped the mouth of the hole with earth as nearly air－ tight as possible．I do not see why this is not
as good as to nee the cotton，as they do in the as good as to nse the cotton，as they do in the
prairie dog villages on the western plains．I prairie dog villages on the western plains． destroying cabbage maggots that work on or
burrow in the underground stems．Several burrow in the underground stems．Several
others have had a similar success，but in some others have had no succeed，and so I have ceased
soils this does not sur to recommend it
It is not uncommon，as all who have charge of insect cabinets and general museums well under－
stand，to have our specimens that are not stand， thoroughly poisoned attacked and ruined by in－ sects．The larve of Dermestes lardarius，and
several species of Anthrenus insects，closely several species of Anthrenus insects，closed
related to the Buffalo carpet beetle，are the de－ stroyers．It is found that by the use of bisul－ phide of carbon we can very easily and cheaply
destroy these destroyers．With reasonally close cases，we have only to turn a little of the liquid in the case and close the latter nearly air－tight as possible to kill all the infesting insects，even hough with have never tried it，but I believe by judicious use of this powerful insecticide，the extermination of the carpet beetle might be
accomplished with slight cost．Brought into accomplished with slight cost．Brought into
close quarters with this vapor and it woul speedily succumb．Because of the quick ignition and alarming inflammability of this substance， such use A lighted match or cigar brough into a room filled with this vapor，would ver hikely result in death and terrible destructio But great care yatilation had removed the odor would make all safe．The dispersion of the vapor is quick upon the opening of windows an loors，and the unpleasant odor is a quick index
of the presence of the inflammable vapor，so caution alone will iusure safety．
In case of moths，or other clothes infesting in sects，attacking furs，clothing or robes，－any
material that can be put in close sacke or boxe －it is very safe，cheap and easy to destroy the y the we of this liquid．Here as ever we mus ju．．ut for fire wheuever the vapors are ex


Parasitic Plants-The Farmer's Microscopic Foes.
$\mathrm{f}_{\mathrm{J}}$. hoyes Panton, m. A., F.
(Continued from Julv issue.)
Spheria morbosa (Black-knot of plums). ${ }^{-}$This fungus is closely connected with the Ergot of Rye, and by botanists is put in the same order, consequently it is proper that we should discuss its life history at this place in our series of papers upon parasitic plants. An examination of the knot in its earliest stages shows innumerable small, transparent threads only seen by aid of the microscope. They branch among the cells which compose the tissue of the inner bark of the tree, and form the so called mycelium or vegetable part of the fungus. The threads become very cately twisted together in bundles as development proceeds, beginning in the growing layer of the bark and radiating out-
wards. As spring advances, the wards. As increase and reach a Black Knot
it appears on threads increase and reach
more matured condition. growth proceeds the knot assumes-a velve arparance , this is the result of the threadlike structures sending off many short-jointed filaments, on the ends of which are borne eggments, on the ends of which are borne egg.
shaped spores known as conidiospores. (See cut 1.) These are very small, requiring the aid o a microscope to see them. When ripe, they

are pealy disturbed may be bown by the wind are readily disturbed, may be blown by the wind rise to knots similar tothat upon which they were developed. This mode of reproduction in the "knot" continues till the summer is well advanced, when another class of spores begins to develop, and which reach maturity about February. The surface of the knot during

winter shows pores that can be seen by th naked eye ; these open into cavities, on the walls of whith are two kinds of structures, one consisting of slender filaments (paraphy*es) the ase of which is not known ; the other club shaped ( $1 \times=1)^{\prime}$. In the asci towards the close in winter ".wownor*s are developed, usually eight ,out of which the spores come through an pening at the end; these spores
become starting points for the parasitic
nlant, when they reach proper conditions ior also are found among those with the asci; these contain very minute oval spores divided by cross partitions into three parts, and borne on slender stalks. These are called stylospores, the use of which is not known, but they are generaily the species. Still orther cavities exist containing slender filaments (spermatia) which also seem to be concerned in reproduction. Besides the cavities referred to, sometimes spaces more flat tened than these and in some cases showing a triangular form appear; they are limed with short, delicate firaments that cid in a minute oval body. These bodies are prodeco ill great numbers and aro discluarge folly They have held toget bil been called with the perpetnation of the fungus connected with the perpetic plant we have then five kinds of reproductive organs, viz : conidiofive spycnidiospores, all more or less connected with the spread of the fungus. Of these by far the most important are the conidiospores and the ascospores. Until the true nature of this fungus became known it was generally believed that the "knots" were caused by insects, but since the life history of the plant has been made out the insect theory has been abandoned. The following objections may be made against it: (1) The knots do not resemble galls made by insects. (2) Insects may be found in old knots, but seldom if ever in young. (3) The insects are of various species, some of which are found on trees where knots never occur. (4) Wherever the knot is found the fungus described invariably is present and is never seen but associated with the knot and can be observed in the stem before anything like a knot is visible.

## remedies.

1. Hitherto most orchardists have found the best thing to do is to cut off affected limbs and destroy them.
2. Some experiments in applying linseecĩ oii to the knots with a small brush so as to saturate he knot have been chected. ir son as the knots appear.
. Cual oil may be used, but it must be applied sarefully. If it runs over the branch it will kill
3. Wild choke.cherry trees near orchards should regard is paid to the law which requires affected trees to be destroyed. These trees are scattering millions of spores yearly, and thus spreading the disease to all parts of the Province, Blighted trees stand as monuments of enould co operate in fighting against a common foe.
Scraps of fat meat and "dabs" of spoiled greas have been added to the soapgrease supply dur spring the stench arising from it and the vermin crawling through it are something horrible, but in must go into the soap-kettle together. improvement in fifty years. Why not obviate all the unpleasant part of soapmaking by letting the soapgrease vessel contain a quantity of ly
and throw the grease in that from day to day and throw the grease in that from day to day time arrives more lye should be added, and al boiled up together. Thus one will have clean

Poultry Literature.
There is without doubt more "nonsense written on poultry culture than any other branch of agriculture. Some amateur, who ha kept fowls for one season with good results, roduc the surroundings were to favalusio produce bad results, jumps at the conclusio hat he knows all about the business, and seize his pencil with the honest impression that has a great mission to fulfil in enlightening the human race on poultry culture. It is remarkable how some men with a single season's experienco will dilate on the merits of the various breeds, their harainess, ac., da firly are wolvaivel $\gamma$ men ind wrion brop tested th there an the tion intor antion tancus can be reached, that it is venturing on dangerous ground to assert that "such a breed "is the most profitable. The most per. sistent layers are not of necessity the most profitable. If a hen lays an egg every day and the egg is worth one and a half cents, it is quite natural to say she is an excellent hen and very profitable, but if she consumes two cents worth of feed to produce this egg it is evident she is very unprofitable. Among the varieties of this class the Brahmas are proverbial for their consumption of food, and the Plymouth Rocks are in most instances lauded as the most profitable of all breeds. During the winter of $1885-6$ a reliable breeder of our acquaintance kopt six Brahmas in one house and four Plgmouth Rocks in another, immediately adjoining. Now these flocks were fed precisely the same amount of everything day after day, were watered at the same hour and treated precisely the same in eng the There was a cock in cackin athen would nurnber five Brahmas and laree Plymouth Rocks. The Hy burg the months of January and twenty eggs durch, or forty eggs each. The Rebruary wondred and seventy-six, or a little Brer thirty-five each. It would thus seem, if no account had been taken of the food, that the Plymouth Rock was more profitable as she laid five eggs more than the Brahma each, but when it is taken into consideration that the same food fed to each gave thirty-six eggs more from the Brahmas or twenty-five per cent greater profit on the food consumed, it must be admitted the Brahma was in this instance more profitable tha the Plymouth Rock. It is not the object of this article to prove Brahmas more profitable than Plymouth Rocks, and if it was, the instance re ferred to could not be accepted as conclusive, be cause one swallow does not make summer by any means, but it does show tow easity the amater may be misled and how much miseliel he may in misleading others, and not oaware and himself. The prodact of hole only profitatie as iten then
 are copied verbatim by even "agry farmers," somio of whom could not hold a plough across their garden, much less milk a cow or make a poun garden, mu
of butter.

Clubbing Rates.
Any of our subscribers who will send us the bames of four new subscribers, accompanted 8.00, will received the ADVOCATR free for on year, and will also receive one of our
subscription pitures "Canada's Pride."

## A. Proposed Live Stock Insurance Company.

Prospectus of a Mutual Live Stock Insurance Company, for the insurance of live stock in the Province of Manitoba, to be known as.
itoba Live Stock Insurance Company,
The following are the general conditions and The following are the general conditions and provisions conduct this Company.
In order to raise the sum
In order to raise the sum of $\$ 5,000$ to be deposited with the Government, shares or subscripissued. These shares will bear interest at the rate of $7 \%$ per annum, to be paid to the shareholders annually by the Company
The $\$ 5,000$ received from the sale of shares will be invested in provincial or municipal debentures or some other acceptable interest-bear ing securities, and these securities will be de posited with the Government in lieu of the money, and if any difference between the interest received on the security and that guaranteed shareholders (if less) will be paid out of the current revenue of the Company.

Every insurer will be a member of the Com pany, and shall have such vice the manage ment as the by-laws or the statute shall deter mine.
In order to pay losses and working expenses of the company, including interest to shareholders as above provided, premium notes will be taken
from insurers to the amount of $8 \%$ of the amount insured, $2 \%$ of this premium note will be collected in cash at the time of the receiving of the application for insurance and will be credited on the notes.
assessments will be made thereafter, as money will be required, in the manner provided by the laws and regulations in that behalf, but in no case to exceed the amount of note
All kinds of live stock such as horses, cattle, sheep and pigs, will lie insured, but no animal will be insured for a larger sum than $\$ 1,000$, nor for more than two-thirds of its actual cash value.

No stock will be insured for a longer time than one year, and at the expiration of which time the premium note
assessments be paid up. Provision will be made, and liberty will be re-
tained, to retire any portion of the subscribed shares each year after the first year the Company has been in existence in such manuer as may be doemed expedient by the legally appointed board of directors.
The following gentlemen have been appointed as provisional directors until a preliminary meet. ing shall be held for the furtherance of thi
schene, viz:-
The headyuarters of this Association shall be in the town of Maniton, in the Province, of Mauitoba.
In accordance with the comlitions and stipul ations horein contained, and purposes stated, "' the undersigned, do hereby agree to take the number of shares set opposite our respective names in the list hereto annexed, when regnired for tho organization of this Company. In the money will be required.
We also asree that in the cevent of the forma tion of this comprany, to effect insnrance therein, we will lay the amonut set oplpsite our resprec-
tive names as above provided.

Mr. R. D. Foley, of Manitou, is the promoter of this scheme. It is his intention to ask agri cultural societies to nominate directors. 1
 will be framed, in whic prow inspection, agories, ase the directorate as evenly Foley is auxiour sible, ald purposes a sible, am's such an association would be yaluable to breeders if started on a firm basis and conducted properly afterwards. A similar association has heen founded by members of the Canadian Clydesdale Association. Full particulars could be obtained by addressing Wm. Smith, M. P., Columbus, Ont. A copy of their constitution, by-laws, sce., would be valuable to the promoters of the present scheme.

## Poultry Notes.

It is a well known fact that when a hen steals her nest and lays her eggs on the moist ground very one hatches out a chicke. 1 cate ahicks. one the other day wesity of domping the eggs in So you see the th crid water often to keep then
 noist, so moter fromer the feather of the goose or duck seems to be sufficient to furnish moisture for the embryo chick. I often found a great many dead birds in the shell until used tepid water freely
I had very bad luck with some of my goose eggs hatching out this year. I had four geese to one gander, which I consider too many, as the gander seemed to pay all his attentions to two of his wives and neglected the other two, so I have come to the conclusion two females is quite sufficient for one male to ensure the eggs being prolific. I had one goose sit twice this season, and each time only hatched out some two three of the eggs, and 1 found each the that these were from the esgo th ge thede favorites with the gander. Thave young ducks fit to kill now, l g and have no doubt eat for the last six present young ducks are the price being lig other kind of poultry. as prontable lice on your young fowls.
Lorbolic acid freely, and rub the perches with coal oil. The hot weather of July hatches out innumerable cuantities of little red mites, and they are certain death to the chicks unless risers seem to think that whe he chicks are half grown they can look after hremselves, and cease feeding them, but this is great mistake. Give them a good feed every nigh and they will come for $1 t$, for if they are left to roost at a distance from the house they are sure to Tall a prey to owls, weasels, minks, or some of the many midnight marauders. When about two mouths ora, my turkeys commence to roost I generally train thenl to go up on a large tre
 mile protcelo hory hat he tree ar the for iv thrim from the droppg gosite
Hua ho for twice shad I find wheat and cracked corn the best feed for young chickens. I have some of my chickens, in the lug. I lime a little ground hone meat
ir foed an excellent remedy for this leg weakness. A little animal food occassionally is excellent for young growing chicks. Boiled iver is good. An excellent food for hot weather is rice boiled quite soft, with a sprinkling of oatmesl over it. It is very nourishing, and counteracts any tendency to chicken cholera, often so
fatal in very hot weather. Feed young chicks liberally. A young chick half starved during the first six weeks of its growth never regains the loss afterwards. Give plenty of sand, gravel or crushed oyster shells to all fowls in confinement. I quote a notice from the July Poultry Journal about my favorite breeds, the L. Brahmas and P. Rocks:-"Light Brahmas and Plymouth Rocks is the legend seen at the head of as many advertisments as of yore. They are two old breeds, but they never get too old to be good. When you go to the shows yoir admirers as diminished numbers, and thers as numerous and ent merit alone could secure fact patent to all that me Light Brahma such continued suss. the in which attended their advent, and the excery prices paid for specimens, have not since been surpassed even in the palmiest days of the poultry fancy in America. The Eigh Brahmas were the pioneers, and opened the wa for the cordial reception given the Plymout Rock, which is the embodiment of a general purpose fowl. These two breeds have come to stay. The boom which they kad at first has grown into settled respectability
Toints to remember in poultry raising:-
lst. Make hens lay when eggs are deares
2nd. Breed stock when eggs are cheap.
3rd. Keep a non-sitting breed to lay when itters Keep a non-sitting brech expenses of latter. 4th Breed as as possible, and as early as possible, they all mean so much money.
th. Keep all the pullets; they are worth $\$ 2$ each as prospective early winter laye
6th. Kill or dispose of all hens after three years of aye.
TH. Breed the best flesh formers for market, and feed them up to as great weight as possible. bring the best price from the best customers. 9th. Begin with a small number, make a suc ess of the few and go on increasing,
10th. Do not neglect the little essentials, such as lime, gravel, meat, plenty of clean water green food, dust bath, \&c., regularly supplied. 11th. Keep strict account of every cent of ex penditure and receipts ; the droppings are worth 5 cents per barrel, and will go a long way to pay 75 cen
feed.
12 th

12th. Market gardeners and dairymen are particularly well situated to make poultry prontabe he former have spare time in winter and che
latter are amongst the best customers in the city every day.
When writing to any of our adver tisers, say you saw their advertisment in the "Farmer's Advocate.
We want industrious, reliable, pushing men in every township in the duminion, to canvass for us, and Picture. duce our splendid Supscriptor wages given to suitable men. Write for par. ticulars.

STamily (Bixcle.





 Without onfusion, sound or
Dear Lord, ny heart hath not a donbt
But thon dost compass me about



HER ONE TALENT.
A STORY FOR GIRLS.
by fay huntington.
Continued.
Mr.s. Hunt noticed the sudden exaitement and
guivering o the voice, but she seemed noo to notice. she remembered then sometniny that she had
heard about the cirvumstanees of the Chesters, and

 mimith onen un in this direction for womene We
hear a great deal now-a-days about new avenues


 touch put to my prison wals. . want you to se
 Why, what has bappened? Your rooms are cuarnot a thing 1 Yes, prains! 1 do not wonder
 Indeed. this does not seem like the same place!
Inever before realized that $s p$ much depended apon








 Renen You feel that you tread upon enchanted
ground yous sem to have dreamed and wakened to
new















" But that is different. He does a different sort
of work." ". I am not sure that it is more honorable to be a
senator than to be thome-maker," said Mrs. Hut.
. Here \#Haere is Mrs. Griffin; her husband is honored by
all. reeeived into the very first circles, stands a peer all. receeved hito the very first circes,
among his fellow. No one ever imagined that he in any degree lowered the dignity of his family
when he adopted the profession for which nature when he adorted ted protession if Louise Chester
evidently designed hio.
tates up
 Where is the difference? Mr. Grififiu plans the
house and she plannthe adornments. He is the arch-
itect; she the artist itect; she the artist
Mrs. Smith laughed. and replie
very pretty way of putting it ,
 party, a argee party and hiss Loulse phester wit
batang the quests if pae can be persuaded to
honor us, whether or not she beautifies your rooms honor us,
for pay
The
The next morning Louise received a note which
ran thas: "My Dear Child:-Several friends have been to
see me they invariably have expressed their sursee me, tiser pleasure at the changes which have been
prise and
made made and they also express a desire to ectrelly you
artistio touch for themselves. I write to tell you artistie touch or need not be surprised to waken
this so that you need
some morning to find yourself an important person-


 serve as a precedent. You need nor lowest terms.
ing the amount enclosed as your MEILCEENT HUNT."
Louise dropped the letter and chequee, and, claspLouise dropped he
?ng het hande, exelaimed, "Well, it seems that my
genius for puth the things to rights has a market
 I want you young girls to notice, Louike was ready And it came to her through her willingness to do a favor with no bint of reward beyond that which al
Ways comes we wive pleasure to naother.
You have already foreseen that to Loouise there was


 of the story which you may not tave guessed, and
of this 1 must tell you yo mate great favorite with Mrs Luaise qrew to be a great favorite with Mrs
Hunt and frequently the carriago would be sent
for her to go out and spend the day on Browind venue. And ere long the whole house responde

 Dell 1 But, curlousther for pleasure, study business, was not revenled to the listener in any or
brs. Hunts remarks. Yet the omission was not in Mrs. Hunt's remarks., Yet the omission fargot that
trational on that lady's part. She quite efrrot veryhay ming nents
One morning at the beginning of the holidays Ms. Hng man anked or Miss Louise. "I am Louise,"
a yound
id the oung lady who had opened the door for aid the soung lady
sim.
im. "Ab! Then Iam to give you this," handing het
a note, and at the same time following her as she
led the note, and ay the parlor. The note which Louiso
led the way the wh an apology to the gentleman, ran hus: Dear Little Girl: :-My nephew Dr. Dell
Mrockway of whom you have heard me speak so Mrockwayo of when you this and will also act as your ascort, if you come ou engaue ments permit. Patrick
sure you will if your
and as some errands to Louise "Sead the dainty note throukh twice, with Louise read the
heightened color. Then she looked at the chell
 to recover from her surprise, and she no
fowward and held out hand, saying
NThis is Dr. Brock way?
"Y Yes." taking the proffered hand. " and you are
my Aunt's fairy. good angel, or something of that
sort," "our aunt is pleased to call me her friend," she
said. 'then added imulsively. "And you are 'Dell' $?$ "n


 upon me " 1 all my stupidity," said Louise.

 20 consult the rest. of course ' V exclaimed Margare
Dell Brock way
I used to know him at the hifh school, but I never


Chesters to laugh in those days of brightentng skiles.
The first Tre first evening after Dr. Brockway's return
Mated hint as he made the tour of
he iong, tack parlor. Presently he came back to Aer, and seated himself in a lu lurious arm chair
placed just at the right angle to give the occupant a placed of the larger room and a part of the hall.
view
Strangely euough he remembered at that moment strantoly eavoumh he remember to occupy a someshat out-of the-way corner at the end of the piano,
the viet out of by he half open door.
"Auntie." he said.
what have you been .. Auntie." he se said, ". What have you been doing to
he old house ?", "Doing to it! Why?
Because something, sems different; it is the
same Yetit it brighter, lilhthed up, as if there were
sa invisible presence shedding sumhtine thout an invisible presence shedding sunshine throurb
it." Then, as he cautht the pleam of a smile upon his aunt's face, he added: "Now don't laurh at me;
but I remember that always there was a heaviness but I remember that always there was a heaviness
about theserooms, and ITsed to feel as thoughtwo
Cavy hands were pressing upon my shoulders heary bands were pressing upon my shoulders
whenever ctame in here, and now I feel as buoyant as a boy." "I Woid. "I wondered where you would
 genius !." And thereupon Mrs. Hunt told the story
of her young friend and favorite, all toout her trials

 glorify it!" The youg man's eye twinkled as he said, "The

 this speech she must have been mistaken. Howerths
she made or respone just then, bat a a fow mo ths
afterwards she replied to that remark. It was when afterwards he replied to that remark. It was when
her nethew told her of his engement to Lo Louse
Chester that she said: .ow Well, Dell, it seems that Chester that the seald: .. Well, Dell. it sems., that
the young lady has two enthusiastic admirers." the young lady has two enthusiastic admirers,
home,w will misg the touch of her finkers in our
homes," sald Mrs. Smith, returning from the "eding; replied Mra. Grant. " but she has staught
Us alls, something of the art of home-making. and I us all something of the art of home-making. and
am mlat that she and Mr Dell are gong to set up a
home amongst us-it wil be a model 1 " will be a m
THE END

## Grains of Gold.

$\triangle$ fresh mind keeps the body fresh.
Time is never lost if friends are made.
The simple resolution to surmount an obstacle Injuries should be written in dust; kind Injuries should
"Almost any wife would be good and happy A quiet solf
A quiet, self-possessed air is the passport of a
Complete your work, for nothing is done while aything remains to be done.
Study history not so much for a knowledge of vents as of human nature
"Fix your character and keep it whether The highest learning
The highest learning is to be wise, the great Education is the bringing out of all the good of which the nature is susceptible
To be patient and thorough in everything one Newton being asked by what means he made Newton being asked by what means he mad
is discoveries in science, replied, "by thinking. If there is any person whom you dislike that
the person of whom you ought not to speak is the person of whom you ought not to speak. "Let the same duty return at the same ho very day an sumbering in the smalles There are energies slumbering in the smallest
bosom among you sufficient to shake the world. We measure a man's intellect by his achievements; we
dificulties.
Since a man's thoughts must be his life-long companions; he s 8 ,
Conscience flourishes best on continuous hard service, and should not be
day for a single afternoon.

We want Good, Live AGEBTTS to Canvas or the "Farmer's Advocate" in every looai ty ingle to canvassers who mean buminems.

## शひinnie Əulag's Depe't.

## Help one Another.

"Help one another," the snow flakes sal Ase of ungere would not be felte
One of us here would quilekly melt:
One

"Help one another," the maple spray Said to Its fellow, leaves one day;
The sun would wither me here alone "The sun would wither me here al
Lon enough ere the day hig gone;
LuTN

" Help one another,", the dewdrop cried
Seeing another drop close by its side Seeng another drop close by its side;
"This warm south breze would dirive
And $I$ should be gone ere noon to-day; And I should be gone ere noon to-d.ay;
And Ill hell you and ou help me
And we lll make abrook and run to the sea " Help one another," a grain of sand



My Drar Nigcrs:
We do not as a rule realize how much help we as women can be to each other. In all oun
trials woman's greatest friend should be woman. To be eure our brethers and husbands are all right as advisers or protectors, they are dear, manly fellows, but they cannot give us that sort of sympathy we most require. Sis the very greatest comfort to have a woman friend to whom one can turn to for consolation when all seems dark around us, and who can say jes the words you want most the may be have been called gosis it some small foundation for it, but generally they are about the most ing to us because they are subjects, but interesting all about those To be a roal helt active, and we must cultivate should be exllent gift of charity, charity in its broadeat and best sense, which means forbearance as well as love. Let us look at the failings of our friends as we regard our own and judge them not at all. Forbear even to think harshly, and never criticize the shortcomings of a friend for we may have quite as many our selves. When we are able to do all these we may become such a friend as can give real heart help that wiH strengthen a well nigh broke spirit and give her courage to try again. You may think, my dear girls, that such trifles as un kind criticism and hasty spen wer all worth all 1 say abourne "Iittle drops results made up of trifles. "Little drops of water, little grains of sand, the laws of gravimountains; and were not the laws of greeng an tation settled by sir apple fall from a rece ? kind word when the opportunities; speak the ; stretch forth a helpopportunity presents itself, streted
ing hand when you see it is needed and do not wait for the chance of doing something great all at once, it may never come.
The greatest charm of conversation consists not in the display of ones own wit and intelligence so much as in the power to draw forth the resources of others; he who leaves you after a long conversation pleased with himself and tou
part he has taken in the discourse will be your lart he has taken
warmest admirer.
It is our business to make the most of our
talents and opportunities, aud to believe all talents and opportumices, aun toll things
things possible, as, indeed alyont
to a spirit bravely and firmly resolved.

## How to Drink Milk.

 Don't swallow milk fast and in such big gulps. Sip it slowly. Take four minutes at least to finish that glassful, and dipa good teaspoonful at one sip.
When milk goes into your stomach it is in stantly curdled. If you drink a large quantity at once, it is curdled into one big mass, on the outside of which only the juices of the stomach can work. If you drink it in little sips, each little sip is curdled up by itself, and the whole glassful finds itself in a loose lump made up of little lumps, through, around and among which the stomach's juices may percolate aly.
$\qquad$
Many people, who like mise it as a strength-giver, think they cannot use because it gives the moly drink it in could use it freely ir they wor if they would, letter the way 1 have Hot milk seems to lose a good still, drinkit hould almost think it deal of its densily, and it also seems to lose much had been wateres, which is cloying to some ap. petites.
If the poor only knew and appreciated the value of milk taken in this way, I am-sure there would not be so much beer-drinking among them. There are thousands of hard-works, and eve shop girls in the city, who drink beer with their meals because it gives a little stimulant to their tired bodies, and don't understand that it is only like applying a whip to a weary horse instead giving him oats. . find in this simple draught as much reai strent.
as in a barrel of beer.-[New York Tribune.

What to Teach Young women.
What writes to me: "What shall A mosh maughters ?" This one important and tremendous fact, my sistor:--That there is no may be with hand, it may be with brain, it may be with foot ; but work she must, or be wretched forever. The little girls of our families must be started with that idea. The curse of our American society is that our young women are taught that the first, second, third, fourth, firth, sixth, seventh, tenth, fiftieth, thousandth, thing in their life is to get sonnevody Instead of that, the first hessont som under God, they may take care of thomsed The simple fact is that a maje them do have to take care of the false notions of their after having, throug ons in which they ought parents, wasted tho joercessfully to maintain theme is inhwean and cruel for an father or mother who pass their daughters into wornanher having given them no facility for livelihood. Madame do Stael said: "It is not these writings that 1 am prond of, but the fact whe of which I can make a livelibood." W should teach our daughters that work of any kind, when necessary, is a credit and honor to louging to a large family, to be ineticent we the mother and father toil their lives away for her surpurt. It is a shame for a daughter to inle while her mother toils st the wash-tub. It
is an honerahle to sweep house, make beds or
 $-2+2=$ (1). 11, The Thatio 'Itome Journal.

How to Act When in Society. You want to become a good conversationalist, and acquire the ease and grace which is essential to success in society? Now, my dore should be good as necossay all a good talkers. It shows equal istenerf listen as to talk well. If you are inteligence to istarrassed, study how to say the simplest things in the most natural manner, and, or a while at least, constitute yourself the audince for the brilliant talkers. Y ou can only be graceful and natural by forgetting yourself. The woman who is awkward and ill at ease is the one who thinks continually of how she is looking and how she is acting-who is, in reatity, a little bit vain in a peculiar way. She thinks that, in a drawing-room, her hostess should continually look after her happiness and study her enjoyment. This is an impossibility. After her hostess has floated her a few minutes in society she expects her to swim alone, or else to stand safe distance and watch the other swimmors. To converse well is will interest the have the art of don hall your that person with whom you subject when it be will know how to der to a special fad of omes tiresome, and ner that you bring up. your own be the thin all people. To avoid Learn to be all decided opinions on any personal You don't want to give a tirade against dishonesty to a man whose father died in State's prison for forging notes. You don't want to object to the divorce laws when the man you are talking to may have married a divorced woman. You don't want to talk about bleached hair to a woman whose hair is pronouncedly yellow, nor to discuss how injurious is rouge and powder to the woman who is made up in a most decided manner. In your heart you may object to all these things, but you are not giving expression just now to what you think; you are simply making yourself pleasant to some one whom you have met to-day and may never neet again, Talk about Egyptian mummies or French politics, how orchids grow, the last new play or the last new song; but use good en you will gain what
were interested, and then were interested, and then you being a charming you want-a
The gems representing each month and their significations are as follows: January, the garnet; February, the amethyst ; March, bloodstone ; April, sapphire ; May, emerald ; June, agate ; Julv, ruby ; August, sardonyx; Septopaz; Decenber, turquoise. We would not advise considering them seriousiy, our natal possession is supposed to bring good fortune. No trait of character is more valuable in a woman than the possession of a sweet temper Home can never be made happy without it. I is like the flowers that spring up in our pathway reviving and cheering us. Let a man go home at night, wearie soothing is a word dictated by a good dis position! It is sunshine falling on his heart. He is happy, and life's cares are forgotten. A sweet temper has a soothing influence over the
minds of a whole family. Where it is found in minds of a wholether, you observe kindness and love predominating over the natural feeling of a
bad heart
Sniles kind words and looks char bad heart. Smiles, kind words and looks charscterize the children, and peace and ove nave valuable than gold; it captivates more than
beauty, and to the close of life it retains all its

## What Bessie Wanted Done

 by ibben e. rexford. Johnnie and his sister Bessie had a serious "fallingout." called them in and asked them what theAnd
trouble was about. "She was ualy.". Jout. Johnie plazued me." So their "She was ury.
explanatons ran,
And I found myself no wiser when I stopped than
I began.
"Children, it is wrong to quarrel," said I. looking "Children, it is wrong to quarrel, sald $\begin{gathered}\text { very grave } \\ \text { Then I preached a little sermon on how children }\end{gathered}$ Then I preached a
should behave.
"It you cantle pothot play together without quarrolling.
 I shall separate you," said I, and with that resumed
my pen. Just about a half-hour later Bessie's angry face
tooked in
Through the window. "Come out, mamma." Then
 the frown became a grin: ${ }^{\text {to }}$ Jonnie's just as as mean as ever. Come out,
mamma, right offlquick. mamma, right off-quitk.
I thought praps yourd separate him, so I brought
along a stick."
and up still the teeter goes, as full of interest $\mid$ with me when taken into consideration with the now as when first used. The teeter calls back danger I am in of losing my self.respect. I old associations ; the old school and playmates and the haunting words of melody
ing:-

## Where is now the merry party That we loved long, long aroy And the refrain <br> And the refrain is borne to us

Kate Robertson, Strabane, Ont.
An Ever New Subject.
$\qquad$ Look out for the person who habitually wishes
to warn you against another. In nine cases out of warn you against another. time will reveal to you some grave flaw in of character. Did you ever know a really lovable person who had a keen eye for the faults of others?
others ?
The $m$ huuld despise myself were I to listen to a mean story about a brother or sister." "But how do you get rid of such people? I never know just what to say to them.
The old man replied: "Sometimes I say, 'See here, sir, I should like to know before you go any farther, what sort of a story you mean to take away from here in place of the one you leave?' Sometimes I ask him of what sort of soil he is composed that causes stories of that sort to grow so rank. Oh, I'm not popular among gossips, but I have a few friends in consequence who are really worth having

Can Dame Gossip be banished ?" anxiously asks the individual who boat peated a story in her life
Not by such as you, dear madam, for in listen.

see-saw

Scersaw.
A teeter! Who does not know the enjoyment of it. Who of us have not some recollections of days long, long ago when we sat on the end of a board, and somebody else sat on the other end, and according as we were lighter or héavier, we pulled or gave more board. First lessons in statics-we found them more pleasanl to yern and easier to remember than those of later years when we as scholars tried to learn theore log or about length and weight. Across a log or their we went up and we cried, we held our baby sister and we teetered by the bur. There are all kinds of amusements, whiriieirs rocking chairs, hammocks, swings, and an endless variety of things, but the teeter, the dear old teeter holds sway still. Through all the changing generations, through all the varied scenes where children play the old-fashioned teeter has a charm; the poorest may have it, th richest

## Matrimonial Puzzle。

 The following is an extract copy of a letter sent by a newly married lady to her friend, exprosive of matrimonial happiness, and which prossive of matrimonial happer
she first submitted to her husband, who highly approved of it

|  |
| :---: |

P. S. - Read the alternate lines for the fun of

## Here and There.

Learn to labor and stop waiting. Know thyself and keep the information to thyself.
Some lights operate under a bushel, and ought Words should be used ás the signs, not as the substitutes, of ideas
Make no mistakes about people
the watermelon is all right inside.
he watermet It is better to represent the big end of a
pedigree than the fine point of a long one.
It is unsafe to measure one man by anothe man ; measure all men by immutable standards. Don't cast jewels before swine. If you don't
know how to feed hogs, leave the work to someknow how to feed hogs, leave the work to some
body else.
Many a man who objects to carrying a parcel
home from the provision store goes home from home bar-room loaded.
It is well that we are permitted to think so
much about other people's faults and foilles that much about other people's faults and foibles that
we have no time to reflect upon our own.
Never be satisfied with the surface of things; probe them to the bottom, and let nothing go till you understand it as thoroughly as your
powers will enable you to. powers will enable you to.
Let us, by our ownin kindness, diffuse the cheer ing rays onrn, and pour blessings upon our fellow creatures abundant as the morning dew.
A young woman, in leaving an omibus, dropped a ritbon from her bonnet. "You have
left your bow behind," said a lady traveller. left your bow hehind," said a lady traveller.
No, 1 haven't he's gone a-fishing!" innocently replied the damst
It is strange that when anything happens to a
young woman she is always saill to be supcrlayoung woman she is a ways saind. the supcraa-
tively beantiful and richly dressed. This ought to make plain and poorly dressed girls feel happy. Nothing will happen to them. The papers relate an ancecdote of a beautifin
young lady who had become blind, having re young ady who had become blind, having re-
covered her sight after marriage. Wherulpon
some one wickedy observes that it is no uncounmon thing for people's eyes to be opened by
matrimony.

ऐtrele Trm" Department.

## Ho for slumberland !

little song for bedtime, when. robed in gowns o All wiepe, little children set sail across the night
For tbat pleasant, pleasant country where the pretty dream-fow wers blow,
rwixt the. . . Forser the Slumber Islande, ho!
When the little ones get drowsy and heavy lids droop To hide blue eyes and black eyes, grey eyes and A thousand boats, for Dreamland are waiting in row,
And the ferrymen are calling
U.
Then the sleepy little children fill the boats along the shore,
And go sailing off to Dreamland; and the dipping of
the oar In the sear of Sleep makes musto that the children When thes answer to the boatmen's , For the Slumber Islands, ho!

Oh! take a kiss, my darlings, ere you sail away In them meat of dreams that's waiting to bear you Take e kiss and pive one, and then away you go


## My Dear Nieges and Nephews:-

Although we farmer folks are so busy with the harvest others are not so, and while we work early and late with all the physical energy we possess many, wearied with the unceasing work and care of the past
ther off for vacation
Are my nieces and nephews inclined sometimes to envy them and think that they are losing much in not being allowed to go too. If they will but allow common sense to rule they will not think so. Your leisure time comes at a different season, but not the less enjoyabie.
Had those young fellows of that camping party Had those young feutrys of yours do you think a home inl the countre
they would take all the trouble they do of buythey would take matimes meagre earnings so many things necessary for their summer outing, and carrying with them such strange bagfuls of pots,
things carrying with, tins, rugs, clothes, and a lot of other things, with provisions for the coming days or weeks, and the prospect of cooking for themselves, of being bitten by black flies and mosquitoes, and have their pleasant evenings made miserable by sand flies ? They come home, it is true, the better of the change, quell sunbrowned and with a stronger muscio. strength apparent in every movement, in every look. You have already what they seek, then do not envy them Not that Uncle Tom would have yoll always at fields. At the proper the, sheaves have given forth their golden grain, when the surphins stock is sold, when the objects of your care for month fairs, when yon sec the time and the way, then go and fulfil that cherished wish to see, which olject you have han for montis becore you. on have waited so Tong
U'ucle Tom does not undervalue the beanty or rayil, aul this beautiful Ontario of onre many enjoyatle nesorts. Our northern lakes Aland doted and tree crested, are indeed healt alove; from hamk anl cliff trees wave in majest

Hanging between two skies, a cloud with edges of Floats sllyer, boat, with its dripping oars on the motionwhere the lilies grow, where point after point is ounded each seeming to excel the last in beauty here the dark winding stream flowing through "forests primeval" is followed or resting on eare the setting sun , forest to fire wand chang this touch
ometimes wonders nieces and nephews value hours of descrip tions of these beauties, as given by gifted pens than others do the reality.
An untrained ear does not hear the beauty of the birds, or hoar the many sounds of nature. So our enjoymient is in ourselves. If our eyes and ears have been opened to enjoy nature wo live on that which to others is nothing. In the Mammoth Cave, Kentucky, we are tola, there is a species of fish whichinco cours and lived in the darkness of the cave so long, and left unused their power of vision, now the marks of eyes only, but oy What is the lesson wo loars smallest niecos tare left unused are taken surem wo Sol of all from us. Some thers more, it mey have one, so tale are we going to cultivate them have them taken from us? Some of them we may not know we possess, but the faithful use of what we do know will open up the others. But this is a long letter and the turnips have to be hoed and the berries to be picked, the grain to be put in the shocks, the plants to be watered, and the long yet short harvest days to
be fully employed, so when we have said farebe fully employed, so when we have said care
well to August, and September days have come, you will hear again from
-The steamer for Liverpool was about leaving the dock. The friends of the passengers were bidding a last farewell. A brisk, elderly gentleman, evidently a merchant, hastily embraced a lady on deck and hurriedly left the ship. In the crowd on the whart was a working man, who was leaning against a post looking at the steamer.
" Do you see that lady in black on deck ?" ssked the merchant of the party of the second "Yes, I see her,"
"All right ; that's my wife and she expects me stay here twenty minutes and shake my hand kerchief until the steamer is out of sight.
" Does she ?"
"Yes. This is the busy season and I've no ime to waste. My wife is a little shortsighted, o she will be noue the wiser if you wave handkerchief. I'll pay you a quarter.

In that case you bury your face in the handkerchief and appear to weep. You might shake convulsively and perhaps shed a tear or so, A quarter is a great deal of money these hard "Iines." "Ill have to have an extra dime. "All right; but I think you ought to kiss your hand to her a few times for the extra dime.
Then the merchant looked at his watch and disappeared
A judge, joking a young lawyer, said, "If you
and I were to be turned into a horse or an ass, and I were to be turned into a, horse or an ass,
which would you prefer to be ?" "The ass to be
ure ", sure " replied the lawyer. "I've heard of an as
being made a judge, but a horse-never ?"

Puzzieso

|  |  |  |  |  | 1 | 2 |
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| 17 | 18 | 18 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 |  |  |  |  |  |  |

Across．－1．In music，go on
2．A knight－errant
2．To quickeen．
4．A kind of muffin
4．
5．Ane wo maintains that all space is
Down．
1．Suacturent． 2．A species of indigo pin
4．To tilar or or confide in．
4．A majestic tree，of 6．Alulue，growing in Demerara． 6．A vine of the
2－Charade． 2－CHARADE．
＂The pionic seasons now hand，＂，
Premes our good friend Fair Brother Helll attend on a ToTAL three sonit
And four or five some others． And four or five some others．
What fun it is when a caravan Of every LAAFT start for the groun
In the bright summer weather． The sky Ah！meltis so entranci
The elements now krow angry． The elements now grow angry，
Now hear them in their rage； Re quick，be quick，retrace vour steps
3-anagram.

Ouz Snowbird flew away to the States and left us
all alone．
 suspense， But tell us what your real name is，＇twill be some－
For someme mill sense sense you are a girl and others will say For some will say you are a girl and others will say
and boy wir pastimes＂frajkness＂is a watchword
And in orl Then tell us your name，now Snowball，your place You may tell if yoo wish，but it matters not if your
name we liad oot AS A CLEE．

4－Charade． There＇s A mos Hawkins．Where is he Clara Rilance；beg your pardon， Where is cousin Lou，so cunning， Hass she left the art so dear
Mattie Wood worth，too has left us．
Ob return and never fear．
Take excelsior for your watch
Savs cousin Henry Heeve． Now，add to it perseverance， －．Aarcastic Panster．，＂，wist thee how And＂chestnidily send us some， Though nct within the bur A＂Snowball＂at this time of year And travels on throukn space． 1 hope she will return some time Nir like the boys he tells ab
Who didst a lark invent．
Our fair and honored friend Miss $A$
YIet a physician，did you say Who asked her if she would become
 A．n．t tell us too－confound the luck Ya．Uncle Sam＇s a jolly chap But still I think fair Canada Wi－A Armands cry I will encore


Fair Brother．

Wy first may to a lady be a comport or a bore Vy seond you may for comfort shut
My whole will bea welcome guest，
Where tea and table yield their zest．
here tea and table yield their zest．
A．Howkins． In＂＂torchlight parade＂，＂very grand， In＂brave yolunteers＂，with their ban
In＂beatiful fireworks，＂at night，
In In＂unautirued orewors＂，that do right
In＂unil dressed in colors bright．

 My Whole was nat a howling succe
As all the newspapers do attest As all the newspapers do atest ingts
Although hll those gy，festive sights
Took place during both day and night． －Charade．


And so my leisure moments

## Wby TV RAYY2 DASK8®

 9 －Charade． Lives of posers oft remind us，Tyro s don＇t stand half a chance To outdo the honest veterans，
Who by won＇t solves at a glance But the vet＇ran，who so nobly
Has worked on（Whilie others eleep At one time took＇the under r roun
 Prime by constant perseverance，
To the topmost round youll crawl．
If at first you get discouraged， And if others stay yotur progress，
LAST them off and so be free．
Last them off and so fair Brother．
10－Charade． One fine day，not long since，
When the sun was shining bright Our Alphent went out for a walk
Which was quite correct and right． Meesrs．A．and B．．when hand in band The pleasant siph a obble band
Closelly followed by a
Under the guidance of a capital $D$ In alphabetical order they did go
Now can you please tell me，


Answers to July Puzzles
 7－Whotions
8－Pastimes．
$9-$ Watchword
Names of those who have Sent Co rect Answers to Jully Puzzles． Morley T．Boss，A．R．Boss．A．Howkins．Henry
Reeve，Marv Woodworth，Matie Woordorth．TY．


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 understand what that mour females. (Breeders wil
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STOCK GOSSIP. Fare In writing to cavertisers please mention the Mr. Spencer Page, Cannington Manor, Secretary
of the East Moose Mountain Agricultural Societ of the East Moose Mountain Agricultural Society,
has recenty laid the foundation of herd of short: horns by the purchase of the following animals
from Pierce, of the same place: :-Bull Lord Selsley rom Plerce, of the same pyace: -as Biven him this
and cor Lay of Lyne, who bas
spring a nice heifer calf. Mr E. B. Pierce, of Canningto Manor, has
Meconty made the following sales: - To Mrs.
Willias. Cand Williams, Cannington Manor, cow Princess Alire,
with bull calf at foot to Jo Jon Durton, of the same nlace, young cow Lady of the Lake, to spencer
page of the same phace, the bull Lord selsieg, and
cow Lady of Lynne, with heifer calf at foot, Rock Bailev, Union, Ont..reports that he has got
his fock of Merinos all registered in the Michigan Merino Sheep Breeders
to J. W. Hanan, of Rushville, Indiana, flve rams and to J. W. Hanan, of Rus.
thre ewe for sho purposes for the fall fairs. He
also sold also sold to Andrew elliott, of Galt, Ont., 8 breed-
Ing ewes and one ram. Both his Jerseys and sheep
are doing well

Mr. T. C. Snell. Edmonton, reports a steady de-
mand for Borkshires. and has made shipments in
the last two monthe to fill orders from ouebec, mand for Berkshires, and has made shipments in
the last two morths to fill orders from (ueneoe,
Manitoba and British Columbia, and to the followManitoba and British Columbia, and to the Roisow-
ing states : Tennessee. Kentucky. Indianh. Kiseouri
and Texas. A new importation of select Berkshires, and Texas. A new importation of selecet Berkshires,
from the berd of MT. Renjofeld ond other leadng
breeders, is expected to arrive about 1st Au Aust. from the erer of ced to arrive about 1st August.
breeders, is expected
John Jackson, Abingdon, Ont., writes us that his
 ever had. Lambs have done uncommonly well. Our
this year' importation lett Liverpooll on the 1th
tuly
Iuld this year's importation here before the end of the month. In this stot are included the shearling ewes,
bred and exhibited by J. J. Colman that won first
prize at the Royal show at Plymoutb. prize at tess. John Morgan \& Sons, Kirwood, Ont. Messrs. Tohn Morgan sons, hirwood, Ont
write that the have lately soll to Mr. J. Hunt of Ashton, Illinois. the two shorthorm hetifers Roy


 held at London. Burford, report





 as we can produce tie story in reaching intending
your paper very satisfactory in
purehasers. One of my imported Yorkshire sow rurebasers. One or my imporeventeen pigs. This
recenty produced a litero sevent
sow is not two years old until November and has sow is not two years old until November and hag
farrowed a to tal or forty-one pigs. I think thls
record is hard to beat. record is hard to bea
 doing very, nicely this summer, and are booming in
spite of all the ebitter opposition and prejudice they
俍

 In roduced Holsteins in he section A. Plumer of
foud them agrand sucess). Mr. A. E. Plumer
Waterville, N. A. took af grand pair of yearling
 Bald Neptune. This we believe to be one of the
finest. if not the finest, cow of her age in this country LLast year as a two-year-old and with her
frist cali he gave 434 pounds of milk in a day, and

 seven hac, enice
in September nex
on tbem later on.
enclish Pedicree live stock. shitre Horses, Shorthorm and ifereford cantle. Shropshire, iborset, Hampsilire and onher
E. (t. PRENEE, SHREWSBURY, - ENGLAND, has choice reyistered stoek for sale at moderate




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 have this Harvester, th be as useful in the pea field as the mower is in in the hay field. It oan be attached to
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apaith. $($ Tders and correespondence answere prompty.

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STOCI GOSSIP. Mr . E. Bowen, whose farm is four mhles south-
bast of Brandon, is the owner of the thoroughbred east Nellie W., and has several well brod mares as
mare Nell
he nucleus of a band of horses of that class. he nucleus of a band of horses or that class. Weld Bros, of Winnipeg, have recently made the
followis sien of pure-brad Berkshire boar pigs:-fono wo wm. Champion, Reaburn; one to Audrew,
One to Wren.
Dawson. Headingly, and one to Mr. Joseph R. Keely,
Springtield.
Mr. Lister. of Middlechurch, reports his Sbort-
horns, the Marchmont inerd, in very good shape. horns, the Marchmo or readers, how ever, many of
Before this reaches on them will have had ant
at the Brandon fair.

 hiphly successful in this country,
lated this property since coming here.
About seeven miles west by two north of "the
Portaue, in asectuded bsot behind a . natural
and Kitson, me of the early ploneers of this country.
Mr. Kitson has owned this place, whiloh is so admir-
 years; has a band of 27 hoad of horses, old and
young harice on a small dalry and unaily grow
about five thousand bushels of wheat.
 stallion Charming Charlie o. Mr. Colquohoun im
ported Charming Charlie three jearg ago Mhen he
osided in Exeter. Ont., where his partner, Mr. Dow resided in Exeter, Ont., where his partner, Mr. Dow
is still engaxed ind dealing in horsear rhe frm have
a half sectlon of land adjoining the village of
 Couglas, two bundred
they parpose breeding
I at no distant date

NOTICES.
Our subseribers will gind in thits issue an advertisment of Mr. J. Barton. stamp and Erab extreter
from what we have been bile to ascertain concerr. ing it, we believe it to be a frrst-class machine. For

We have pleasure in directing attention to Mr. 8. S. Kimball's advertisement of saies an
stump and stone litter. It twoul be to te iterest
of many of our readers if they would invest in one of many of our ree. Every farmer bas valulables in
of the above sates
his house which should be in safe keeplota, afires are more apt to start when you are least prepared
aro them. The stump and stone lifter manuafactured for them. The stomp and stone
by him is also spoken bighly of.
We draw attention to the new advertisement in
another coumn of Southdown sheep. of M. David
 don. Mr. Dale has lately made quite a arge impor-
tation whilch he has selected in perbon consisting of-
a choice lot of of bearling ewe bred by Mr. . J. ol-

 long price was purchased of Mr
Daal lasa arand foock bred by himself, which for
really good, robust. larke sheep with qually are Dale has a grand $\begin{aligned} & \text { really good, robust. larre sheep with qualty are } \\ & \text { hard to equal, a number of these are now for sale. }\end{aligned}$. The tholiton Pea harvester-heports From
the fiel

 on boted the short and long vine green peas and are pleased to say that they are doing the
and giving us the best of satisfaction.
 Prince Edward County, Ont., 15 th July, 1800
Hessrs. Tolton Bros., Guelph, Ont.


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