Vol. NXXVI. WINNIPEG.
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## gossip

MAY 20, 1901.
CONTENTS OF THIS NUMBER.



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How to Gikow Sva, berms

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Tuk Goikrewhit Skro Suor


Stroorshike Rav Lavis "Llustration)
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raising and ferming stekrs por Phofit
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OSEPH CORNELL, SECRETARY AND MANAGER,

## In the Farmer's Advocate.



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YOU SHOULD KHOW That in the den dow. Iren ving A preil siah SIXTEEN YOUNG MEN Folkthan Sotso
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Solicitors luringing Enatates, Adminketra tiow. etc. to. the Comp Cimeteynalome in thel.

ARTHUR STEWART, MANAGER.
 Rosser Avenue, Brandon, Manitoba.
 Catalogue Printing our Specialt.
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Teaching Ntock Judging. It will have been noticed that in the scheme for at ith. and in the editorial or Commission wat ate cultural Fitucation, in the liast issue, sperial attention is calley to the teathing of amimal hu-bandry
A general ideat of the topies discuseat umder that subject has already been given, namely, the beeds of domesticated amimals, incloding their history and and judging live stoch, together with the , feements of veterinary science and biteteriology. It will at once be seen that tocompasssuchasubjeet is nochilds specially trained men : no mere study of beoks ban qualify one to teach such a subject.
$\qquad$ college scheme : " How ran a protesoror teach stech judging unless he has raised, fed and sold live stock and thus found by practical experience why the seemingly low estimate of a profesiors knowledse impliedin the question is not altogether inexcusable When agricultural colleges were first started, stock men edncatert to express themselves as teachers
wery not available: consedmenty, what litheteam ing was done necessitated the employment of men Whose training was entirely academic- educater tice of live-stock husbandry, nor entitled to the con sidered as lives-tock judges
The advanced agricultural colleges are now are qualitied to act as teathers of animal husbandry or to act as live-stock judgess so that the ohjection tion of all live-stock tmowledge be the man wh feeds and handles liverstork, moder the pleat that he Tome is proctionl, is unwarmanted and unsound. qualitiation of a practical stoekman is that he has made his livm̆g by handling stock

In the industries the so-calleyl practical man has no place to-day: the really pratical man is the one therefore we find that the profesurecinim to work sidered practical is the only right one, namely, a The teaching of live-stock judging involses a meat protuction. and of the of draft, of milk or all of which are indicated to a great extent by the methouls used in the teaching of live-stork judging will aid in making clear the advantages to the
$\qquad$ in wawhing the element of dratt-hose judging. of a draft horse, impressing on the students the limb. and the gat, and endeavors to get into theit
$\qquad$
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WINIIEA, M I.NTTOBA, M.U
their shape, the tendons as to their being clean and the hoof heads size and texture of the woofs and the apresarance of the sole and frog, are all gone in -hest, indicating lung capacity, the closeness of the coupling and depth of the back ribs are noticed, the powers: the length and straightness of the hack, width of loin cover the kidneys length and shape of the hips, all aid ing on of the tail, the ness of the animal for its work according to draft standards, The muscling through the stifle and of wre taken together as an indication of the propet ling powers, depending on the development of the parts mentioned. The size and cleanness of the theirtendons the pasterns and feet, receive similar junior student marks the score card, his score show ing where he considers the animal deficient. A thus showing them the points overlooked, too heavily scored, or underscored - the perfect score The (la) points
$\qquad$ student is thomoghly familiar with the points and values are obtained not by any arbitrary method, judges and are intended to opinions of the best relative importance of the different points. Score cards done with, advanced work for senior two or more animals being required for this phase of the work. Similar methods are followed in comwith a bank sheet of paper on which they will mark the animals placed first, second and third, each phimal's weight and sex, and give the reasons for students have completed the work in, "quiz. "is conlucted or the awards made, and if the placings are student see why and how the awards were wrongly red aot of itself ing of the methorl thus ont lined will fesult will be that the farmers son so trained will incoluntarily sum up the good and bad points of
animals analuge them, infact. Constant practice in analyzing and comparing animals, both at the farm and at the agricultural show, will in time make a per-

Brandon Experimental Farm Notes. Seeding commenced on the Experimental Fiarm ith, no seeding was done during the thind week of were again in ford condition, and the drills have
heen husy every day since. With the excepton of
he very small plots, whest seeding was fimished on
$\qquad$ Winter annual weeds started during the wed
ather last fall, and the land requires a great deal
 are pelt sown, so that it is likely to meet age, later sowings it weeh apart will

Cleaniner Crop and Fodders. and dairying, and the rapid settling up of the and more important. While straw and praire hay, where obtainable, can be utilized to good everyone recognizes the value of some additional food of a more succulent nature. For this purpose
there is no crop that yields more abundantly or that furnishes succulent food in as convenient and upon as a very doubtful corop in most of the west. The Experimental Farm at Brandon has had most satisfactory results, and here and there throughout
the Province individual farmers have obtained equally satisfactory returns. The seedsmen also for seed corn.ery year there is an increased demand Another can be used as a cleaning crop and all the work done with horse power. Sown late (May toth, Mr. for killing several crops of weeds by harrowing the land at frequent intervals, just as the seeds germinate. It can be sown with a shoe drill in
rows three feet apart thy stopping up the inter mediate drill spoutsi and cultivated with a weeder hoe can be used till the corn shades the ground. In cultivating corn, care should be taken not to stir
the soil deeper than three inches, so as not to the soil deeper than three inches, so as not to given to a crop of corn not only cleans the latid as
well as a summer-fallow and makes additional supplies of plant-food that but for the cultivation would have remained locked up, but for a wheat crop. With a rich, deep soil, thorough suitable varieties, there seems no reason why corn should not be a much more popular crop in Manitohar A few years ago it was considered a
doubtful crop in Minnesota and I bakota, but of late has been growing rapidly in favor, and its northern limit is continually moving northward. The variProlific, North I bakota Flint, and Longfellow. Other crops can be utilized to furnish a welcome addition so the straw and hay roughage. larley
can lo sown late, leaving time to clean the surface soil of many annual weeds, and, when cut green, off most weeds before they mature seed. The millets may also answer a good purpose, but
reyuire more care in curing and feeding, ats there is always more or less liability of getting foul weeds
in the seed. the seed.

Summer Fair llates.
$\qquad$ Summer kail.
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TBe ARMER'S ADVOCATE
and Home Magazine.
thr leading agricultural journal in THE DOMINION:

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Agricultural Teaching in Rural Schools. The Legislature of Minnesota has made an appropriation of $\$ 2$ thor per year, for the next two or three years, for the encouragement of the study writing on methods for utilizing the appropriation.
Prof. Hays, of the Minnesota Agricultural College, says in part
The sum appropriated is small, but if wisely administered it will lead to much that is desirabie. Aur schools do much to mold our national ideals. Away from rural life. In our rural schools, in our elementary town schools, in our city high schools, in sectarian academies and colleges, and in state and independent universities, the text books and much toward the mere scholastic and professional rather than toward the productive industries. The
life of the people and the life of the nation demand a broader scheme. that will better emphasize and eneffort. Whe want not more preachers, lawyers and doctors: we want better preachers, lawyers and
doctors. More than all ioc. peed legions of farmers doctors. More than all … need legions of farmers
educated in their ta-ine....nd in farm living, and
educated in a heoad cit...hin if the faculty at
 childere on way morat ....... in the State. the

## The Fence Problem.

Farming in the older-settled sections of the West is undergoing a transition, from the rough-and-resuly methods of the advanced agriculturist. A systematic rotation of crops, including seeding down to present-day necognity, if by all thoughtful men as a soil and ability to grow a No. 1hard wheat is to be maintained. In order to properly utilize the grass one of the most difficult problems, owing to the cost of fencing material.
THE HEDIE FIKE.

An active demand for fencing, together with the opportunity for the faker with the patent fence, the with hisalluring colored plates of hedge fence mant, covered hedge-rows, with nature's growth so manvelously trained that the mesh is close enough to intercept the gopher and, at the same time, strong binations of hedge plants at so wonderful comthat are sure to grow, and a few strands of harl wire (at wholesalel, are bound sooner or later to be offered to the Manitoba farmer, and, like the farmers in every other civilized country, experience
bought and poid for is likely to be the only thing that will convince them of the uselessness of the hedge fence. Doubtless, too, local companies will. in due time, be organized to sell and plant hedges, and farmers will be offered special inducements to
invest some of their surplus cash in the shares of these comp of their, whose only hope of sheress is in the gullibility of the public. Those who remember
the osage-orange and locust hedge fakes that were the osage-orange and locust hedge fakes that were sucressfully worked some years ago-and many may have cause to remember-will not be so easily caught HEDGES INSOITHRE
Hedge fences are totally unsuited to the condi the growing of a hedge means. For the growing any kind of trees or shrubs in this country, cultion necessary to thoroughly cultivate a strip of : 3 or feet along both sides of a hedge a mile or two in length, and to keep down all weeds and grass (including twitch-grass), for several years: then, to needs be kept closely and frequentlv trimmed for all time to come. As a reward for all the labor, the hedge, even if it has grown fairly well, is at best a poor substitute for a wire fence. It collects snowdrifts, which break down the hedge and keep the land adjoining wet until late in spring, and in the results to the hedge would be disastrous. Anyone who desires a nice bit of hedge along the garden
border will be well repaid for the labor necessary to oorder will be well repaid for the labor nece:sary to
obtain it and keep it in shape, but few who stop to consider are likely to undertake to hedge fenc
even the boundary line of a quarter-section farm-

## Extension of Canadian Pure-bred Stoc

 Trade.The recent purchase in Canada, by Mr. Alex Bruce, in conjunction with Mr. Wim. Nelson, of bulls for shipment to the Argentine Republic in South America, elsewhere referced to in detail it exportation of Adrebred stock fiom the pioneer to that-a trial consignment or two having beei made a few years ago by Mr. W. C. Edwards, of Russell Countr. Ontario indicates the possibility
of a new and particularls desirable market for Canadian pure-bred stock, should the venture for a financial success, as it is earnestly voped it may The present relations hetween (ireat Britain and exportation of live stock, owing to recent and breaks of foot-and-mouth, disease, are such as to prohibit, for the time being, trade in that line, and the South Imerican cattle-hreeders in the mean time, in looking around for available supplies, have United States, where, for nearly a century the stock has been propagated from importations trom the parent land and hred with a gratifying degree of success, adding immensely to the value of the
farm stock-and, consepuently, to the wealt both countries on this side of the seal. It is well known that Argentine breeders are discriminating
buyers, that the best is none too good for them, amd that they are not open to the imputation of hag is good enough price if the quality of them animals discretion used by our new customers in buying should prove an incentive to Canadian breeders to produce superior stock in large numbers, giving the
necessary care and treat ment to ensme their best devetopment, in order that we may serure and hold The increasing interprovincial trate resulting 2-wnew

Stock Breeders Associations is properly With much influence in bringing about this
 shipment of registered pedigreed stock, muat possible and practicable to spread the intloe good blood over wide areas of the Domin in the near future to the mailway compe pro as to the farmers. The opening up and sati of new sections of the country results in th. duction of commodities the transportation of brings revenue to the roads, and so the improw
of the lreeding and quality of live stock of the breeding and quality of live stock hay foreign consumption, of a better class of stock .and of its products in the form of beef, bacom, muthen Wool, milk, butter, cheese, poultry, ete, and the
lenefit to producers and carriers is imulai. The Vinited States our natural outside for this class of stock, owing to its nearnes manh adaptability of large areas of its territory for stach share of our surplas, as it has done thake a lang share of our surplus, as it has done in the past, am great industry is the removal of the nume the and galling restrictions which, under the puise of protection, and at the whim of interested othicialism a trade which, but for this, would be one of un most prosperous and satisfactory enterprisus

## A Beef Ring for : 0 Members.

 please find chart which I use for cutting three years and it has given the best satisfaction of any ring in this locality. Several applicants hav asked me to give my chart, and to explain how in run just the same as the one for 16 members. It is rules are just the same as for a ring of 16 members The only difference is, we have the members furnish
will see hang it up, with their names on it. You Guartered a little differently from yours for cutting the heef up in 111 pieces. To give each party a hoi down in halves. You must cut it across between Oos. and ${ }^{2}$, leaving four ribs on the hind quarter
Ifter laying the front quarter on the table for cut ting up, you will cut off front shank, No. s: then cut from line B, making two piecess, Nos. 10 and 91 rits in it) : roast No, 6 (2) rils) : roast No ion rilses piece): then No. $\because \stackrel{y}{ }$ rihs in it!, leaving piece thoiling Ifter cutting up the two fore pinaing piece No. wil let down the hind yuarter on the table, and wint from lime D, leaving tlank, No. 11 : then cut roas then cut across line E, rump roast $1.3,11,1.16$ cut off Nos. 15 and 19 , leaving hind shank, 15: then This is a table to put the pieces for each one:

The weight of the beef is supposed to be not less up and divided into 20 shares. I think the leec should not he less than lientles. It cuts up ine meed

The recent I'nited states census shows that the during the past ten years from $t$, imb, (hn) to 5 , inntiond with the growth of cent. more than keeping pace farms are not suollowination. Hence the bis The number of farms worked by the small ones is per cent. At the yams ago. or an increase of increased about to per cent. The greatest facme middle Western Statas heen in the Eastern amp ocities and towns, leasing their $f$ have retical Fery becently a pipular movement to others whe which they of tesite with the pure and rum fine farm the sommer season instewd ther families through


THE FARMER'S ADVOCATE

Iow to Grow Susar Beels "Whether through design or what is called genel wherely Ih. A. K. Slutteworth. (hemist of the Ontario Agricultural College, when tiking his sinpplemenary course in africalturaa science in the midst of one of the areas of that comptry when suga- beet culture has been reduced to a science and is prosecuted with a degree of success attractto at study of the subiect wovating himself toal stady of the subject, hoth from the practical



Canada full of the theme and ready for the sugar of investigation and education begon last campaig most encouraging results, under his direction, in
three districts is being continued this senson in three districts is being continued this senson in
some fifteen different areas of the Province of Ontario. In each of these some twenty-five farmers with soil and ot her conditions suitable are putting in methods and under skilled direction, and which will tikemise be cultivated and harvested under supervi Dr. Shuttleworth, so that hy next fall not only wil a great deal of valuable experience be gained by the growers, but the general data as to sugar content of
beets. purity and yield oltained will be of an extensive and thoroughly trustroorthy be of an Preliminary to the inception of these character. Shuttleworth has gone from point to point address ing gatherings of farmers and others interested. scope for the industry by stating that ited the require the output of thirty large factories, valued at about half a million dollars each, to furnish
sugar for (Ontario use alone. With soil conditions sugar for Ontario use alone. With soil conditions
and climate such as exist, and proper cultivation there was no doubt about successful sugar beet growing, which would not only, prove an extremely
profitatile crop for the grower, but tend to improve the fertility of the soil, owing to the fact that sugar were good food for milk and the pulp for fort which stock, etc., were restored. Properly speaking the manure should be applied to a previous crop and the land deeply fall plowed, so as to increas and moisture-holding power. A fine, mellow seed bed is more secared by thorough spring cultivation, not sown from April zoth to May 10th, on the flat, one twenty one inches orpart, using sixteen pounds of eighth bushels peas to the to sow one and fiveseed ahout right, with only every third spout making a mulch and preventing evaporation of drills with one of the "weeders.. Thin after the third leaf shows first " bomeching'. them with a hoe
and then by hand, removing ill but one healthy plamt every seven imehes. Scuttle or cultivate II implement with the harrow form of teeth so That the ground will be kept flat, being careful not every rain. by the midde of July the luxuriant mint collects which. by the aid of sunshine, the pletely corer the ground. and the cultivation is tich rellow, and droop, the under leaves dying. The
beet is then ready to harvest, at an arerage weight
of frim one-alf to two nouds

The Proper Way to Roll Breaking. March 20 , by Mr. W. I. Higgins, a mistake is made with the plowing the Whating of breaking crosswise oppoite way from the breaking. For instan one geed round a land in breaking, he should haw athan in rolling. This is one of those little thing


## The diovarnment Seed Nhop

The ymotation given helow, from the ( ountioy a project, originally apparently very innocent simple, has been prostituted in the hands of unserupulous politicians. In the first place, the $\mathrm{l}^{\circ}$. s arietiegribition was to introduce entirely nel culture which might prove advantageons to agri vstem whe has degenerated into a wholesale out from Washington vast quantities of free parce to their favor'tes and " heelers," giving them at the public expense what should be purchased out of and pauperized, and frome people are thus corrupted real improvement can thesegratuilieshittle, if any is growing may be seen from the faet that abuse last year the seed contract was \$78 tre this wear it is $\$ 180,0010$. Our contemporary says:
"Judging by a number of packages of Agricul. office, the wrong and outrage of the free distribution has been made ten times worse this year than ever rarieties has long been abundoned: but this year there is no pretence at absuing even: but this year do not appear! Just think of of the varieties "ts are marked, "Celery, a Selected Variety':
'Cucumber, a Selected Variety : 'Watermelon, a Selected Variety, and so on and so forth, a unuserm. We should think the contractors could easily supply the stuff, under these circumstances, for half the contract price of $\$ 78,000-$ even supposing body in the department must seem that some incompetent or grossly dishonest. The thing has What is Mr proportions of a national disgrace.

Jumping Hard on the Thoroughbred Adrocates.
To the Fditor Farmer's Advocate
Sir,-An article recently written by Mr. O. A. ion to the horse-talk of this very valuable contribuof a large variety of the Standard-hred as a general purpose horse agrees with a great deal of evidence I gathered by systematic reading of American agri cultural papers while attending our provincial gricultural school some years ago. His opinion of the Thorough bred also agrees with my own, I once owned the stoutest and fleetest Thoroughbred that has ever landed in Nova Scotia, or is likely ever again to come this way. I knew thoroughly all another fimous Thonought the descendants of here. Ther gave anything but that left offispring and now when I hear or read about men in prom nent places advocating the improvement of our h e Thoroughbred
feel that "jumping hard
on them" would be rendering good service to
our country. When our country. When different the purpose
for which the Thoroughbred has always purposes for which we in this country must absurd that he should so often be advocated improvement he can
effect needs to be cor rected and improved very many agam for before it is all right for the uses to which we put horses. Is not this that has alieady theen done in the Standard lired, and, better still, believe in the French
Coach horse: Coach horse? These out of the original Thor-
oughbred, as we can see by tracing lack their
 medigrees. Here w
have the great fleetnes endurance and heaut
an incomparably better disposition and a more use English shows it has, during the last ten or a dozen ful action-good trot and walk-are added. The lack hack of the Standard-bred as a producer of general purpose horses. Is not this about entirel y overcome In the French Coach horse: I have read a good much favorable talk about them from, and heard have had experience with them in the I nited States
Now I would be very well pleased to hear their
sitithleness for our ('anadian comblitoms discusey them. I am also at a loss to account for why there United States, Where Considerable so many in the hilly and stony roads, as in Cape Breton is rep over of horses, in addition to heavy farm work, should not the Percheron be more suitable than the Clydesdale or Shire hors

The Harrington Hall Flock of Nhrop shires.
bersal sale of $\operatorname{Mr}$. sheep at Harrington Mansell's flock of Shropshire England, which is announced in our advertisement columns to take place upon August enth next, we have departed from our usual practice and obtained the sale and urther the interests of our readers, a brief any way of the world-renowned flock.
Its foundation goes back the long period of fitt seven years, during the whole of which time it has breeders and judges of the the admittedly hes Mansell, and his son, the present, Che late Mr. T. Mansell. The flock is one of those fewr, that is in pedigrees of act a pedigree flock, for full individual and dam's side, will he furnished. previous to $18 \frac{17}{1}$ has this record heen caray ully kep and-there can be no question but that it is mainl owing to this that the unrivalled and undisputed Greass Britain, Canadachieved by its produce i Australia is due. Canada the Inited States and Space will not, of course, permit of full extended pedigrees being given, but as typical of the rest w tended pedigree of Royal Blas a sample, the ex the Royal Show. Yorya in 1000 , frot-prize ram at export to Australia last August for $\$ 1,150$. Similar pedigrees are obtainable, so far as they go, for each which compose a flock which for it the sale breeding, true type and character, good wool and skins and uniformity, is practically unmatchable The actual numbers that will figure in the cata logue are 70
stock ewes, 120 yearling and two-shear rams, 260 young 130 ewe lambs. Therefore, any buyer who and chases at this sale will be ahle to secure in all cases a full extended pedigree that will be of considerable value to him, and in certain cases, where the older hardly be equaled from any other floct that can
Mere tabulation of the show-yand resin
little value unless the full report of each of these contests is known, for it is possible for any breeder important shows to exceed in the aggregate more number of prizes won thereat by success at smaller shows. Thus it is hardly advisable to go into any than to mention that at the four has won, more than to mention that at the four or five leading

"ther, is entitled to the honored name of th the sheep which have gone, and gove, to do way me and elsewhere, that year by year the original pur chasers have come again to get some more of that be of but little recapitulation of or might not lul guide as to the values the present ahd final sate will realize. This time will proverand we wenture to hoplee
that when the final sale record is made up, it will bee one that will, so far as money value can, fully the same time, establish a record for the breed that will be one for future generations the attempt to exceed. In fact, a record that will enable that Messrs. Mansell \& Co., of Shrewshury, who will forward catalogues and full information, to again publish, as they did after the livk sale; when ti vearling rams made the then uneyualed average of Red letter Day in Shropshire Sheep Annals.
INote- The sample pedigree referred to as being
sent with the aluere notes includes reference to the records of $1 t$ generations of high-class sires and dams, and would cover a whole page itself. which is
greater space than we can afford to give it.-Fw.)

## Contagious Abortion in Cows.

The prevalence of abortion among cows is, we of the most serious difficulties the stock.breeder and dairvman has to contend with. Prevention is so much better and cheaper than cure, that the utmost has been written upon this subject and not a fer has been written upon this subject, and not a few ment outlined by Mr. George Rice, in the FARMER: Advocatk of January ylst in the present year, for prevention, which treatment consists in giving in) to cow) daily in a pint of water to cows exposed to the contagion, or of which there is reason for suspecting that they are predisposed to abortion.
Prof. Norgaard, of the C.S. Burean
Husbandry, has published an article on this Animal that so well commends itself that we herewith reproduce it. with the hope that it may prove help.
ful to some of our readers who may be troubled with this scourge, as it seems to us that the hints might
by "Infectious abortion is a disease which is caused by the introduction into the ragina of a specific micro-organism which causes a chronic catarrh of in the expulsion of the fortus before the normal time of parturition. It has recently been asserted by some authorities that the infection is almost exclusively introduced by the bull, and that a thorough disinfection of the prepuce and penis before It is recommended to inject one quart of lukewarm solution of lysol, of a strength of one and one-half per cent, into the prepuce, immediately before the opening of the prepuce should be shorn quite short, and the region thoroughly cleansed with the same solution. The injection is made by means of common fountain syringe with a long nozzle. The closely around it in order to prevent the fluid from running out again immediately. By elevating the reservoir, the solution may be forced to the upper end of the prepuce and the entire penis disinfected. as possible by disinfecting the gutter regularls with one per cent, solution of sulphuric acid, and when a cow shows signs that she is about to abort, she and her fortus and afterbirth should be burned "When a cow has aborted, it is necessary that at least two or three months be allowed to pass before it is taken to the bull again. During the first part
of this period, the cow should be kept in a separate table and treated with injections into the separate of one per cent. lysol or creolin solution. This is done by the use of a piece of a common gray gas or
ruluer hose, about $t$ feet long, to the end of which ubiber hose, about + feet long, to the end of which and the funnel should be thoroughly cleansed with boiling water before they are used, and the wegi around the vulva, including the root of the tail, should be washed with soapand water and irrigated ith the lysol solution. The operator's hands and arms should be similarly treated. If the afterbirth the uterus washel oint first with warm water, and





arry the infection to all other cows he serves if the ahove precautions are not taken to prevent it. For
this reason it is not advisable to sell or otherwise dispose of the cows that abort and to replace them With fesh ones, as such are very likely to hecome
wfected. Only those which, after treatiment pron on permanently sterile should be prepared for the butcher.

## Selecting Stud Stock.

Pessimists are already "getting busy" uncover ing the mould of the past to find a reason for their horse market, horse-hreeders will overdo the thing in the next few years. looking at it one way, these pessimistic fellows have a little ground for thein ears too, if past breeding by horsemen is taken as or dam, it is quite likely that the maket will be glutted if breeding is going on as extensively as reported, for plenty of scruls are coming to market your good mares on the faported scarce. Keep and you need have no fears that vour horses will not find a good market. There is always a place for the grod ones. - Chuago live stork Worded.
he irne that a horse of only monerate quatity, it sound. will sell fora fair priceif hesuitsacertaindefinte purpose, but it is only the superior few that return asatisfactory profit for the raising. There will probs. ably be a greater percentage of mares in the country bred this season than for a long time, and hose that are sound and properly mated will. harring accidents, produce a protitable progen That was good advice to keep the good mares on the form. White quatity in the sire and dam are equally important in producing offspring, we can emty oreed such mares as we prossess, white we have ale farmer wish selecting the sire of 19Me foals. If suitable or wishes to he then hos to bred were chan he possesses him foals, as well as the of selecting the dams of his is a matter that enes, and to select these wisely
 some pantioular anco a morse possesses a fancy fo be will best succeed, because he will incline to jese them more correctly and give them to judge attention they require for hest results inless on possesses that liking for horses that stamps hime horseman, he had better leace horse.breeding to others, as he is more likely to go wrong than right ther ofen occurred that the old mare, lame or in because she has nothing else to do chosen to breed, else: but while this may prove satisfactory, there is scrong probability that some of her defects will nly this in hert is olfspring. The farmer who breeds only to the extent that he can havdy slight degree, athough such old mares when free of hereditary dikects, such as ringbone, spavin, roaring, and the tike, sometimes do produce well w
are well bred and wisely mated
Since the horse trade has adjusted itself into adhere to her particular closs a marespoutile to this end, the crossing of breeds should be avoided While we may expect a handsome blocky mare of the light draft type, bred to a good-looking light form and weight in many way between them in be disappointing in producing an offspring quite different from either parent, probaloly leggy and altogether lacking in puality, and it is quality to any particular desirable. A mare that incline draft, roadster, saddle or carriage, whould be it he to a stallion of the same breed as her sire, and it is not enough that he be of that breed, but also
that he is sound and good-natured, a good individual. and descended from a superior parentage on either side of his lineage. Nor is it enough that the par incular hreed we have in hand should he adhered to a wide difference in form and characteristics tween the first and second prize horses in hig Take, for example the Clydeslale clats at the recent Toronto Horse Show: the first-prize horse differed belonged to different breeds although though they excellent individual worth in how form classes of mares the first-prize horse would be more suitable, and cice crise. The breeder who is to the form or type of an animal he desires to breed, This image though only existing in the mind,
should be as clearly defined as though it were riving thing. He is a victim for the sharp groom or agent inless thus equipped. Without being wado in one generation what has reve effected in $4= \pm=2$
watking work horse is a time-waster, ame walking roadster is exasperating to its dric, le desired, a horse should not he used as :
less he is "well come" pedigree is not so important he havel pexcellence, especially in the near ancestry. cross two or three generations ago is as crop up as any other, and it is no had rule guided as far as possible by the progeny, if Searn of these, of the sire we propose th ation to generation, for the time will neves when all the animals brought into existence w equal to their parents. Some will excel them and provers of live stock are indeed few, whe know of their methods leads us to believe tha most studious care was always given to the mat in endeavoring to perpetaate the good and overomem

## Raising and Feeding Steers for Probit.

## Sur.- There appears to be a general opinion

 among farmers this year, that any person who is to make a profit out of his stock, eithers cannot isial or by feeding them for the export market doubt there is a greater opportunity to make a pion it on stockers this season than for a number on years. The prospects for those who stall-feed cattle are very encouraging for the coming winter But there are a few matters, to attend to in the oreeding and feeding of steers. The dairy industry has induced so profitable throughout the country stock in such a way as to develop milking centitie of the herd. It has been found that beef breeds en usually unsuitable for their business, and cows of various dairy breeds and crosses have been substituted to a great extent. Our only remark is " Pro ceed with the good work," But while doine sen remember that steers of dairy breeds are just grades of the dairy breeds, for we do not suppose there are many pure-breds raised for this purpose. as good-looking as those of heef breeds for the first three months: afterwards they begin to show the breeding, and if beef is the object, they are kept at an expense to the owner, as they make very goodveal, and that is a suitable time to dispose of them Then arises the question, how can farmers mise youngstock to consume the coarse feed of the farm. In the years past, it has been a custom with a number of farmers who raised grade stock of beef breeds, to or eight weeks old, their surplus of calves, If this systif if engaged in mixed farming or dairying. owing to the shortage of storich is not probable, be an opportunity for of stockers at present, it wholl oreeds to procure calves to raise for beef. Otherwise it winedsto advisable to purchase grades of beef heef. Although they are rasfood and convert it into still there are numbers of lean catarce just now. shambles each week. many of which might he fed or beef and thus avoid glutting the markets with dairy hreeds. Many of them are grades of various "scrubs." It is almost certain they are not cass as hany person, from the man who raises them, until the inhabitants of second class fare on the tables of food of suphorts of a full ration is reguired for the unprofitable it is to sell leang stock, as they have how reived tho little beyond the food of support. from which the profit, if any, is derived. ${ }^{n}$ order to cave afair maryin for profit, they should realize the time price per pound as exporters. But only it beef price except for first clats animats. Inder tockers is a profitable the practice of purchasing tockers is a profitable business. Of course. the man seldonssucceds in lifor he mats rest with an on conscience that he is only to be remembered in the It is an undisputed fanthropist.
aisers that the system fact among the best stock by which success mal be ataimed, mithy is the wal a be kept in a healthy condition, and kept growing teadily, It is not advisable to feed strong grail mportance thould suitable to secure rapid srowth feeding a ration may consist of oat straw, corn fodder and phatr the enough roots to add the amimas appetite and The digestion of the food. Hay may be fed to ad meals especially in case of yearlings. In fitting for to ground oats and peass. The grain should be fey sparingly at fist increasing to filt amount. Thi is weight is now reguired it the least possile cout



Military Tournament and Horse Show．


#### Abstract

Tut of five entries，there were four present：Mr． 0. Mi，nuleys Kitty Tymall and Rose of Burndennet． The sorby puir，thed by N．P．Clark，Minn．，are of   Kity Truall whd The correley marecond and  co．，coming Brd with wined：；ieo．Moore：Water  protably have stood higher． A much larger class of this breed was expected evidently changed their minds about show entries was disappointing，as some of the best stallions that have left Eingland had their names in the catalogue Bawden \＆McDonell，John and J．M．（iardhous were forward with good representatives of the breed．Belshazxar．the low－set，deep，broad，mature horse，with excellent quality and quantity of hone  hy Gavden © Nicfonelt Exeter，Ont，and shown for rival Wiecot Thumper，owned by the dent．had $\rightarrow$ masise four evar－oldor，of the uet whe same tirm， （iarthonse shonved a coil fouled in twe．He is hy


 clowe resemblance，being rangy，sumooth， brown inembitance，heing ryagy，smonoth the of good legs．Iohn Giarthouse aileoshowed an anir of mares，four shd five
 thereforere were not hited worked hard ynd


 good filly generally：

The mature stallion class in this Year，sum had there beena larger entry havert Beith＇s Sonw away the red ribbon． representative in his ustal frist－rate
form．This son of Cadet retains his remarkamle quavity and dash of action with considegribe athough he is taxed keen competition for sweepstake hoonors
Loth for the Eunglish Medal and for thi Canadian Hackney Society＇s prize，bu he defented them all，and got no mor－
than he deserved．Alewconer made lis appearance in three vean－olds．a mecently Tmported son of Lambten Connaught mought out by Rawden．Mc Me Donell．
He is a chestnut．known ac © Heir，and was bred by the Fonnaush ham．His rivals were Mr．Crossley sensational Ressenu Royal Oak，bred from
Ropal Standard and
 Syuare shot and Miss Laker，from were indeed a strong trio in quality and netion，and the judges．Messr：R．Gibson the Aex．Gaturath，spent considerabl
 the heuvier lacked nowhing in tuality
and carried himself hight，rapid and grace fully．The Croseley golt ispp and trace
fault，and carsied to to airy action thet he could not get athowis has shown mawning his first defeent，athough he the cob type thyn either of his horby＇s rivalt，is neaver is tery There was a yood di
made up of a good class of mares，seven in number yemrolds and with the excepption of M1．（trossley
 Machess，and Mr．Re lavies lady Ninto from
 selli．They were indeed a beatutiful tot，bred in the Perple Well Mrown，schooled mot hrought out． Ripe＂：possesses her sires color，form and werry
 driin＂ash and courrage that compels one to wish to drouncer datue won lst and was followed by the ionuener daughter of shapire Rickell and Moras： fact，this horse seems to stamp them all silize：ind then she horse sememis to stamp them all alike and
than whe she sister to lessica and the late
 4R．Mars old inchining to the collos tyene．nd white









## mestar

## hitch up award

and schooled and shown to near the limit of thein
＂hpacity，south Africa，the daughter of Jubilee lessin．（＇row it Murray，was a prominent year by has kept her up by Mr．Geo．H．（iooderham，who ocasion．A ham to form and won with her on this Shah，and owned by S．B．Fuller．Was next in place and she was followed by Doan Bros＇Defender，by Rossean Performer

## THOROCTHBREDE

breed，of whicht than usual centered around this They were iuch there were three classes this year： and Chas．McEachren，V．S．，Montreal．There useful horses，from the saddle point class，and all Andrew Smith，Toronto，admires a Thoroughbred， and usually has a good one．This year he showed chestunner，Kapanga，by Spendthrift．a hreedy tion is well represented in his illustration corma－ issue．While he is of the race－horse type and in last thought of from that standpoint，he fills the bill tie with the winnen for he stood for a long time a for King Edward VII．＇s prize William in competition Hamilton，showed（iold Car，by Goldfinch，right good stamp，li，1 hands and not leggy．He won and，followed by a get of C＇ncle Jesse，owned by
Edmund Bristol．Toronto He is called Knight of Sherwood，stands 16 hands，and is full of Kuality． exceptionally good one，there being about Adam Beck was high，owned by George Pepper Aises，and I．Meredith won some good victories．

Hunters were divided into qualified and green former up to heavyweight and lightweight，th to 150 ．Qualified hunters must have hee fatter up regularly hunted with a recognized pack of hound for more than one season，and a green hunter for uily．the compelitions were aiarly keen， form．They were as a rule ，and good jumping Thoroughored type．Adam Beck and Gey Pepper were the lagest contributors，but good horses were former gey other exhibitors．The exhibits of the to clear the jumps and in rule，better schooled commands of their riders，jompers were Performanceser a score of entries in the first class rule，good looking animals won，the winners in This is an interestron contest trained rider as wefl as sehooled，well－bred horses Many a hone refused his jumps，and many hurdles
mixed pedigree，from a trotting sire，but a good Murray，Toronto，won ist defeating McCartner＇ victor for several Graf Bremer，that has been the won isd on General Watson，by Sim Watson．He on a big horse， 1 li． 1 hands，of good parts，but he could West，and Albert Hewson．Grabams T．Reid，Derry showed a bay ：3－year－old，and both called Lord each rts．Reid won the award，and stood， Performer，the aged victor，for gold medal for best stav
There were finthrid roadsthrs．
hon shown．In the former and one 3 －year－old stal－ variety of form and action．Judging them a great nd hibited by Heslo Pavonia，by Jersey Willkes ax． utside the ring．He stands 15,3 ，was the favorite an apple，carries a good depth of body，and is as Dalton McCarter sire．His strongest rivals were aren Bros，Winnin Bryson，and owned by Mc－ whed by Fisher \＆Bution，Ringwood，by Sphinx， alton was in high tlesh，but in good stud for of rancearthy was in racing form，and is fitting s a race of important stakes the coming season Ansequently mon 1st awand tered the choice，and was the colt Pavonia Brd．Jim Bryson，by Bryson like his pathown．He is a good mover and guit paternal brother，Dalton McCarthy，to whom he

HORSES IN HARNESS
Horses in heavy leather are shown
ingly in three sizes，viz．，over $1+1$ hands singly in three sizes，viz，over 11.1 hands exceeding 15．3，and those exceeding 15：3 and under，and over 15.2 hands．There is also a class for tandems and four－in－
hands．In all of these competitions in Hackney form and action predominated and the more of it the horses poscessed， other things being equal，the better were was an important factor，so that it was of hittle use to show a green horse，how
ever good he may be．Mr．G．H．Good erham，Toronto，was a successinul com petitor in several sections，with horses ray．The mare，South Africa，by Jubilee Chief，that won numernus good awards last year on both sides of the line，and rival to butt against．She is now oward by Mr．Gooderham，who also showed Al－ ways Ready and Just Ready，a plain pair
on the halter，but extravagant actors on the hater，but extravagant actors nossean Jewel，did well in the small clace．
Rosser Yeager \＆Curzon，Simcoe，also Charles Hear，Guelph，had forward some good The various sale horses．
were heavy，running up to saddle horses the section for combined saddtle and har ness，and 38 for mare or gelding over 15：2 They were judged by quality，manners， paces，conformation，and ability to carry
the weight in their respective classes． As might be expected，the Thoroughbred cype predominated，and the finer，the better，when accompanied with sub－ exceptionally dual－purpose class was an

bred, alt hough mosit of the best entries were recor arious sections indionthe number of entres in th more common than good large ones. In the first case a dozen entries were forward, all good smart road horses, suitable for light converances on gend showing fine quality. Six entries competed in the higger class, and three in pairs. To a practica mind, it is a real treat to see at a horse show a lot of good-looking horses that make time first and display and harnessed for their work rather than display These features characterized the roadster class is compared with the other harnessed classes, that are calculated to attract admiration by extravagant ner than wily action.
There were two well-filled classes of ponies, 12:-2 hands and under, and between lㄹ.. hands and 1t.1. finer and theeter Welsh ponies, and the produce of these from Hackney sires: and it was the last of these, from

The Governor-(ieneral gave a first prize of $\sin$
nd a cup or medal worth Minister of Agriculture gave a second prize of sin for the best 4 -year-old gelding or mare for iiding or cavalry purposes, not less than 15 hands and not
over 15:3, and sired by an approved Thoroughbred over 10. This seasonable offering was the object of considerable interest, there being 14 competitors for
the regal prize. The winning horse, owned L. Meredith. London, is a bay gelding, named C'remorne $1.2: y$ hands high, and sired by Ranalagh Scottie, a chestnut gelding, 152.2 , from Gold Fox and
a Whistle Jacket mare, and owned by R. Porteons Simcoe, won Zad: and a chestnut mare. Ladr Athol, 15.3 by Gold Fox, shown by Stewart, Craig is Galloway, Guelph, won third. These horses were breedy, stout-backed, good-legged specimens of the

The Holstein Interest in Canada.
Kindly allow me a short space for reply to an editorial in the April number of the Holstein. menting on the remarks the above heading. Commeeting by our worthy President our last annual gone entirely astray when he came to the eritor has sion that the Canadian Holstein breeders most keenly felt the disadrantage of maintaining their own herdbook. I can assure him that Canadian breeders never regretted the step they have taken. and that the establishment of our own registry has done more for the interest of the breed in the few years of its existence than the Americans would have done for us in twenty years. Our President only expressed his indignation at the small. moven and unbrotheyly stand the Americans are showing clamoring for any undue advantage or favors. but just what is fair between neighbors. Alll we ask is that they recognize our registration. as we
do theirs.) This, the editor says, is out of the do theirs.) This the editor says is out of the
question, as our Association was not on a parity us wherein it is not ere Association is mope rated under a government charter: our standard of perfection, our by-laws and system of registration are amost identical with theirs- the standard of
our record of merit is placed even higher than their our record of merit is placed even higher than their are not one-tenth as great as theirs. But what of that: Has not the worthy editor got their own herdbooks? How do they compare with ours: It
took them years to get out their first few volnmes and then they were much smaller than ours are of which we publish one nearly every yeur. We are
a different nation, under different laws and circum. a different nation, under different laws and circumstances, and are quite capable of running our away from them was simply the fact that their affairs were run for the benefit and in the interest
of a few large and selfish breeders (which also led of a few large and selfish breeders (which also led to the establishment of a rival herdbook associa-
tion in their own country). Their membership and registration fees were placed so high that the beginner and smaller breeder so high that the very man whom
they had sold their stock to at enormous prices) was they had sold their stock to at enormous pricess was practically shut out tom either, so that they could to want to own the whote world and a patch to
plant potatock on trewtec at the aying is and it
now appear- that Citnata would foe this potato

 and still leave a cunplas :ow band veaty in the mone which they don sond in satificmt the superiorin
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Various Breeds of Cattle at the Vnion Stock Yards. Chicago.

Time has lavishly sattered, in this immense can be seen among the herds that graze on hillside. flain and valley, representatives of all the best time to time, find their way to the chicago mankel and are quickly bought up. Besides grades of most of the breeds and natives, there are the following Shorthorns, Herefords. Polled Ingus, Holsteins Jerseys cinernseys, failloways, Iyrshires, hevons etc, etc. These all are used for heef purposes, are also sold here. To the casual olserver, there ix a grest difference in the cattle that come from the is a sure indication of the progressand prosperity of the state or country from which they come Fizs They are small and thin-tleshed, as a rule : in fact all Southern cattle seem to he somewhat smallet than in the North. These are mostly grade lerseys,
with a fair percentage of low brey grade shoithorns, and an occasional Holstein. The class of tleshed, that weigh fromi 70 , to son pounds. Many of them appear to he old, broken-down cows, that are no longer of any use. The cattlemen down lack enterprise, so that but litule improveung, ant been noticed in recent years.
Everybody has heaird a great deal about the
Texas steer. The old-fashioned long horned steen is rapidly becoming extinct. The enterprisin shape. did not see much the long horns and odd introduced pure-bred sires and, is a ressult, there hat been a marked improvement in the class of cattle that eome from there now. Quality is the watch other. In the selection of sires at lexas to the been given to the Herefords, as they seem to than any other breed. They are strongly prepotent. and impress upon their offspring their own is noticeable. To-daty (April 2th th) , Texas steene brought in Chicago so tio a hundred. live weight. which goes to show that they posess yuality, and
were fat. The Herefords adapt themiselve best to were fat. The Herefords adapt themselves hest to that warm climate, and keep in better condition
than any breed ret tried there. Nany of these grade Herefords are sold as yearlings and are sen Forth to be fattened in Montana or the Dakotas and from there come to the Chicago market. Be
sides these there is a good class of catle misel the ranges in Montana and the Dialotas, but they are wild and do not get so fat as those that haven been in the feed lot. From Wisconsin and Michigan come a class of cattle that are largely of the dairy
type, and, as a result, do not bring a pist prie type, and, as a result, do not bring a high price
Nilany cows come from these states which have beell used for dairving and then fed for a short
time and sold for beef. From lowa and Illinoi come the choice cattle of the West. They have of excellent quality. Besides this these them are in the middle of the corn belt, and an immens quantity of corn is grown and fed. All the hes steers get corn, and many are finished with the Addition of oil cake. The prevailing breeds ar horns far outnumber all the other breeds together and they are evidently folding their own. They are distinctly a beef breed, but they also combine in themselves more gemeral qualities and are filling other breed, although they have strong competito in the Polled Angus and Herefords One of the choicest loads of cattle that ever came to the Chicago market was a cross between the Short yrade shorthoin cows, and the sire was a pigh hred Polled Angus holl. The result was mosi satisfactory, as the cattle were black and withon horns, and of superior quality. The breeder of in every respect. I also saw another choice loe Them a cross between the shorthom and Hereford These also were of excellent quality and wete much
admired by all who saw them. Fiom on and from what 1 learn from up-to-date breeders from the first crass of high-hed grades hy a pue as to say that suct meedt. in fact, many go so fa bised of either hreed, and from what 1 see. I can endorse that opinion. It goes to show what a pure ing along the same line it indiates what a parome nary grade. It mave not he out of phace to make

## we find them here:

Whare in demand of the Chatity, and fat, ate how consider them an excellent hreds send when
their thed chanacteristics on their offsprin
Herefords are also a good heef breed. They the south and out to pasture, but there is ency to bunching the fat, and the cancass has a rule, they do not. when slaughtered, proil much beef to the carcass as the other wo breest The carcass hangs up white and smooth, in well ${ }^{\text {whance is cortamly in their favor. Th }}$ them. They must be ripey to give the best reat of Burers like them very well
what we see here. To get the best results must be fed freely and the cattle must he
ripe. Herefords should te sent to market
 to get the best results. fixercise and prerient in urite door air conduces to firmmess of tlesh ion out added to the corn is a great help in finishing a sterer
properly. It is almost impossible to finish a stem

## A Dairy School Education

Inction of a first claseation neressary for the pro this question mpself. I would certainly say " les a dairy school education is mot only necessary, hom that it should be made a compulsory repuirement of Many of our makers who have never availed attending a dairy school are very unwilling to morit that knowledge of the trade can in any way be in creased ay areemonths comse insome of our dairy good makers, and have probably been successful in manufaeturing a good article for a number of years They have the practical part of the trade mastered that in chesemathing practice alone does not mak perfect. Practice is all right, and a man must have of no less importance. In these days of adrance ment in every line. we mus know all there is to be to keep abreast with the times. should know the "whys" and the "wherefores." his trade, or he cannot be a first-class cheesemaker He knows that certain results will follow if he per these results follow this comse of shotion know why To me mind the knowledge ohtained in the teriological and milk-testing departments alone wil repay the time and cost of attending a dairy school Anderstands cheesemaking is simply knowing how to content of different forms of germ life which you have at you
command: that is, to retard the growth of the und sirable, ind to encourage that of the desirable to th extent to which they are wanted. "heesemaking is the one is astsolutely essential to the thorough mas In the milk-t esting department a knowledge i memerally procured. Th When you speak of this process. most people under stand that you are referring to operating the bah, This is certainly true. but it is only partly true Milk-testing in all its bram hes has a much wide and these repuire at gleat deat of exta contend with that reymired to operate the baboock tester. thorough drill is given in all the various uses of th so simple as most people imagine. In fact, mos to face.

## Successful Calf Feeding.

suceese in raising calves by hand feeding may be way from the cow a few homs after hirth, of let sould have a reasomable puantity of the tins case fo the cow, and it soult more that one guart at first) of its mother's whot milk, Warm and fresh from the cow, three time datually to two yuats three times a day amoun asee. when one half may hee skimmed milk, and the Guantity may from this time be gradually increased till at tome week old skim milk may form the
whole ration, and four guarts twice a day be fed mad latel cis parts at at tume may be fed as the call be aholutely, at al whels fed sweet and warm. To Arinks should be scathert after each feed, as decayins the disease of diamhea. which is one of the greates canses of this masing miake cold milk, irregulatity

 24

Training a Collie
The Scotch collie is well equipped by nature fo his calling: his shaggy coat protects him from the cold storms on the mountains, and adso from being strat is used as an helm to steady and Hisist ing bushy turns on the mountain-side. A moltatiled doy cant not stop and turn quickly on steep ground without
whirling over. In the north of Scotland, black with a white ring


> Shire tallion. Sixcond wrive at Military Toumamen
> color: this on account of the ease with which they
can be seen on the mountains, and the shepherd cain tell when they are look ing at himby the white brewst. In scotand the dog his to work often at a gen distance from his master entirely by signs
> The training of a young collie is a very delicate trainer must he firm men are fitted for it. The GEVKR Goub hrm,kind, patient, persevering, and severely and hold him till the fright has possed, hen look kindly at him as you let him go, and he will hove you: but if you scold him, you have lowlook you in the eye agnin with amay, shiki to companionable, intelligent, trusting look of a nol shepherd dog.
> When I was over in Scotland in INMi I visited purt of scou riddel, of (freenleas), famons in that of $\$ 1$ y years, he had his dog trainer. Though a man heep ran away, most dous would try to stop it turning close in front. but he trained his dos to rum wide and away beyond the sheep quite a distance on the sheep, attempt to pass as long as the dog lay there one I have had some very good dogs in this Whough trained principally for cattle and hogis hogs quite a distunce scarce we had to drive our which 1 often sent even with strangers had a collie drive their hogs to the station, a distance of ten If a as. He was more help than three or four men the ear and supted tom hack, he would catch it hy with its hesd turned in the right direation then. Would let go and drop behind if: if it went right, repeat the operation until he conquereyl, withom Was driven into town. One day a drove of hoge Berkshire hoar so fierce that he drove wasery texg off the road which hee met. The brar seemed to rope himer but how to catch him wias the yuestion home proposed turning two bulldogs ont to catch neighlor said my sheep dog would hold him. I could jeerey and offereal to bet money that no deg realy and I will show you." Then, "alling my dong hp, he said: "Shep, watch him," He campht the side strioke with his tusks, expecting to rip the doy herl. The movement only threw shep ower his is head twisted around and his nose with in the rerfectly helpless. Now rope him and he is "ame the order. Then went up such it chees
> manalmost gets a fellow fieling fira thithtad a certain reeding. I think not pay to rink it does I have in mind a sucges. Clat horse breeder that
clams made more money in breeding horses
than in anvehing he than in anything he ever invested. and says he owes his success largely to the selection of sires and always keeping his stock ith
show condition. He hat quite frequently gone harl miles to a stallion, and hais the last three years been going twenty miles owims able to find his model horse any nearer. It would In wise for us who are not expert indsess to paltern
after this sime breedolon beved goon manes and lathe gored care of the colts, Mcially the tinst year of
Cheir lives. Thein fir depends langely upon the are the tirst winter ambly thereafter:

## Ciond stock Water

 Ne No Fynerand centent tese her it witemi. Then he plowed ant whe the the diorew find dows ansive withtle tatle and ant the Tin

## Draft Morse Breedine.

to slow thy to give a few points on horse-bmeyling ket is legging for, which is a draft horse with plenty of size, quality, and of a gooed color - hay history when the general breeder conler a time in with is when the general breeder could raise colts seuson and the one approaching, if he is carefult in waking his selections and has a higher motive in in horseeders: One of our greatest mistakes breeding is one of oure. 1 amm sure the cross not make so much difference if of different a great of similat type, but I think it does make horses with readse when we go to crossing drait a drafter nor a roadster. This ofspring is neither is a great source for the chunks that are toug ho the market and cansing a good many would he
eeding to please some
clever fellow that happens to have a stallion. est causes of common horses is that tom many breeders only object is less of what its future will be reatizing that the breeding season is a very busy time for farmers, and thinking to give a day or two in order that they might
be able to find just such be able to find just such as sire as is producing
the kind of stock the market is paying long
prices for -and not until too late do they find out their mistake sider this important question and use our very best judgment in selecting sires this spring. If we do we ward for our trouble. and in a short time will himean inducement for
loygers to come to our hoyers to come to our stock and show ont fully say it well trid even if it did cost a trip Ifter another county Aorter we do waise good we won't be satisfle: unles onr hamas are on the list ise sutisfied


Guilding is one of the farmer's summer dive futhiuldings. The farmbouse should be or other ds comtort and consemiences care beine tahen that prople like a good cellar: the getting to that Most s not always by the easiest mome possible. In thi ai dumb water ca miniature elocator from cellaw kitchen) installed, and thus save the endless rumning wo and down steps, one of the hardest forms of should we connected to, the soft-water cistern sink. Hewing of wood and parrying of water is not woman's work.

The source of the summer's meat supply is of ten serious one on the farm. Some patronize the butcher mot the most economical way from the farmer' majority depend on the cured pork the havestered away, ariety in diet tends to aid digestions that the following method of curing mutton hams The legs of muntound beneficiat:
Gired shape, and then have well rubbed into the a mixture of equa parts of salt and brown sugar: after this they are left to drain for about 21 hours At the end of that time the hams are placed in salt and bay salt li mumes of saltpen of common brown sugar, sind 1 oz of sal-prumella, all slowly boiled together in a gallon of water for about two hours. After cooling, this pickle is poured over the for a period of from 10 to that time the hamsare removed and hung up to dry after which they are smoked in order to give them the requisite llavor. Mutton hams comed in this what toublesome a novelty that in many places they aiy considered well worth the trouble of curing.

To the farmer that milks cows for the sake of the ect of Prof. (arisdale. Apriculturist it the the projExperimental Farm, Ottawa, is worth taking note ing cruls where they should pay dollows' It is time or a change, to use the hackneved political expres is doing so a spring halance, find out what each cow s doing, and thereby enable yourself to have a

Speaking of balances, brings up the question of keep farm accounts because they are afraid it to Thires the training of an accountant. This is not so: farme. ham kooks can be kept by almost any flnancial year how hew him at the end of eac mis Mer it making a mound perhapsa d doven fiew hish. er haw sold the weat heri wislmand and no man Comprature for waterine stock. Hi, has it pipel den ion it works like as charruin, and M1. Farkny



$\qquad$

Whes is otten the dase. The reason tow mond More cogent reasons are lack of variets in the diet
tow hurried meals, porlv-rentilated slep ine apart ments lad drinking-water, negleet of nature slaws In conneetion with the two latter. the farm privy location Frery summer in Mantotus. typhoid tever clams its victims. Why Because the wells
are in many cases contaminated br sepuec from privies or other excrement-holdiny places The germ of typhoid is passed out of the haman mody with the feces: consequently, contamination of thi Well water by feeal matter must not be allowed if cities the water closet or pricy is carefully lowked after be the hasrd of health: on the farm it is the most neglected of the necessary farm oftices. The privy, if of the open vault variety the worst form, from the welt if the open vault is need, it should Trom the welt of the open vaut is used, it should
be lined with cement, the contents should he frequently sprinkled with chloride of limeend removed at fryucht intervels. A better plam is to have a
watertight box constructed for the collection of the excreta, and dry eath or ashes torown in the box at inter cals, the tiox to he emptied tricican month the farm, the disposal of sewase will hee rendered less difticult.

The question of tree-planting isgetting to bealittle stale to you by this time, and yet one wants their
place of abode homelike. Nothing will tend to giv the desired homelike appearance to the farm-stead ing equal to healthy evergreens, such as th native spruce. The details of planting, tume, etc.
can all be found in the columns of the ADViM ITE The instructions given, if carefully followed, will bring success, because those instructions are given by experts

Myattention has been called to an editorial in the Virden Adivnce; wherein a paragraph of a late the stockmen are not the bulwark of agriculture The writer of the editorial has evidentlyoverlooked the articles from several of our hest farmers and grain-growers which have been running in the Abstock hushandry is the basis of all successful agri culture. The optimism displayed with regand to the handling of a new fund, to be handled by the my assumption for the live-stock industry of the premier place in hgriculture as nonsense is one of of the pressing need for an agricultural college in the Prorince if only to educate an editor as to people who are informed that the localities raisin and shipping out live stock are the ones in which debts are paid, and where merchants delight to sel goods. The grain system of farming means seven months work in the rear, and five months idleness class of people: the live-stock busingess is an anl-the yeur-round one, keeps up the fertility of the land keeps ready cash in the farmers' pooket, prevent storm, and keeps our tables well supplied with variety of diet. from beef to butter. The idea of charity being dispensed by cillagers to real farmers is as ludicrous as it is nonsensical. I have not
championed any hail-insurance compuny yet: still, championed any hail-insurance compuny yet: still, see no reason why an moprempentert company

## A Hint from Abroad.

The Scottich Farmer, commenting on the evidence tural Commissioner, before the Parliamentary Committee on Agriculture, at Ottawa, draws lessons for the British dairymen. pointing out that the latter, owing to alleged shortcomings of Canadian
produce, have now an opportunity of which good produce, have now an opportunity of which good use can be made. Among the points to which there has been a cessation of improvement in the equipment of Canadian factories necessary to urning out increased quantities of the finest product, regard to the quality of cheese arriving in England from Canadal. special attention is called to defi ciencies in homg and in regard to the ventilation
of cars and seamhins. We learn also that in ceveral lowalitios. wwing the brisk demand and make tering meveting- wat ach rated that patrons were to urnps, a phat. which had bon ontematicallt have been

## Thoughti. <br> that this

The Farm Separater in Heme and Creamery Rottormaking.

To the kititor Farmers
old-fashioned milk pains, and his herd using the thies pounds of butter pere one hundred phouds of standard makes of cresm separators his yield Would be increased by about one quarter or more. The same thing is true regaving the deep-setting
system. The gain hy deep setting over the shallow pans is not so much in an increstsed vield as in yuatity of hotter. In summer the deep-setting system will yield more butter, while in winter is to whether the deer-setting will equal the shallow pans or not: looth these systems have had their llay, however, anil the guestion now is, mot which system shath the farmer adopt,
but, having decided to produce butter, will hee patronize the nearest creamery, ors, by the aid of It rests with the indowidual to decide this proestion their matrons, perthans, give perfect satisfaction to their patrons, perhaps, on the whole not mome than about the ability of many farmers' wives to produce as good or even better hut ter tham the aremge creamery. Their ditticulty is not in producing, but in who appreciate a sood article and are willing to pay for it. If they take their butter to the grocer and sell at current market prices, they accept less than they are entitled to. They can only hope to pater to the home market, as the shipper cannot make up a shipment. The patron of a creanery properly conducted stands in a much lietter posifon to secure a market than does the individual producer. But this advantage is to some extent hy the creameryman. If you hire a man to do provided the price is not too high. What, then, is a fair price Where the crevmeryman pays for pound is a fair preace for making and marketing the butter. We have never known one to succeed at a less rate, and would feel idisposed to make very ery the owner of which professed to the working for less. Where the whole milk is gatheredand separated at the creamery or at separating stations, the cost is considerably more as the cream, heing only oneeighth of the whole, eight-eight hs have to be gathtimes as much labor as to sather the cream only Idd to this the cost of keeping up a ammer of costly power separators and power and attention. sple it puts this ritem practionll tat af to running, "specially if charged with the ditferenow in the value of milk skimmerl and fed fresh from the cow, and that which has been drawn some miles to the separating station, heated and good condition and in proper season. It is a matter for regret that this system should have so many drawhacks. Many enterprising men have invested considerable sums in building and equipping facin educating our farmers to the necessity of adopting modern methods into what is fast becomins the most important branch of the farming indus ry. But the farm separator has come to stay. . man will induce a parmer to tore tare ber of the product of his dairy for long, and a litte thought on the subject will soon concince him that he cannot p
without loss.
The writer knows a farmer who asserts that by from forty to fifty per cent. more money from the product of his dairy than by patronizing one of the tario-and he is a cloze figurer. The most sensible thing, then, is for the factoryman to make a virtue of necessity and accept the farmer's cream separated at home, and retain his custom. We leave make of farm separators will hest fill their remmire ments. There are several first-class separators on the market which should satisfy any famer, and it
is safe to give the " faker agent." who clatims that is safe to give the ". faker agent, "Tho claims that
he has the only . "perfect machine, the goloy The difference in the yield of butter from the that this item is of lees importamee tham to get a
machine that will fill the lifl in other meers The importance of it crearm-gathering creamery not less than the nead of the farm separator for
by this means only cam the hest markets be reached. A miformily first class article must be sent to the English market at an mimmom of cost to the farmer to make datrying a omplete success and the farm separator and the ram-watherims

Standproint ommendathe from the cream.
cresmery, but the operator of a sceparm.
cannot resdily ine induced to accept
eream from patrons, because it is sme tol lac the creamery, and lacking miformity, the ing is therefore less within his control. welcome a discussion of this practiond I........ ho Abatrons as well as a creamerymanis stamp

## Npringtime oll the Farm

What pleasure it is tolive on a farm! There many things of interest survouding the life of sisters are lacking at this seasom. To be sure there are privileges which they enjog, of which we.ate deprivet. Theme is one thing which, we belowe
 pent-up dirt and cobwehs, to be able, on some sum shing day to open windows and doors, and turn all inside out. Men, occasionally, appear to objeet e all down is mere pretense on their patt for en we are that if a spring passed by and they sam mo sign of a "clearin up time." there would be more grumbling, and with geod canse

What a difference between a breath of comotry air and city air in springtime: We will not atempt to descrike or analyze the spring alr of a ity in the early dawn. Gint the combtry air in the early spring morming , fleth the homse wite opens hoor or wimdow and dratis in a long. full treath
 trew aim at mingling of ofors of bodding hiter and theyst and the musie of the camadion wate band. Everything animate is preparing for an new the feeling that she is one member of a soat whole born to stssist of doing her part to womk omt the grast scheme of the momerse. Is she gones ahound then her eye or her estr catches some new proof of
spring freshnessand hevaty. The songs of the hirds beguile her into recollection of some long-forgotten song or hymn of her childhood. Fer and anom, per hapsone of the children of the home mashes in with may be it is a treasure of last summer which they have found just uncovered from it blanket of snow which to them is quite as interesting and valuable
as the city childs expensive toy. Mothers do not grudge a little time and show of interest to the hoy or girl when they bring to
you some thing of nature to exhibit its wonder or beatuty, look at the streaks on that pretty stom bronght from the creek or the shailshell and tak soft wee thing who carries his house on his back show him the downy wrappings of the hud. which protects it as the (ouay is wapperd it its bankel hill," amed let her soamd lie in the sme besicu it smi afterwards come and tell you what she saw there. healthy tre adea of life in the comntry hay and git if only their parents will take al litle pains to incul cate the love of them. Those very interests may eare the children from dritting in after-lite into bue a child with a true love for hature ame natures works and it is arare exception that
loses it. and if his mind is filled and his thoughts are intent on the works and phans of the (ireat The businese will he no room for baser matter instruct their children along these lines, but it reypures a greater effort: while to those who live in the comntry, the means are all around, and it is take adrantage of their negrect if they retuse th selves and their children.

Clean Milking Important
One of the things " worth doing well " is milking no cows "hyy at ought the mitkend clean every time it is mentioned. But its importance cat not
little thing to some men to slisht: i cow lows like a
is is remient to leswe a guant of strippings in the wded swinging agitation of a : nervious critter : but the the wher wifl sterent com might hetter have a " hath than one who doest Who with steis trom thim tham one Who doesm

## Rape as a Forage (rop

It will pay every farmer who keeps sheep or hom (1) sow a few acres of rape for pasture. There is no 'rip which can be more cheaply grown or that will montuce more whotesome and fattening stock food, timplimes but little labor, and can be successfully. aisend by any farmer who will give it a fair trial. It does not require rich land, though, of course, the

Give the Boys a Chamen
Duminion, Vre you doing your duty tow this gread you never had a fine horse and Dontianink hetcanse that your hoys must go without. Jay, if your hole are ever to enjoy life, is it not when they aye foung 'They will grow old far too soon. I firmly be traced to the father. He is lating the farm can should not spend money for this thing or thist boys never heard of such things when he was a boy. I knew a man who found his son paid twenty cents wheek for laundry bills, twice the amount for tobaceo. Then, too, I think their son's opinion, not only for seeing how cor sometimes follow them as is a fine colt in the stable. I buyer comes along and offers a good price for it. or Fred, but they to have taken care of it, curried,
fed, and broke it Now, don't sell it without consulting them. They are
good boys, and, perhaps, would never saly a word of objection. But they have a love for that colt-you
have not-and if you could have not-and if you could
hear them talk it over when they were plone, What would you hear.
Tom says to Fred: "That colt ought to have been ours, and I always thought father intended it for us, though he never said so, and Ithink as little as he have been to give us twenty-five dollars each. I know he put it in the
grown. It is generally used for fall pasture for
sheep and young cattle and for this pupmen time to sow it is abont the last week in June. Nown pasturinge, by the middle of September. As pasture for hogs, it may be sown early in May and pastured down, and the lewver are most again when eaten while sheep prefer the more matured stalk hogs. fatten mapidy on them. An overturned solks, make a very good preparation for a rape crop, if it is make a tine seed-hed and retain the moistowing to land. Iaind plowed the previous fall and cultivated occasionally in the spring, without plowing, makes a good preparation. Even stubble ground, plowed hesut and care be taken very well if it in good diately after plowing and to bring the land into a tine tilth. A fair crop may be grown on good clean land by sowing broadcast it the rate of tor iths. of Seed per acre, and covering with a light harrow. low ridges, 26 to : at inches apart, with at druip drill 1 llis per acre, and cultivating with the horse boe The clesm the land and hasten the growth of the crop. The seed may be sown in drills on the level with the pirt of the openings and sloping the rublier tusing into the shields of two or three of the hoes. The only athout ca inches with the ordinary drill, be narrow to work a horse hoe to best is rather too if workent marrow at first. to keep down wage, but the rape plants get high enough that they are not wider later on and a yood purpose served. There is livt as rape. It is well to give them the rum of a Mass tield, is well as the rape till they get used to Ahw latter, and it is also wise to keep the sheep off Whe rape at tirst till the dew is off in the morning, or hosit from eating freely of rape when it is wet. But hon they get used to it they may he safely kept on


## Charlock Spraying.

1e. 1s 1s. Hadleves report on spraving for the furms in Wharlock wikd mustand) on thirty homs in Wiltshire carried out for the Igricul
if Committee of the County Council in 19n! "s that the most successful results were ohtained
 ans of water, A single spraying in mosi cases h hee rest: but the double spaving is dechated

some day, but a fellow would feel better to
have a little to call his own now." |red vows can will, as soon as he is old enough, go where he can exirn good wages. If Tom is foolish enough a farmer should deal wing to his. My idea of how should consult their likes and dislikes. Farly in life, when mere children, they usually form them. special liking for sheep or poultry , Encouray have a all that lies in your power, for we all know if we them to make a success of anything we must it is poultry, see that house for his chickens -it need not he expensive (iive him at
start in somepure-bred stock, whatever wari ety it may le. He will perhaps like to try think thisextravagant such a boy. It seems out of place to have to have the profit derived from his llocks. Ye there are men, and am sorry to say boy raise turkeys, pay them, then takes halt his profit besides, the the farm ing haved of feeding and caring for his turkeys. Just sucl little mean dealing
with vourbors iswhy drives them to is what They know what chey
earn therw the earn there they an they see fit. In traveling siround, it
is astonishing how many farmers "ne hire good bovs to work same men, These same men, many of them, have boys in the best dairy salt should be used, which should be
ities either in Cainada or the States. Why are sifted ontio they theres I amada onfident in most cases the sifted onto the butter, whether in the chum or on they theres bam confident in most cases the the worker. There should not he a rough, gritty
tather is theme. I helieve that very few boys feeling when it piece of butter is pataced in the
brought up on a farm would haveleft it for the city mouth. if the right inducement had heen held out to the city remain. There is no occupation more varied than
farmings and it is an excellent plan for each memater of the fimily to have some spucial line of work out

HERMIA so
 used, it should pull out smooth, not stringy or greasy, and should show just a bead of water on the

Fifeen points are allowed for color. The scorin may vary slightly with the judge and with the streaky appearance Faults such as a motbed or cles of curd or a mixture of different churnings will Ten heary cut in points
quality of the salt tolled for sulfing, and here the mach salt means a lowering of the score. Only the

Hackner fill
int prize al Military Ambitions person will wamt athered for finish, the mocksions person will want them all. If tulis or


Ravor, consequenced that tis per cent is allowed for that his product has the right one. Experts spenk when cream is ripened proponly to be olotained When cream is ripened properly hy the maker. that the patron's cremm should important it is possible shape on arrival at the cremmery. It is a first-class article if the buttermaker to manufacture a first-class article if the raw material - the creammay have ripened before coming under his care devoted a great deal of time to identify have perponsible for good and bad flavors, Twenty-five fer cent. is the maximum allowed for the grain. more than the grain of the butter, shown by maker ing off a piece, when the fracture shows flinty edges among plher of broken steel. The grain shows, timong other things, whether churning was conpast the granular stage and, also, point-that is the butter is overworked or not. If the whethe

Ullowing y, your making a great mistake hy mol A boy who grows to be twent money when young clothes do all the huying and selling, even to the wronged. No wonder wears, has been terribly hione, he fatts. Don't have moneymaking your for the purpose of adding to every other interest No one will think any more of yournk account. and, as you cannot take a cent with you might you not hetter enjoy what diod has given you, making

The Score Card in the Judging of Butter: The use of the score card in the judging of butter seems to give satisfaction where used. In the hands by reference to the score the maker gets a hint of the deficiencies in the article manufactured by him. the possible points heing lou. score generally used,

$$
\begin{aligned}
& \text { Flayor } \\
& \text { Grain. } \\
& \text { Color . }
\end{aligned}
$$






 in moistened parchment paper. In ander to keep the butter pa chage clear, murlap, hould

The British Embargo on Canadian Cattle in the House of Commons Ottawa on May had hent.Col. Hughes, M. P.. asked whether any steps perial anthorities to land permission from the lima fast There was no reason why, under existing landed at Belfast and bublin and slaughtered there. instead of Liverpol and thenshippedthek to treland that the Imperial authorities had thatly refused to Open up new ports for the importation of cattle of Camadian cattle. He the subject of the scheduling of Chartly, and would follow it up hy the my Englant ous reprasentations amainst the ifijust most strent ness of scheduling our cattle, the result of which is aot only to affect our trade with Cireat Britain, but Conadian cattle. He bellieved that it couganst proved there has never heen acase of contagious done in live, upon the finding of Einglish veterina Ganadian veterinarians, after examining thed, but declared it was not a contagious disense which attlicted the animals. Of the $\mathrm{Sm},(\mathrm{On})$ cattle which had been sent to (ireat Britain since live not at here, it could not possibly have failed had existed (pon the merits of the case, the Imperial authori lies have not a leg to stand upon, and he proposed ouse of canadiane strongest possible manner. the the aspersion which it casts upon the injustice and Mr. Henderson (Halton) thought a golden oppor unity was lost for obtaining the ahrogation of th oreference in our market was given to Mritish manufactures. The farmers had suffered a loss of Mr. Jabel Robinson alone.
uffered severe-toss orving to theirdian inmers slaughtered immediately upon landing, and the anadian Government will be to blame if ther do not make a great effort now to have the regulation
removed. The (iovernment should alo o induce capitalists to start abattoirs in take step try, and this would pay better than to send the live attle across.
Our readers will await with great interest the
result of the effort which the Alinister of Agricul result of the effiort which the Ninister of Agricul
cure is now making to have the embargo remored

## Enriching Separated Milk for Calf

Tuete has been much controversy of late regard. food for calves. Our own views separated milk as a well known. With all experienced the question are of opinion that as a food for young calves the rival: but, while freely conceding the superiority of resh mitk for calf-feeding purposes, we are of pinion that much economy might be effected and nriched separated milk were judiciously employed sa substitute for whole milh
sparated mit muster it sutable for calf-feding ddition of certain sulstancos culculated the the the butter fat abstracted in the process of sueplac substitutes a number have loen emplosed from tim perhap, of all these substitutes is ondinary Hownery ceparated milk enriched by this substance given to calveswith most excellent results in many parts of Whe comtry, and have never known any losses It is of prime importance that the milk emploted should tee in as fresh and sweet at condition asoper of eparationt mill the trouble foreolting from the use fact that th.. mitk i a mot piven for caltes is due to the trom
 smplot...i noty .ind


wiven when the amimats are trome' to : or 1 monthe of ayen A careful wath should ter at all times kept fivensorgulated that it is just suthicient to keep the bowels in freer nin
or purge the animals Amother point deseming of sperial attention is
that only the hest puatity of oil shoudd he emploveed.
Cond-liver oil of pont thatity and low price will be Cobliver oil of pour quality and low price wilh the herter article. event though the price of the lastnamed may seem very high when viewed in the be ohtained. Wie have seen very unsatisfactory results from the use of cod-livei bils of cheap employment of such stuff when using the bil as a fat suhstitute in ofalf-feeding. Farmers (merevte:

## Bee Moths.

The bee moth, ar max moth, as it is more cop Coctly called, is mentioned by Aristotle. Virgil, most formidable enemies of the honeybee. The apiarist of modern times does not need to consult pest. In the time of swammerdara it was called the ber-rodf? The egg from which the destructive larva is hatched is laid by a dull or ashygray inch in lenglh, from the heighths to six eighths of an

wings and one and one-tenth to one and four-tenths inches from tip to tip of expunded wings. "The fore
wings shut together tlatly on the top of the lhate slope steeply downwards at the sides, and are turned up at the ends somewhat like the tail of a fowl. The demate is much larger than the male fond much wing, except at dusk and on dark days, but may combserved if disturg athout the hives or stored little and spring or glide swiftly away, so that it is very ditticult to seize or hold them." "It is unnecessary to reco
The wax moth far ite for is on the comb of honecbees, but if prevented from entering the hives by the bees, she leaves them in crevices under the cover or about the entrance, to their lege or bodies are carried inther there and reach the combs in this way. The egrs are perfectly mond and very small, and are deposited in little clusters. The larize from those eggs which


E2
or gnaw their way in and reach the goal attained the the wore fortumate brothers. " is soon as hatched, it spins around its body. It tirst it is like a merh its growth gradually increases in size, and daring
 fommation or hew combs contatining heasollen ary comparatively afo form its ravare It favorite

 $4-1$.
seek a place "to encase themselves in th. colonies they build their cocoons almost any otten piling them one on wop of the other in te between the combs, mutil the whole hive be pupal state anywher from ten or elewen five or six months, according to temperatmos to the season of the year, this being their normat wis of passing the witer. The first brond of muthis or August, and there is offer a third in hot wayly in (betoleyer. Still, it is never sate to home come umprotected at any time when it is warm enough Italian lnees
black bees:, in fact, if each hive has a faing than bred Italian queen, and especially if no hives well left queenless, there need he no fear of hee mothe doing any damare in the hives. The only danger is with combs Which have neen removed from the hives leave all extracting supers on the hives passible middle of September, when the danger is pretty well past. store combs in the hive or super th spot on the honer-house floor, or lay down a yueen excluder, with the rim upward, and place on it two thicknesses of newspaper, to exclude moths. Pile
the supers on this, taking cave to leave no crever where a moth can crawl through, and covo crevice with paper, to make the top tight. (Yombs stored even thus carefully should be examined occasionally to make sure of their continued safety. If at any
time found to be infested, ther should be overhalegi the galleries torn down, and the worms overhauled with a sharp-pointed knife, or they should be fumi gated with smpher or carbon bisulphide. As sul phur fumes do not destroy the eggs, carbon hisul that can be closed up tight, and put a puantity of carbon bisulphide inside in an open dish. As it is a limuid which evapmates like chloroform when exposed to the air, the fumes soon fill the whole box
and destuoy every form of life within it one dead worm can be found in the combs, you may know they are all dead. Even comb honey may be treated in this way without injurs: Ton mench cever

The Battle Agrainst Lice in Poultry
It will soon be time to resume the war against lice. A preat many people are very sure that their
poultry have no lice, and perhans they have not poutry have no lice, and perhaps they have not, to thocks are entirely free from them, and it is puite probable that they exist in small numbers wherever there are fowls, I tind so long as my fowls are hewough to seriously annoy them. On sick and injured or scaly-legged fowls, sitting hens and very coung chicks, they thrive when the general flock is introduced by new fowls, and it should they are practice to treat all hefwomers to a kling of lice powder of some sort. This should be Hock. There are several methods of treating houses system, and others will fail owing to lack of thoroughness in doing the work. Fumigating the is a very good plan to rid the house of such lice it hide in the roosts and the crevices of the walls have used powders in the market are good, but I and like it hersian insect Powder forseveral years have succeeded in keeping my fowls ever tried. I hoy using this insect powder thoroughly in the with insect rowsts, and on the fowls. Dusting done. The way to dust a hen is to thoroughly the hers and let her head hang downwards, hold and give her a paper to catch the surplus powder, itself into the feathers next to the skin dust work a poison at all, but kills the lice by getting into openings in their bodies. The person is thoing the dusting should work the powder well into the reathers, and see that it goes to the "right spot." is death to lice, but it is very often used too spar ingly. Of course, it will not do to use it indiseriminately on fowls, and especially on chicks. In nest to hide it can be used freely. It is a good planto apply kernsene once a month to the roosts nest hees, and sides of the henhouse. For the walls of It is mathe it hot shap suds with kerosene the best.
 implement is splendid thing for applying it to the
watls. It is far athead of the hrush, heing more A different warfare will have to be made on When chicks: sittmg hens ought to be dusted well well dertiored with herneme or lice paint of some kind, and it may be well to give the chicks a grout
dust ing when taken ofl with the hen. The easiest. meres and maickent witl with the hen. The easiest. frione they atw loe their boxes in the morning

Pumpere and the cxitra powder sived hut the dust note lard on the heads and under the wings of
clicks as a means of destroving lice This is a ellective way to do it, but do not put on toin much

## The Spring Chick

The great difticulty poultry culture is compelled مovercome, until it is admitted into full fellowship business must he admitted to the same opportunities that are extended to agriculture and the raising of stock. No man or woman com expect to sucreed in which they are ashamen. The production of eggs depends uphn the berson managing the flock. In hell to steal her nest away and lay 11 or 13 egge, meoode orody, and finaly come back with a little hen until next fiall. Those eggs were fertile and the chicks wete strong, because they were the first and have had woon egs the hen date. Tf re coutd away as they were laid, the hen would have laid more egys.
Fiery hen in a flock does net become broody when she has aile, but nature soon supplies her with new desire to bring out a broed of chicks, and in a short time you will notice the hen looking fine in appearance, and ere long she will be contributing her shary towards filling your egg lasket. Follow ing this thought, we find, by removing all the eggs from the nests, feeding the right kind of feed, etc... now occupy. We have all read of the hen they now occupy; in have all read of the hen in its
wild state in the jungles of India, where they laid only nine eggs a year. Now they have been brought to a state of civilization, where some of
them have been known to lay over ean! eggs in a single yeir. The first mine brown for for two weeks I give you this instime simply to show you what may be done
Some bree
Some breeds become broody sooner than others.
never had one of my leghorns to set I never had one of my leeghorns to set. I keep
Plymouth Rocks and common hens for incubation pirposes Every farmer's wife has taken the old sitters of the nest and thrown them out of the henhouse with a rengeance, shut them up in a box
where they could sit down comfortably, put a piece of an ear of corn or, perhaps, only the cob-under
them, and they would sit there as contentedy as if they had a dozen good eggs. A little thought and what the hen needed was a woman or man that have seen poultrymen have a light lath box and
swing it upoverhesed in the poultry house, put old biddy in, and let her swing where the fresh air well, and she will soon be laying again. I do not have to use one of these boxes as my chicks are non-sitters, and when the Plymouth Rocks want to it, I give them eggs.
many at once as you can. It will require but little more time and care to look after four or six hens nto chicks, if all the same age
Iho not disturb the hen during the tirst tis hours,
at takes just that time to start the chick on it as it takes just that time to start the chick on it lout il is better, I tind. On Ohe twentieth day the chick has drawn the last nourishment from the egg,
and is anxious to get out of its prison. It always and is anxious to get out of its prison. It always Mesks the eqg at the largest end. because it is
arays less moist and more brittle at that end.
Then, the the head of the little chick is turned there for air, and the beak breaks through the soon breaks a away from all feeble resestance, and thus ends the period of incubation.
We notice that the first : wh hours the hen sits
quietly brooding her chicks never once offering hem food or water. The first necessity, then, is hen and her famils, lear in mind their gizzards were given them to of soft their food, and if you keep their crops full imite disease. In my opinion, chicks should never "Wh meal, mix it with hoiling water, or, letter vet, tind the hest pasible food for the first week is othem in small phantities, some farmers will huk this is too expensive, but I find it purs for tew chicks and it would be just as protitable for
creater momber. What wostd your wite think


all day for them to want a variety of foud and to be of anything they like in the morning, wepeat it al nesily as well as when fed little and often. They
will pick up plenty of insects in the spring if they the parden and they will pick up all the meat they the parden and they will pick up all the meat they plants, but will not molest any of the plants until
they berome good-sized birds. FARNERE WiFE.

## Duck Raising.

Ask farmers why they do not raise ducks, and mine out of ten will answer that they eat more than understand feeding them they will if you do not one drake, and feed them principur ducks and during winter. If kept in clean, dry on roots disease seldom attacks them. Apoplexy sometimes attacks grown ducks when they are very fat. If will appear well ghay fice on their heads, they haclonent wer, afo stadenty turn over on their mold water from ponds of water and to to keep them away water so they cannot get in it.

Brov/s.- The Pekin is the largest breed and also the most profitable to raise. The feathers, being a feathers, white, are also worth more than dark hatched ducks and mate them with a two-yeanold drake in December. They should not be closely related. It will pay to buy a good drake and give a few dollars for him. Your ducklings will be stronger, larger and easier to rase.
pulped durng cinter:-1 feed principaly on roots pulped silage, steamed clover hay, and at night a goor teed of meat moistened with sour mik, and open shod with plenty of litter on the topt to feel trough being arrunged so that the cannot into it, for ducks will, if not prevented, waste as much fooll as they eat My way is to have it arranged so that they have to put their heads through between slats to reach their feed and also their drink. Always have water where they can go to it at all times. They will start to lay early in will spring and often lay until June or July. They will lay a hundred eggs each, with proper food and run is soon as the grass starts, 1 allow them to night, a liberal feed of moistened mence a day, at ent suny kind. 1 They come to their pen regularly for this. I then fasten them in until morning.
the numlier given, always setting two hens the same day, giving the ducks all to one the hatched. I set them away from other fowls. Keep feed and water before them, and see that they get off every day I place an old sod turned upside inches of chaff ou top. Often every egg will hatch inches of chaff ou top Otten every egg will hatch.
Care of young. The hen is placed in a large coop with a yard six feet square in front of it, made of poultry netting one and one-half feet high and
covered over the top with netting. This protects the young ducks from cats, dogs and other enemies and prevents any other fowls from stealing their feed. You do not have to ron out to your pen a dozen are carrying of your ducklings. A trough is kept in the yard, one end used for feed, the other for water, with narrow slats all around for them to put their heads through between, the same as the water, and feed five times a day : the first two weeks hread, soaked in milk, squeezed dry, or curd after that oatmead, corn meal moistened with milk with it apything for a change. Try and mixe them full, but on no account feed whole grain ducks. When a month old they will do just as well without their ord mother hen, so set her free and orchard ani ideal home for ducks, Never allow ducks in the hot sun. It is not good for them. There should always be a spot in their run that the sum does not shime on, and when not busy eating shade Feed just as well as you cam, all they will ewt up five times a day. Keep their appetites keen ly contimually changing their feed. Variety is the spice of life remember this while feeding ducks
Ingleworms are excellent feed for young luck If you have no meat convenient for feeding, get the
children to dig some worms for them. Twice a week is often enough to feed meat.
lress from eight to ten twelve weeks old they will
some protit. Then there ire fourn a hand unally, bring a mone' made by letting a flock of ducks roam all ue in the fall and stuming them with corn, as is often done, to he sold for the Christmas trade,
when there is plenty of poultry of all kinds on the

## HORTICULTURE

## Timely Sugeestions.

From the pamphlet recently issued by the
borestry Issociation, the following extracts are taken: Cold Joll, of Virden, recommends the fol lowing, for ordinary prairie planting, as the bes Ader); 3, Russian poplar: $i$, halsum poplar ; ottonwood: 18 white spruce.
The Manitoba maple is pre
The Manitoba maple is probably our best-known great size, as soon decayiny at the roots, and as a great attraction to insects ; but in the open country we are fond of it, thongh it seems to be unpopular as a shade tree in towns and cities.
planting seedlings and cuttings, the ground should a year before sowing or planting, be plow should, rowed, thoroughly pulverized, and not a weed haft In the year following the preprarvtion, the seed may rows make less cultivation necessary than broad rows do. This is really the nurseryman's stage.
For ordinary farmers it is better to For ordinary farmers it is better to get seedlings or cuttings thus grown by the nurseryman. When seedlings a year old and plant these in rows three or four feet apart and say three feet from each other these may be again transplanted into the avenue wind-break, or plantation.
Plonting,-About the middle of May-always watch for Arbor Day - take the seedlings or cuttings or sharp-pointed stake mate a hole with a dibble cutting. The cutting should be down six or seven inches, leaving two inches above ground. After

Seedings of the Manitoba maple should have the fibers cut from the roots and the taproot removed, and then be planted an inch deeper than when in lings should be well spread out and the plants well watered when planted.
growing now. -The real work of successful treecases out or begins. Failures in the past in nine Continued effort is the secret of success The motio or the treegrower is : Cultivate! Cultivate !! This may seem unreasonable, may be called a "fad," may seem to some to leare out the element of a success. Cultivation is essential to sole road to of soil on top to keep the moisture in the earth. When the soil is allowed to form a hard crust, or cake, it makes a good conductor to take the moisest crusting begins to appear. Weeds ming be destroyed, else trees will not grow. A weed serves from the earth conductor for carrying the moisture large weeds near the base of a tree will tate awa as much moisture as would keep the tree alive. Wisdom then says: Cultivate, and destroy the weeds of course this patient care is only the trees thicken, the leaves spread, and the soil below the tree becomes so shaded that the bating by the sun does not take place, and the weeds cannot grow. The farmer then enjoys the beauty and Superintendent of the Brandon
Farm reports on the
plantation of one acrere. - In the spring of 1845, a plantation of one acre in extent was placed near the leaved maple and white elm. The object in under taking this plot was to find the cost of planting and large enough to shade the ground and they were furge enough to shade the ground and prevent the
further growth of weeds. After four vears this plot has reached that stage, and in future will be kept clean with a few hours' work around the

## 

superintendent Mch
perimental Farm, adopts the following plan for young trees the following plap and re-planting the deep furrow was plowed alongside the young trees, and the long roots cut by a second furrow, which enabled the men following to gather the trees in fully protected from difticuty. The roots were care. with damp eart sc som us they we and when required for planting were taken out in a tub half filled with thin mud.
ing twice in the same place, as deeply as possible. and the furrows as far apart as neocas two or three men, according to the length of the furrow, follow, as soon as the furrow is made, and plant the trees by placing the roots in the bottom of
the furrow and drawing the esurth from both sides with the feet, and tramping it well.

THE FARMER'S ADVOCATE
 ainds while they are being set out. Is soot

## QIESTIONS AND ANSWERS.




 Veterinary

## worms and swam

 worms being accidental. The condition of the you mention is not injurious if condition properly. might be well in future cases when horses play out-which in other words mesns that thes are is insufficient to make up for the waste gooing on in the system. the result of work-that insteand of therning out, they he fed some nutritious food in
addition to the grass. addition to the grass, While grass is Nature's
restorative, an animal hadly run down seems to need something additional depending on the con-
dition of the gras. Sulphur will not prevent dition of th

## Labored breathine.

Will you kindly tell me what you think ails my a day, four quarts of chop old: fed three times yuarts: bran, one quart), and hay: jupt newly broken-in this spring. I have noticed these two heavily. She has always been strong and healthy and is in good condition. I began chop feed last week: was feeding whole oats and har before. There is no cough or anything apparently wrong
with her. When she pants there is a perceptible trembling at the shoulder.

Manitoba
[It would be hard to say, without an examina. tion, what is wrong with the make. The work may be too heavy for her. If she had a heavy coat of Would advise having her examined by a competent

1. What rariety of ailments.
2. What can I do for a young mare with rat tail? old, is weak in front tendons, slightly swells years front legs after being driven ten miles or so. Swelling goes down in a day or two. Would it be a good plan to wear a support, such as is used on trotting with dry or cold-water handages after driving to prevent swelling.
in her water, and straddles while slightly affected doctoring the kidners will while traveling. By her legs under her more and travel better, or is the habit permanent?
lations for entering stock at the rules and reguExposition : entering stock at the Pan-American (1st. As a rule, nothing can be done for a rat tail except to get the tail of a dend horse, skin it carefully and get it tanned with hair on, and then This has boen done so skilfully in some cases ack to appear quite natural, and horses with artificial tails have been sold to unsuspecting purchasers.
ond. The best you can do for the weak tendons is to apply cold water freely and often, and apply cold-
water bandages when in the stable, especially after arive.

I cannot answer this question without know
nature of the affection rou mention but the nature of er affecion you mention, but $m$ ut the gait you object to is natural. She evidentl san animal of weak physical development. th. Frank A. Converse, Pan-American Exhibi-
tion, Buffalo. N. Y.l
atkophy of the liver in pie,
I had a pig that had been ruptured before it was
weaned. paltered it and put bowels to their place and sewed it up. It has always been healthy and
well, to all outward appearances, I fattened and
villd it and upen killed it, and upon openimi 1 liomen the liver covered diaphragm and intestinecs the. The liver Was not more than half grown. What is the cause Would
it affect the pork, The poin duec not seem to be

## opreration mentios ithe



1. 1 have is make mane with monebosit. eral pumpase mate. fwo years arol l dored har to Percheron horse: she carried her foal eight month then lost it. last rear t brey her to the same horse Coud rou tell me, through the Peterinary column
 It would make: any ditference if I should loreed hee
to a lighter horse: I worked her on the farm at light work, but neverany on the rowd while carmsing her fout.
are wats a sencher mare, nine years old. Her Ghe has a mixed wait sometimes a Wirrior mare distance. Ploce or gallop. When the is in the black very short sveryensilvshod alllout her right hind foot, which mody: then, again, she will lay her full weight on the blacksmith. If I should breed her would her colts he subject to the atme gait
2. It is possible abortion in your mare on both no knowledge. Some mares acquire the hal hat aborting, but in such cases they acquire the hably of athort about the same term of gestation, while in your case once probable that the stallion was accountable for the accident: still, I think if I bred her again I would select another sire. Watch her closely at about. gently every day, and feed on light, eatily digested tood, If she shows any symptoms of abortion, put oze landanumm in darkened box stall. give her: and again if necessary, and keepquiet for a few days It is probable by careful handling and watching $\stackrel{-}{-}$ I do not think there is anything wrong with hind fore but nervousness. Her actions with right hind foot while being shod is likely only a habit. ed foal than a true-gaited mare would he:still if you breed her to a syuare-gaited trotting stallion of strong individuality, it is probable he will overcome this tendency in the offspring.

DISEASED LINER in COW
was a failure of manure, next mornt I noticed wrong failed and she commenced bloating. Thinking it to be impaction of the stomach, I gave her five or six pounds of salts in as many days, together with lin. seed oil and tincture aloes, and used injection suall intestines clean as far as injection reached, the food in the stomach in a soft, normal condition. no effect of physic showing. But the liver was 3 pounds good weight. Ist. Is there a remedy for enlargement of gall: - Isd. How can we as farmers detect the difference between enlargement of the glarities of that nature. By anwach or other irregAdvocate you will confer anore then the number of cows attacked in this section.
Ust. There is no known remedy for enlargement
of the gall bladder. The condition is not suspected of the gall bladder. The condition is not suspected
until it has reached such a stage as to interfere with digestion. any disease of the liver or gali bladder that inter feres with its secretion or entrance into the intes so strongly resemble those of ordinary indimestich with, in many cases, impaction of the rumen ami tympanitis, that a farmer cannot be expected to identical. but curct, the diseases may he saidto be indigestion caused by liver disease, the skinassume a yellowish tinge. which is not alwavs readily recognized. In most cases also, the animal does actual symptoms of disease are noticed. It is ore material for a farmer to be able to diagnose the con dition. All that can be done is to treat for indiges and gall bladder were in the state you describe he
blach-gtarter in cattle
1st. What is back yuarter in cattle :
Brd. Is the meat poisonous: Will it cause death th. Woes it effect the whole carcass or just the
quarter it is found in?
llabek-quarter is one of the forms of anthrax, lapidly fatal and infections disease, due to a special It previails in ricla, damp pastures, in cattle and animals and to man. Black-quarter is sometimes neck heast or side, is most freyment in yomg and $2454=$ (4) 2ex $25=2{ }^{2}$

ondition, and looked to lwe in good health hery had. is someaves for two years, hery had. As soon as I started spring wo hacking congh aud has got thin, and haif and rough. I am feeding a few oats and han rum grass as much as possible. He will net.in standing a little whis worse when working. coughs.
IThe symptoms of heaves vary greatly in sity, owing considerably to atmospheric conditions the for consumed. In many cases, without apparsuch an extent ats to render the amimal pration untit for work: and then, also without abewn cause. they freyuently disippear until little or establisherd case caused. There is no cure for an lessened by careful feeding and watering can b refusal to eat may, in your case, be partially due to
the condition of his ieeth. You should have his fenthera lulky ven of rmace (llem what strww him a full feed hest bulky food you can give. Feed good clearioat them. If he yonamtites, if you can get him to eal Cive water often, and a litte at he cannot work everything eaten with lime water. The points tel chserved with a horse having heaves ave: Be cum verything given is of the best yuality, dampen it I phantum preginaney

farrowing, showed signs, which, at her time fo remained so until nevurly a month after, when and healthy condition. fed roots bran, Sto is in good three litters, all strong and rigorous, What had difticulty: should she receive treatment befor meeding her again: If so, what should the treat| live |
| :---: |

at the last service. your sow, failing to get in pig before (regularly, we presere near for her to farrow, had she been with pig, tool on that appearance from sympathy from former "expectancy," having certain temporary is called effects, and which is called phantom, false or simu ated, pregnancy. Nould suggest that before breed-

## Miscellaneous

Ve e have an cow which has had a lot of red lice but they seemed to do no good. We steeped toall gone ret the juice on, but they have not all gone yet. The cow seems to the in good heart
and heath. What next would rou advise: TII hem a cattle beast becomes badly infested with cermin. it is no easy matter to get them thoroughly on parts of the body not readily treated with insec ticide. We have great satisfaction in using pyreth. rum insect powder, repeatedly dusting it thoroughly however, it is a more thorongh plan. We believe, other of the sheep dips or cattle washes advertised in our columns. They are prepared to destroy vermin, and full directions for use accompany every package sold. They are usually kept by druggists, advertisements. The application should be thor Ough from end of nose to tip of tail and to hoofs. It should be repeated in a week in order to catch

## Chicago Markets.




 tuwrace
lheraili Sore cith. A mall hum or two that were good enough





## THE FARMER'S ADVOCATE



THE GUILD OF THE BRAVE POOR THINGS
"- It it to be callerd the lhok of Poor Thius. mother dear. like mes or blind like the orsant turer, or haud heir beea hurn




If you ever happened to meet a little lad named
leonard, who lives in the pages of leonard, who lives in the pages of Mrs. Ewing s
"story of a Short Life," then you will remember. with misty eyes and an ache in the throat, that chapter wherein the hero directs from his wheeled chair the ruling and printing and illuminating of The of Brave Poor Things.
Wich not only makes him a cripple, but racks him with distress and pain, and, under the nervous ing." he has become capricious tyrannical, orment to himecolf and to others. $\begin{gathered}\text { tyrannical, } \\ \text { Fortunately }\end{gathered}$ when things have reached a climax
of wretchedness his wise mother comes the the rescure, and, appealing o the boy's courage, his sense of
ponor, and to his passionate interest in soldiers and soldierly qualities teaches him that thoughia military ife can never now be his he yet may motto of the family, Lertus sumle men, is so interpreted to the child that he grows to feel it a matter of duty to ke happy with his fate and eve "lots of brave atlicted neople and perhaps there never was any hody but him who wasn't so.
Leonard has a touching interview which, true to his great life-interest he is intent on finding out whether. if he is very good and patient about alot of pain in his back and his head, that would count up to be as hrave soldier: and whether being ill in bed might count like being a soldier in a
hospital
lould suppose nothing not even if li
co good alwavs, from this midute right away tils, from this
mie - nothing could ever
count up to the courage of a $V$. en questions the boy count up to the courage of a V.C."." questions the boy
wisfully; and the brave, tender hearted wearer of
in the priceless bit of iron answers tremulously, "(God knows it could, a thousand times over!
Leonard, and the Book which he thought out so in the Bermondsey Setlement Southe formation the Guild of the Brave Poor Things, It is an as ciation of men, women and children, of any creed or no creed, who are crippled, blind, or maimed in any way Any one is eligible for membership if
thus aitlicted, and if, at the same time th it resolved to make a good fight in life. Luthes sorte mon Happy in my Lot is the watchword of the inild : and its hymn, the one which Mrs. Ewing's
hero called the military chapel which he often attended the the diers sing the verse begining," A noble army, men and boys." with such tremendous impetus and
vigor that, after a brief contest, they invariably pilled away from the organ and the whole choir. The deepest purpose of the Guild, seys Sister
(irace, is found in this verse of the hymn:
 he followt hearis fist in
T.ery heirt," and by teaching its members slumbers in "Wrage to bear and the courage members that the one and the same, that the cuild lives up to its numgh patiently to arcept ones that it is in hot
hat one must also learn tout It is inherent in the verv idea of the (fillid hould bring light and brightness into cold, gray ns: and so, in every room in which it meets, the Hs are draped with the Union Jack, and high we shines out in brilliant scarlet letters the whword. heotus swite move. There are badges.
ithership, cards and hanners, all in red, the sol.
is color, and the true milititry spirit is insisted
against my thinam, slike as sentimer frace "tor whand Ginting: and, to shut out such a prasibility, the life of ill its members and must br ready to do
everything that can be done to minimize their everything that can be done to minimize their and does not give relief. it is merely, however, organization of aftlicted persons meetiny frequently. with leaders who are interested in their troubles and who can give strength and courage to bear it is done through other societien and must be given, asking nor giving here, save in the things of the The Guild of Brave Poor Things was organmeet, and so well has it taken has it apparently "together" spirit of the age, that it now has six hranches, with a membership of more than five many persons in one locality who that there are so to such a cluh, but even more pitiful would it he were nothing done to lighten their double woes of The variouse.

The various things necessary to a successful Grace: To visit members in their own homes and establish personal links between the workers and $\geq$ To hold regular meetings at stated interrals or games singing and social intercourse
and suitable lectures as possible, technical classes of the (ivilid. to mes within the reach of members concerts, etc., for them, together with excursions, means of widening their necessarily restricted
That Guild's rules are few and simple : merely in all branches that llags shall always be sam


At the close of the exercises the roll in alway,
ailled eath soldier of the army, from baby to gray beard, answering to his name and thien comes
Leonard's. Tug-of-War hymi, for which all stand or at least acsume has nearls, for which all as weak limbs and twisted spines will allow. It is their hattle-hrmn ringing in their ears they and if with its ectoe homes and quit themselves like men, if they can fly can fight het banner with its joyous motto if they weight the hattle of life with courage, heavily called the bravest army that ever went forth to

## On the Thames.

The hour is evidenuly one drawing towards evenby the expectant attitude of the cows as they listen for the call into the sweet pasturage of their own time overdow close to the water's brink. Milking buttercups all through the summer night to alwake at early dawn for another day of hlisstu) inativity of sweet Thames side, all unconscious of the beauty the living surroundings or that they themselves add still life can be perfect On on no picture of mere esque, well-wooded little island is man fishing from the inevitable punt. without which no artist could dare attempt to portray even the quietest nook of loyal old Chames, whist to one who knows falls over the weir near by seems to come water as it by merely looking at the deceptive sweep of quiet water, which is all our picture shows of the big There are rivers and rivers and forces historical Thames, even if they only know the paper, must alwass evaare a charm for kvery loyal
subject of Englands sovereign in what chect of England's Sovereign, in whatever part of Canada their lot may be cast, yet with what pride Dominion, with sheer precipices for
banks. with torrents for cascades and with a weath of water-power
which the whole civilized world which the whole civilized world
might enyy Still, lach has its
beaty, and each its source of useful-

## Recipes.

## hovs with mecos

Pick over, wash and drain six quarts of boiling water, add one tablespoon salt and one quarter teaspoon soda: cook forty-five minutes: serving dish, cut, across severge times: have ready hard-boiled egace remove shells and halve lengthwise, place the halves over the top of the
greens: melt two large tablesponn of butter, pour over the greens and egzs add a dash of pepper, and
serve.
dandelion salat
The white, crisp leaves of the
irtues of loyalty and prompt obedience te culti name, address, and condition of each be kept of the And what are the proceedings at the (Guild meeting? you ask. held either in the after may be heold
These evening, and so great is the interest in them that many of the members gather at the entrance long Capernaum when the sun did set and wheve thy brought unto Him all that were sick of diver disenses, and all the city was gathered together at There
mutes: there blind people here; there are deaf selves along, and others who must be puished in chairs or perambulators : there are as many phases persons, and all aes are represented as there are much good-fellowship and constant helpfulness is Tables are set in the (iuild-room, where looks seeing eyes : there is a piano for the blind those of seelng eves: there is a piano for the blind ; there is home : there are toys for the younger children : and there is always a painting table. for it seems that mottoes and pictures to color are in great demand
the vear round. the vear round.
Nany of the
or other handiwork, and chat bring their knitting their busy fingers move: the men fall into conver sation over the games and pictures, and thus the ration and sufferis. In many of the Ciuilds weekly half-hour lectures to be greatly enjoy and travel are given, and seem to ce greaty enjoyed; and al ways when games and
lectures and conversation are over there is the everdelightful singing practice. If any of the orembers are found to have special uusical atbility, hir a knack at recitation, they are encouraged to
help in centertainument, and conside
thus diste talent is thus discovered and a new
estimate of the posper
out cooking. Tear apart
of the crisp leaves, using the whito parts: mix through the leaves two tablespoonfuls of mayonnaise : one egg. three tablespoons water hwo tablespons vinegar, butter size of a nutmeg half saltspron salt, half tenspoon made mustard, constantly ; when cold, pour over me thandes stirring

Boil till tender in our
sparagus, cut in inch pieces drain thounds of beat two eggs, whites and yolks separately, adding butter tand afream to the yolks, half as mucl with the asparagus, stir in the whites and shove che saucepan over the fire till hot: serve in a deep dish with points of toast.

Boil the as
ater to preserse is thot wo tender. lay in cold dressing of oil, vinegar, pepper and serve with the rowowing manner: to four tanjespoons of solad pepper: beat well, add slowly, drop by drop, two ns of vinegar

## Fate"


Ind the eo eerer sheing, aund no heerd:



THE FARMER'S ADVOCATE

## THE QUIET HOUR

## The Bondace of Fear



Someone has described a picture of a churchyand is walking. A dying man, who is leaning agains the gate-post, says is Do you not fear the church yand path?" "It is my way home." is the fearcless
There is one subject in which we all have reason
to be interested. Young and old, rich and poor, the happy and the miserable are all steadily moving on such great importance to every mortal, would it not be as well to think about it a little ? Some people never seem to realize that death is in their path
Death is not in any of their thoughts Death is not in any of their thoughts, and ret, no
matter how full of life ther may he ther will handly escape the last enemr. Other people do think of death. and are terribly. afraid of it. Surely there "are many to-day who through fear of death, are slavery of fear! What right have we to be in bond age to an enemy which our Master has conquered: Those who know nothing of God may well tremble when stepping, out into darkness: but when a honors the Lord who has given hime the victory over death. We are often rery inconsistent : singing joyful hymns about the life after death and our de-
sire to reach that better world, professing to believe sire to reach that better world, professing to believe
that the pleasures of this life are not worthy to be compared with those of the next, and all the time clinging with frenzied clasp to the smallest possibility of a chance of prolonging our life here. ing with our God. It is not only at physical shrinking irom a physical death-that is natural enough: and even our Lord, in Gethsemane, seems to have endured that human dread. The
fear we should try to overcome is deeper more like spiritual fear. If all, or nearly all. our pleas. ures, aims and ambitions are centered here, of course we shall prefer to stay here. Where the
treasure is the heart will be. Think of a man treasure is the heart will be. Think of a man
who has devoted all his talents, time and oppor tunities to the making of money. What has he to look forward to in the next world? The money he has so persistently raked together must all be are heavenly joys to him? Spiritual riches are not to his taste, and he only pretends to think they are worth more than the gold and other treasures he must leave behind. It has been said:
"Not to fear death is a slight to Him who made it our special punishment. Not to desire death is an indifference to Him whom we can only

- This life of our doth but our life begin,
1- but outside the porch of the abode:

And death the going home the entering in.
The :tepping forth on the wide worki of $G$ orl
This slavish fear of death is very common,
a afraid. Think of the panic a report of diph am afraid. Think of the panic a report of diph
theria or smallpox in our midst produces Where is the fearless trust in God which is so vividly described in that beautiful 91 st Psalm? "Thou shalt not be afraid for the terror by night the pestilence that walketh in darkness: nor for the destruction that wasteth at noonday. A thousand shall fall at thy side. and ten thousand thee. This glad fearlessness is prom ised to those If we abide under the shadow of the Almighty. If we do not possess it. then surely our faith
must be very weak. If we really trusted (iod He
could not fail to be our "refuge and fortress." But even the physical pains of death are often anything but terrible. Dr. Hunter expressed what might have been the wish of many thousands of dying to hold a pen I' would write down how easy and pleasant a thing it is to die." Think of all the people whose last hours you have witnessed or soul very. very often departs from the body peace soul very, very often departs from the body peace-
fully and painlessly. How young the still. cold face smoothed out, and the look of peace and rest ought smoothed out, and the look of peace and rest ought
to stop at once the common habit of applying the epithet "poor" to those who have left sorrow and
pain behind. "Poor!" Surely we are poor, not
thev.
religious feelings Is Robertson says: it Every
day Christ's servants are dying modesty and day Christ's sewants are dying modestly and
meacefully not a word of victory on their lips, but
'hrist's deep triumph in their hearts. They die, and the world hears mothing of them, and yet theirs was a true victory, They came to the hattle-field
and found no enemy to fight with no foe was in and fou
$\begin{aligned} & \text { The fount oot fer diteath: } \\ & \text { Who know how brutht the }\end{aligned}$
$\begin{aligned} & \text { To thow - lhow brught the inn rand ligh } \\ & \text { Who know what ? }\end{aligned}$

## THE CHILDREN'S CORNER

## Convalescent.

I wonder whether any of you children inderstand by experience, the delights of convatescence. The Tou weary days of sickness and pain are over the whole family
ill, Ther little girl in the picture must have been very fancy she must be trained nurse in attendance luxury within reach, except the luxury of a jolly Oon't you think and sisters. What do you say than picture-books: ? do.

PRIZE COMPETITIONS
time
want everybody to try and win a prize this


CONTALESCENT.
years of age for our subject is both interesting and
easy. Prizes will be given to the writers of the easy. Prizes will be given to the writers of the best animals you have known, or those you have heard or read of. The competitors will, if possible, be divided into classes according to age. 111 liss. your name, age, and address on the hack Write address is as usmal: Box !ress Newcastle, (1) nt.
-How Queen Victoria Won the Love of Her People.






Ingle Nook Chats.
MY DEAR (irEsTR,
Of course, we are all duly sensible of the loweli
ness that ness that everywhere surmounds us, but we shall mot
wait to comment upon it now, as i want to have a "chat" this time in real earnest. First. I extend it risiting our weme to all who have honored ts by corner for the ofd friends of puzale dayy : lug vou. studying are yous fery glad to hear from professions, or to be an educated farmer: Happily the latter is not so rare as he formerly; was. P:il genie. I applaud your ambition to "keep up with "Oonnie laddies" in the future. It is somenthen a task to keep pace with the shooting of the young deas nowadays is it not :- And parents tos often vour gook the necessity of so doing reciprocate o hear from voulagain. sent out. When you win, youn must take your chance like the rest. Old Maid," the W. IP. B,
can do very well without your contribution till can do very well without your contribution till
the contest is over. To you and all others who have asked admission to the Now, I repeat that
there are no restrictions as to age or otherwise whosoever will may come.
to interest a far greater number than the puzzle column did. although I frequently
receive regrets that it was discontinued.
The aim of the majority, I think the present course is the more successful one. " Whitfield," the contest herein announced is another form of puzzle.
I hope all who have expressed themsel es as in terested in that art will show their appreciation by sending in good lists in answer to it that the information gleaned while working at literary puzzles is a fair reward for the lator
bestowed upon them, or, to borrow a quotation:

I enjoyed your pleasint notes: amm pleased
to find $m y$ guests growing more genial. J. L.. F. is a very clever little girl. hut I find cleverness
very common among von Maritime people. I very common among you Maritime people. I I find space growing small, so I must forego the pleasure of further conversation, and direct
my attention to
OLR COMPETITIONS.





## Make- and mend- for tiret clate whetomer



## a kot one of the thim- of the

## An Anternat pain on of the Inets

## ii. A worker in bremin- ment.

A meandoy.

- mand mat met metal
I1. A lathe erpe-oion

16. Yer painful companion
1:- Mpleatant on your fint
1) 

## 룬․․․․․․․․․

Two Things to Learn
Gean these two things: Never be discouraged th calne good things set on shwly here, and never tan
daily to do that good whin hie next to Your hand
(h) not he in a homs, hut he diligent. Finter int the sublime pationce of the lord. She charitable We since we have $l$ im to fall back upun: 1 ,
patience have hep pertect work and lring forth he patience have heq perteot work back hring forth he
mend

The Farmer's Wife.

Our last home topic, "Why some Women d anold desk a clipping yellow with age and written at least twenty-five years ago, but which, if only for the inspiration of the thought conveyed in the last vorse, we are pleased to reprint for the benefit of the readers of our Home Magazine. Twenty-five years is a long stretch of time, and it has borne witness to much steady progress and to many their significance to the farmers' wives of our land There have been wonderful improvements in farm machinery: The work has been cased to the worker in field, barn, and stable: in fact, " the changed tically revolutionized the work on the farm." (com bination and organization have solved many a problem for the farmer of to-day which sorel puzzled the farmer of over two decades ago
Wer by the wife and daughters? What has been done to oil the wheels of the domestic machinery
for them? Doubtless, amongst the more farseoing for them. Doubtless, amongst the more farseeing, consideration has been given to the subject. But is it so everywhere How many of the wives still have to make the best of hadly-planned and poorl: found : We venture to think that the same enlight enment which has borne such fruit when practically applied outside, wonld be as fruitful of results it not as true an econom- to save labor within as without doors-to save the strength of the willing worker within, as it is to save the strength of the willing worker without: Ind then, to bring ns hack to the subject of our last home topic, has not ful consideration for the "weaker vessels" of the farmer's homes an important bearing upon the
whole matter? There would be, perhaps, fewer whole matter: There would be, perhaps, fewer
mere home drudges like that wonderful Lucind here home drudges like that wonderful Lucindy, their mates women of intelligence and culture, who need not be the less admirable housekeepers or
homemakers because, the details of their work having been made more easy of arrangement work could have leisure to cultivate their minds, beantify their surroundings, and, by keeping abreast with the educational opportunities of the day, be not wiser and more judicious mothers to the children God may give them. From homes so mothered the daughters would be less likely to be attracted away

Would the cons consider the honorable a farmer not good enough for them
But it is time to introduce to vou

All Ontario Farmer's Wife of Five-and Twenty lears Ago. 'p with the birds in the early morning.
The dewdrop- slow like a preciousken Benutifult tint in the kie are dawnint.
 She must not linger, she musit not waity.
For word- that are tharp, and looks that are -urly
Are what men give when the meals are late Th Hlorious colon the cloud are turning.
If the would but look over hills and twe. Those thinge must always sield to these: The world is filled with the wine of beaty
If she would but pathe and drink it in: Bit pleawre, whe palk muat writ wit in: The day grows hot, and her hands gron
Ot for anl hour to cool her head. Cut with the bird a and winds grow cheerv:
Thut the mut tet timner and make her bread
The buty men in the has field worline The busy men in the hay field working.
If they suw her sitting with idle hand, If they viw her sitting with idle hand,
Would inh her her lax and call it hirking,
And the ne rer could make them underta

Ther do not know that the heart within her
Hunger for beantr and hing sublime Huggen for beauty and things sublime.
The onls know that they want their dimne Plenty of it, and just on time'
And after the sweeping, churning, and baking. And dinhe sweeping, churming, and baking.
She diner dishes and all put by
Till time though her head is aching.
Till time sor super and chored draws niwh
Her boys at school must look like ot ben For the world in quick to censure mothens
For the least neglect of their childrens clot Her hushand come fropt the feld of labor
He give no praise to lii weary wife. She- done no mare than hazerer neighbor.
Tis the lot of all in country life.
But after the trife and wearr tusle,
When life is done, and she lies at res. The nations broin, and heart, and musele.
Her sons and laughter shall call her ble And It think the $s$ weetert thay of
The ranest blis of eternal life. The raret blic of eternal life heaven.
And the fairest crown of all will be given
Into the way worn farmer's wife

## Pretending to Know Everything

One of the most absurd fads of the day is the prevailing mania we all have for affecting to know
everything. It is the fashion to be wise and we are solemmly attitudinizing in the misfit rible of savants. No subject is sacred any longer to the
we have at least skimmed the cream off the pan of knowledge on every topic.
Nowadavs it were better never to have been born than not to have seen the last play, read the
last book, heard the last thing. If we have not ast book, heard the last thing. If we have no described as culturine, and not one in twenty know the difference.
Paderewski, and applaud in the wric and go to hear discourse ahout feeling and wrong places. W when we can't tell a chromo from a lithograph We go into ecstasics over old Chelsea a nd Royal Wrancester, when the ony way we know it from down good money to see foreign plays, by foreign actresses, in a language of which we do not under tand one single word, and ry to maintain an ex pression of
. o one has the courage to say do not know any more, though there is nothing in the world more casure it is to describe a play, a quaint hit scenery, a historic spot, or recount a tale or legend to some one who is not acquainted with it, but whose quick fancy follows, enraptured, your every Alas, that delight is denied us now. Everybody has been everywhere and seen everything, or, it they haven't, they pretend they have. If Diogenes
were on earth now he would not go about with his dare on earth nowine an honest person He would be on a still-hunt for a man or woman whe would let him tell them something they didn't know. If it is a mistake for a man to pretend to uni suicide for a woman. The most casual observer must have noticed that the girl with an artless air and an inquiring manner, who is a good listener the clever girl's once She never swells the ranks of the girl bachelors. No man in his senses ever desired to espouse either an encycloperdia of facts or an arguing machine
隹 and having her look up to him as the fountain of wisdom and light. When a woman begins every sentence with "John says," it is a guarantee of it at the bank.
Desirable as the dissemination of information is, there's entirely too much of the good thing now
It has left us no listeners. Ignora nce is in other us no whd armo our acquaintances are those who do not know it all


FOR PRIZE LIST AND FURTHER INFORMATION,
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 "way



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idas Knitting Machine Company


#### Abstract

  of $\begin{aligned} & \text { iitit to the abat oir and cold t orave plaw: } \\ & \text { of Gorion \& Iron ide wa nale by the Ad }\end{aligned}$  parcity of home fer beaveth hisis inv have im   prople The crub or unpedigreed tallion is now debarrdal from                 yood orer the rack and kidner. and a goo mover. Hit revedum and conformation shoult rold   

GOSSIP. wi   and Rritiain Sallions are nerrys all at heir roule etand Kood condition for the vean' - work in


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## 

Shorthorns ron

## SALE

Jarling am two-var-obd short
Hos
Shorthorns

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1, 1901


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| of Jesica 2nd, by Scottish Archer. is full |
| :--- |
| brother to the noted bull. Pride of Fame. But |
| neither need depend upon his relations for a |

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Chicago Sheep Shearing


Niव NaIl NHFH

| Merdor Perfretion ind, a show heifer that will be hard to beai, thick-fleshed, level, and true in her lines. She is a roan that passed the -year-old mark on the first day of the century bred by Col. Munro, of Perth-hire, and imported lay year: was sired by Craib-tone, of the Bessie family that produced the great show bull, Sign of Riches, and a son of the grand old William of Orange, and has seven straight top crocses by (ruickshank bulls of exceptional merit. Houd sh. a big. deep-fleshed. roan 3 -year-old. of the Matilda tribe, that will make a grand cow for someone, is a daughter of the Marr-bred Ruler, a well-bred Rosemary by Craibstone, of the Mis Ramsden sort, which produced Brave Archer. Scotland's (rown, and many more good ones. Four (Cruickshank crosses more good one Four cruickshank crosser | assured that the cattle are as good as their breeding would indicate. <br> The sale of fifty head of high-claws short horns, at Chicago, on June thh, ly Mr. Geonge this joint sale. will make an exceedingly interesting series. (Canadian breeders generally will feel interested in these sales, and a- they occur at a time of comparative lelsure on the farm. the probability is that a goorly repre sentation from the Dominion will attend, an the gentlemen contributing stock to the sale have of Shorthorn breeding. and have the confldence. respect and good wishes of their fellow breederw universally. |
| :---: | :---: |
| appear in her pedigree, and she is well along in Calf to the grand imported bull. Golden Drop Victor. Clarry -v/h is a rich roan Marr-bred | A three-year-old Nhorthorn bull is advertisect for sale by Hamilton Canning, Invernew, P.U. |
| ( lara, a yearling danghter of Silver King, of the |  |
| her dam by Spicy Robin, and her grandlam | There are about sit cows in the six-month test at the Pan-American Fixpowition. Th |
| (Clara sth) was the dam of the bull calf, | breeds represented by herds of Sonimain eael |
| 1900 Duthie-Marr sale, for 185 guinea. Corrl | are Ayrshires, Jerneys, (inernucys, Holvtein, |
| Conntess, a roan 3 -year-old, bred by Mr |  |
| tcher. Rosehaugh, and sired by Watchfire. |  |
| son of Watchword, a Highland Societv first- |  |
|  |  |
| Gloster, and a splendid red heifer calf by Royal |  |
| Victor, a Duthie bred bull by Nonpareil Victor. |  |
| 3-Jear-old, of fine femininc character and grand |  |
| constitution. a daughter of Mr. Bruces Ros- common, br Beau ldeal, ha a charming red | d |
| common, by Beau ieal hax a charming red |  |
| Victor, a Sittyton Victoria and a son of S | Belle vue, Que.: Kirxy Wallace of Auchen braits |
| Ar-her. Relladounar is a bouncing ro | (imp.) 916i, W. W. Ofilvie, lachine Itaplds. |
|  |  |
| cendo. by Prince of Fashion, a son of Scottish | (wyilvie. "'arelaker, Thoman Iradihaw.) |
| Archer. <br> Mr. Eduards contributes a dozen imported | Meg l307. Agricultural College, (iuelph, (0nt.: |
| corteh-bred females, and four or five Canadian- |  |
| bred cow- and heifer of rich breeding, all of |  |
| which are young. though a good proportion are | Bollert. 'amad. (ont. : Heauty of Norval jam. |
| of breedins age and in call to his imported | William McClure Norval, 'mat. Mherwoot |
| at foot, to |  |
| tation- have been tarefully -elected and herd bred on intellikent and up-todate lin | takerwel. Primone 'auk's Pride smis, W |
| and hii- cattle will appear in the good thrifty | H. Mawey. Toronto Mowy of Hurntey theit. |
| condition in which they are alway kept. glance at | 1092 II, F. H. Neil. Itucan, Dint.; Yucen Mas of |
| glance at the perligrees of his cont ribution to |  |
| repre-entatives of many popular families such | Spruce |
| a-sittston Brawith Bud-. Secrets, Mi--ies and | Shorthorn. Howe 3rd llash, W. (3. Phill a |
| flowers. Marigold. etc. An samplem of breed. | Son, Freeman, (but.: Daisy 1), Manders \& Miner. |
| ing. we mention a few of their pedigr | S1. Thomas, (mit ith Primious of Thule zask |
| among which i- Foorer firirl 1 Ith, a roan 2 year |  |
| old, bred in Aberdeen-hire and got by Knuckle Inter, a -how bull of the piveryuhomery | Hewr 21ins, Wililam Monteith, st. Thoman (hot. |
| Augusta family, sired by Waverley a Highland |  |
| cociety wimner, and her dam by | Pointe Axyluill, Yueber : Itouen me ' enlere |
| Scottioh Archer. Minorra |  |
| Heatherwick Mayflower by (raibstone 2 |  |
| who-e sire was a son of tilliam of (range, a her dam a daughter of the Inseruric (hallen |  |
| Cup, winner. Heaul Ideal. Siothixh lioxe ix a red | Fugene Raco |
| - year old having fur sire the ( olly nic bred Earl | The cown are milkedt throw limea day. The |
| Marthal bred almost identicall) |  |
| *cotioh Ircher. and out of a Mixic dant big | bad uhowing. cotu-idering that the cow |
| William of crange, She will be zold with her |  |
| Hice rombbult calf got by rrincipal |  |
| Vain Princers by Plocutioni-t. Pi/l |  |
| Crret i- a roan yearling daughter of imp. | Potied Jurse) ${ }^{\text {as }}$ |
| Yerret $i$ - aid to be a heavy milker and a capital breeder. finctorns io a red yearlink | Wote |
| Brawith Brd by Mountain Areher, by Meotioh | Panteur Blacklog Vacotne |
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