## - MANTOBA SH2 N



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Mr. R. H. Harding's Chester Whites and Dorset Horms.
The illustiration that adorns this issue represents three Chester White pigs and three Dorset Horn sheep, the property of Mr. R. H. Harding, Thorndele, Ont. They are a very superioct credit on Mr. Harding's judgment as a breeder and feeder. The two-year-old sow, Mapleview Queen, No. 185, which stands to the right, was sired by Broadbrim, Nos, 128 and 4855 ; dam, Annie Lawrie, Nos. 122 and tiar shown winning sweenstakes at the last Provincial Fat Stock Show, held at Guelph, for brood Fow and two of her offepring. When in show condition she weighs over 700 pounds, and is remarkably well-developed, smooth and active. The barrow that stands to the left is a model in every respect. His sire is Silverchief, No. 60; dam, Mapleview Queen. The yearling sow, Perfection, that stands So the left in the illustration, has the record of never yet being beaten in the show ring. She won irst in a ring of six models at the woroco Tnaustrial in 1802; first and diploma at the Western Fair, London, 1802 ; irrst at, hed ribbon for the best sow any age or breed at the . Her weight, when $14 \frac{1}{2}$ months old, was 525 pounds. She is now heaty in farrow. Her sire, Silverchief No. 66, although never fitted for show, won first and diploma at the Western Fair at London, 1892. He was bred by S. H. Todd \& Son, Ohio, and has prove himself capable of producing first-class bacon hogs: Mr. Harding has wintered over 30 pigs, all kept for stock purposes, and they are one and allof first-clas quality. Some of them, no doubt, will be heard from as winners in the near future. He has now a number of young pigs, and eight sows yet to farrow
which will give intending purchasers a achance to which will give intending purchasers as ehance
buy young stock from a herd that has won such buy young stock from a herd that has won such prominence, aithough boars are used in the herd, two of which were imported from Messrs. Todd Son, the other from Mr. Martin, Aluaxan ria, ohio. Each
of these animals is individually good, and their pedigrees are as good as the best.
The Dorset ewe to the right is Oottage Graceful (imp.) 108; she is from the noted flock of Charles Hawkins, Dorchester, England. The ram to the left is John Bull 270, imported in dam by Messre Tazewell \& Hector from the flock of Culverwell Bros., Bridgewater, Dorchester, Eng.; he is a large yearling, exceedingly well covered with wool. It is said his sire cost 40 guineas. The ewe lamb in the background, Harding's No. 16, weigFed when' 53 days old 55 libs. She was sired by The Colonel dam Lady Jane, Ao. 2o. growing very nicely, nor is she an exception, judging from the appearance of she an exception, jus. Some of Mr. Harding's ewes that lambed in the fall are now heavy in lamb, and some that lambed during the winter have again been served, which goes to prove that these sheep will continue their peculiar fecuundity in the Canadian climate. The owner of this stock feels confident there is a bright future in store for Dorset Horns in America. The foundation of this flock was imported from the roted English flocks of Ohick,
Hawkins, Roper and Culverwell Bros. The animals Hawresent in the fold number about forty, and are of at present uanlity, large, thrifty, and well, wooled; in in
unform qual
fact, the breeding stock, both sheep and swine, are first-class in every respect, and the owner astraightforward and honorable man, who deals in all cases 21 miles from Thorndale Station, Stratford branch
G. T. R., in Middlesex county, 10 miles from London, Ont.

The cow knows her place in the stable and takes it. She also knows when it is her turn to be milked,
and if disappointed gives less milk and of inferior and if dis

Can the per cent. of fat in milk be increased by good feeding? Nearly all the most carefully conof fat cannot be increased by feed. Prof. Cook, of Colorado Station sides with him. Doubtless much will depend whether the cow is up to her normal
standard of fat production, and also how she has been fed and cared for previous to the test. But mental stations settle this interesting problem, for he knows all that is absolutely necessary for wim to
improve his herds, which is that some cows will give twice as much butterfat as others on the same
feed, and also that plenty of good feed alwwys gives a paying increase in the amount of butter proldaced
Therefore, weed out your poor cows and feed the

A farmer in Fratce claims to have discovered a remedy for rust on wheat, which experiments re ported, wheat which had been sown in the fall wa sprayed in the spring with a mixture of $4 \frac{4}{3}$ lbs. of sulphate of copper and 6qulbs, of sulphate of soda dissolved in water. This treatment gave an in It would be interesting to know what results spray ing with the Bordeaux mixture would give.
A. D. Harkness, Trena, Ont, in anexchange, says:-
A.D. Harkness, Irena, Ont.,inanerchange, sass:Any one who can runatennis to spill milk so that it will get in the machineryं. I have never found more than 0.15 per cent, of fat in the skim-milk, and that was when I was letting the milk in too fast. I think that if a person is getting more than fifty pounds of milk per day during the months of October and November, that a separator will make enough more butter to pay the inters
of it.

Even if Prof. Koch's lymph has not been as suc cessful as was hoped it would be in the case of consumption, still it has been shown by experimenta onducted at the Pennsyivaniargpe extent, prevent hat it will indirectly, wa lisease It has long been the spread of this dread diseases of the flesh or nilk for food of animals suffering from tuberculosis was ai yery fruitful cause of consumption in man. In the experiment quoted it was shown that the In tiph is a sure test in detecting the disease in its
incipient stages long before ite presence could be
be incipient stages long before the prdinary physicial ound out by experts in the ordinar doubtless be of great value
early stages.
In the planting of trees, vines and cuttings, es pecially in dry weather, care should be taken to press the earth firmly about them. To a great exa tent poor results and losses of plants arisisg of a ree ser this important point. , yet the inexperi enced will ofter malke great blunders. The hole hould always be made much larger than the roots require ; the earth should be carefully sifted beck among the roots, and when filled it shournd pressed down fre This will help protect the plant from drought by preventing too free access of air and by being firm no obstruction is offered to the upward movement of the subsoil water. Great care must be taken to keep the roots moist, and not allow the little hair-like fibres to dry and wither for if this happens it is sure death to an evergreen and any tree will be sturted care is talken in the planting. How often do we see farmers going home from town with a dozen trees strapped on benin the buggy with the roots exposed expect trees after
rays of the sun. No one could expect such treatment to live, So
man for your own neglect.
Sheep-shearing time will soon be here again Do you wash your sheep? It is a disputed poin whether it pays to do so, but nuch wist epend upon circumstances. A Mimer's ADvocute because it very wroth at the FARMcr's without washing, and he gentleman in guestion had lost by following this advice hut when inquiries were made, it wa found that he had been docked for too much by the local dealer. Always find out how much is taken one-third, in other places one-half is taken, which would make a very material difference to the farme Each man will have to decide this matter for him-
self. If his wool is very clean, doubtless it would self. If his wool is very clean, doubtless it would
pay him better to wash rather than give such large proportion of it to the dealer ; also, if the facilities for washing are very convenient it may pay to wash. Among the many
washing are the following: Much time is lost in driving the sheep to a suitable place, and in the building of pens. When washed it is necessary to delay shearing late enough in the season for the
weather to be mild, so that the water will be suff ciently warmed, but often before this time come and gates than can be gained by washing, so that in such a case washing is labor in vain. There is also great darger that valuable sheep may be
chilled, and sometimes loss will follow. This lastmentioned reason applies with additional force to
the farmer and bis help, for many fatal diseases Wave teen caused by being chilled by being in the washed the sheep should be turned into a clean pasture for a week or ten days to ollow of the return
of the natural yolk. This process can be hastened

Timely Notes for May-No': 2: REPPLY To oritiotem or teachers' salaribs. I was surprised at Mr. "Scrub's" "criticism"
fixed salaries for teachers, for he takes very fixed salaries extraordinary ground when he eays salaries shour
be kept down to keep young people from getting losy If its only boys that he wants as teachers in his local school I have nothing to say; if he is
satisfied to lot his children be tought by any raw,
俍 inexperienced youth who will teach-or rather beyond the reach of argument. But would he be willing to give a boy laborer on his farm the same wages as a more experienced man? Again, I can never get any laborer, howeve honorable an perfoct" chaps may be who will
wort fifteen hours a day on my farm. In the first work fifteen hours a day on my farm, In the fro place rever alling enough to even work ten hours. The owner may work as long as he likes, but the hired man wants his evenings to himself, his Siun days away, he declines any work not disti Then again, "Scrub" gets on his high horse, and shritiks "insulting," "ignorant," sce., at my
devoted head-forgetting atogether the amenities of debate and that merely saying "you're another" does not confute any statement. can't "Serub" se that if I were to insult farmers generaily I would also insult myself, being one of them ? wincon
clusion, I would say that the point I wished to clusion, I would say that the point
enforce was that we want good, experienced teachers in our public schools-men who are worthy of a
good salary, and who will teach. We want school teachers, not school keepers.
oats and millet for hay.
One of the most successful men I know in thig province is a frm believer in the above mixture for eating, his horses always look well and his colts are the finest in the district. Fernaps 1 ought to mention his horses are all heavy draughts. mb
modus operandi $i$ is very simple ; plow up stubble modus operandi is very sre sown, then sow three bushels oats and six pounds millet (common) per acre, with a broadcast seeder; ror well after
repeated harrowing. Cuit with binder before millet seed is quite ripe, and stack near stable or put away in hayloft. I fancy a bushel less of oats, if sown with press drill, would give equally as good resures acre he uguany obtains
of first-class feed.

Last year I sowed on a small piece of my oat feld, about an acre, some mammoth red the oats. I nished harrowing, then sowed the oats, rolled, owed the grass and clover seed bo hatch, cut the once roied high and left it till spring. I find, however, that all, the clover is dead, but the timothy is coming up strong. I mean to plow it up to sow potatoes
there, and I expect a better crop through turning there, and I ex
under the sod.

CREPG MANURE.
 plowing in fresh manure, and then sowing fodapi frops on the manure during the winter direct from the stable, spread it and plow it in, then sow iny piece with whatever been using. This year I mean oo use corn, and by cutting earily I kill weeds, and also get a very heavy crop of feed. 1 alsa
ot of work in summer, and only have to hande the manure once. There is no mess round the stable no evil smeds, any of my neighbors this year are doing exactly wha
twelve months ago.

GENERA
A terrible mortality appears to have occurred among pigs of all breeds at farrowing time this sigs; no reason can be assigned; the fat, the lean,
phe well-bred and the scrub sow all alike have lost their little ones.
Get those
Get those pigs out on to the grass ; don't kee Put three horses on to your wagon when haul them abreast same as on a binder, then go to the next council meeting of your municipality and de use. Let for that extra horse you are and see ii Use. won't help along the crusade for good roads.
this well those fat steers before the good grass comes
S.
ave attended
Thirty-one of the students who have attended the first session of the dairy school which has been tural College, Guelph, remained the full time, and ing, when wai consider that out of the numbe nn, when we consider that out of butter-makers who could not spare the time from their business t finish the course, and so had to leave before they ha a chance to write on their examination. We are
pleased to notice that two young ladies were well

## Tariff Reform.

The Trade and Labor Council of the City of Toronto met recenco from the various labor unions of the city. The subject which had been appointed of the ppecial consideration of the meeting was for the special chis was a resolution and amendment to it, both of them submitted at the last meetting of the Trades' Congress and not then voted on, but forwarded to the labor organizations of Canada for consideration and action, so as to enable their delegates at the next annual congress to vote in accurd
ance with the expressed desire of their constituento in the event of such a resolution being offered. The resolution and amendment were as follows :Moved (at the Trades' Congress) by Mr. Jury, seconded by Mr. Carey :-

With respect to the rights of labor we affirm the following:-

The earth, with its lands, forests, mines and other natural opportunities, is the gift of nature,
not to a part but to the whole of humanity. While not to a part but to the whole orh to charge for the creps they raise, the houses they build, the services they render, we denounce as utterly unjust that any man should be allowed to charge for the land and other natural gifts that he never made. The value that accrues to land from the presence and concentration of population should not go to the
enrichment of speculators and collectors of ground enrichment of speculators and collectors of grou
rents, but should be applied to public purposes. rents, but should be applied to public purposes.
"To impose taxes on improvements is todiscour age the beneficent use of capital in the employment of labor and enrichmentously in speculation and couraging its use injuriousiy solved, that we urge monopoly. the Provincial Government to grant municipalities the power to remove all taxes from the products of industry."

Moved in amendment by Mr. Hastings, seconded by Mr. March:word industry: And be it resolved further, that we urge upori the Dominion Government the removal of all duties and imposts levied on the products of industry, either imported or manufactured in the country, except succh as are view to restricting the use and consumption of any article or product hela be ins and the subshequired for the government of the country, of a single tax on land and natural opportunities.'
The amendment and the resolution carried unanimously amid much applause. The discussion was very full and intelligently conducted. It was noticeable that among those taking the largest share in the speaking were old members of the council, and men who but a few years ago were
strong and uncompromising supporters of the National Policy. Now those gentlemen, one and all, spoke in favor of the removal of all duties and im-
posts levied on the products of industry, either imported or manufactured, except such as are levied with a view to restricting the use and consumption of any article or product held to be injurious.
Our present tariff was formulated to benefit the very men who are now voting for its abolition;
farmers willingly taxed themselves that cities and towns be built up, thus providing a home market for their produce. As far as increasing the popula'Tis true cities like Toronto have grown, but this growth has been made by draining the surrounding
country. Farmers' sons and daughters, and their and swallowed up by these centres. Thus the population of the country towns and villages and municipalities have steady decreased-to such an extent in many districts that it is difficult to obtain suffiprice of farm produce has decreased, the cost of
farm labor has increased. What Canada most farm labor has increased. What Canada mo
What to Feed Cows, and How Often ? We extend an invitation to dairy farmers in all parts of Canada to send us concise, practical letters, feeding dairy cows.
1st.-In winter feeding, what have you found the best foods, quantity and quality of milk and ecom ony of production considered
2nd, - With what do you supplement pasture in summer and fall feeding?
3rd.-In winter, do you feed twice or oftener per
day, and why? Give particulars of your method. day, and why? Give particulars of your method.
A prize of $\$ 5$ will be given for the best article
embracing answers to the above questions. Other embracing answers to the above questions. Other
articles used will be paid for at our regular rates. Write on one side of the paper only, and bear in
mind that the merit of an article or essay does not
depend on its length but on its depend on its length, but on its practical ideas and the clearness with which they are stated.

## Economical Building.

The request in the ADVocate for articles on the building of concrete walls brought in a dozen and practical. There is no doubt but that an immense qaving can be effected by its use in building, especially where lumber is scarce and dear, or regulan tion has not been sufficiently called to its merits heretofore, hence the space we devote to it. Not only is it useful for wails, but for cellar, milk-room and stable floors, though in the latter case Portland cement should be used (mixed one part to four and
arhalf or five with good sharp sand; a little gravel will not hurt, though the surface must be perfectly smooth). Among so many good essays it was difflsubject best, but we give what seems to cover ten points not touched upon by others. For example, Mr. Alex. T, Thomson, of Douglas, Man., says the inside of theboxing should beplaned, and clampsand wedges used about mid way to prevent them from springing. Lack of time to have sketches which Mr. Thomson sent engraved prevents their use, and they are essential to his arcicte, Aeveral sugsest screw botto Minniaks Ma he differs from most others in favoring a scantling he difers from beded in the concrete wall. On top of foundation he beds a plank in mortar and sets on it $2 \times 4$-inch scantling flush with outside of plank, the two-inch side out. He sets them four feet apart, and braces them all round with $2 \times 4$ stuff (as girts) below windows and above windows and doors Inside he puts up another set of scantlings midway between the outer ones, spiking them to the girts.
The roof may be put on before the walls are done The uprights will" save putting in "bond" timber The boxing boards he nails to this frame, not driving the nails quite home. For hoising the concretid uses a rope about three times as high as top of wall is high, 'ruin over a pulley as so so that when one bucket is at the ground the other will be at the bucket required.
Mr. Wm. Rendell, of Camperdown, Ont., say when the wall is within ten inches of the top small blocks of scantling should be bedded in every three writers the outside to nall the cornotside, coloring the plaster with lamp black and marking off in squares to imitate stonework. If plastered with lime, Mr. W. R. Riddington, of Foxwarren, Man. suggests a wash-three-fourths pound of mottied
soap toone gallon water-applied boiling with brush (not to be frothed). Leave twenty-four hours; then dissolved for twelve hours, applying as before in hot weather.

Canadian," writing from British Columbia, recommends as the proper proportion for concreto materials:-One measure lime, clean, sharp building sand, and four measures clean gravel, in size from a pigeons added, he says, eight measures of broken stone
To prevent rain from beating in, it is thought better by some that the window and door sills should project an inch or foundation walls should be below athen fuilders generally do not favo mixing Portland cement with common lime. There mixing Porer "Canadian" cements on the market but they have not the strength of "Portland, which is an Old Country cement.
One of the most important points in the whole process is to mix materials thoroughly. In making a cement floor, the cement and sand shouldivariably be mixed dry first, keeping up the stirring process with hoes or shovels as the water is applied by degrees till a mortar (not tho sortion, hut there blestones may be used three inches of the cement should be laid at iea
Do not hesitate to try concrete building. Try it this season.
It will be of interest to Canadian breeders to know that the efforts which have been made to induce the Exposition authorities to extend the time for the entry of horses and calth of June until the states and Canada from successful. The time for 15thi of July the entry of shep the present rules, which require 15th to August 1st. . the date of application, will most likely be modified so that the time will be changed to 30 days previous to the closing of entries.

Brandon Spring Show.
When the Brandon Agricultural Society under-
ake to hold an exhibition, success is a foregone cone tus ion. The Spring Stallion Show of 1898 , held
conction sume nn Apriil 28th, was another tribute to their enterprise and foresight, as the date had been fixed so happened it came just before the rush had started. The fine market square was clean and dry, the sum shone out for the first time for days, and the arge
gathering of people appeared in the best of humor gathering of peope appeared well fllled, there being
The stalion classes. Were wion
thirty or forty entries in all. But the classes for thirty or forty entries in all, But the ciasses for
buls were rather emptyowing, doubtless to the
bill
 own way in Shorthorns and Herefords, and J, D, MO-
Gregor \& Co. were alone with a Polled-Angus bull. Gregor \& Co. Were alone with a Polled-Angus
Hour usefullooking younghorses face the iudges
when when the class fo of Mr. Ferguson, of Glenboro, and Mr. Ednionds the awards in this ring as follows:-1st, Wm. Forsyth's Sir Donald A. This horse was recently pur-
chased from John E. Smith, and is the horse in the foreground of his illustration in our issue of April
Sth. 2nd, W. F. Huston's Protection. sron
the commended. The most interesting event of the day was the
tussle ebetweenCharming Charlie onnof theoldatavore ites and the whiner other for the firtst time. The former, owned by Mr.
Colquhoun, of Douglas, was brought out in remarlebolquhoun, or goung form ; it is a strong point in his favor that he wears so well and can come out year after
 is owned jointly by Messrs. Harkness \& Smith, came
out in fine bloom, and is a hard horse to beat, out in fine bloom, and is a hard horse to beat,
in our opinion. He moves a little better than Mr . Colquhoun's horse, but therer is not quite so much
ind
him.

 commended to Welker 8 Munroe's horse, with Wm.
Stewart's Forward commended. This left severai stewarts Forwar complaced.
In Shires, J. D. McGregor \& Co. showed a fine upstanding bay, one of the best horses on the ground in the aged class. A very handsome dark in the class under four year oid.
In the Coach class, J . D. McGregor \& Oo. had it
In
In nearly all their own way, with and Ind respec.

 The Thoroughbred class was left or N. Mis first, with his son, Commodore, a good second. Roadster class. Mr. Barns, of Portage la Praitie, who jurged the light horses, placed them in the
 Mcrarlane's and A. Oolquhoun's, Peri wosse on the ground, though many
In the sweepstake class for heavy draught stallions any age, the judges without the aid of a
referee reversed their former decision by warding sweepstakes to Sir Arthur, on the ground thas Charming Charile moved ame in was able to detect the lame trussis. that the Society will not soon forget
We the lesson taught by the awkwara position work, and they were placed by this curious potorenghy com-
in future seare the service of of thorongly
petent single judge, paying him liberally for the petent single judge, paying
work done.
binscarth stock show.
The spring show at Binscarth, on April 20th, wae a success. The turnout of heavy draught horse
was large. Jas. McTavish' Kintyre Hero tok Arst and Thos. Paradine's Nailstone Puritan second
rrize in this class. In the' general purpose class $T$, prize in this class. In the ' general purpose class'
Paradine's Wildboy got first. Wcamon's
 Kansas by A. Olee, of Russell, wo the roadster prize. The show of bud roads
on account of the bat
At a grain and stock show held at Broadview, how in every hay a success. R. R. skrine's Kania King was frrst prize heavy draught horse. Wm
Dixon won first prize in the buil class. D . Mc Greor first for Red Fyfe wheat; Wm. Dixon first
for barley, and Wilfred Wilde first for white oats. Gor barley, and Wilfred Wilde first for
moosomin spriva show

Moosomin spring hiow hosomin on
stul Mow was held at flled and there
The entries were well fild,

 owned by Mr. Archied My Tho Mo. Mossup. Roadsters
Pride of Avon, owned by Tho
-Fidellis, owned by J. Reece. Thoroughred Dean Swift, Jr., Rev. J. M. Douglas. Mr.
Phin showed some very fine Shornhorn bulls.

## Potatoes,

What is known as the Bordeaux mix ture is being What is known as the Bordeaux mixture is boing used with good success in combating at recent agricultural meeting in Engblight, At a recent agricuitural reported satisfactory results from land members reported savissactory that mixture; the Irish land commission also reports great success with their experiments in the same line, while most of the experimental stations on this continent, as well as prominent growers, have reported in its favor. When the plants are a foot high or less spray with the mixture made as follows:-Dissolve six pouter, slack four pounds of fresh lime in six gallons of water. When cool mix, strain through a coarse piece of sacking. By the addition of two ounces of Paris green the potato bug can be destroyed at the same time. two weeks, This is the standard Bordeaux mixture, but Prof. Fletcher recommends the above diluted to forty-five gallons with water. If this is done add sufficient Paris green to still keep up the original proportion of one ounce to eleven gallons of weter.
Never plant potatoes in a field where the crop was formerly affected by either the rot or the scab, for there will be a sufficient number or spores lert ins. The corrosite sullimete treatment for scab is report ed by the experimental stations, and also by wenknown potato growers, to have give. Dip seed po satisfactory results. It is as follows: Dip seed po tatoes in a solution of two ounce
The Beauty of Hebron, White Elephant, Bur banks, Rural No. 2, Summit and Empire State are the varieties which have given the most general are the varieties whit country. The last named variety is third among forty-eight sorts experimented at the Experimental Farm, Ottawa, while it and the Summitoccupy first and second places respectively, both for best average crop for three years
at the Ontario Experimental Farm, and also the at the Ontario Experimentar corm, and also conducter by the of Ontario. The Everett. which heads the list at the Ottawa Experimental Farm, is mentioned by one experimenter, from Durham county
in the co-operative work as being the best of the in the co-operative work as being the best of th on crops.

## The Fleece.

Mr. John Hallam, of 83 and 85 Front St., Toronto, Ont., and 87 Princess St., Winnipeg, Man., desires farmers to write him, giving answers to the followWhat is the condition of the wool as compared with last season's clip? How many sheep and lambs have you this year? Of what breed are they?
Before shearing, be sure and clip off all dung ocks and remove all straws and burrs from the fleece, also all stained wool. Do not wrap up any
of this refuse in the fleeces. This is frequently of this refuse in the fieeces. reduce the price of Canadian wool. It pays to send all farm produce to markel goods be put on the mar ket in the most attractive manner, and that the quality be as good as possible.
The place where the shearing is done shous these injure the wool and make it of less value.
The wool should be carefully press-packed, so that not less than $20,000 \mathrm{lbs}$. can be put in a car.
This will insure the lowest possible rate of freight, This will insure the lowest possible rate of freight,
as the O.P. R. charge as much for $10,000 \mathrm{lbs}$. of loosely packed as they charge for $20,000 \mathrm{lbs}$. of press-packed.
All packages should be of one quality. Mr.
Hallam advises that they be sorted as follows:Hallam advises that they be sorted as follows :-

1. The fleeces of males, those from the different pure breeds, such as Leicester, Cotswold, Shropshire, packages.
2. All ewe wool and short wool of the Montana type. All cross-breds between coarse and wool of the Montana type.
3. Lambs or yearlings.
5 . Dead wool, or wool 5. Dead wool, or wool that has been taken off sheep after they are dead.
4. The fleeces should be tied up with smooth,
fine twine, and on no account should binder or loose-spun twine be used.
5. It is of the utmost should be tied up in separate fleeces and a record
kept of the number of fleeces of each kind. Those of our readers who have wool to sell
should answer Mr. Hallam's questions and be should answer Mr. Hallam's questions thd
guided by his advice, send him samples of their
wool and ask him for offers for same. He should be able to pay better prices than country
as he is a very large operator. When y
him, mention the FARMER's ADVOCATE.

New Frults - Worthless or Otherwise, About this time of year fruit tree agents will be travelling over the country selling all kinds or fruits. They can supply any variety which the farmers may wish, but will take good care that they do not come back for a recommendation when the tree comes into bearing. In view of the number ess frauad when have the Nies Neme hardy necas eot who is not known, and sot eve then unles the howe which herepresents is known to be reliable. It is always wiser to deal with those who have a reputation to keep up, and who are not too far away. Poor stock is always sent as far away from the nursery as possible. Plant standard varie ties; let some one else do the experimenting with the new, high-priced, money-making varieties ; if they prove to be of any value they will soon be heard from through the agricultural press and the our red the Fruit Growers Association, Thom time to time wo not be decelved by siarpers, fhless as well as valnable fruits, grains, ete. A Cornell experiment station bulletin condemns as worthless, except for ornamental purposes, the following: Prunus Simonii (Simon or Apricot plum) and the variable in bearing to be reliable, and to some the foror is disagreeable. A dwarf Juneberry; The Success, is favorably reported upon.

## Destroying Gophers.

We take the following from Bulletin-No. 25 Station:
"One of the most effective means for their desruction seems to be a trap in successful use in the arge orchard belonging to J. H. Stewart, at Medorchard, boxes about one and one-half feed square at the ends and about four feet long. The top and The ends do not reach quite to the bottom board, an open space of about four inches intervening, and enabling the animal to run through the box between the two ends, pieces of pork, rind are securely nailed. These piecese have been first soaked in a solution of strychnine, made by boiling
strychnine in water. Kernels of corn may be strychnine in water. Kernels of cond may
steeped in the same solution and placed with the pork as an additional bait, but is more easily displaced, and hence more likely to be eaten by some
animal for which it is not intended. But the pork rind cannot be removed. The top is fastened on to the box by means of a couple of nails, which
can be easily pulled out when putting in new bait. Mr. Stewart asserts that his trees are free from
all attacks of this pest through using this very simple device
Strychnine is not very soluble in water, but, if poison. It would seem that if the solution were sweetened it would render it more palatable,
And this from a Wyoming Experiment Station
"The most satisfactory, results followed the use inflammable and should never be brought near fire for fean of an explosion. It is not poisonous or
corrosive to the skin, and may be handled with impunity. Avoid breathing it; the vapor is unwhole
some. The only danger is when brought in the one.
presence of fire-a lighted pipe, cigar or match
would in all probability cause an explosion. Bi wresence of flre-a in alility cause an explosion. Bi-
woulphide of carbon should be kept from children and irresponsible persons, as they are liable to drink it, and the consequence might be serious,
The unpleasant odor is easily and readily detected and by observing the proper precaution no danger
need be feared. The method of applying is to talke a ball of cotton, about the size of an egg, and
thoroughly saturate it with the bi-sulphide of carbon. With a rolling motion throw the cotton
into the hurrow and close the o earth. The operation is simple and the result certanny, and being heavier than air soon fills the
rapidly, rapidy, and smothers the animal,
"The application should be made in the evening at sundown, as the gophers are in their burrows at
that time, and the material will not be wasted. A pint of the liquid will be sufficient to treat twent "On the Laramie Experimental Farm ninty-six
burrows were treated during the month of July The applications were, with few exceptions, made were visitided, and in no instance had the earth
which had been used for plugging the opening been disturbed. A Asecond and thugging the opening bee
found them securely plugged. found them securely plugged.
One known as Furha, and the other as Commercial is sold by the manufacturer, Ed ward R. Taylor
Cleveland, Ohio at ten cents per Poind Cleveland, Ohio, at ten cents per pound, f. o. o. b. the
cars at the factory. A gallon weighs about ten
pounds, and is sufficient to treat 160 to 200 burrows.

## From Nebraska to Atberta.

The following, which is clipped from the Quill punish oftlers from Nebraska brought to thi party of settiers from Nebraska, brought to thadsden. This party settled
country by Mr. Jas. Gen in the neighborhood of olis, on the Calgary and
Edmonton road, and many of them purchased C. 8 E. railway lands through Messrs, Osler, Hammond are getting some of the best class of Nebraska farmers, and not the ne'er-do-wells from the States, as is so often claimed by the American papers:-
"On Tuesday evening at 10.30 o'clock the freigh cars containing the Alberta delegation's effects
was pulledoout, and that was the starting. There were eight carloads from Schuyler, five from Leigh, and six from Rogers, joined in one train to haul the glberta Territory
"The following took with them a carload each of
stock and effects: Messrs. E. Bame, J. Edmison
 Preston,
Lawrence.
"No cattle were taken. This was on account of
of the Canadian quarantine. Cattle will be held at of the Canadian quarantine. Cattle will be held at
the line fò ninety days on account of the precaution used against disease. Some will hare their catotle diriven up later or, while others will buy at Manitobai
and ship from there. The cars will arrive at Maniand ship from there. The cars will arrive at Mani-
toba about as soon as the passengers, who left on tuesa about as soon as the passengers, 1.30 oclock in the afternoon.
"At Leigh, H. P. Moore had two carloads, R. D. McKee Luo, and W. P. Cornwell one. At Rogers, C. McoLaughlin, George Groat John Samis, James
Samis, James Coventry and Mr. Hilbert were the Samis, James
emigrants. 'On Tuesday the excittement of the departure was gneater, and while many watched the freight
people off, the crowd was out on Tuesday. A car people off, the crowd was out on Tuesday. A car
was set off on the side track above the depot for the use of the men, women and children, and
around that during the last hour friends and around that
relatives gathered to say godbye. Good wishes
went with all. It was a sad scene, for triend went with all. It was a sad scene, for friends
parted probably never more to meet.. It was a long parted probably never more to meet. It was a long
farewell with many. Joking, talking and laughing was the order with many, yet within a heary weight seemed to collect, and the farewell was
more sad than it appeared. more sad than it appeared.
"At Schuyler there wer McIntosh, Alex. McRae, Robert Smith, Ed. Bame, Mrs. Rathbun, Thomas Preston, A. L. Ramsey, Mrs. Mrs. Rathbun, Mrs. Cornwell and Mrs. McKee each with a family. At Rogers more passengers were
added to the number.
James Coventry and family will go soon, and goods were already shipped. John
Lawrenceleft on Wednesday to join his family, who Lawrencelefton Wednesday to join his family, who
are in Iowa visiting, and meet this regular delegare in lowa visiting, , Thi meet this rest first load only, as
ation at Winnipe. This "The Quill editor is, indeed, sorry to see them leave. They are among Colfax county's very best
families, honest and industrious. No dead beats among them. They leave with no debts behind, people Alberta mustedy in the face. With such people Alberta must prosper. We regret to see so,
many friends leave, but cantonly wish them . well."

## Asparagus.

Every farmer should grow sufficient asparagus to supply his own table, as it comes in at the time when there is little else in the way of vegetables to may be gro on the same ground without it may be grown on the same ground without re any kind of soil, but better success will be obtained by planting oin dry, warm, deep and rather sandy and. The plant may be raised from seed sown in aills one oot apart, in which case they will be spring, but a better plan where only a little is $\mathbf{r e}$ quired for the use of the family is to purchase the oots from some gardener; while this may cost a the soil apply well-rooted manure, plow and cultivate thoroughly, then plow furrows twelve inches deep and from two to three feet apart, in the
bottom of these put a quantity of well-rotted
manure cover this with two or three inches of earth; on this place the plants, spreading the root earll out; plant so that the crown will be sixi inchess
welow the level of the surrounding surface. Plant below the level of the surrounding surface. Plant
nine inches apart, cover with tivo or three inches of soil ; when the sprouts show. through draw the
rest of the soil round them until level. From the peculiar succulent nature of the roots this plant is ess susceptible to injury from late planting than
most other vegetables.
Nothing should be cut from the plant the first year, but after the third year a full crop should be obtained. Manure and apply one-half pound of salt to the square yard spring, but as soon as they show signs of weakness
cutting should be discontinued. In the colder sections it is advisable to cover the bed each fal with a layer of coarse manure or straw, this to be plant, it will start earlier in the spring if the roots sparagus beetle has injured this crop in some sections, but is scarcely known in others; if trouble
some, it can be kept under by applying Paris green
in the same proportions as for the potato beetle.

## 

he leading acioultural journal in tan dominion.

THE WILLIAM WELD COMPANY (LIDCTRED) London, Ont., and Winnipre, Man.

## whit Tho Farmers sdy




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## CONTMNTS









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Our Monthly Prize Essays.

 Hot Sinould any ot the other eesays contain valuable matter


 ${ }^{\text {mentantare }} \mathrm{A}$ prize of 85.00 will be given for the best essay In Summer-fallowing, or the best method by whic Manitoba and Northwest farms may be kept free
from weeds and their fertility retained. Essay to be in this office by May 20 th.
Un a new country like this we consider no
apology necessary for repeating this as a subiect apology necessary for repeating this las a subject
for prize essay this year, as much light tis being

To What Extent Can We in thit Country Follow the English Methods of Sheep - Husbandry with Profit?
[Read by Mr. John Jackson, Abingdon, Ont, Bofore the last
meeting of the Dominion Sheep Breeders' Association.] Husbandry with Profit? Sheep farmers in England do not all follow the same methods of care and manafement of their locks. In some sections where they have shaded permanent pastures the sheep are allowed to roam of the for a pory they and winter. In some cases they ore folded on rass land, and moved every day; in others they are kept in folds, the grass being cut and fed in racks-in this they are moved at regular intervals, so that in either case by this system the land is regularly ang evenly manured. And again, in other hen folded on this land, the vitches being cut forward of the fold and also fed in racks.
Another thing the flock masters are-very parven in the flocks use nothing but a first-class ram, mutton. They attend the ram sales and buy the ast year at the Cirencester Ram Sale forty rams that brought enough money to pay the rent on a bood farm of 800 acres, and the most of these rams ust how far we can follow the English practice of management in our flocks, we must first consider he different circumstances in which we are placed, cold in winter, the smallness of the more intense abor, the value of the product, etc.- Yet in many ways, to a certain extent at least, we would do well to follow their example in the care and nanagement of cheir severe frost may be against us to the hot tent, our climate as a whole is ahead of the English climate for the health and growth of sheep.
In the first place we would do well to pattern after them in the selection of better rams. We English hreeds to supply rams, and which can be purchased at reasonable figures, but too many of States. It will pay every market in the United small, to use nothing but a good pure-bred sire of some one of the established breeds. He should settle on the type of sheep that suits his fancy, and result will be as has been in England and whether that fancy be for a long or short wool, a white or black face, I would repeat what has beep so often said-to keep some one particular breed year and the result will be practically a pure-bred stock notwithstanding the "whims" of those who talk about trouble atter the frst cross, and a took mun aing out if kept on the same farm too long. These English practice that would be profitable to follow
is to castrate all the ram lambs in a mutton flock at an early age The ram lambs in an this country by neglecting this; it is not only when sold to the lambs find their way into other flocks, are used to breed from, and thus cause still greater and almos rreparable losa
If it would not pay us to fold our sheep on grass more on our pasture, and supplement the pasture by sowing vitches, which are a most excellent food for sheep. This could be fed off by folding the same as in Fugland-by putting them on in the evening, allowing them to remain till morning then to run in some shady place with a supply of
water for the rest of the day. A separate fold with water "lamb creep" would be a good way to push the These vitches, if sownearly, would be ready to cut about the 1st of July, a time when pasturage is often dry and scarce, and aration for wheat, or for turnip or rape to be again fed off in the fall. By sowing the vitches at different times, as they do in Eng when this is done have a good piece of corn ready. When this is done have a good piece orcorn ready English flock master. I need not tell you what a large quantity of this can be grown on a small plot
of Yand. There is nothing they can grow in Eng land that will at all approach a good crop of corn especially whencene through a cutting box; it is very easily cut even with a hand box, and when quite green enough can be taken in at a time to last But it must all be cut before frost, and be allowed to partially cure, 'and then put inside on end; will make the best of feed for sheep right up till winter sets in as they do in Fngland in the wiror grow them (and should grow more of them) and feed them inside, where I believe they will do the sheep more good than if fed on the land as they
are in England; for even there they are often or less frozen, at other times in mud to the knees,
Another thing I have noticed when travellin through England, that is temporary buildings a the corners of two or more fields for shade and
country, Then there is the dipping to deetro tioks. This is regularly attended to in England,
nonditwould payeverry ownerof shee in thiscountry to follow their example. some neeglect thisis but 1 cope not any members of the sheep Breeders
hot Association.
Now, while it may not be practical to follow all the usages of English flock masters, by applying
what we can to advantage Ibelieve we can incrense whr flocks twenty-five per cent. in number, and as much in quality. Another method which the Eng: lish breeders have or mproving their flocks that
has been yery little practised in this oountry that is the eletting of rams -the same thing could be done here with good results.
Many brederrs of the very hees animale who might be induced toil hire them tor the season, and it would pay the breeder of a pure-bred flock at least to give the same price for one season's use of $a$ one out and ass ram the woud siphing ocha-rat and from in this country is considerably $y$ less than it is in England We have heard a good deal about the different breeds of sheep being only adapted to certain
localities in England, and that eech of these will localities in Rngland, and that each of theso will
vet find their natural element in cortain localities Yet find their natural element ins certain hocanues stock in this theory, although there may be some
force in it. The fact of the case is. England does Yoree in it. The fact of the case is, England does
not fully benr thit out
 arye took, of southdowns doing well will
Oxxorshire, the home of the oxtorys, you will find a noted fock of offorms on one farm and drive from there will take you to one of the leading and olleat flocks of Southoowns in the king iom. In Com brid geahire You will find the moot celeobrated
Iocks of Southdowne, Hampehires and Shrophires, In Nock orsouthdowne Hamphires and shropaires, find a very noted flock of Cotawolas , The same may be said of almost overy county in Englayd. It is true, as far as practice goes, there are a Pow ox-
ceptions
In Essex they are
principally
Southceptions. In Kssex they are principarp sound Shrophitre Howe yer there to 5 g great edrentege if having each breed 1ocated together. The more or any one kind found in a certain locality the more
that section will attract buyers;
;oven il it be but a unitorm flock of grade enieep alo of similiar type butchers, drovers and shippors would pay more for
them. An even lot of anything will always comthem. An even lot of anythin

## Our Scottish Letter.

Since last writigg, we foar rather too long ago for duty to the fanand Tul weeks they have been We had at thint time ust got over the Clangow Stalilon show, and were which had attended thet ovent. Dowing the suc. ceeding weeks there was keen competition going on the healthful exercises of these events were being canvassed by every well-wisher of the rural life. A successful seed, roots and horse show was held at
Aberdeen on the 17th March, when the dwellers amongst the granite again asserted themselves and showed good farm produce in various departments, The first prize aged stallion was deservedyy William, which stood well into the prize list at the Glasgow, show. Mr. George Bean's second horse, tyle and quality. Mr. David Walker's grand big horse, ${ }^{\text {F }}$.F old class. This gallant, was first in the thece-yed by Canadian buyers, and still more popular with them would be the fine, short-legged, deep-ribbed horse,
McCamon Erskine, bred by Mr. George Shepherd, Shethrie, Tarves, and carrying his pedigree in his hame. He was second. A capital horse, owned by was first in the two ear-old clasa. Hewas bred by Mr. Lumsden, of Balmedie, and was got by his fine horse Balmedie Prince, out of the handsome, wellored prize mare Mermaid, by Lord Erskine. Mr. George Bean's second horse in this class,
Lord Rosslyn, is a fine, thick-bodied horse, got by Darnley's Hero, out of the beautiful prize a thoroughly good lot, and the first and second orize winners are not easily surpassed. The noted Cairnbrogie Prince, a capital colt, got by Prince of Albion, out of Darling VI., by Lord Erskine. Very William if anything behind him in merit was Mr William Robertson's realy splegor youngster, Betsinda,
by Royalist, out of the Macgregor and bred by himself. This colt will be further heard of. He was purchased by Mr. Walter \&. Park, Hatton, Bishopston, and at a highly respect the fillies there were several excellent specimens exhibited. The two-year-old Golden Mary is owned Sy the Messrs. Cocker, and was got by Royalist. She is a really good beast, and wants no puffing to
make her popular. Mr. Marr showed two excellen fllies, got by Handsome Prince, whose dams wer
of the famous Darling tribe; one of them was first and the other fourth. Mr. Lumsden pressed the
first pretty hard with a good flly named My Lady
bred by himself, and got by Mains of Aries, own
brother to Handsome Prince. An examination of the breeding of the prize-winning horses at the influance of the Darnley-Prince of Wales cross is still potent, and of actual prizes won the horses whose stock took the largest share were Prince or then we have had the first open show of the seacon at Castle Doughas, and both champion Clydesdales, Montrave Dudley and Queen of the Roses, were
bred at Motraye by Mr. Gilmour, and got by
Bhe
 Prince of Kyle's. What astonishes most people in
Prince of Albion connection with these animals is their great weigh and size, showing cleariy that these Craigie horses are not likely theught too slight and lacking in substance. Their pro
The spring shows and sales of young bulls are in full swing, and good pricees has. At the CastieDouglas anything worth looking anter. An March, there was abundant evidence that the border blackskinins have again bounded into popular favor, and are again rising in value. Mr. Ounningham, Marbreech, and sold two two-year-olds for $£ 30$ and $£ 2$ ax, respectively, to new breeders of Galloway cattle, The average price of six two-year-olds was $82315 s$. The year
ping bulls met even a readier sale, and the Tar ling bulls met even a reader save, The present
breoch bot were agin in great favour
stock buil at Tarbreoch is Royal Liberty 4140 , for which 5150 was paid at this same Oastle Douglas saie some jears ago by Mr. Cranston, Mr. Parkln Moore, a fine young squire from Cumberland, who is spending his money in a sensible fashion in
encouraging the home breeds of live stock, bought
 thamed MacdoougalliII. of Tabreoch, and was got
ny the sire already named, out of Maggie of Tarby the sire already named, out of Maggie of Tar
breoch 8813 , the gola medal champion cow at Wind sor. The next bull brought $\& 49$, and the third
Even the seventh
prize
 he went to shoposhire. The average price of the ten Tarbreoch yearlings was 235 10s. 2 Messrs
Biggar and Sons got the average of 225 15s. fo

 A large number of Gailoways have recently been purchased for the English market, and a atroget.
The greatest sale of light-legged horses, mostly registered Hackneys, took place at Gowanbank Darvel, on Thursday, 30th March, when the well known breeder and judge, Mr. Alexander Morton,
sold seventy-six head by public auction, xealizing sold seventy-six head by public auction sealizing
the following average prices:-Ten saddle ponies the fo E40 8s. bd. erch; two pony mares in foal, \&24 3s. each, two two-year-old ponies, \$48 6s.; five pony yearlings, 8181 s s. 2 d . ; ten harness mares or gelding
arew $\pm 07$ 14s. bd. each; fourteen Hackney broo mares. 558 4s. each ; six Hackney stallions, $£ 12119 \mathrm{~s}$,
 each; seven three-year-old fllies, 1888 , s. each
seven two-year-old fllies, f91 7s. each, and nine seven two-year-old flllies, $£ 91$ Ts. each, and nine
yearling fillies, $\$ 30$ 11s. each. The demand for the registered Hackneys for breeding purposes was very lively, and some phenomenal prices were realized. The produce of the stuad horse lonal grant dree long prices, end his aristocratic lneage is borne out flrt-rate stock is Mr. Mórton's junior stud horse Golafinder VI. (1791), a captivating animal, with
grace in every movement. Mr. Hester, New York, grace in every movement. Nar. Hestrer, hew fork, three-year-old filly, Boonie Doon, which, however, escaped him, an Ayrshire gentleman, Mr. Marcus Bain, securing her at $£ 525$. The young horse, Jolly
Shepherd, was also secured by a local buyer ${ }_{\text {at }}$ shephera, ${ }^{\text {Ss., }}$ but Mr. Hester carried off the three-year-old, Sweet Mary, at £336, and the two-year-old Craigielea, her own sister, at ate well
A large number of the animals were A large number of the animals were well is, they were sold for over \&100, and the sale from
first to last was an uncommonly lively one. first to last was an uncommonly lively one. In this, the first week of April, we have had an
uncommonly busy time of it. Oo Truesday a splendid general show of Clydesdales, Galloway cattle and Ayrshire cattle was held at Castle Douglas. On
Wednesday the Directors of the Highland and Agricultural Society met, and anoongst other things tion of Canadian cattle. On Thursday the amnual draft sale of horses from the Marquis of London-
derrys stud took place at Seaham Harbour, and on derry's stud took place at Seaham Harbour, and on
Friday the annual sale of young Shorthorn bulls took place at Kelso. We have already intimated Douglas. Montrave Dudley is owned by Mr. Wm. Montgomery, Banks, and Queen of the Roses by Me remembered that she wagbought at the Mont wrave sale, a year ago, for 1,000 guineas, by Mr. Andrew
Montgomery. She seems a formidable enough like Montgomery. She seems a formidable enough like
champion. Mr. Pilkington was also successful in Champion. Mral pading prizes with goodGalloways,
winning severil
and the Ayrbhire bull championship with the two-year-old Royal Stuart, for which he some months ago paid 200 guineas to Mr. Andrew Mitchell, Bar-
cheskie. Mr. Abram Kerr, Castlehill, Duvrisden, cheskie. Mhappionship for Ayrshire cows with a fine
got the che of his own breeding-Yellow Bess of Castle-
animal
hin. The chamnion Galloway was Henry of Tar-
breoch, owned by Messrs. Clark, of Oulmain, me gnifcent anime
of the Gallo
The sale of the Seaham Harbour draft was a The sale of the Seaham Hevend Shetland ponies, Clydesdales popular event, cobs and harness horses all met a
and trotting one rendy sa'e. On the whole there was most buoyancy
in the Shetland demand; 45t gs. or $\& 4715 s$. 0 d . was
 paid by Mr. Clare one a gem of her class, and
mere named Quenie, a twe enty-seven. Shetland stallions made an averag
of $£ 20$ 14s. 2d. apiece, while ten mares drew $£ 27$ of $£ 20014 \mathrm{~s}$, 2 d . apiece, while ten mares drew
14s. 10 d . apiece. For the three-year-old Clydesdale
 and for mares the tollowing amongst other figures
and were realized: Stetta 11432 drew $£ 120$; Thrit 1075 drew \&128; Hippona 11438 drew \&115 10s, and the
three-year-old filly Juliet, by Castlenagh, drew



 $\begin{aligned} & \text { year-old stallions \& } \\ & \text { stallions } £ 2216 s \text {. } 5 \mathrm{~d} \text {. }\end{aligned}$.
At the sale of Shorthorn bulls at Kelso prices did not come up to those realized for Galloway
bulls at Castle Douglas three weeks ago Yearling buills weredrawing these prices: $£ 254 \mathrm{si}$; $\ddagger 34138$, ; £21
 a good demand,

The Shire Horse.

## TR

Horse breeders in Canada are in danger of making an irreparable mistake by breeding a class of horses not wanted which cannot be sold at any price In consequence of the hostie miecking have declined, the farmers are breeding their mares to very indifferent stallions because the service fee is low. The mongrel-bred stallion is now more frequently used as his service fee is low, as there is no sale for horses; whereas the reverse is the case. There never was a greater demand for good horses, and there never was a better price paid for them, and I am all of opinion there always was a go
and always will be for the good roadster. The man who sells a horse whenever opportunis arrives may more when the breeder who hangs Way for the arger price and thinks he has got a world beater, generally sells at a loss. In order to raise the best it is necessary to breed to the best, and the man who allows a few dollars to stand in the way of a good breeding stallion is making a mistake. If our farmers want to retain their character for raising the best draught animals, they must at once alter their system and breed their draught mares to the best draught stallion, the Shire horse to be preferrea. Do not for one minnee suppos oninion has been often expressed, and our experience proven, that the Shire horse is more frequently free from Any cause of unsoundness than other class is, that they become useful on the farm at such an early age. At two years old they will take their place in all spring and summer work, and as soon worl years nat 15 going on, paying their way un for town worik or export, for whatever the carters and contractors want the farmer ought to supply. There neglect the useful in horse raising
Therise in favor of the Shire breed has been phenomenal. The Shire Horse Society was started
about the 1,600 members. It is endeavoring to improve and promote the old English breed of bart horse, nown
as the Shire or War Horse, and be the menns of dis
at tributing sound and healthy sires throughout the
country. Their stud books are invaluable to breed ers, of which there are twelve or fourteen published and they contain the particulars of air the pedigree frome. There is no one gentleman who has done more in this respect than Mr. Walter Gilbey. Whose
name is a household word amongst Shire horse name is all housetho world
breeders all over the world
The number of entries has been steadily increas only about one hundred stallions and mares ex hibn, England, from recent advices, we leann there was closeon 800 in the February, 1893 . Now, what has been done can be done again, and we would urge
the co-operation of the stud horse owners of the Dominion to unite and demand protection, and if they only approach the powers that be we are sure
that a bill could be presented this sesion to licens
and and inspect the stud horses held for service as it
do not alvocate general purpose breding, as
several special qualities. A horse may be produced
that that can nlow and draw the produce to market
fairly well,and trot fastor than the majority of plow horses, but what is he? Not a general purpose horse he might be described as a no-purpose horse, and his breeders are finding that out very rapidly, and
also that the also that
after all.
We frequently hear there is no money in breed-
ing horses, or, Is there any money in breedin ing horses, ort hat we reply, the reward is great to those who understand and will devote sufficient attention to the subject, for the pure trotter, must be red, and not manuractured of development. If a breer aims to projuce a high class of carriage horses, he will assuredly
dut meet his reward, for no cype o thorse highest type of tainly bring as much proit as the highest tyle type Hackney. It is at the preser Silbey has paid 5,000
of horse, and Mr. Walter guineas, or just about $\$ 88,250$ (twenty-six thousand two hundred and fifty dollars) for a Hackney stud horse named hred by Mr. Bourdas. He will in future be located at the Eisenham Hall Stud Farm, Essex, which at present contains the finest blood and stud horses in Old England.

## Weeds.

by J. hoyes panton, m. A., f. G. B.
Polyqonaceas (Buckwheat Family)
In this family we find the joints of the stems much swollen and the lower part of the leave forming sheaths. The flowers have no petals and bear a single seed.

Polygonum aviculare (Knot-grass Door-weed.) This is an annual often found growing around the pump or in the back-yard; it does not grow very high, as the stem has a tendency to spread, eamon about haif-inch long. This plait is forms mat about dwe ted patches
P. Persicaria (Spotted Knot-weed)

A common annual about buildings, fences an low grounds. - The leaves are usuout foot high P. convolvulus(Knot-bindweed)
annual wُhich sometimes proves a trouble some weed; it runs and climbs, sometimes matting around objects near it. When hoeing it collects on the hoe and becomes a nuisance to get rid the seeds oftwhich bear a close resemblance to buckwheat, but are much smaller


Rumex Acetosella (Sheep Sorrel or Field Sorrel).
This annual is often found in sandy fields; its soil, and very sour. It is very common upon poor leaves are spear-head shaped on long stalks. Young plants grow up from underground stems. This plants grow up from underground stems. Th


Rumex crispus (Common Dock). Fig. 36.
Thisperennialisbecoming very common throughout the province. It is a great nuisance in grass
land, and seems to grow vigorously along the roadside and in ditches. The root is large, spindle shaped and yellow; stem, two to four feet high; wide, with the edges somewhat curled. It bears many seeds, which have a sort of winged structure R
R. obtusifolius (Bitter Dock)

Another dock, but not quite so common as the fonesent a less crumpled appearance, but in other respects it bears a close resemblance to the common dock. They are more frequently found along where cultivation is carried on. In such cases we must resort to the scythe and spud to get rid of
them. Although we find several weeds in this order still it has some of,"considerable economic value

Euphorbiacese (Spurge Family) Plants whith milky juice and bearing flowers, some of which have nothing but stamens, other
pistils only. Euphorbia Cyparissias is sometimes called grave
vard moss, though there is little in common to it and a moss. This form has escaped from gardens, It grows about one foot high; the stem crowded
with linear leaves; the flowers are in umbels and with linear leaves; the flowers are in umbels and pearance.
E. maculata is a low form of spurge, with leaves possessing a brownish hence sometimes called spotted spurge. We fre
quently see it growing between the ties along the quently see it growing between the ties along the weed.

Urticacese (Nettle Family). This family affords examples of herbs, shrubs and trees. The elm, fig, mulberry, hops, and th Urtica dioica (Nettle)
This tall perennial never proves of much
trouble in the open field, but usually is found around stone heaps and in fence corners. We
generally find the plants growing in masses and
rather unpleasant rather unpleasant to handle. The leaves are dis
tinctly toothed and the spikes slender- Some of tinctly toothed and the spikes slender- Some of
the flowers are pistillate, while others are stam inate.

Liliacese (Lily Family). An order containing many extremely beautiful
flowers, such as the lilies, hyacinths, tulips, tril flowers, such as the lilies, hyacinths, tulips, tril hums and adder tongue

Allium tricoceum (Wild Leek). This plant is very common and becomes a great
nuisance in the spring of the year, when it is eaten hy cows. It has a very strong onion odour, which
affects the milk of cows feeding upon it. The leaves are about seven inches in length and nearly
two in width, bright green, and readily recognized two in width, bright green, and readiy recognzed
by its smell. The leaves wither before the fowers
appear. It is usually found in the vicinity of the appear. It is usually found in the vicinity of the
woods, and gradually disappears as the woods are

## FIRST PRIZE ESSAY

## How to Construct Concrete Walls and Buildings.

## BY THOMAS GRAYSON, MOOSOMIN, N. W.

The first thing requisite to secure a good building is to be sure and have a good, solid foundation. If you are going to excavate for a bank barn, you wil
no doubt, be sure of a good foundation; but if you no doubt, intend to start on the surface level, you should dig a trench two feet wide and deep enough to reach
the subsoil. Then build a stone footing, say twenty inches wide, if for a twelve-inch wall (whatever width concrete wall is, the footing should in all large, flat stones and good mortar; finish your footing perfectly level, true and square If you
intend putting in joists for floor, I would advise intend putting in joists for floor, I would advise
building a similar wall or footing to receive the
same, and also to same, and also to receive any posts for running
beams to carry the upper floor joists. This I consider one of the most important things about any
building which has an upper floor intended to carry a heavy weight, as the greater part of the weight comes on the posts, and if thoy are not on a good
solid bearing they are very liable to settle when the solid bearing they are very liable to settle when the
weight comes on them, which would have a serious effect on outside walls, and also on the roof. When set, begin and fix two and grinch scantling three feet apart inside and outside of intended wall. Try and get them all straight in themselves, and be sure and keep the rounding edge on the inside all the gether at the bottom with a strip one by two inches,
well nailed to the bottom of the two by four pieces well raiting with one edge on the stone wall. Plieces, and
the two by four-inct far enough apart to re
your wall and a one-inch board on each side. may tack on one or two pieces higher up exactly in every direction thoroughly, and keep them per fectly plumb every way. Make your door and window frames the same width as your walls, and
set your door frames before you start to build your set your door frames before you start to build you
concrete. Now take one-inch boards twelve inches concrete. Now take one-inch boards twelve inches scantling; get enough to go around your building, and joint them together on a scantling in every
case. These same boards will carry you up to top case. These same boards will carry you up to top
of wall. If floor joists are going to be put in, I
would try and arrange for them to come on the top of stone footing. Now you are all ready to start and good clear gravel, which should be free from soil or dirt of any kind. The quality of the concrete depends greatly on the gravel. When taken from the pit it should be screened through a quarter with a few rough boards. Get out all the fine sand possible. The gravel should consist of the following sizes:-One-fourth about the size of hens' eggs
(or this part might be substituted by broken stones), the remainder should vary in size down to very coarse sand, and should be mixed with lime in gravel, mixed together in the following manner Make a box six feetby six feet well ; put your grave a wagon box would do very well; put your grave feet by six feet and ten inchesdeep, with a hole on one
end twelve inches wide; make the piece which you cut out so that you can slide it in or out: set one wagon box), and support the other end on a trestle giving a fail towards the gauge box of about two ficient water to slack it; as your lime slacks add more water until it is all covered ; mix it together thor is of the consistency of cream. Now you have your gravel all ready in the gauge box. Take your slide run out on to the gravel, mixing the whole toge ther thoroughly, then turn out on to a platform and mix again. Be sure use too much water, for if you do it will run off and carry a good deal of the lime with it. Now you are ready to begin building you Wake a stick, a piece of pole will do, about three inches in diameter and about three feet long, thin down one end for a handle. With this ram the con crelid. Your jas build utp one foot high all round your building at a time, let that get set before moving your boards. If the weather is good, one day will be sufficient. Then raise your ooardsan round Set them, and then go on to height for first floor joists. If you are going to carry your walls twelve
or fourteen feet high, I would stop for a few days and let the walls get thoroughly set before going any higher, be sure and put pieces of board between the jambs, so as to keep them from being pressed out of the perpendicular by the weight of concrete,
and lay in the wall wood blocks to nail the frame to when finished. It is advisable to have a few loose boards around during progress of building, close sf each day's work as a precaution at tine rain, which would spoill the work if allowed to run into wall. When ware are up the scantlings, knock
height, and are set, take dow
away all braces, and take a saw and cut away the
pieces of one by two inclles which go through the wall and have held your scantling together. You is left with mortar. Take a little mortar and go around and stop up any little hole you may have missed or if you are desirous of having a wellproportion as for concrete, and in the same manner inch thick ; start at the top, takincs about a quarte and about rive feet in depth. When you have laid on this much, take a float (wood trowel), get a white-
wash brush and a pail of water, sprinke the water on the face of your work, and then rub down with your float. This will take out all the trowel marks and keep the wood from cracking. You can lay it
out in blocks to imitate stone by using straight edge, and mark joint with a trowel. If you want a chimney flue in wall for a furnace, or it would answer splendid for a ventilator, put a six-inch
stovepipe bend in wall, at the usual height, which would form entrance to flue; put six-inch straigh pipes on top of this, building concrete around same as you go along; any old pipe will do for this job. When you get to top of wall, then carry up in brick
if for flue, or wood if for a ventilator. If these directions are carefully followed in every particular,
you will have a good, warm, serviceable building you will have a good,

## Building Concrete Walls.

When building a wall for a stable or house we should aim to have one that shall make the interior of the building most comfortable, and the best way very little conducting power. The concrete wall very little conducting power. The concrete wail, spaces, is almost non-conducting, and hence it wil keep the building warm in winter and cool in summer. A thick stone wall in which some stones frost on the inside in winter, and sometimes with moisture in summer, but the concreve wall when properly
It is one of the cheapest, substantial walls where sand, gravel and stone, or sand and gravel, or sand and stone can be had, and in most parts of the wall. This wall does not need to be as thick as an ordinary stone wall, because a water-lime concrete is much firmer and stronger than quick-lime as used by masons, for every stone is bedded in waterThe writer has a wall eight feet high under a or ten years withoutany signs of decay, although it s only about twelve inchesthick. Thisisthick enough or an ordinary sized barn, or it might be made top. The services of a mason are not required for building a concrete wall, as any good common daborer, one who is learned in mixing the quite well.
[f any mo
If any moisture is to come to the wall, it must be one or two feet beyond the proposed wall, so as to leave an air space on the outside, giving the wall a chance to dry and become hard. It will also be wall to cary off any water that might otherwise come against it. After you have thus prepared the place for the wall, construct your boxesas ollows:Take three by four scantling for standards, a
little longer than the wall is high, and place these on each side of the proposed wan, as for aport sts
the thickness of wall and the plank used for the boxes. The plank should be fourteen inches wide, one and one-half inches thick, and a length to
accomodate the wall. If the wall is thirty-two feet long, then the plank should be sixteen feet, and so on. The standards are held the proper distance apart by nailing a thin piece of ooas with a cross piece. The wall is builtover the pieces in the bottom, and they are left in it. The standards are then plumbed and made fast by braces on the outside. The planks fast as the wall goes up, and those on the outside must be longer than the inside ones by the thickness of the wall. The door and window frames the door frames must be placed before the wall is hegun. To hold the planks from springing out between the standards, take a narrow piece of hardwood board two feet long and bore a two-inch hole at planks) between them, put a strong pin two feet long through these holes about ten inches. Now, these pins will just fit over the outside of the box planks, and by putting a brace between the upper prevent their springing out. Two of these clamps
will be required for each set of planks sixteen feet long.
Now, when the box planks are placed all mortar and stone. First put in a layer about two inches thick of the mortar, then a layer of stone,
then another of mortar, and so on, always letting then, another of mortar, and so on, always letting
the mortar come over the edges of the stone. If the stones are not permitted to come quite to the
outside of the wall, the mortar over them will pre-
vent them conducting frost or moisiture through.
The mortar should be tamped in so as to flll every crevice. When you have got all round the wall you may raise the plank one foot and go around weather is dry. Place the window frames in the boxes when the wall is raised high enough to bring the top of the frames to the top of the wall If you have only sand to use, mix ive parts with mortar, but if you also have gravel, mix the sand
and water-lime four to one, then mix into this five or six parts gravel, and make it into a thin mortar with it, put it in as described above.
ror a wall fourteen feet high use scantling long enough to reach above from springing with the the centre to keep them from springing dwelling prossure io composed of three parts sand and one of Portland cement. Mix them like mortar for of this, then line off in blocks like square stone. I got the proportions and method of building this When we built our barn, and. I have superintended
the building of several since with entire satisfaction.

The Advantages of Concrete Walls. The ar W. A. DOYLE, BEULAF, MAN. The advanteges of concrete over the stone are : lst. Its exceeding cheapness, as where lime can venient, the cost is about one-half that of masonry, after allowing full wages for the farmer's time in eaming and building. mer, and consequently more healthy. It is much warmer than frame, much cheaper, and it is good for generations. When walls dry they become as hard as ordinary masonry. If it is required hard er, a small quantity of Portland cement can be other dealers for 1 cent per pound, but it must be used as mixed, or it will set so hard in a few minutes
that it cannot be handled or packed. [Usually sold that it cannot be handled or packed. (suall sold In $\operatorname{In} 1891$ I built a concrete house, $24 \times 30$, with wing $20 \times 24$, all 16 -feet walls, with three gables, cellar $20 x 24$, and furnace room $13 x 13$, all 9 -feet wails. The termined to build concrete; hired two men, paying one $\$ 1.75$ per day and the other $\$ 1.50$. They dug both cellars, dug and built the lime kiln, burned the Mye and built the walls, and ato this cost me mavel hanled the stone and gravel cut the wood for the kiln. Thus my lime cost $m$ only 17 cents per bushel. I bought my flooring rough lumber and shingles at Birte, and impes, sash, casings, stair material and paint; lathed and plastered and painted, finishing in superior style for $\$ 1,410$. This includes hauling stone and thick and concrete, except two feet of stone work at bottom, done by ourselves, and house walls one foot thick. I have saved $\$ 700$; I have a house worth at a lower rate for all time.
sure at a lower rate for a the use of stones in build-
Mr. Doyle commends ing concrete walls, thus effecting a great saving of the more costly material. On this point he says;"Having bedded the boxing by placing about three inches of mortar (a smatl stone hammer will do) packing it firmly into all corners, if stone is to be used, next set in the stone, tapping it or working it
down into the mortar, placing the best face to outdown into the mortar, placing the best face to out-
side of wall and in contact with the boxing. All stones, large or small, must be apart to allow the
concrete to be packed between, thus flling up all concrete to be packed between, thus filling up all
spaces and obtaining a good bond. This use of stones is not objectionable, and a great saving of
lime and labor in mixing is thereby effected. If stones are selected with a good face and of variegated colors, the effect on the fnished wall is very pleasing, and most persons prefer it sto the over ten en dead-grey of the concrete. No. Then fill up the box with mortar, pushing and packing it with a
small stick or lath all around the stones to leave no small stick or lath ang around the hammer
cavities, and packing with
cavities, and packing with the hammer.
Mr. Doyle also recommends several sets of boxing, which he constructs as follows:-Place the
boards on edge, parallel to each other, the exact distance apart as the wall is thick (say one foot).
Nail pieces of lath across each board at right angles, Nallowing each end of lath to project two inches heyond outside of box, thus: Cut lath eighteen
inches long. Use shingle nails to nail on lath, two
nails at each end. Nail a lath about three inches nails at each end. Nail a lath about three inches
from each end and between those, like braces, every two or three feet. This stiffens the box and holds
it rigid exactly one foot wide inside. Then turn it rigid exactly one foot wide inside. Then turn
the box upside down and nail a similar set of lath the box upside down and nail a similar set of clath
braces on the other side. Next cut a lot of cleats
$1 \times 2 \times 10$ and nail with $2 t$-inch wire nails perpendicu$1 \times 2 \times 10$ and nail with 24 -inch wire nails perpendicu-
larly on the outside of boxing and projecting two inches above, clinching the nails mside. These
cleats will prevent the next row of boxing from
Nail cleats close to each end of box on spreacides, and others between, every two feet. If
both sidill is to be built on a stone foundation, the boxing
wall wall is to be tuilt on a stone foundation, om outside
should be set three or four inches in of masonry. Nainh wire nails, to make corner
of wall with 3 -inch
joint tight and a neat right angle, when boxing is

## Canadian Cows at Chicago.

## the Editor of the Farmer's advocame

Thinking your readers would be interested in our dairy exhibit, I send you the results of the last three days' dairy test at the barns. Your readers will be aware that Ontario has sent five Shorthorn cows th take part in bors on Thursday, May the 11th is for making cheese. Unfortrinately two four cows. Fair Maid of Hullett, owned by Mr. Wm Grainger, Londesboro, and Lady Bright, owned by H. Wright, of Guelph, have not as yet dropped their calves, although we were told by the owners that they were due before this date. If the rules for the three tests as laid down and printed were the second this would. prevent them coming , but fortunately at a meeting of the Dairy Test Commit tee this morning, which I attended, having been in vited by the Hon. H.H. Hinds, Shorthorn Dairy Com missioner, they changed the Guernsey sent under the same cincumes This is an importan the same and I am sure will be appreciated by our Canadian people. This committee was attend ed by W I. Buchanan, Chairman; Prof. Babcock Prof. Scovell, Val. E. Fuller, Supt. of.Jersey cattle W. Caldwell, Supt. of Guernsey, and H. H. Hinds Supt. of Shorthorn cattle
The unofficial test of the three cows that are milking for the last three days is as follows:Waterloo Daisy; owned by F. Martindale, of York, on the 6th gave $49 \frac{1}{2}$ lbs. of milk, on the 7 th 51 lbs ., and an the 8th $51 \frac{1}{2}$ los., topping the shorthorn record, Glanwern; Roya the 6 th gave 411 lbs , on the 7 th 41 lbs , Glanworth, 8th 421 lbs of milk: Marchioness 6th, and on "the 8th. 42t lins. of milk; Marchioness the 6th gave 35 lbs., on the 7th 39 lbs , and on the 8th 40 lbs of milk, all averaging over 4 per cent. of butterfat. They are all improving,
Yours truly, H. WADE, Sec. D. S. H. B. A Chicago, Ill., May 9th.
Note. - A subsequent letter from Mr. Wade informs us that the result of the first day's test of cows was as follows :-Iwenty-five Jerseys gave 932 lbs. of milk: twenty-five Guernseys gave 724 lbs . of milk;
milk,

Queries Regarding Paying According to Test at Cheese Factories.
by h. H. dean, O. A. C., GUELPH,
The three following questions have been sent to the Dairy Department at the College for our opinion, and as they are such as will likely come up in a number of factories which pay for milk according theopinions given to your paper, thatsome of itsmany readers may possibly be profited. The first came from a proprietor of two factories in Western Ontario.

1. At our annual cheese meeting one of the patrons asked me, if he kept part of his milk at the rest of his milk, did it make any difference to the rest of the patrons that were sending. Was it cheating himself or the other patrons the skim milk at home, as he could feed it to calves and hogs? I would be pleased if you would answer the question for me, as I am going to pay according to butterfa
At the one factory in the province where the paid by test last year, some of the patrons kept a home the "fore" milk, and some, I understand, just to all patrons? is a question that has come up under the present laws could persons so keeping back "fore" milk or skim milk be prosecuted fo fraud? My answer to the first question is, No; First Question. - Suppose a patron has 200 pound Now, suppose further that he skims the evening milk, which we will say is 100 pounds of the same quality as his average. Say that he takes of of morning's milk and feeds the 80 pounds of skim
milk to calves and pigs. The 120 pounds of cream and morning's milk would test about 5 per cent,
(making no allowance for loss of fat in skim milk, which would be practically nothing if done with the
separator), which would be 6 pounds of fat-the separator, which would be 0 pounds of fat-the
same as if he had sent the 200 pounds of whole milk
testing 3 per cent., and he has the 80 pounds of skim milk to feed. In other words, by paying
his 200 pounds of whole milk, and he has 80 pounds make as much cheese as the original 200? No of casein (reckoning skim milk to contain 2,88 per of casern of casein, according to Fleischman) in the skim milk, which casein or cheesemaking materia would have added to the quantity of cheese made.
Of course we know this richer millk would make more cheese and richer cheese than the same amount of 3 per cent. milk, but-would it bring that much higher price as to pay for skimming. we doubt it his mill, however, wa vat along with others, an some might soy that the cream will add to the value of the whole vat of milk enough to warrant the extra pay. This cream would not, although vat were rather low), because in normal milk there is an increase of the solids not fat with the fat, but in the case mentioned we have an increase in the folids which are necessary in cheesemaking.
In answer to the second question, so far as I am able to judge from the "Act to provide against manufactories," as amended by 55 . Vict., Ont. Statutes, and published as an appendix in the Annual Report of the Dairymen's Association of cover the case in point, and should be amended so Drugst and Agricultural Fertilizers" (Dominion Statutes) does, however, offer protection in this case. Section or offer are after any valuable or oftered or the article has been extracted there from, or if water has "been added thereto, etc Skim milk and "fore" milk certainly contain "valuable constituent" for cheesemaking, and par provided in the Act.
2.-This question was sent by the secretary of on of our joint stock factories been raised at our cheese factory, ane right of the maker to deduct from a patron's milk when he is aware that the can or cans were exposed to shower of rain, and when payment is to be made and the composite test principle in testing once a week. Would you kindly give me your opinion?
The following opinion was sent on this ques The following opinion was seet on this ques
tion:-It will not be necessary for cheesemakers to deduct for rain when paying by test (except to affect the total fat credited to a patron. For in stance, say a patron has 4 that would be 4 pounds of fat. testing 4 per cent. that 10 pounds of rain water get Suppose further that will make him 110 pounds of milk and water, which will test about 3.65 per cent.
and will still be credited with about 4 pounds of fat. and will still be credited would affect the composite test; but practically it would not to any great extent. For an explanation of this see the College Report fo 1892, Dairy Department, under Composite Testing 3.- The third was also sent by the same person,
and as it has been asked several times before, we answer it all the more readily:-"Do you think it will answer as well to take the average test for the month and multiply the month's milk thereby as to
multiply each week's milk by the weekly test?" Answer.-It will be necessary to multiply each
week's milk by the weekly test, as the following week's milk by the
example will show:-


Month $-\overline{1800 \mathrm{lbss}}$ milk. Average test, $\overline{3.75 \%} \overline{69.50=\text { total fat. }}$ $1800 \times 3.75=67.50 \mathrm{lbs}$. fat, which the patron would
be credited with by multiplying the total pounds of milk delivered by the average percentage of fat for delivered would be 69.50 -a difference of two pounds. If the pounds of milk delivered each week and same (i.e., do not vary a great deal), then the differThe more that the weekly pounds of milk and the multiplying the month's milk by the average of the
tests for the month.

Questions on Stable Building.
To the Editor of the FARMER's AdVOCATE.
Will you inform me through the columns of your ournal which is the most profitable way to stable be tied up or run in loose? I am about building a Yours truly,
the best plan. N. W. T
[This is a pretty big question, and several columns might be written in auswer to it. Perhaps some of For our part cows, so that they may be kept clean and milked with comfort to themselves and the milkers, while Next month we intend publishing a plan of a barn, giving specifications for same, which will doubtless (

## Farm Architecture

We take great pleasure in introducing this new and interesting feature to our many readers. Many a farm house is built with little thought of having the interior arrangements convenient and at the , whereas by fore thought and planning, with little or no increase in the cost, a house could be made much more convenient, more easily heated, better lighted, more labor-saving and more attractive both inside and out. and know how to appreciate a convenientiy planned stable, but are apt to take little interest in the arrangements of the house. A nice looking house not only adds to the value of the farm from a commercial stand point, but adds much to the love all members of the family have for for thus is a greal having this plan prepared we have the at nothing elaborate, but a simple, conven ient, and not overly expensive house

In the next of this architectural series we pur pose giving drawings and specifications for a bar and stable.

## A Farm House.

The accompanying cut gives the elevations and floor plans of a farm or country house, costing from $\$ 1,800$ to $\$ 2,00$, according to locality, Size of Structure-Main part $30 \times 30$ feet ; rear wing, $14 \times 16$ feet. Size of Rooms-See plans.
Height of Stories-Cel'ar, 6 feet 6 inches; first story in main part, 8 story, main part, 8 feet 6 inches story, main pa

Materials-Foundation, posts first and second story, frame "covered with shiplap, tar-paper and "drop" siding; gables and roof paper. First floor of main house is a donble one of shiplap, tar-paper and 1. \& G. fooring. Second G.". flooring. Flooring of diningroom, vestibule, pantry and kitchen to be of Douglas , al used on building to be all of B. C. cedar. Plastering-Two coats, with usual Plaster of Paris hard finish. Painting-Two coat work throughout, and Special Feature-Alarge comfortable and good looking farm house for a of money; an isolated bed-room for the workingmen ; an earth-closet off laundry or woodshed for winter use This closet is fitted with earth-drawer, which may be removed or inserted from the outside of house. This closet is much more convenient and than the ordinary privy at a distance from the house. Dining-room and kitchpine ceiling to a height of
three feet. three feet.
Side gables mar be "clipped-tops" as may be be ront elevation, or may be carried up in the ordinary
way, as shown on side ele-

Dotted lines on second floor plan represent the oof lines. Note.-A bill of the
materials required in the
erection of this house will be furnished free on application to the undersigned. form of contract, also dill of materials, will be sent on any subscriber to the Farmer's Advocate for $\$ 20,00$; to others, $\$ 30,00$, of this design, or altera-
tion of it.
E. Lowery $\&$ Sov, Architects, E. Lowery \& Son, Architects,

The Apiary.
CONDUCTED BY Mr. ALLEN PINGLL, sPRING FFEDING AND STIMULATION.
Bees are fed in the spring with one or both of wo purposes in view. They are fed, when deficient n stores, to keep them up till they can help them-


FRONT VIEW
 breed up in the spring quite fast enough. It may there will be a number of inferior queens on han in the spring, in which case it is, of course, advis her little family will not be strong enough to take full addvantage of the honey flow when it arrives, But great care is necessary in feeding a weak
colony in spring, whether for stimulation or to supply needed stores. The effort to save the colony may be the means of ending it, if robbing is super induced. Feed just before dark on warm evenings and the food will then be disposed, of during ene method of stimulation often resorted to (especially by the amateur) is what is called "spreading the brood." This practice should only be pursued in ex ceptional cases. There is great danger of "The novice ought never to "spread" brood at all till he gets experience and knows what's what. The spreading consists in
taking outer frames and either shaving off the caps taking outer frames and either shaving off the caps
from the honey or abrading it so that it begins to from the honey or abrading it so that it begins to tween two fremese of hrood. The brood-nest being thus enlarged and the heat diffused, there is danger
of the brood being chilled and thus killed, When spreading is resorted to at all it ought to be done by spre expert and experienced apiarist.
Instead of scraping the caps off both sides of the Instead of scraping the caps oif both sides of the scrape but one side and place the frame, not in the middle or heart of the brood-nest, but on one side
or the other of it, with the abraded surface next to the brood.

EXTRACTED HONEY.
A subscriber writes:-"I have few colonies of hees in box hives, and would like to get some ex tracted honey from them this sum-
mer. Would you be kind enough to tell me through the Advocate how to proceed ?
It would certainly be a little diff cult to get extracted honey from honey in the manner described in a previous issue of the Advocate, but that does not appear to be what you want. You want extract-
ed honey taken with the honey ed honey taken with the honey be used on hives with movable frames-that is, frames which may
be removed from the hives withou injury to bees or frames and re: turned, You must, therefore transfer your hees from the old hox
hives to movable frame hives before you can use a honey extractor on
them. There, are several method of accomplishing this, but as yo appear to be a novice without exkeeping, you had bette method, as follows:-Hav your movable frame hives ready, and when your hees
swarm put the new swarm in the new hives. Then in 21 or 22 days after the first swarm from every hive issues, the young bees al being hatched out by tha
time, you can transfer and comb to a frame hive Take the box hive contain ing the bees, invert it place an empty box or hive
the same size over it in $n 8$ the same sizio over it in naany openings where the
hives meet, and then hives meet, and then
"drum" the bees out of the "drum" the bees out of the Take the latter with the bees and put it in a coo place, botfom up, having covered the bottom (no cheesectoth toconnnethem
to the box or hive. Now to the box or hive. Now
take the old hive of comb, cut thelatterout and fasten all that is fit in the empty
frames of the new hive. If you have a honey extracto the honey had better be extracted from the combs
before you fasten them in the frames, or afterwards,
as you may find it easier. as you may find it easier.
Should you do it before you insert them you would need what is called a "comb basket," with perforated sides, in which to
place the combs before解
are fed with the object of stimulating later has been practised extensively in the past among the best bee-keepers, but is now "going out, as it ought to do. Queens which require such artificial stimu- bees out of the cellar or other place, and after openlation to do their duty are hive a good queen wili ing the entrance of the new the wide dump

Rape as a Cleaning Crop and for Fattening Crop
by J. C. sNELL, EDMONTON,
My experience with rape in the last three years, een so gratirying to myself, I feel constrained to tell it to the world through the ADVocate. The cultivation necessary to secure a crop is very shimple. The land plowed inte in June, or anter all the spring seeding, in-
till
cludina that of turnips, is over. cluding that of turnips, is over. Ab couple of por roller and harrows is ant hat is requir pounds of seed per cre, kept clean by the free use of the horse-hoe, the cleaning process is quite as effective as a summerfallow, and the amount of feed produced is, in in most cases, maryellous, It may be sown any earlier than June 2 th, as the fy is apt to take the plants, and if it does, get an early start it is liable oo wilt and turn yellow in the dry spells we soo wen have throadcast, but better in drills with cultivatolion. Stock should not be turned on it till it is
about 12 to 15 incces high, as the stronger the about 12 to 15 inches high as ane stronger
stalks become the better feed they make. Care is
then med necessary. when stock is first turned into it. .o rain
hould not be put on it while wet with dew or or a fow days, and a pasture field should be grass and rape for two or three weeks, when they grays safoly be confined upon it. Sometimes there are considerable losses from stock becoming bloated or scoured, and i have known cases became swollen and they have lost part of their ears, but in the last three years, with from 5 to 12 acres, I have not lost a single animan,
have had no mishap, and my sheep have done ram lambs on rape that had never been fed anyram lamg since they were put on grass in spring, and,
thin
on rape alone, many of them weigh from 150 to 175 on rape alone, many or them as broad as an board. A good feature about rape is that its feeding qualivy
Beems to improve with frost, and the shoep will relish it and continue to improve on it right up to
winter, or until it is covered by snow. Young cat winter, or untin is covered it is not well to let the milking cows have it, as it taints the milk. In adcrop, it goos without saying that the feeding of sheep upon the land makes a fine preparation for corn for the cattle, we ought to keep twice as much stock, and have them in twice as good
we find them throughout the country.

## QUESTIONS AND ANSWERS.

 Mrin order to make this department ali useful as Dosesibl b b mein, ircases where eariy repiles appear be pubbilibed in hex

## Veterinary Questions.

ANSWERIBD BY W.A. DUNBAR, v.S., PRESIDENT OF THI
MANTODA VETERINARY ASSOCIATION, WINNIPEG. I had a five-year-old horse castrated late last
fall; he bled till he lost his sight, which he has not yet recovered-seems to be a light scum over the eye., Three or four days after the oper-
ation a "ball" formed around his penis, two inches atrom the point and larger on front side. This
foall" prevents the penis being drawn in all the way. The horse is in good condition, and has bee kept in warm stable. Ist, What can the growth
blindness? 2nd. What can Id with the grat
on penis? If the blindness is due to the excessive hem-
orrhage consequent on castration, it consists of paralysis of disa sometimes disappears as the system regains it
normal tone and strength: The blindness, how ever, is very often permanent. Local remedies are
of very little value especially when the disease is of long standing, and
medical treatment it must be through the internal administration of medicine. Prepare your horse
for a purgative by feeding exclusively on bran mash for a purgative by feeding exclusively on bran mash
for sixteen hours, and then give the following:ginger, two drachms; treacle, sufficient to form a
ball. Continue the bran mash diet until the purgative has seased to operate, and then give morning and eveming, of each one drachm. Continue this treat
vome
ment for one week, stop for one week, and then re meat for one week. This rout one week,
pend and the observed
unt until three weeks' treatment has been given, The
penis is partially paralysed, and the thall, that
has formed upon it consistsof inflammatory effusion, which has sy this thime become partly organized. successfas to be resorted to. I would recommend
organ has
fin scarification and afterwards daily fomentation on the enlargement. Give the animal moderate and
regular daily exercise. If possible, you should put
the case under the personal supervision of a goond

1. I have a colt rising two vears old thathas a og spavin. Would you if so, what will remove it? it canle cur also be good enough to state whether
WOuld plenty of exercise would be advisable, when under treatment? The colt is entire, and to tell me of a 2. Would you also be kind enough to tell
good remedy to cool the blood of horses?

SUBSCRIRER. 1. If there is no lameness in connection with the be due to an excessive secretion of synovia, independent of inflammatory action. This condition is often observed in colts of heavy breed, with coarse joints that are abnormally straight. When not a symptom of actual disease, the enlargement will
often gradually disappear (without medical treatoften gradually disappear (without meat. If your
ment) as the animal a pproaches maturity. IV ment is lame in the slightest degree, I would advise you to treat it as follows :-Cantharides, drachms; vaseline, two ounces. Mix; cut the hair well in with the hand ; let it remain for forty-eight hours ; wash off, and apply lard or vaseline to the blistered surface. Repeat as soon as the scab falls
off which will be in about two orthree weelks. Keep off, which will be in about two or three weeks. Keer
the colt stabled while under treatment. 2. If your the colt stabied whothoric condition (full flesh), with'a tendency to stocking of the legs or the breaking out of pimples or blotches on the skin,
vise you to give to each a dose of purgative medivise you to give to each a dose orpargative medi
cine, such as the following; ;-Barbados aloes, one ounce; ginger, pulverized, two drachms; treacle or
soft soap sufficient to form a ball. Before administering the ball, it will be necessary to prepare the
animal by feeding exclusively on bran mash for at least sixteen hours, and after giving the ball, con tinue the same diet until the medicine has ceased to operate. Tike che purgative may be followed by
is operating. The is operating. The purgativ
givang in a mash, every ni
drachms nitrate of potass.

Can you or any of your readers enlighten your subscribers as to the best means to be used with
 If inversion of the womb is complete, and the
Coetal membranes (cleanings) are firmly adherent foetal membranes (cleanings) are firmly adherent,
and the cow is in a recumbent position, place a bed sheet, or any other suitable piece of cotton
cloth, below the inverted mass, and then remove the "cleanings" carefully from their attachments To do this properly often requires the exercise of guite firmly attached to the cotyledons of the womb, and undue force or haste in their remoyal io liable to materially injure the parts. When thi
"cleanings" are removed, cleanse the womb well "cleanings" are removed, cleanse warm and the womb is much congested, use cold water freely
When the womb is thoroughly cleansed from al extraneous substances, an astringent and soothing Iotion, such as the following, if at hand, should be of opium, two ounces; water, one quart. The work of returning the womb should stow commence and
if the animal can be made to stand, the task will be if the animal can be made to stana, If it is very weak and not feverish, a good stimulant may be given wosition is to be, if possible, avoided, and every reasonable means should be used to raise the animal refuses to stand, then it must be placed in as favor able a position as possible for the successfual per
Cormance of the operation. The hind quarters should be raised as much as possible by placing bags very advantageous to turn the animal on its bacl with the croup raised as high as expediency shal assistants, one at each end of the sheet, will sup-
ort the womb, a third, if available, will hold back the tail, and a fourth will be required at the head where we whil sither. The womb should be raised na a level with the passage firm pressure with both
first return, by gentle and hands, the parts nearest the vulva, sinape. into the
two-thirds of the mass has been conveyed in pelvic cavity by manipulating in this manner. the
closed fist should be applied to the end of the womb, when, by steady
pressure, the reduction of the remaining portion is
and generally easily effected. After making sure tha
each horn of the womb is returned to its norma position, withdraw the arm and apply a truss
which should be previously prepared. A simple but very efficient truss is made as follows:- Take two
vieces of five-eighth rope, from 12 to 14 feet long: porble each piece and intertwine the doubles
making at least two turns on each side, which will orm a loop or oval space which is to be applied so (vulva) and at the same time permit the free discharge of foces and urine. The two portions of one
of the ropes are passed along the back and fastened On collin. or large rope, round the neck; whine
those of the other rope are passe hetweon the
hiorlisoun cach side of the udder, brought along the

one round the body just in front of the udder, and the other round the chest immediately behind th shoulders. The truss should be applied for at leas
forty-ight hours, and the animal should be made rorty-eight its hind parts considerably higher than
stand with its fore parts If violent expulsive efforts continu give the following dose--Raw linseed oil, onc quarte tilidennare, three drachms ; feed on sloppy an easily digested food. Various causes have bee assigned for inversion of the womb, among which are lymphatic temperament, food, prolonged and difficult parturition, retention of the after-birth beyond the usual period, relaxed state of the uterine ligaments, weak and flaccid condition of the neck
of the womb, predisposition, and anything that will nduly irritate the womb during or soon after par urition. It will be seen from the many cause Which are said to operate in the production of this aciident that it is very difficult to recommenc a a pre be to remove or avoid, as far as possible, the cayses路 hould be emploved.

I have a valuable 1,500 -pound mare, heavy in sightly lame on going down a hill, the snow being tenderness in the sole of her foot. I pared and ond hammer. The only place she feels pain is right above the hoof, in front of the coronet. There o swelling about the leg or foot, unless where the rger than the other foot, and for the last fwo eeks I have used Clark's White Liniment, but she is still very lame, although I think a littee bitcer long in the stable without any harm standing so yood condition and heavy in foal? Would like to now what your V. S. thinks is the
Wh. Grisson, Wolseley, N. W. T. I think from your description of the case that it tance), probably caused by a tread or otherwise bruised. The treatment will consist of cutting why the hoo from the coronet at the point wher he purpose frelieving the part from the pressure ft the hoof. In addition to this, cut the hair closely from the sore part, and rubs in with the fingers the iniodide of mercury - Canch one drachm; vasene, one and a-half ounce. Mix ; let it remain for orty-eight hours, wash off and apply vaseltine or nd - ut the animal, if possibie, in a comfortable oo keep her mouth from the blister while it is acting, say for the space of twelve hours after applying it.
Since the beginning of " winter I have lost three ymptoms. - The calf lies down, not to rise again, due to extreme weakness in the legs; although it does not seem to make them suifer, Int might be
theless die inside of a couple of days.
In water, but I'm supplied with good stables, clear water and first-class hay, and my cattle are all in wonder I have seen a -calf, an hour before lying inside of a couple of days die as if it were due to pure exhaustion. 2uite a number of farmers have
ost catte only to affect young cattle, penerally those which re strong and well fed. I will feel greatly obliged for an answer to my inquiries, eltth.
Er lish, as I read both languages.
Your, Tupper, Man. extensive to warrant me in giving a decided opinion as to its nature. It is probably anthrax (charbon), vould advise you to have the carcass examined by a qualified person.

Could you answer through your valuable paper
what effect blindingwould be likely to have on the emper or a vicious, unmanageable stalion ; would
also like to know if any electrical appliance is made for use in taming "animals?" ${ }^{\text {atquITEs," Dewdney, Alberta. }}$ [We would advise you to procure "Art of Tam-
ing and Eucacating the Horse," by D. Magaer. The
work contains the latest and most reliableinformation on the subject of your enquiry, and may be
ordered through Williamson \& Co., No. 5 King street W.,
NSWERED BY J. H. TENNENT, N. Thave a well-bred mare, rising two years old and on lips. Rubs her tail and hips on sides of stal
Has good life and is in fair condition. Fed during Has good life and is in fair condition. Fed during
the winter on two quarts oats twice a day and all the oat straw she would eat. Also have a thorough here ankshire boar which 1 want to castrate. ${ }^{\text {II }}$ purpose? If so, please explain how. Sheo. M. Shepardson.

Give your mare a dose of purgative medicine, composear Bms. carbonate of soda, two drachms two dracn pint. Give this as a drench. Follow up whis treatment by giving every night in the feed, this arachm seltnatre and two drachms sulphur Bathe the ulcers night and morning with wash composed of the following:-Alum, two drachms;
acetate of lead, two drachms; sulphate of zinc acetatrachms : water, ten ounces. We could not recommend the administration of chloroform to the boar, as he would have to be thrown and tied berore
being chtoroformed, while an expert hand would have the operation performed long before the drug had taken effect.

1. Can you inform me of the best way to remove a naval rupture? 2. Also a good remedy to grow
a new frog in the foot of a horse which has had the anew fros

SURscriber.

1. It can be operated on safely añid successfully by any skilful veterinary surgeon. We would ad vise having the annima cast, aply a strong wooden
take the skin well up and apply clamp right over it, taking care not to encase the owel in the clamp. Leave the clamp on until drops off with the skin enclosed in it. Others reof the clamp, and pass a strong twine tightly ove the skewer in the shape of a figure eight; allow it to remaing up the skin, drawing well up, and tie a strong twine tightly
would be necessary to pound ite. In skewer through it to keep the ligature from slipping off. Others re commend carting the abdominaugh wals; bring the parts to-
scarif the the the mean of sutures. This is the most sur gether by means of sutures. This is the most sur-
 simpler ways. 2 , wixm equar parint stove and stirring thor-
lard by
oughly. Apply to the foot every night.

I have a cow four years old. Last fall I noticed
and a small lump come in her teat. It got larger till 1 could not get any mile
spring, when she calved, her bag filled up ali right, bunt I could not get any millk out of the teat with
the lump in, so $I$ punched it with a small needle. I the lump in, so 1 punched it with a small needte. got some milk for a few days, but titcosed upagain, heifer which has gone just the same way and has gone dry. What is the cause, and what is the cure, i any? WM. C. WATson. We cannot advise anything better than leaving her alone. Treatment is liable to make matters worse, and the cow will give dearly as much mik out or he lhess or inflem with hot water and apply lard. Try rubbing on a liniment made as follows :--Put say four ounces alcohol in a bottle and add as much gym camphor as it will absorb; then add one p
three of this mixture

I have a two-year-old heifer of Holstein breed, which calved February; had twins. Have noticed milk on the floor under her. . Cannhinh teat it comes ying down. Cannot say from which teat it comes.
Is there anything I can do to prevent it? J. L. A.
We can only give the same advice as above-to with a hot iron or using nitrate of silver, but in the hands of any but an experienced person it is as iable to make the opening larger as otherwise. As
the heifer gets older and stronger, the weakness the heifer gets older an
will doubtless disappear.

## Miscellaneous.

What is the most cleanly and satisfactory way of tying cattle in their stalls? Is the "swinging
stanchion" a good fastening? R. K. J., Innisville. We prefer the common chain, with swivel and large ring sliding on a bar at side of stall, though the swinging stanchion is used by some good men ; still, the greatest number give their verdict in favor of the chain as being mor
Suppose I build a silo and fill it (say) four feet
deep about the 1st of June with rye, and four feet about the 1st of July with clover; and fill the bealance the latter part of August with corn, and cover each part with cut straw, will it give as good satis
faction as if it was all filled at the same time?
R. H. H., Thorndale.

There would not be enough weight in rye en silage of a depth of four feet to make it compact without the application of heavy weighting or some other pressure. If it lay loose or wholly spoiled meuldy or musty, and be partly or wholly spoiled
2. The same aplies to clover. 3. The risk of loss would be reduced to a mini-
mum by putting the rye and clover into the silo
while quite green and without any wilting. The



Rendering Cheese Factory Accounts by Percentages of Butterfat in Milk.

## 

In a large number of the cheese factories in
Western Ontario patrons will be paid for milk supplied according to the percentage of butterfat, as hown by the Babcock milk tester. There seems to be considerable difficulty in the minds of many
dairymen as to how the dividendsare to beapportionei acording to this new method.
The test is made onde a week. A sample of milk is taken from each patron's can every morning, and
at the end of the week a composite test is made showing the percentage of butterfat in each sample. The manner of rendering the patrons' accounts is forward, and though more figuring is required, yet, if the same care and accuracy is shown, there is no more liability of making a a
than under the old method.
Find the amount of milk supplied by each patron
for the week and multiply this by by the earcentage of butterfat, as shown by his weelly test, when the total butterffat supplied by him for the week will be shown in pounds. Add together b the toetal butter-
of butterfat, and the result will be the tol fat supplied by each patron for the month, and the sum of these monthily totals will be the total butterfat received at the factory during the month. lesc cost of manoufacturing, by the monthly total of butterfat, and the result will be the price of the butteratoper pound for the mo hh, when the amo nt due his monthly total of buxterfat by the price per
For example if $A, B$ and O , three patrons pound. For example, if A, B and O, three patrons
of a cheese factory, supply 030 , 1407 and 880 pounds of a cheese factory, supply
of milk respectively for a week, and A's milk shows 3. 8 per cent. of butterfat, ${ }^{\text {B's }} 3.8$ and $\mathrm{O}^{\prime}$ 's 3.5 , A would supply $939 \times 3.6=33.804$ pounds of butterfat, B
$3.8=55.746 ;$ and $0870 \times 3.5=30.45$, and the total butter fat supplied for the week would be $33.80++55.746+$ 30.45=120 pounds. If the quantity of cheese fade dents per pound, the netr receipts, less stwo cents per
dent
pound for manufacturing , pound for manufacturing, would be $\$ 21.80$. Hence
the price of the butterfat per pound would be
 $=\$ 6.16$,
$\$ 5.55$.
The monthly total of butterfat may also be cal
culated by multiolying the monthly total of mill culated by multiplying the monthly total of mill supplied by each patron by an average of his weekly
percentages of butterfat. For instance, if the week p percentages of butterfat be 3.6 3.8, 3.7 and 3.8 then the average percentage for the month woul by multiplying each patron's monthly total of milk by this amount. This method saves considerable labor to the secretary, but is not so correct as making up the totals of fat weelky ${ }^{\text {However, the }}$
variation is not very great, and if the amount of milk supplied each week does not vary much, each patron
millk.
In many factories the stockholders are charged a lower rate for manufacturing than the non-stockholders, ity in ascertaining the price of the butterfat per pound to each. A very simple way to get at
this is to divide the monthly total of butterfat
and received at the factory by the monthly total
cheese manufactured, and the result will be the amount of butterfat in a pound of cheese. Then, the price of the butterfat per pound to stock holders
and non-stockholders respectively may easily be and non-stock dididis the net price of cheese per pound, less cost of manufacturing in each case, by
the pounds of butterfat in a pound of cheese. For the pounds of butterfat in a pound of cheese. Fo,
example, if the stockholders are charged one and example, if te per puond for manufacturing cheese,
a-half cents
and the nonstockholders two cents, and if the and the non-stockholders two cents, and in the
monthly total of butterfat received be 2,031 pound
mad and the monthly total of cheese made be bu, pounds, then the pounds ore $2031 \div 5672=, 308$; if ten and $a$-hal cents per pound be the wholesale price of the cheese then the net price of chese to stockholders wout
be $10.5-1.5=9$.., and their butterfat would be worth $9 \div .308=22=$ evc..perpound, and the net price of cheese
to non-stockholders would be $10.5-2=8.5 \mathrm{c}$., and their butterfat would be worth $8.5 \div .308=21$. Anc. By adopting some method of calculations acounts may be
given, the rendering of patrons' given, without any great difficulty, and if the secre-
madiees are fairly well versed in flgures, and are at all taries are fairly well versed in figures, and are ata accurate, each patron may rely on getting jus
value for the milk supplied by him to his cheese factory. Both cheesemakers and secretaires alre
urged homer in their endeavors to make the test and to make up the books in the most accurate way, so that no patroun ae against this new method of paying for
givik because of errors and mistakes on the part of milk because of err.
those operating it.

The season of the year has come around when dairy cows should have extra care, if they are todo their best for their owners during the coming months. Unless cows are brought out in good condition and prepared beforehand for a good summer's work,
they cannot give the same returns as if they had they cannot give the same returns as if they had
started in proper condition.

FIRST PRIZE ESSAY.
The Best and Most Profitable Succulent Food for Stock in Winter in Manitoba and the Northwest.
by D. F. witson, brandon.
That to the farmer who keeps stock a supply of succulent food is invaluable in economic feeding any one who has once tried it will admit ; but in considering what is the most profitable crop to grow production and the feeding value of the crop when grown.
In Manitoba and the Northwest, where such large areas of wheat are grown, and summer fallowing practised to such an extent in order to keep down weeds, there is probably no choaper way of producing foots dhan bere porm on which Which in the great wheat-growing districts it consti and in the great wheal-grocreg It is a great pity that these large fields should remain idle, yieldin no profit, when they might produce succulent food in abundance for all the stock on ordinary farms. In order to do this the summerfallow should be plowed immediately after seeding, and harrowed the day it is plowed, in order to start the weed seeds to grow. As soon as the weeds begin to sinow harrow again, and repeat the harrowing till no more weeds appear; then sow the fill broadcast with tarnip seed, hot in an be pulled and stored for winter use, and the rest pastured by the stock In some parts of the country where there is comparatively little land under cultivation and large numbers of cattle kept, it may be necessary to grow them in rows and cultivate them in the regular way, but where there are large summerfallows this would be a waste of time.
A succulent food, which it is always well to have a supply of for the horses, is the carrot, but as this needs to be sown early, it
will not do on the fallow,
The mangel is fine for milch cows, but requires rich and well-prepared soil. When we look for the cheapest succulent food, we find it in the turnip, for t can be grown at a small cost of labor and yielas heavily. It is true that co sweue is mids, which is the constituent of most importance,to 1.1 per cent. in the turnip, but this advantage in the sweders anore than counterbalanced by the increased yilans the turnip, and also by its quicker growth, which aniows of it being sown comparatively lave, wich is of reab inporine mof turnips may be grown in dry seasher all other will amount to nothing; this when ald advantage in favor of the turnip. In growing a succulent crop the first point to be aimed at is a large amount of succulence, and if the turnip is deficient in nutriment, it can be made up for by feeding a small quantity of oat-chop, rather thap by growing a smailer quantity of succulent feed at a greater cost and at more risk: Oats contain nearly thirteen per cent. of albuminoias, so that a very smail quantity will make up the dirence in hrese elements between the hering qualitios and The tur pended on in the spring, which is a time that they are much needed. To supply this want, the first part of the summerfallow plowed may be
sown with swedes before the rest of it is ready for sowing
The harvesting of roots sown broadcast on a sum-
merfallow is not as easily managed as when they are grown in rows for then they can be topey broadcasted they must be pulled by hand, topped, and thrown into heaps, or pulled and thrown
directly into a wagon and topped before putting into directly intoa
the root cellar
As to varieties, I have grown the White Globe being more satisfactory than the yellow-fleshed varieties. In swedes, the We
have both done well with me
But while we may talk about roots, I believe the But whing sulent winter feed is corn. After seeing the crop of North Dakota corn, which was grown at the Brandon Experimental avably impressed with
silos one could not but be favorable silos, one couln nood eight feet high, and had great long cobs well glazed. No other crep could produce farmers want is some sort of a cheap silo, and it would soon be largely grown. That a silo that will answer the purpose can be made very cheaply 1 am convincea, and hope before lont in favor of corn is that dry weather and dry soils suit it, and farmer
may depend on a crop of it when all other feeds fail.

## SECOND PRIZE ESSAY.

The Best and Most Profitable Succulent Food for Stock in Winter in Manitoba and N. W.T.
By r. A. Mr'Lennan, minnieka, man.
Fodder corn made into ensilage I think undoubtedly the best and most profitable succulent food that can be grown in Manitoha and N. W.T. To show this, we will deal in detail with its procuction. The cost of preparing the ground is noed more acre will cost less and sowing no more than any other crop. The cultivation of the crop while growing will cost less than any root crop; growing yield per acre will average from five to ten times more than any other crop, and the cost of storing the crop will cost less per ton. Reason would conclude that it may be grown here successfully, and experience supports that conclusion.
If all of these statements are facts, it must be clear to all that as it costs less per acre to produce it, while the yield is so much more per acre, and ther crop, itmust be clear to all, I say, that it is the cheapest food at our command, and one only requires to see how the stock relish it and thrive on it to be convinced of its excellent quality, if disposed to doubt.
Let us now consider, in order, the claims made for this crop. -The land should be rich and mellow, in a good state of cuitivation; and what crop does not require this? One peck of corn is sufficient to seed an acre, and should be sown in rows, from three to three and a-half feet apart, and the plants from six to nine and less nutritious for want of sunshine, being much more watery than a healthy plant, therefore ning north and south to admit as much sunshine as possible. The time of seeding should "He about May ready when you expect settled warm weather, and sow when it comes." In cold weather the plant be
comes yollow and sickly, from which it does not readily recover. Better trust to growing the crop
in. two and a-half months than to try to start in in two and
colaweather
When the crop is nicely up, no better cultivation can to ge given than harrowing with a light har row, and afterwards, at intervals of two weeks or with a two-horse cultivatore that wiil cultevate both sides of a a row at once, leaving ground level. tons of green fodder, while other crops, including tons of green fodder, while other crops, including four tons per acre.
Since the mere hauling of a crop is a very im-
portant part of the labor in storing, and since this portant part of the eharore per arre than others, , it is
crop yielas so much more per
clear that the distance that a given number of tons clear that the distance that a given number of tons
must be hauled is much less. When cut with a must be hauled is much . less. When cut with a
binder, which can be done with common varieties and then cut with a cutting box and run with car riers into the silo, the other labors incident to therefore, that the storing of this crop costs less than others.
three months of warm weather, which we usually have from June 1st to end of August. A little frost just before cutting does not damage it much,
especially if it does not get wet. Any time that especially if it grow corn, or that In have seen it
have tried to grow
grown in Manitoba, it did well, considering the have tried to grow in Manitoba, it did well, considering the
grown in
care it received, and produced a good crop oo fod der; and the test on the Experimental Farm, at
Brandon, the past year, as reported in the BARMER'S ADVOCATE, , Was, a grand surcess, The Mammoth Southern varieties for some years
were considered preferable to earlier kinds for this Were, but later experience proves those varieties
which come nearer maturity to be the best, so that the grain grown nearest us, that is at the north-
ern limit of production of mature grain, will be the best for us to sow. Some varieties can be cut
with a binder, which is quite a recommendation, with a binder, Which is quite a recommeniacion,
sudod as the North Dakoti lint.
To conclude, a ton of fodder corn ensilage can To conclude, a ton of fodder corn ensilage can
be produced, including seed, cultivation and storing,
for less than one dollar per ton, and half an acre for less than one doliar per ton, and half an acre
will produce ample for one cow for six or seven months.
We take the following from Hoard's Dairyman:-
"The mischief of it it inat Democratic and Republican farmers will blindly follow their party leaders But we in this enlightened Dominion of Canada An evidence of the success which has attended
the efforts of the Travelling Dairy, conducted in Ontrario for the past two years, is the fact that Con-
servatives and Reformers are both trying to claim servatives and Reformers are both trying to claim
the honor of having been the frrst to have proposed
this method of increasing the interest in dairy this metho
husbandry.

## Farmer's Garden.

y вовт. barclay, balmoral.
A vegetable garden, Ithink, is generally admitted to be a necessity upon the farm. A flower garden is not only an ornament, but also affords a pleasant
pastime and brightens many a spare hour ; it also has a refining influence upon all who take an interestin it. The cultivation and propagation of the beautiful in nature always tend to enlighten and
elevate the mind and feelings of the human being elevate the mind and feelings of the eitumanic will greatly add to the harmony and contentment in the family circce. I have no usie for either man or woman who tells me they cannot see any goo in
flowers, and that one only wastes time paying fowers, and that one only waskes time paying
attention to them, and I am thankful to know from experience that such people are the exception and not the rule, otherwise we would have a dull, dreary
and unviting world. What is more beautiful or meets the eye- with greater approval thain the meets the eye yow glot around the country home, with all its shades of color beaming brightly in the
sunlight? and certainly there is nothing upon this sunlight? and certainly there is nothing upon thi
earth so entrancing and more invigorating than earth so entrancing anats, and seeing them as they move on stage by stage as the season advances than plucking a pretty bouquet of fresh and fragrant than prucking apreot her owì garden, and carrying it to some sick friend who finds a greater charm in it than in anything else you cound give them, or even up in were onto and are not so fortunate as pent ap in having any place to trow them? I have known many a delicate and sick creature who has
been cheered and made happy in their affiction by been cheored and made happy in their andiction
the gitt of fow fresh pulled fowers, and in fact no have them. A great many people in the provinc and the territories are of the opinion that very few lowers will grow satisfactorily, and these fow ary only annuals, but I amirm to the contrary, and
know by practical experience that some of the best
perenial and herbacoeus varieties can be raised to perennial and herbaceous varieties cín be raised to
greater perfection, and in less time here than in greater perfection, and in less time here tian
some of the older countries. These are notably Delietra Spectablis, commeonly called Ble Bleding Heart, Pronies (five different colors), Phloxes, Geum or Scarlet Likeness (single or doubbe), LLIt
the Valley, Spirea and Delphinium. A very pleasng effect can very easily be produced by digging
deeply a plot nine to twelve feet broad around the house, about eight feet from it, and lay it off in circles and squares, or diamond figures, alternately
Plant a herbaceous or perennial in the centre Pach, to remain there for two or three years; sow or plant Mignonette, Sweet Alysum or Lobelia around the outsides as a border, and fill up each with any or all of the forlowing varieties, placing contrast and blend together, and thereby cause at the same time a neat and brilliant scene:-German Asters, Ten Week Stocks, Balsam, Petunia, Phlox
Drummondii,
Portulaca
Grandiflora
(double) Verbena Hybrida Dianthus Hedewegii, and Chinena Hysis and Pansy those should be sown in a
Cranene or in boxes in the house about last week in frame or in boxes in the house about last week in
April or very beginning of May. Also Canna, CandyAptt, Eschscholtzias, ZZinnia Elegans fl. pl. (double), Salpiglossis, Clarkias and Princess Feather; these do best when sown in the border about the second
week in May. I had a plot laid out after this and many of the plants kept blooming a long time after the first frost set in, and it was greatly admired by many of the neighbors and visitors.
course the way in which some of the houses in Man the only way for pont admit of this plan their flower plot as near the house and as far away from the hen coopecially where there is a family. However, there is one thing every farmer can do to
beautify his residence, and make it more homelike with very little trouble at almost no expense, and
that is to dig in some good, rich, loam soil along the walls of his house, and sow in it in the beginning Runner Beans, Convolvulus Major, Olimbing Nas
turtium, with mixed Sweet Peas underneath each window, and run all of them up neatly upon cords bare walls, and produce a splendid combination of A few hints as to trimming up and cultivating of place at this season of the year. you had over your plants for winter protection al at once, but take it away by degrees day after day,
as clearing it right off at one sweep will leave your plaing imprisoned so long) ofen to a scorching sun by day and spring frosts by night, which are sure
to kill them right out; hence so many grumblers who tell you that there is no use of troubling with strawberry plants in this country, as, if the ward
frosts of winter do not kill them, they will die out
in the shring I canot impess upon your readers in the spring. I cannot impress upon your readers
too strongly the necessity of hardening off the plants slowly and surely; generally spaking, it will
take a week or ten days to do this, atter which the plants will strike out with vigor and grow steadily
right along, withstanding the hot sun during day
all the covering cleaned away nlece any stray or
irregular runners closely into the rows, top dress the soil with thoroughly rotted stable manure, and not done, and any of the manure is left upon the surface, if a dry season should follow it will induce a.quicker drought and attract the dews which we
renerally
have in warm weather from plants and
 the bloom from setting into fruit. There is one thing necessary and most essential with strawberry
as with pea when it is in bloom, and that is as with pea when it is in bloom, and that is
moisture, so when the weather is dry and there are no dews of any account, I take a water ing can with a fere rose upon it and spray the flowers gently with ings, and thereby secured for myself a magnificent crop, when people around me,either through ignorance of this fact or from sheer laziness, had scarcely a berry; if there is anything required to endorse my theory and practice, hative strawberry. How many seasons have many of us seen a grand array of flowers, with the expectation of a plentiful supply of fruit, and had our hopes be, by frost, but by dry weather or a want of moisture? Now, the strawberry bed is the one above all others in the garden which must be kept clear of weeds. The only sure and best way use of the Dutch hoe between the drills; this keens the weeds from getting a start and cultivates the soil, so that the surface is kept open and allows the roots to have free breathing, whereby your plants grow more strongly and and matures with greater rapidity.
prune these last fill Currant Bushes.- If you did not lay; clean away all. rank bottom shoots, and cut back to half-a-dozen eyes the strong-growing ones
on the various stems also nip the ends off the weaker ones. If you did not supply them with
manure in the end of last manure in the en ourht to have been done, do so now by topdressing lightly withwell-rotted manure, not too closely to the bushes, and plow or dig it in, so
that it is well covered. Never on any account dig holes at the bottom of the bushes and mulch the roots with rich, juicy manure, as I have seen people
do in Ontario end the Old Country; it will not do in this climate, as it in variably causes the bushes to run to wood, which casts the berries when they ge
to be about the size of green peas. I have learned by practical experience, and it stands to reason that all plants do better in every cirimate when they have through their fibres for the food they relish Many a time I have been asked if I could explain why currants especially, and sometimes goose berries, dropped oif shorty after they were formed,
and $m y$ answer is That it is caused by to rich feeding and too little labor or exercise. We se the same thing with many a good man spoiled for want of something to do, and need I remind you or your readers that the vegetable world is very much
the same in many ways as the animal world, and in many instances requires similar treatment? Many do not believe this, and if they do they don't wish to think so, but it is the case nevertheless, and the
more one studies the subject they shall become more and med that it is an In conclusion, under this head, let me just say a word o two as to the gathering of red and white currants The strings should never be torn off, as by doing so
you iniure the eye or bud which is on the stem at you inside end of the string, and thereby destro that which ought to produce fruit for you in the fittowing season. You ought to nip every string
little way from the stem with the nails of your
Raspberries.-The easiest grown and one of the best paying fruit crops in Canada and elsewhere.
If no fall worl win once; clean out all dead and rotten canes, remove also all superfluous good ones, and leave up to
twelve or fourteen of the best in each plant for this season's fruiting: take the top ends of your canes,
bring them together with your hands tightly about eight inches from the top with the tignty about eord; this prevents any breakage by wind or by persons moving amongst them, and
facilitates the pulling of the crop. Give a good get (poultry or blood manure is the best, as this class belongs to what are termed greedy feeders); pultivate regularly, either with the Dutch hoe or cultivator: this will keep your land free from weeds
and help the growth of both canes and fruit, and at the same time disposes of all unnecessary suckers
rising between your drills. Clean away during the season (do not wait till fall, as many do) all extra shoots or young canes that will not be required be-
tween the plants, and thereby send all the strength of both land and manure into the fruit of this year and the canco been executed in the fall of last year is not yet ac complished, get at it now by pruning the black and each in line in the ground; top-dress with manure raspberries, and cut or prune any exuberant canes
and cultivat diang seaso similar to

upon by gentlemen representing the different nur-
beries in Canada and the States and 1 now take the iberty of giving them a little bit of advice, which
hope may have a salutary effect. Now, Ido not know of any nurseryman who has not what is called his leader, it may be, a specialty in a goose berry, raspobery, corranu, and their acents are in structed to push that specialty, whatever it may be,for all they are worth. Now, possibly it succeeded
well where it was raised, and might suit this climate-some of them do, and others are of no have turned out no good here. Now, farmers and amateurs, my advice to you is, not to be led away
by the fine description of the eloquent and silveryby the fine description of the eloquent and silverysources, and from your neighbors who have Eried sourem, what varieties in the different classes have
tucceded and are likely to do well, and order accordsucceded and are loukely ithall here give you the names of some varieties in the dinfere in Casiteba and the Northwest, and have given satisfaction in every
way, and will assuredly succeed with you if they way, and will assurediy succeed
Strawberries.-I notice that one of your corres
pondents would like to lead us to believe that any thing of this sort will do well, as he save says. "Where native strawberries abound the cultivated ones wil
succeed"; but we must not take everything for granted, and the same gentleman knows as well as Yranted, and
Ido that he found that quite a a number of the cul
tivated varieties did not succeed with him and some tivated varieties did not succeed with him and some
of his neighbors, although every care and the best of treatment was lavished upon thoughly hardy
is undoubtedly the best, as it is thorought a heavy cropper, carries good-sized, well-flavore Bubach is my next choice. The only drawback to those and two or three other very good ones is the fact that there.are pistilates or imperfect flowerers, and consequently require hybridising before you can
have either a good crop or perfect fruit, and to ac have either a good crop or perfect fruit, and to ac-
quire this, you ought to ogrow some perfect flower quire variety among them, such as Iron Clad, Sharpless, or Captain Jack, all of which are hardy
and stand this climate well. I and stand this climate well. I am not like some
who recommend only pistilates simply because they who recommend only pistiatess simply because they are the best, hybridise with each other. No, there is no one will ever bring me to believe that I am likely
to get a perfect by crossing two imperfects. to get a perfect by crossing two imperfects.
as well
Nigh as wo half-bored ones; and besides, we are very poorly off for hybrididising mediums in this country. I have found the surest way to take good crops
and well-shaped fruit off the pistilates is to plant and well-shaped fruit off the pistilates is to plan
a perfect flowerer or non-pistilate every third plant in the rows, and reversing the order in each row; this gives, extra opportunities for the polling to b
carried along and across your strawberry plot. Gooseberries. - Houghton is by far the hardiest,
and has braved the winters and springs best. It and has braved the winters and springs best. It
crops well, but the berry is small. Downing comes next, and, although it is not hard, it has a larger
fruit, and I have seen it do well in a number of fruit, and $I$ have seen it do well in a number of places, and is perfectly safe where it it aftorded a and well-flavored variety, but can only be grown satisfactorily when well sheltered.
Currants.-Fay's Prolific (red) is a long way
superior to any of its class-mates, as it is hardy, a superior to any of its class-mates, as $t$ is inardy which carry well, and, not like most varieties, does not run to wood. It is well worth the difference in price, as in fact it is cut out entirely for Manitoba useful and thoroughly hardy sorts, but require to be wel pruning atter and judiciously manipulated with $G$ Grape is the only one I can conscientiously, recomBedford hits the nail on the head when he advises Lee's Prolific and Naples as the two best blacks.
Raspberries.-If farmers are wise they will leave Turner alone, as it is only once removed from the native or wid raspberry , with if anything, is worse for spreading ; in
berry fact, I have seen it overrun some gardens worse Marlborough and Philadelphia are all. Cuthbert, Mariborotively hardy and have done well in many comparatively hardy and have done we certain of a
localities. Of course, if you wish to be certan good crop, the best way with any of them is tolay
them down every fall and raise them in the spring. Black Caps.-Hilborn and Early Ohio are both hardy varieties, and have succeeded well in many
places, but of the two I prefer the latter. I would say, have nothing to do with Gregz; it is the finest
herry, but altogether too delicate for this northern district.
We have been informed that the English Shrop-


Put a few odd moments on the lawn. Why is it
that, with every advantage, there are so few lawns in the country as compared with the cities? It may be that time will not permit of a thorough prepara-
tion of the ground, but at least a few sods can be put in places where the grass is lacking, a
brush and limbs can be cut out and burned.

## Poultiry on the Farm.

by irrs. ida e. tilson, west salem, wis. I have found an easy and efficient way of clean ing my chicks milk dishes, by just soaking the as well as preaching or an actual programme, used as well ar the frach four critical days for my broods,
during the
hatched A pril 5 , may also interest and profit. It hatched April b, may also interest and profit. It
was, as usual, regulated somewhat by my own conwenience, yet very well bomends different kinds and
vefiects of food and secured perfectly thrifty chicks. FIRST DAY.
First meal, bread and milk; second meal, Dutch heese; third, dry bread crumbs ; fourth, oatmea

## table.

1. Some of the pudding prepared for my hens,
corn barley, seasoned with bean soup. ${ }^{\text {2. }}$. Dutch cheose . Bread and milk and wheat.
2. Dutch cheese. 2. Raw egg, thickened with
3. Mush from our table. 4. Boiled egg crumbs. 3. Mush from our tatie.
and bread crumbs chopped together.
4. . Boiled egg
Bread and nilk bread crum
fourth Dav
5. Baked beans from our table. 2. Oatmeal and chopped raw onion, 3. Oatmeal. 4. Bread and
milk and wheat. 5 . Boiled egg and fried potatoes. The fifth day their pudang was seasoned wit coal and lard scraps. More pudding and meat, and less bread then became the order of the day. A mill does not grind when the wheel is still, nor a cannot digest nor grow unless it exercises, runs and stretches. Neither is there much of a product unless the hopper holds plump grain and the shuttle carries a strong thread. soing power, and a chick must early be supplied with gravel, bone meal, oat-
meal and wheat.
When cracked grain is unobtainmeal and wheat. When cracked grain is unobtain-
able, small, shrunken kernels, not musty, can be able, small, shrunken kernels, not musty, can first is that prepared for table use. Soon there is given the coarse, domestic kind, ground for stock
by our local mill.' Oatmeal may be called expenive but expense
foundations.
I am, this
some lath coop-pens.. They are made the lencth of the lath, and as wide as my coop, thus inclosing several feet of ground $M y$ coops are nearly an "A." coop, an "A" shaped pen, with two slanting sides meeting at top. Placed in front of their coop
the first day or two after chicks arrive, the latter can sun without being "stepped on" by every concan sun without teing stepped My chief every cow-
ceited old fowl that passes. My ever, is in rear of coop, over hand so she can get
which is then opened into this pen, so sunshine, air, grass, dust and , without dragging
train and plainly see her babies, wion them all over the country before strong enough. Place some boards against or on this pen, and even
windy rainy weather cannot spoil biddy's plans and exercise. Each morning, previous to opening, move the coop with ite pen to "green fiefds and pastures new, Not only young broods and dewy mornings someth roam at liberty, but a tempting berry bed may lie near. I remember a gardener's wife, whose husband's business, of course, often precluded her mother hens from funming abroad neck feathers all wore off by continually trying to get out and rubbing on their prison barrs. what a merciful provision such a yard would have been.
Placed among grape vines and in favorable spots, Placed among grape vines and in favorable spots
biddy could have done much useful cultivation and doubtless caught many bugs, her vigorous scratch ing propensities, like a person's strong will or high
spirit directed and controlled, thus proving a benefit to society as well as to herself
1 sometimes think people make "tramps" of their chave often by neglect in proviaing variety, and bined food and digester, are not more often grown for poultry. Especially should such oily froors be provided whenever there is any ack of fats cannot grind like gravel, they soften the food, send it along, preventing crop-bound and
other clogged conditions. Last year press of other other coge car sunflower plantings very late, but
work made our they grew faster and larger than ever before. Sun flowers do, indeed, germinate quickly, they accept
poor soil and need less cultivation than corn does poor soil and neys save my own seed of our common black variety. The Russian kind is prolific, but often blights; its seeds have less oil and seem rathe
barge and clumsy for fowls to swallow. ${ }^{\text {Doura, or }}$ large and clumsy for fowls to swallow its seedsa, are Egyptian corn, is a sturdy plant, and The English
wonderfully relished by chickens. The sparrow is our great nuisance and hindrance in
raising all such things, but perhaps he has not
nut monopolized the whrom his ravages yet. Broom
localities mav be free from corn and sugar cane seeds darken the flesh of fowls, but are all right for present and prospective layers
Poultry are of the bird family, and their natura home is among trees and bushes, which they seek for shade When hot, as shelter from wind, as
security against hawks, and for general protection.

Low bushes, like currants or the sprouts which
grow up around stumps, are especially favored by my hens. In a new or treeless country sunflowers patch, the hens' very own, is another example of covert and food combined. Such ears as the hens cannot reach, bend down for them. They show
their sense by liking corn at the same stage people do. Every year 1 learn new thing and do better by
ny poultry, because the business has proved both scientific and profitahe.e. 1 had, last September, an even hundred fowls, and in the eight months since
have lost but four, two by aceidents, two by sickness, a remarkabbe record, It think, of health, happiness and productiveness during so long and cold a
winter. Reaumur, the French philosopher, a pioneer poulterer, thought aiding the growth of surpassing in dignity the handling of lifeless machines and products.

Convenient Chicken Coops.
The size of the coop may vary according to the breed the act large or small. A good size is $22 \times 26$ inches upon the
bottom, 22 inches high in front and 19 inches in the

rear. The coop rests upon two pieces of $2 \times 4$ nailed upon the bottom. This prevents a damp floor. The hinges and handles are home-made, of leather nailed on.
The coop-pen has two sides, a top and one end,
and is made of lath, properly braced. The otherend and is made of lath, properly braced. The other end
is formed by the coop, and its bottom is the pround The lath are put on थt inches apart. This gives the
hen and chicks exercise when not practicable for hen and chicks exercise when not practicable for
them to run abroad. A sliding lath in the top per-

nits the attendant to reach in with food and to open or shut door without moving the pen.

## Tuberculosis.

"What causes bovine tuberculosis?" asked a
rrespondent of the "Rural New Yorker" of Dr. corresponden or the Rural New Yorker a ow ord inbreeding. At the offspring, and the longer it continued the more apparent becomes the wealness. There are two peramanent varieties of the
domestic breeds of the bovine tribe one the large domestic breads of the bovine tribe, one the large
and the other the small form. To the latter be and the oner noted distinctively dairy breedse and
long the most noter
to preserve their dairy qualities they have been to preserve their dairy qualities they have been
closely inbred. The result is that they are nearly colosely inbred. The result is that they are nearly
all scrofulous and tuberculose. FTom the large
FTom
the variety come the thalforchooseds. From the large breds of each are formed by, greater or less in-
fusions of blood from the opposite variety fusions of blood from the opposite variety. Among,
half-breeds the one most closely inbred is the Short. horn, and this is the most tuberculcse. The disease develops less frequently among the beef than among the dairy breeds, because the former are
generally killed while voung, and are not subjected generally killed while young, and are not subjected
to the extra strain of giving mill. Too early fecundation is also given as another cause of tuberculosis" "Are any breeds of cattle more subject to the disease than others, and why?" "From the answer to the previous question it win be seen tha
the more closely a a ystem of inhreeding is pursued and the longer it is continued, the more likely other conditions being equal, is the strasin or breed to be subject to tuberculosis. The beef breed
which has been most closely inbred and which is also most tuberculose has been nained. The dairy breeds shich have been most closely inbred are the
natives of the Channel Islands. An official of the natives of the Channel Islands. An official of the Bureau or Animal Industry says that 20 per cent.
of the thoroughbred Jerseys of the Northern States are affected with tuberculosis. The inbreeding to
which this breed, as well as the other Channel Which this breed, as well as the other Channel rsland breeds, has been subjected yor many gene vields, have contributed to this result. These are the facts; are the deductions reasonable? Prope housing and care, avoidance of too early breeding
and too long continued milking, and general sani tary precautions, will prevent the development of the disease. No.

Dairy Products for Worid's Fair
Persons desirous of making exhibits of butter
Pereese in the Canadian section at the World and cheeses in the Canadian section at the World's
Fair, should at once write Prof. Jas. W. R. Robert son, Dairy Commissioner, Ot tawa, for entry forms










 ono child , Be
squalo rend
afew yeras.
afow years.





 tresn sment of his own thwarted will, switch
birch stiok over her broad
gitish shoulders.
But her untamable sirititalways looked out at him from






 many years red she thoat git ind hers over them was












 upon new whit linen and diuess, her spectacles over her gentle
with nervous, trembling finger
exe

 Still, now and
and they always kept t nervous watcon upon the door, lest their






















THE QUIET HOUR
To Myself.
Let nothing make thee sad or fretful,
Or too regretful)

Why shonld'st thou fll today with sorro


## 



## Blending Atmospheres

(trom "As it is in Heaven," by Lucy Larcom.).
Looking out upon the landscape from the upper slopes of a high mountain you canmot help seeing
how tha earth and the sky are always trying to how the earth and the sky are always trying to
blend with each other. They are like lovers who
The hreath of the valleys cannot stay apart. The breath of the valle the ascends mountain ranges, and gradually, shapes
highest mound
itself into clouds, or it lies in long, clinging bands itself into clouds, or it lies in long, clinging bands
about their bases, and makes their summits appear about their bases, and make
like islands in an ethereal sea ; and the sunset tints the clouds above and the mists below with one loveliness of color, and the wind weaves them together so delicately that you cannot te the horizon
is mist and which is cloud. The lines of gradually vanish; river and valley and mountain gnd mist intermingle and are fused in a glory
aehind and above them all, and greater than their own. A mountain sunset is like the marriage of
the the new earth, the bride "descending out of heaven from God, having the glory of Goa And when it all fades away and the stars come ou or nepurps to the inflite is intensifed. In hue loneliness of night on the mountain-top we
the
comprend something of our relationship to those comprehend something of our relationship tour own
heavenly spheres; we are at home on heavenly spheres; we are at home on our own
star, moving beside these radiant neighbors of ours through illimitable space. The planets, which give to our evening sky its
chief splendor; are but illuminated earth, of the same material as our own; as they shine for us, so we shine for them. We are one body and soul with chem. The ether that throbs between seems particle of this solid world thus becomes luminous ? every pebble that we heedlessly tread upon is The soul of the star is its light that flows through it from some unguessed legond love; and love cannot be without a Being who loves. God is at canct
the heart of all beings and of all things, seeking, to
with each other, the unity bring them into unity with each other, the unity
of His love and peace. Nature and humanity are of His iove and peafe. to be put asuriden
Since we, too, can love, we know that we are of God in some more vital way than rocks or trees, or
than our own bodies. But Love has no contempts. than our own bodies. But Love has no contempts the
She sees all things in God, and she feels the She sees all things in God, and she feels the
throbbing of her own heart, the Life of God in her
lif life, beating back to her throug
esteemed the meanest of His works.
And Love continually hears a sound as of human And Lovecond and entreaty coming up to her from
expostulation and ented and neglected wastes, which, to other
tangle ears, are buried in savage silence. The earthly palpitates with a dim consciousness of tils heaventy
affinities and possibilities, which will sometime aft realized.
The mute eloquence of Nature around us is often most pathetic-the beauty that is everywhere
taking crude shapes, trying to find expression. taking crude shapes. trying to find expression.
Sometimes this pathos is made audible to us
through sweet half-developed voices. Waters through sweet, half-developed voices. Waters
murnur, winds whisper and moan, grass and murmur, winds whisper and moan, grass and
hlossom and leafy bough sigh back to each other, like children who cannot tell what they want. The dumb rock tries to write out its messages with
hieroglyphic lichens.
Sea-moss and fern conceal Mystical secrets beneath their spreading frouds. The lowest forms of matters overf the lake and
nificance. Even the slimy ooze of the nicale black coal in the mine hold an essence of
theritt within them which nurses the white life of
pole
 Nothing is so dead that some unattainable perfection above itself. The
silence of Nature is an unuttered prayer for release for reunion with her source.
For Nature is not yetreleased from bondage, nor can she be while we permit ourselves to be bond-
siaves to her. We, whose birthright is the liberty of the children of God, desire a King for ourselves our servant, binding ourselves down beneath her and with her in tunatural fetters, and so turning
her palaces into dungeons. Nowder that the
herole creation groans, being burdened.

## MINNIE MAY'S DEPARTMENT.

## My Dear Nieges:-

For the past ten months that dread scourge, cholera, has been kept from our doors by vigilance of the strictest sort, and aid the higher duty of every housefoeps to prevent it invading authorities in their eiforts our healthy and happy Dominion. As it is one of our healthy and happy the epidemics generated by filth, our own homes should undergo a thorough cleansing and purifying inside and outside. Our wells of drinking water should be emptied and cleaned, and the ground surrounding them kept free from any matter that might contaminate the water. Ducks and fowls should not be allowed to dabble near them, nor cattle watered just in the vicinity ; the slop-hole, or spot where dish-water an sur have been poured, shoula be avown with grass seed; the fress earth and sowned around fruit trees and growing plants, where the sun will quickly dispel growing plast the roots of the plant does not absorb. Cellars should be cleaned of all vegetable matter and lime washed; fresh lime should be placed in all dark and damp corners, and the windows left open to ensure as much fresh air and sunlight as possible. Sinks should be scalded with boiling lye often, as wood ashes are plentiful in all farmers' homes, or sulphate of copper, or copperas, should be poured down them tor if there is nothing else to be had. Now a word as regards the care of else to be had. Now a word as regards the care of
the outer and inner man. Serve no raw fruit unsound or unripe. See that your breal and buttor are sweet and serve only good wholesome food,
and do not forget a covered pailful of boiled and do not forget a covered pailful of boiled water for the refreshment of the toilers. in the
harvest fields, instead of the draughts of water harvest
from the brook. Be particular to cook all cereals,
Buth such as oatimeal, cornmeal, rice and such like, as
well as vegetables, well and thoroughly. Avoid well as vegetables, well and thoroughly, Avoid
vinegar as an article of diet. Keep the person clean by frequent hot baths, with plenty of soap. Take extra care that you do not get a chill by sitting in
Keep the feet dry, and avoid the dew or rain. Keep the feet dry, and avoid
stimulats such as beer, wine or spirits, and do not stimulats such as beer, wine or spirits, and do not
overeat. These are only a few of the precautions that we can apply as our share of the prevention of the cholera, which always brings such terror in its
MINNIE MAY.
The advantages country girls have over city The advantages country
girls are many and great.
The country
The cor cirl has girls are many and great.
pure air, exercise and goo food, the essential
giter elements to constitute a foundation for the wear
and tear of life. The country girl's first lessons and tear of life. The country girl's first lessons
are from nature and develop the faculties.
Her educational advantages are not so great, but good literature is within the reach of everyone, and as a rule country girls are as well posted on current
events as any city girl. She has far more time to events as any cultes, and not so many temptations to draw her from the nobler purposes of life.

## How to Clean Dresses.

* Get five cents worth soapbark from the druggist and steep in about one quart of boiling water for and steep in about one quart of boiling water for
about half an hour or more, then strain through a
cloth cloth.
For a silk dress, while the liquid is warm, take a
and piece of white llannet and
and rub the silk or satin with it till it seems cleansed. When done, pull the material straight and hang it todry. Do not iron either the silk or satin. If the dress is very much soiled, use clean liquid to rinse
it, but do not use clear water for silk, or it will not stiffen up well.
For a wollen dress, dip the part to be cleansed,
or the whole of it if needed, into the liquor. This or the whole of it if needed, into the liquor. This
can be rinsed in the same after washing or in clean can be rinsed in the same ater wash inty put the dress to soak
warm water. If very dirty, put warm water.
in tue liquor writh more water added be-
fore cleansing or washing. The woolen goods should fore cleansing or wathing. The woolen goods should
be pressed until it is quite dry be pressed until it is quite dry.
Water. in which potatoes have been boiled will cleanse delicate-colored woolen or worsted good.
The dress should be wet all over. Use no soap. The dress should be wet all over. Use no soap.
Rinse in clear, warm water. Press while stil Rinse in clear, warm water. Press while still
damp. This will not injure the most delieate colors. Mrs. Snooper-"That is a queer name the cook has for her beau."

Mr
Mr . S .- -"He's a polioeman, I suppose
Mrs. S.- "He's a poligeman, I suppose," what has that to do with it?" Monsignor Capel was asked what struck him
most forcibly in America, and he replied, " The precociousness of children,",
He says that while in Baltimore the Archbishop He says that while in Baltimore the Archbishop
asked him to call on a laly. While making the
visit a boy, aged four years, came into the room and asked him to call
visit a boy, aged fo
his mother said:
"My son, speak to the ehishop"
He obeyed readily, and holding out his hand,
"How do, Arch?"

Pawnbroker's Three Balls. This sign was taken from that of the Italian first to open loan shops in England. The greatest of the Lombards were the celebrated and princely house of the Medici of Florence. They loved gilded pirgin from which they derived the name of Medici. Whence their agents in England and other countries placed their armorial bea.
th eir.door, and others adopted their sign.

## ambiguous.

She-How was your speech at the club received He-When sat down they said it was the best hing I ever did.-Life.
MEANT ALL RIGHT.

The Rev. Silas Sophtey-Ah, Thomas, that man horse, but I'm not such a fool as I look, sh? Thomas (the groom)-Noa, sir, that ye're not.
Thomas-Beg pardon, sir, I mean, ye're hadn't need to be.-Punch.

going II


GONEIII


CONTRADICTION
Englishman-"What will ye take?" Frenchman-"I vill take a drop of contradic-
Fon ou mean?") Frenchman-" Vell, you put in ze whiskey to
make it strong, ze water to make it weak, ze lemon make it strong, ze water ze sugar to make it sweet.
to make it sur and ${ }^{\text {Do }}$ Den yay t, say, 'Here's to you!' and you take it Den yout, ${ }^{\text {s. }}$
yourself!
Lawyer (to Irishman recently injured in a railwar damages?" Why Mr. O'Shaughnessy (indignantly) " Damages,
indade! An' haint I had enough of thim enindade! An' hain't had enoug or the
toirely? It's the Tepairs I'd he afther now,"
Mèmber of Committee at Church Fair-"How Much have we taken in to-night?" least!"", Metander (mournfully)-" And all the people."
Bystander (mournfully)-"And all the people.
A. Few Remarks on Cooking.

$$
\text { by } \text { ELossie graham. }
$$ It may not be considered out of place to make a

few remakks on the art, as also on the principlese of
cookery for nearly all will acknowledge that cookcookery, for nearly all will acknowledge that cooking is not only an art but a science as well, To
know how to cook economically is an art. Making monev is an art. Saving money is an art. Now, money is an art. Saving money is an art. Now
there may be a lot of money made and lost in kitchen. Does not many a hard workingman have
his substance wasted in the kitchen? Does not his substance wasted in the kitchen? Does not many a shiftless man have his substance saved in
the kitchen? A careless cook can waste as much as a man can earn, which might as well be saved. It is not what we earn as much as what we save that makes us well off. A long and happy life is the re
ward of obedience to nature's laws; and to be inde pendent of want is not to want what we do no need. Prodigality and idileness constitute a crime against humanity, but frugality and industry; com-
bined with morail vitue andintollizence, will insure individul happiness and national prosperic Economy is an institute of nature, and enforced by Bible precept: "Gather up the fragments, that
nothing be lost." Saving is a more diffeclt ant than nothing be lost." Saving is a more dimincuit art thad. dings where others only, put in cents. The cent
dishes are the most healthy. Almost any woman dishes are the most heatuhy. Atmost any woman can cook well ies she have plenty with which to do
it. But the real science of cooking is to be able to cook a good meal or dish with but little out of which to make it. As to the principles of cooking, we must remember that water cannot be made more than boiling hot-no matter how much we hasten potatoes, etc., one moment. A brisk boil is suft
ficent, when meat is to be boiled for eating ; put it flcent, when meat is to be boiled for eating; put it
into boiling water at the beginning-by doing so its into boiling water at the oegioning- inices are preserved. But if you wish to extract the juices are preserve.
juices for soip or broth put the meatin emall pieces into cold water and let it simmer slowly. The same principle holds good in baking; also make the oven
the right heat and give it time to bake througb, is the right heat and give ittmpt to hurry it we only
the true plan. If we ate the true instead of cooking it done.

It you attompt thi bolling to hurry,
But wood
Butinatitumpting the haking to hurry
But in attompt ing the haking to hurry

## Recipes.

dalves' liver.
Have cut from a very fresh calfs liver as many slices as you will require, have them very thin; when ready to use cover them wien thickly with flour, then
stand flve minutes, dredge dust with sait and pepper, when hot put in the liver with three or four pieces of very thin bacon, brown on one side, then turn and brown on the other; ;add two tablespoonnus of stoek, coverthe disinana ainow from dish. BAKED CUSTARD.
Beat four eggs without separating, add four tablespoonfuls of sugar, then gradualy one quart
of milk ; stir until the sugar is dissolved; turn into a baking pan, sprinkle a littte grated nutmeg over
a bat or
the top, stand this in a pan of water and bake in a the operate oven until youcan plurge a spoon handle The watery, spongy condition comes from its being overbaked, conssequently it is wiseto try frequently.
At first the spoon handle will come out milly, but just as soon as it comes out clean take it from the oven. There
underbaking.
empress pudina
Boil a cup of rice in milk until it is very soft, then add two tablespoonfuls of butter, and boil eggs and stir in when the rice is moderately cool Line a dish with puff paste, and then put in first a layer of rice then a layer of jam or fruit, then
another layer of rice until the dish is full. Bake in anooderate oven about three-quarters of an hour.
a mor
Server a moderate oven
Serve ietiter hot
custard over it.

## Fashion Notes.

The long Empire coat is fashionable for walking or ar a dust cloak.
A novel circular cape has a cluster of plaits laid in its back, and a deep-pointed collar.
The favorite travelling dresses will be of silk, for many going to the Exposition will take no
lugsage to avoid troube, and an uncrushable sill will be light, cool and stylish.
Waists continue to be lavishly tr.mmed. Lace is a favorite, but gorgeous passementerie of gold,
silver, beads and silk are all used. Sleeves are silver, beads and silk ste
shown in a score of styles-all large-some large only to the elbow.
The styles of bonnets are bewildering, from the dainty straw to the flimsy lace, gorgeous with
flowers, Alsatian bows, ribbons of all widths and flowers, Alsatian bows, ribsons gimps. There are for all sorts and fancy gimps. There are styles or ale an.
shapes of faces, cheap; middling and dear.
The blouse holds its own as as useful, becoming and cheap garment, and they are made from the They are useful to wear out a skirt, the bodice of which is n̨o longer passable.

UNCLE TOM'S DEPARTMENT

## Opportunity

 hol liked me catise ohe from, all the others brothers, alway meant to spate, but, my god gracious




 The fatuest pancake couldn't have fort tha


 And smomining seomed to actoh me wop and shake me



 ${ }_{c}^{\text {Mrithe }}$

$\qquad$


Oh, glorious colors the oloud sare turning;



The day grow hot and hor handsgro Outwith toiburbs aod the wind ob oheeryr


They do not know that the soul within her
Hungers for beaut
and
things sublime


Till the time for supper and chores draws nig




The above poem by Ella Wheeler Wilcox gives
ithful picture of many a farmer's wife. She is a faithful picture of many a farmer's wife. She is worked to death. "Overwork, says country." Perhaps! But I never saw any sense, much less any glory in the overwork which is not absolutely necessary, which robs ine of ho could
pleasure for the benefit (?) of those who dispense with the sacrifice. Overwork shuts us out from the beauties of nature, swallows the time we should have for physical rest ane mensement, till the temper is soured, the constitution shattered, our enjoyment of life gone,
"Hurry is fatal," says Ouida (MIle. de le Ramee); There is an illustration of this in our neighbor hood. A certain man and wife, well-off, but not in comfortable circumstances, are pinching, toiling
early and late, to lay up somethin' for the young early and late, to lay up someng, yet he works out
uns'. The husband is not strong, in ail weathers to save the expense of hired help.
The wife cooks, washes, makes and mends for a The wife cooks, washes, makes and mends
young family, attends to a lot of cows and manages a garden. There is no time to rest; no time for mental improvement. Such creatures are not
so much men and women as money-making machines. In direct contrast to this sort of of
existence, is the life of another country woman existence, is the life of another country woman,
poorer but wiser. She has taken a girl from the Orphans' Home, agreeing to give her board and clothes and a common school education. The girl is getting a training that will enable her to manage
a house of her own some day, while the mistress has time to read, to study, to visit and entertain, to play the piano, to dress neatly, and to carefully
train her children, to teach and exemplify the truth that "a man's life consisteth not in the
abundance of the things he possesseth." Which is the better life?

## Puzzites.

Httle bitite of ofotry, Hitile bitite of vim,
fake the pozerr corner lok so neat and trim. Little bits of nonsense, turned into rhyme
Give us all the jim jams, rResp, it max, ${ }^{\text {in }}$ time. Little bits of leisure, taken upthis way. Thst and join our army, 'neath the fag of Dư, 2-Charade.
My ${ }^{\text {rirgrs a }}$ a state of equality is Tabe my Friss with buisin
Would be a simple bliss.
My sicovn youll fnd in Pakenham, A Antin in music my thruex is, My whow is considered nofful; Though used morf for the latter,
Can be two in one-together.
oht where, oh $t$ where, is my namesaike gone? He prime our "Dom" dido once appear,
THirp fear this whoore boy is lost,

Say, Henry, my Last, if doad you're not yet, Do not trom the "Dom" remain awa

## Yes, this is a puyzale tho' easy it is

But others, indeed, may it need to "quiz,
MYromeaning irtom it they in impart. you will see
When you at the solution arrive.
 Conglite ram what we ehould alway


5-Riodi,

 "An old saynion or my next now take, And treasure it ap for memorys sik
MJT thirr trien AToan from the ark

 $\qquad$


 Shows he fy worthy of a
of a very high degree
But then there wore other good puzzles,
 But now, I think, my rhyming I will close
And make a bow to our great Toon Al.


 In the thickest of the frryy;
Ho what shat
This pat patriotict son than ran $n$ away. ,



## Imploascd you've come back cousin Charlie


Your puzzles, ind eod, were all so good.

Non tomember we were work .and


Wuch a noble ded ought not esceal)
The notice of KIIRST kinlus.
Tid broupht vous spels up on deck,
Where now you musi remain.
With Ther Tom, our captait, who

## 

ext month our ". "group. "will be produced
And 1 hope your portrait will appear.

##  <br> prii Puzalie <br> 

Names of Those Whe Have Sent Correct Answers to April I5th Puzzles.
 Mary M
Rogers.

The Shadow on the Moon
As I was talking one evening with a bright, intelligett boy of fifteen about some or thed me greatly by an astronomical subjects, he surprised me greathy by a
uuestion that he asked. My surprise arose from the act that I knew the boy to be a good student, who stood well in his classes, and that he should be gnorant of so simple a thing as that anout which
Since then, however, I have found that there is a general misapprehension of the subject, not only among boys and girls, but among grown people,
and it is the purpose of this short article to give a nnd it is the purpose of
simpte explanation of the question asked by my young friend: We eare told that one proof of the earth's spheri"al form is the round shadow that it throws upon of the shadow is straight, and when it is threeguarters 'full' the edge of the shadow is concave. ow, why is the cenc" The boy thought, as you see, that the moon's phases are caused by the interposition of the earth's shadow. A little reflection will show you that this is simply impossible. Let me see if I cannot demental picture of it. we will say, on a big ball out You are standing, we will say, on a big ball out
yonder is another big ball in space. Away off yonder is another big the gowing
glowing with light. Between you and the gis. ball is a smanler but non-1uminous side. that is to ward you is dark and of course you cannot see it. That is the phase caned the new moon. The ball is the sun, and the dark ball between you and the sun is the moon. The other side of the moon, the side toward the sun, is bright, for the sun is shining on it. Ah line with each other
In a few days, the moon, which is perpetually cevolving around the earth from west to east moves above the straight line high enough for you
to catch the first glimpse of its illuminated side, to catch the first a thin orescent. Every day it
and you see at as a
moveshinher, and you see more and more of its moves highe
bright side
When it reaches a point directly overhead you
see one-half of that side, which is one-fourth of the sphere, and when it begins to go down on the other shere, the earth from the sun, the bright part be When it gets down far enough on the side of the earth away from the sun to be in a line with those earth bodies, you see all of its illuminated side, and then it is "ful" moon.
As it continues in its course around the earth, the
same phases are passed through, but in reverse same
order It is very plain, then, that the shadow of the
earth does not cause the moan's phases Sometimes however,the moon, in its mohthly revolution, moves howeve, plane as the earth's orbit and gets into its shadow. Then we have a lunar eclipse. At n other time does the earth's shadow touch the moon To make this still plainer, let me remind you must necessarily he thrown out into space toward the east. But the crescent moon is seen in the west, you know-how, then, could it, be caused by a shadow that is away ofrt in the east, on the
side of the earth?--W orthington's Magazine.

## Good Night.

There is a tender sweetness about some of our conmon phrases of affectionate greeting, simple
and unobstrusive as they are, which falls like dew upon the heart. Good night! The little one lisps
it as, gowned in white, with shinin face and hands it as, gowned in white, with seining taceand Sisters
and prayers said, she toddles off to bed. and brothers exchange the wish: parents and children ; friends and friends. Familiar use has robbed it of its significance to some of us; we repeat it
automatically without much thought. But consider. We are as voyacers, putting off from time sider. We are as voyagers, putting ou barks of life set sail and go onward into the darkness; and
we, asleep on our pillows, take no such care as we we, asleep on our pillows, take no such care as we
do when awake and journeying by daylight. Of the perils of the night, whatever they may be, we take no heed. An unsleeping vigiance watches over ris, out it is the vigilance or one stronger and
wiser than we who is the Eternal Good. Good and God spring from the same root, are the same in meaning. "Goodby" is only "God be with you." "God "Good night" is "really "Gool night," or "God
guard the nimht" It would he a churlish houseguard the night." It would be a churlish house-
hold in which these gentle forms of speech were ignored or did not exist. Alike the happy and the sorrowful, day by day, may say "Good night."


## american

 Novelty GANG PLOW

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Farm Machinery You may require． WHE CAN FBTTE－ － $10 \pi$－ －IMRomet． THE WATSON MFG．CO．，Ltd．，WINNIPEG，MAN． TROTTING STOCK ： Brood Mares，Colts and Fillies．

 Warms in the sooth，and everyone are younk
 iB the ond troin on．trot tast and make money
for those who handle them．II you want
tor












 America．Hinis dessendants far outnumber a

 horse in his class in Manitoba，which can b
seen．He is by an imported Clydesalale stallion


 ＂ROSEDALE＂STOCK FARM

MANITOU，
R．D．FOLEY，Proprietor， Cly destiane Horres，
 ミ－コーエ－エ－エ－エT－G OUT SHORTHORNS

At Kingswood Stock Farm． In consequence of a change in the
business this magnificent herd，consist－ ing of forty head of various ages，all will be sold in lots to suit purchasers， crop of calves，are got by
dale $=13660=$ ．Now is your time to get choice stock at rock bottom prices，as
all will be sold．Full particulars and pedigrees on application． GREIG BROTHERS，

## MAKES THIS SEASON AS FOLLOWS：

Monday morning，Winnipeg，leaving at 7 k ． Ior St．Charles，noon，（Joe Ness＇stables， Fleav
ing at 14 k ．over night at Headingly．Tuesday， E．A．Greathead，32，St．Charles，for noon，leav－ ing at 14 k ．for Arctic Ioe Stables over night．
Wednesday，to S．Parson＇s，11，11，4， F ，or noon leaving at 14 k ．for Scott Stewarts， $18,11,6, \mathrm{E}$ ．，
over over night．Thursday，leave at 8 k ．for Dougal，
noon，leaving 14 k ．for Hubert Gulls E．．，over night．Friday，leave at 8 k for Dougal，
 night．Saturday，
peg，until Monday． Terms：One，to insure，$\$ 20$ ．two，$\$ 18$ each； March ist， 1894 ．Season，\＄15，patable at close
of season．Single service， 10 cash．Mares not revalarly returned charged as season mares．
For full peigree and particulars，see FAR－ MER＇S ADVOCATE，April 20， 1893 ．

## AROTHO IOIE OO＇Y

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487 Main Street，－WINNIPEG，MAN ＂BIRTLESIDE＂FARM． Maj．－Gen．H．C．WILKINSON，C．B．，Prop＇r．
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Cattle，and Registered Shropshire Down． Young animalis from the above stock for sale．
One and a．half niles from Rirtle station，on
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All the above are registered，and will be sold
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PURE－BRED PERCHERONS superior young stallions now JERSEY CATTLE，Registered in A．J．C．G． $30-2-\mathrm{y}-\mathrm{m} \quad$ W．H．CARPESNTER．Winona，Ont．


MPPIE EROVE SARRM． The celebrated Holstein
Bull Tempests Captain Coi－
umbus 17430 recently ad－ umus
vertised in ADVocAT，is
now offered to the highest bidder over \＄100．Was two
yearrold on 15tho July last．
First prize winner at both exhibitions in Winnipeg；weight fully 1880 ibs
handsome in appearance．gentle as cow，weil
hadso to handle，sure calf getter．Bids received

 RFGISTERED JERSEY BULL FOR SALE ThREE YEARS OLD，PRIZE－WIIIIER．PRICE REASONABLE 192 Bannatine St．， $44-\mathrm{c}-\mathrm{m}$ Winnipeg． ADVERISE INTHEADVGATE

FOR SALIE，OHEAP．
 R．J．PHHIN， Shorthorn－Breeder． OOSOMIN，ss－q－y－m ASSINIBOIA
 PIONEER HERD OF SHORTHORNS WALTER L亡MCH，Prop．，Westbourne，Man． Fifteen first and one second herd prizes in
sixteen years．A


FOR SALE．

 MY BERKSHIRES Mro goo in gility anc
 G\％C．KYEND， wixnirga，inat


DR BARNARDO＇ Industrial：Farm CENERAL LIVE BTOCK BKLID Piga for Sale． E．A．STRUTHERS．Manaker． J．A．S．MACMintLAM，Bor 183，Brandon，Man J．A．S．MACMILAM，Bor te3，Prandan，Man：，
TMPORTER AND BREDER ow
PURE－BRED SHROPSHIR SHEEP



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## 

STOCK GOSSIP． he In writing to advertisers please mention Shanks Bros．，of Rapid City，write us that hat they have a very fine crop of calres from Sir Ralph $=16271=$ ．They have on hand five
choioe yearling bulis for sale，all got by Laird choioe yearling bulls for sale，all got by Lair
$=12830=$ ，he deams oot by Duke or Cumberrand
$=8382=$ ，or by Sir Ralph $=9714$ － $8882=$ ，or by Sir Ralph $=7914=$ Parties in
need of buls should write for particulars to nbove address．
In another column will be seen a special offer
of land in the Little Saskatohewan District of land in the Little Saskatohewan District， made by Alex．Stewart，Fsq．，Minnedosald Any－ one wishing to secure a cheap rarm should write
him at once．The nearness of the railway to
these lots ads a very desirable feature，whioh these ots adds a very desirable pazture，wivin
is not ofton obtained at such price．Any in．
formation desired can be obtained by wrting ormatio
or it．
Thomas Reid has recently imported the fol－
owing fowls，in order to maintain the present high quality，of his sis sock．－A Golden Wyan－－
iotte quockerel from H．Hess Winona，Wis．； dotte cookerel from H．Hess，Winona，wis，；
the seoond prize White Wyandottes at he On－
tario Poultry Association＇s exhibitit at Hamil

 We have received from Powel Bros，，proprl， etors of Shadeland，Stook Farm，shadeland，
Crawford County，Pa，a very handsome


 Shetiand ponl．
and Highand blac－ftoced shoep，and is one of
the largest and best stoeked farms in America．

 skins of pure or crossbred Galloways make
oxealnent robes and we may expeet in a fow
years to see Indian tanned Galioway robee years to see Indian tanned Galloway robee
which wilt take the place of the now extinct
buffalo．Mr．Jas．A．Honry，ostokton，Man， buffalo．Mr．Jas．A．Henry，of Stookton，Man，
has also bouht from Mr．Martin the young
Gallow buy bult；Marquis of Hope Mr Mrenry
 fell，III，May 3，was fainly woil attundod．
The seneral average was largely reduced，be The
ce
heve heve
term
abou
not

##  <br> 



## 

 ington
RTver
RII．
Sink．


 has been done．A short term of favora
weather will，however，permit powing an
corn planting，and matters will look brighter

## NOTICES．

Waghorn＇s Guide for May conteins as usual a lot of useful information，including all raillroad
itme tables，with distances and fares；all the post offlces，and d tage routes，names of muniot－
palities，with their reeves and clerks；Customs values，etc．．etc．They can be procured from
any book store or news agency，at 10 cts，each．
 Barre has secured ample cold storage and ot her
Bacilities at 249 King St．，Winnipog，where con－
ainiter signments will be recelved from factorymen，
Parmers，
icult ticularly those along the Pembina Mountain
branch of the frop the trad warrants
it，a weekly refrigerator car may be put on


## STOCK GOSSIP．

 John E．Smith of Brandon，writes us that heis very meh pleased with his illustration， is very much peased with his ilustration，
Whioh appoared in Aprilsth issue of the Avo．
OTE，and we learn that he has since sold arre and we learn that he has since sold
trough the AvVocATt that grand young
Clydesdale，＂Sir Donald A，＂［12et］to Mr．For－

 Galloways and several Shorthorns and Clydes－
Mr．Thos．Reid，of Winnipeg，has purchased
Ome very ．fre White W yeninottee from Mr． MoCormilk，of London，Ont．Theee birds where prive winners at the Ontario Poultry Show， her at Hamiton，and their having been
brought winnineg gives lovers of this breed
in Manitoba and the Northweet a good oppor－ in Mantito se and the Northweet a good oppor－
tunity to socure choico egg for hatching The
inportation is a representaitive hot，and arrived
 succospd partios interested should send varie－
We have received from Powel Bros，pro prietors of＂Shadeland Stock Farm＂，Shade
 Sarns and buildinge of their immense farm．
Thir stock ocmprises Shire，Clydesdale．Per．
 President Barre，of the Manitoba Dairy Asso

 promisise
position．
Messrs．Cobbold \＆Shad well，V．S．announce atton sale of superlor horres at Grand＇s Re day May 23rd．Thirty head of valuable horsee Hecsirs．Mossom，Boyd \＆Co．，Bobcaygeon，in men．The list embraces Suffolk Punches Clydesdales，Hackneys，Yorkshire Coachers catalogue to either Cobbold \＆Shadwell of a large gathering of buvers．
＂Since the beginning of Frites us as follows：－



 of simeoe，the yearling bull Wilifed．All firs letters enquiring for good Herefords this year
from Ontario farmers than ever before．Pricees are improving，and all the sales 1 have made were for cash，
jur．Wiiliam Wallace，Dunbar，ontario，has and shipped them to Canada．One is th
strong，big，powerful horse Prince Fergus，th
property of lir．Peter Ferguson，Renfrew，han

 He hasgood action，Princeof Garne gland，the
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