

## EDITORIAL

## Mr. R. H. Harding's Chester Whites and Dorset Horns.

The illustration that adorns this issue represents three Chester White pigs and three Dorset Horn sheep, the property of Mr. R. H. Harding, Thorndale, Ont. They are a very superior lot. The pigs
were bred by the owner, and reflect credit on Mr. Harding's judgment as a breeder and feeder. The wo-year-old sow, Mapleview Queen, No. 185, whic stands to the right, was sired by Broadbrim, Nos, 128 and 4855; dam, Annie Lawrie, Nos. 152 and " 7462 ." Mapleview Queen has been a winner whenProvincial Fat Stock Show, held at Guelph, for brood ow and two of her offspring. When in show condition she weighs over 700 pounds, and is remark ably well-developed, smooth and active. The barrow that stands to the left is a model in every respect His sire is Silverchief, No. 66; dam, Mapleviev Queen. The yearling sow, Perfection, that stand ever yet being beaten in the show ring. She wo first in a ring of six models at the Toronto Industria n 1892; first and diploma at the Western Fair London, 1892; first at the Provincial Fat Stock Show held at Guelph, December, 1892, and also won the red 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 heavy in farrow. Her sire, Silverchief No. 66, although never fitted for show, won first an diploma at the Western Fair at London, 1892. He was bred by S. H. Todd \& Son, Ohio, and has proved 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 all of first-class 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 chance huy young stock from a herd that has won such prominence, although only established four years.
Three imported boars are used in the herd, two he other from Mr. Martin, Alexandria, Ohio. Each of these animals is individually good, and their pedigrees are as good as the best.
The Dorset ewe to the right is Cottage 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 Messrs. 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, weighed when 5.3 days old $55 \frac{1}{2}$ lbs. She was sired by The Colonel 193; dam Lady Jane, No. 28. This lamb is now nearly five months old, and is growing very nicely, nor the rest of the lambs. Some of Mr. Harding's ewes hat lambed in the fall are now heavy in lamb, and some that lambed during the winter have again heen served, which goes to prove that these sheep will continue their peculiar fecundity in the Can dian climate. Thight future in store fur Dors Horns in America. The foundation of this flock was imported from the noted English flocks of Chick, Hawkins, Roper and Culverwell Bros. The animals at present in the fold number about forty, and are of niform quality, large, thrifty, and well wooled; in fact, the breeding stock, both sheep and swine, are forward and honorable man, who deals in all cas with conscientious uprightness. His farm is located 2) miles from Thorndale Station, stratford branch
(i. T. R., in Middlesex county, 10 miles from Lonlon, Ont.
This is the time to spray the fruit trees to destroy he bud moth. This little insect lays its eggs on the leaves of the treesabout June. The larvar feed upon tection afforded by the leaf and also by a small silken covering, little can be done to lessen their small cocoons upon the $t$ wigs where they piss the winter, and come out in the early spring and attark reason one insect can do a vast amount of damage. The remedy is to spay early in the spring, before
the flowers op with Paris green in the sathe proprertions as for the colling moth one pound to tw

The cow knows her place in the stable and take
She atso knows when it is her turn to be milked and if disappointed gives less milk and of inferio quality.
We take the following from Hoard's Dairyman: "The mischief of it is that Democratic and Repub ican farmers will blindly follow their party leader But to the destruction of their own bassess, never do such things. Oh! no.
An evidence of the success which has attende the efforts of the Travelling Dairy, conducted i Ontario for the past two years, is the ract to claim
servatives and Reformers are both trying to the honor of having been the first to have propose this method of increasing the interest in dair husbandry.
The season of the year has come around when dairy cows should have extra care, if they are to do their best for their owners during the coming month Unless cows are brought out in good conditio and prepared beforehand for a good summerswork they cannot give the same returns as if they ha A
A farmer in France claims to have discovered remedy for rust on wheat, which is simple and a ported wheat efich had been sown in the fall was sprayed in the spring with a mixture of $4 \frac{1}{2} \mathrm{lbs}$, of sulphate of copper and 6 dissolved in water. This treatment gave an in crease of fourteen bushels over wheat not so treate It would be interesting to know what results spra ing with the Bordean mix.
Orchards pay well for all manure applied to them. The paler green of the leaves on bearing shoes, as the tax on the tree's vitality which fruit pro duction causes. Fall and the early spring are the times to manure orchards. In addition to stab manure, bearing trees should have some potash applied. Do not sell or waste ashes, but save then and spread around the apple trees. Remembe that average wood ashes contain from five and
half to seven per cent. of potash.
A. D. Harkness, Irena, Ont., in an exchange, says: "Any one who can run a fanning-mill can rum a sepa ator, and it is pure shiflessness to spill milk so that will get in the cent, of fat in the skim-milk, and that was when I was letting the milk in to fast. I think that if a person is getting more tha fifty pounds of milk per day during the months of October and November, that a separator will mak enough more butter to pay the interest on the cost

Thirty-one of the students who have attended the first session of the dairy school which has bee established in connection win the Ontario Agricul ural College, Gnelph, rations The full time, an ing, when we consider that out of the number attending a large proportion are old butter-make who could not spare the time from their business to finish the course, and so had to leave before they hat a chance to write on their examination. We ad up among the first half dozen.
In the planting of trees, vines and cuttings, es pecially in dry weather, care should be taken to press the earthlan and losses of plants arise frox neglect of this important point. The planting of tree seems a very simple matter, yet the inexpen enced will often make great blunders. The hol should always be made much larger than th back among the roots, and when filled it hy sifted pressed down firmly, so as to leave no spaces around from drought be preventing too free access of ain, and by being firm no obstruction is offered to the must be taken to keep the roots moist, fath not allow the little hair-like fibres to dry and wither for if this happens it is sure death to an evergreen, growth, no matter how much care is taken in the planting. How often do we see farmers going home from town with id dozen trees stapped on behind
the buggy with the roots exposed to the burning rays of the sum. So one could expect trees afte

Even if Prof. Koch's lymph has not been as suc cessful as was hoped it would be in the case of con sumption, still it has been sia Experiment Station hat it will indirectly, to a large extent, preven he spread of this dread disease. It has long been an acknowledged fact that the use of the flesh or milk for food of animals suffering from tuberculosi was a very fruitful cause of consumption in man. In the experiment quotedecting the disease in it ymph is stages long before its presence could b found out by experts in the ordinary physicial examination. The use of this test will doubtless be of great value in stamping out the disease in it early stages.
Can the per cent. of fat in milk be ncreased by good feeding? Nearly all the most carefully conducted experiments have shown that the proport, Vermont, disputes these statements, and now the Colorado Station sides with him. Doubtless muc will depend whether the cow is up to her she ha been fed and cared for previous to the test. But the average farmer can well afford to let the exper mental stations settle this interesting problem, for he knows all that is absolutely necessary for him to improve his herds, which is that some cows will give fice as that plenty of good feed always give reed, and also Therefore, weed out your poor cows and feed the remainder well, if you would succeed in dairying.

The spraying of fruit trees with Paris green has now become so general that no one ever thinks of danger when eating fruit, still we often hear state ments made that injurions ebe sprayed with the Bordeaux mixture. To show that there are no grounds for these stories we give the following ex-periment:-"The Board of Health of New York city condemned several carloads of grapes as dangerous to the public health, and ordered them to be destroyed because they were slightly disfigure with the Bosfall in prices so that the market was bad for the rest of the season. To determine the exact amount of copper adhering to such grapes, the Massachusetts station, at Amherst, analyzed ten pounds of grapes which were badly disfigured from spraying with this solution. Only two one thousandths of one per cent. of oxide of copper to eat from one-half ton to one ton of such grapes at one time, skins, stems and all, before he would have taken into his system sufficient poison to do any injury.
Sheep-shearing time will soon be here again. Do you wash your sheep? It is a disputed point whether it pays to do so, but much will depend upon circumstances. A farmer was met last fall who was had advised shearing sheep without washing, and the gentleman in question had lost by following found that he had been docked for too much by the local dealer. Always find out how much is taken off in your market. The usual practice is to deduct one-third, in other places one-half is taken, which would make a very material difference to the farmer. Each man will have to decide this matter for himpay him better to vas clean, doubtless it would large proportion of it to the dealer, also, if the facilities for washing are very convenient it may pay to wash. Among the many disadvantages of 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 weather to be late enough in the season for the ciently warmed, but often bo thimes the sheep will have lost far more wool on fences and gates than can be gained by washing, so that in such a case washing is labor in vain. There is also great danger that valuable sheep may be
chilled, and sometimes loss will follow. This lastchilled, and sometimes loss will follow. This lastthe farmer and his help, for many fatal diseases have been callsed by being chilled by being in the washed the sheep should be turned into a clean past ture for a week or ten days to allow of the return of the nat ural yolk. This process can be hastened
liy feeding a few peas or a little coru.


## Melon Growing

 Melons can be grown with little more eand as easily as a crop of corn or potatoes
good garden soil will answer, but the teest will be obtained on a good, rich and wartm sand will make a good seed bed. The ground piowed in the fall, and about cwenty loads of manure per acre plowed in the fall or spring in ad-
dition to the special manuring in the hin. The
 narrowed, and furrowed out six feet each way for
musk ind eight feet for water melons. A shovelful musk and eight feet for water melons. A shovelful
of welli-roted man the should be weli mixed with
the soil of each hill: for this putpose there is note the soilio of each hainlire for thisuld pue weil mose thered is none
better than poultry manure. Uue grower say better than poultry manure. Une grower says,
"That each barrel of hen manure uned added $\$ 10$
pit per acre to the value of the crop." The halls should
only be raised about two inches, made quite flat on
one the top; plant about six or eiesht seeds to the hill. A good method of protecting the plants from the
cut-worm is by placing round them a thick rim of cut-er about three inches high and a foot in diame
paper ate ter, over which they cannot climb. The main thing
is $t 0$ push the plants forward by thoroush cultivg tion and the application of special fertiilizers until the vine begins to run. ${ }^{\text {Pinch }}$ Potit the terminal
branches, so as to a llow the branches, so as to allow the lateral ones to grow.
This is one of the secrets on which melon culture rests, for the main branch bears male or barren
tlowers, while the laterals bear the fent Howers, while the laterals bear the fenale or fertile
Hossoms. The chief pests are lice mad the blossoms. The chief pests are lice and the stripee
beetle; the best remedy is tobacoo dust or stems streenn round the plants, or an application of strong
tobacco water. Another good camedy tobacco water. Another good remedy for the
striped bug is to moisten land plaster with coal stiped
ind scatter a h handful on each hill; also Paris green, ne-fourth the strength used on potatoes.
on the vines ungill ripe; gather as soon as they will part from the stem. A A melon ris seoned is they will
much il
much better tlavored than if pllowed to ripen much better thavored than if allowed to ripen
naturally satury to pick every day. It tivil pay better to start
shem in frames, so that they can be got into the
them in early market, as the forlowing account of the sys tem pursued by Mr. R. . Brodie, St. Henry, Montreal,
will show: "II have tried nearly all the varieties which have been boomed l!y seedsmen, but nothing
comes near the Montreal melon for for
 inch pots buried in the soil as close toget her as possible (inverted sods or strawherry boreses will do of way ; make trenches iffteen inch incs deep and two
of tre feet broad, fill these with hot manure, covering
with eight inches of soil. I move the hot-beds of the cablage and celery plants and place them on
these, the trenches being twelve feet apart; plant these, the trenches being twelve feet apart; plant
one pot containing four plants under each sash, re-
 Ahe growth on sond yieldecery fertinger will increase位说 the plants air each day. The first of July first on the market will ustaly bring $\$ 12$ per dozen,
When nearly ripe, place a board or shingle under When nearly ripe, place a byard or shingle under Asparagus. Every farmer should grow sufficient asparagus when there is situle elles in the wiyes of vegetatlest to
 any planting on dry, warm, deep and rather sind
 dro transplamt into permanent bows the foll he fit
 THired, for the use of the family is io protchase the
routs from some gardener ; while this many cest :
 the soil apply well-rootel manure, phow prep chind
vatte thoroughty, then plow furrows twelve fuche
 manure, cover this with two or the inches or
sarthe on this phate the phate, wrequing the root

 Pecolliar succoplent nature of the roots this plant i-
 yoar a full crop should be ohtaineme Manure and
 sinne




## Cabbage and Cauliflower.

The cabbage plant is much easier managed than
the cauliflower, and is therefore more sure of giving the cauliflower, and is therefore more sure of giving
a crop, even under unfavorable conditions.
The arop, even under unfavorable conditions. The
first consideration is to get the right kind of soil ; the best is a deep, rich, sandy loam. They will do The land clay ground.
artificially. It should be plowed in the fall, an plenty of well-rotted manure applied; the ground hould then be thoroughly worked and pulverized The seeds can be sown in frames, in boxes in the house, or even in the open air ; but, if only a few just as well to procure the plants from sour gardener who makes a tusu thess of this line of work.
The cablage is onc of the hadiest The cablage is one of the hardiest vegetables, and where it is wanted for an early crop the young
plants should be set out as early in the spring as the plants should be set out as early in the spring as the
ground can be worked. As soon as wheat or oats can be sown cabbage may be safely planted in the open field. After setting out, the plants should be
thorould horoughy cultivated; if they have been planted in will, to a great extent, take the place of hand labor Cult ivation should begin about ten days after they are set out. There is special need for this working of the soil if the weather happens the cabage
The most troublesome insect is the cabbater caterpillar, which often attacks the plants jusi
as they hegin to head out. This is the larya small, light, yellow butterfly, which deposits its eggs on the plants in May or June. The caterpillar can be destroyed by dusting white hellabore on the
cabbage, but this caunot be done with safety whe cabbage, but this caunot be done with safety when
the plants are nearly ready for use, as it is to a cer tain extent poisonous; though, if used when the cabbage is ahout halfgrown, the rains will have Woshed it of sufficiently by the time they are reat
for use. What has heen advised for calbage is th culture necessary for cauliflowers, with the excep fion that this vegetable being of a more delicat anstunut be cet out quite as early infy handleer nut still the plants must be planted before the dry warm weather hegins or it will not do well. The cauliflower delights in a cool atmosphere, and doe

## New Fruits-Worthless or Otherwise,

 About this time of year fruit tree agents will ravelling over the country selling all kinds farmers may wish, but will take good care that they do not come back for a recommendation when the less frauds, which have been practised, it seems order to any agen ewho is not known, and not ever then, unless the house which he represents is know to be reliable. It is al ways wiser to deal with those who have a reputation to keep up, and who are not too far a away. Poor stock is al ways sent as far awayfrom the nursery as possihle. Pliut standard yarie. fies; let some one else do the experimenting with ies; let some one else do the experimenting with
the new, high-priced, money-making varieties; hey prove to be of any value they will soon be eports of the Fruit Growers' A ssociation. That Our readers may not be deceived by sharpers, from
ime to timu we will give descriptions of worthles ime to time we will give descriptions of worthles ilg extracts from a report of tests of four nev Cornell University Experimental Station aithe found interesting, and our readers will know how much confidence to put in the descriptions of the
simne in the agents' hand-lookk: The first, Prunus Simonii (Simon or Apricot) phum, is not at hybrid enween the apricot and the plum, but a distinc a very attract ive fruit, it has not given saitisfaction for the Professor says: "I have never tried a speci men which I comld say was edible. I make this unwi ling confession because the fruit is exceedingly at
trictive to look upom. It is ssidid that the bitterues passes a avay in the cook ing, hut my experience has chnech reassuring.". He then addd: "A Ater some that it is worthleses for orchard cultivation in the latitude of Xew York, lut as an ornamental tree it
hals dist inct marit." The Wineberry-Prof. (i. © Georyesonn sent seeds of this matpherry from Japan,
where it grows wild. The 'mited States Ponnologist report says of this plant: = More ornamentia ceived conside rable notice in inys thatlat it hat alway
$\cdot$ I find no fruit with any commercial value in our wineherry plants. I am nevertheless ready to be-
lieve that the species may eventually give us fruit lieve that the species may eventually give us fruit
of considerable value, but for the present I should of considerable value, but for the present 1 should
class it among the ornamentals rather than the class it among the ornamentals rather than the
fruits." The Crandall Currant-This new variety was originally found growing in Kansas, and undoubtedly gives great promise as the parent of a new and valuable race of small fruits. The Cranadower, is too cariable to te reliable, as only mumber bess whe the whole reason to believe that if cuttings were taken from these plants alone, the Criandall would soon inse in popular estimation. To some the flavor is mended as , but on the whole it could be recomhas so far been free from attacks of the currant worm. The Dwarf Juneberry, the Success-The
variety tested was also found in Kansas, though rariety tested was also found in Kansas, though Vorthern States. The Cornell Station over the two hundred plants in the spring of 1888 , and they have since given three good crops. This berry closely resembles the huckleberry in flavor and ap-
pearance, but is more juicy aud palatable. The plants are exceedingly hardy. Prof. Alwood says of this berry: "I venture to predict that it will befome very popular, and fill a long felt need for a the strawberry season." The robins seem to be very fond of this berry, for he alds: "The birds hear me out the the statement that the Juneberries are
good. We are not yet realy to report upon other cultivated varieties, tut the Suceess is an acquisition if the birds cap be induced to aroid it."

## The Fleece.

Mr. John Hallam, of 83 and 83 Front St., Toronto, Ont., and 87 Princess St., Winnipeg, Man., desires ing questions: - How has your flock twintered? What is the condition of the wool as compared With last season's clip? How many sheep and
lambs have rou this year? Of what breed are they Before shearing, be sure and clip off all dung locks 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 done, and has tended not a little to permanently reduce the price of Canadian wool. It pays to send This age demands that all goods be put on the man. ket in the most attractive manner, and that the quality be as good as possible.
The place where the shearing is done should be free from.straw, hay, dead grass and seeds, as these injure the wool and make it of less value.
hat not less than 20, bue carefully press-packed, so This will insure the lowest possible rate of a can as the C. P. R. charge as much for 10,000 lbs. of loosely packed as they charge for $20,000 \mathrm{lbs}$. of press-packed.
All packas
All packages should be of one quality. Mr. 1. The fleeces of males, those from the differen pure breeds, suct ha LLeicester, ©otstomold, Shropshire,
Southdown and Cheviots, should be put in separate packuges. packes
type.
${ }^{1} \mathrm{p}$ 3. . All cross-breds het ween coarse and wool of he Montana type.

Lambo or yearlings.
Dead wool, or wooi
heep after they, or wool that has been taken off

 should he tied up in sin parate flececes and the wool
kept of the number of fleeces of each kind. cept of the number of fleeces of each kind.
Those of our readers who have wool to sell
 guided hy his advicie, send hin samples of their
wool and ask him for offers for same. He should Weol and ask him for offers for same. He should
be atble to pay better prices than country dealers

Put a few odd moments on the lawn. Why is it mat, with every advantage, there are so few lawns be that time will not permit with the cities? It may ion of the wrin not permit of at thorough preparaput in placees, where the griass is lack ing and the rush amel limbs can be cut out and buried.
We have been inforned that the English Shrop--hire Sheep 1rweders will not withdraw their special prizes offered at the Worlds Fair because the rules
of the Exhititit iod forthid the colloring of the wool.

brother to Handsome Prince. An examination of
the breeding of the prize-winning horses at the hill champion Galloway was Henry of TarGlasgow Stallion Show makes it clear that the
influence of the Darnley-Prince of Wales cross is infliuence of the Darnley-Prince of Wales cross is
still potent, and of actual prizes won the horses still potent, and of a ctual prizes won the horse
whose stock took the largest share were Prince of
Wales Sir tverater Whose stock took the largest share were Prince of
Wales, Sir Everard, and Prince of Kyle. Since
then we have had the first open show of the season then we have had the first open show of the season
at Castle Douglas, and both champion Clydesdales at Castle Douglas, and both champion Clydesdales,
Montrave Dudley and Queen of the Roses, wer
bred at Montrave by Mr. Gilmour, and got by bred at Montrave by Mr. Gilmour, and got b
Prince of Kyle's own brother, the £3,000 hors
Prince of Albion. What astonishes most people connection with these animals is their rgreat weight
and size, showing clearly that these Craigie horses and size, showing clearly that these Craigie horse
are not likely to justify the forebodings of thos are not thought them too slight and lacking i
substance. Their produce, when properly mated, substance. Their pros.
are in no sense ponies.

The spring shows and sales of young bulls are in full swing, and good prices have been obtained for sale of Galloways on Monday, Atth March, there was abuinant evidence that the border blackskins have
again bounded into popular favor, and are again rising in value. Mr. Cunningham, Tarbreoch, was as usual one of the most successful exhibitors, and sold two two-year-olds for $£ 30$ and $£ 25$, respectively,
to new breeders of Galloway cattle. The average price of six two-year-olds was £ 23 i.5s. The year breoch lot were agen a readier sale, and the Tar
stock bull at Tarbreoch is Roat favour. The present Liberty which $£ 150$ was paid at this same Castle Douglas sale some years ago by Mr. Cranston, who after-
wards sold him to Mr. Cunningham. Mr. ParkinMoore, a fine young squire from Cumberland, who is spending his money in a sensible fashion in encouraging the home breeds of live stock, bought
the first prize yearling at £100. This youngster is
named Macdougall III. of Tabreoch, and was by the sare already named, out of Maggie of Tar by the sire already named, out of Maggie of Tarsor. The next bull hrought \& \& 9, and the third $£ 51$
Even the seventh prize winner, Lowlander 5834 rew £ 10 , and the fourth made £1, at which pric ten Tarbreoch yearlings was $£ 35$ ofs.; Messrs. Biggar and Sons got the average of $£ 25$ 15s. for
three
Mressr. She Mhennan, Balif,
e22 Mree Messrs. Shennan, Balif, E22 for four, and
Mr. McCormick, Lochenkit, £2111s. 8 d . for three.
A large number of Galloways have rect A large number of Galloways have recently bee purchased for the English market, and altogeth
bhere is a distinct revival in the Gallowav trade.
The greatest sale of light-legged horses, mostly Darvel, on Thursday, 30 th March, when the wel sold seventy-six head by public auction, realizin he following average prices:-Ten saddle ponie made £1085. 6d. each; two pony mares in foal, £243s, yearlings, £181s. 2d.; ten harness mares or gelding rew $\mathrm{E} 67 \mathrm{I4s}$. 6d. each; fourteen Hackney brood mares, tis 4s. each ; six Hackney stallions, e121 19s, each; seven three-year-old fillies, £188 17s. each even two-year-old fillies, 891 7s. each, and nin egistered Hackneys for breeding purposes was ther lively, and some phenomenal prices were wealized The produce of the stud horse Donal Girant drew by the merit of his foals. A nother horse that breeds first-rate "stock is Mr. Morton's junior stud horse grace in every movement. Mr. Hester, New, York Was amongst the buyers, and st ruggled hard for the escaped him, an Ayrshire gentleman, Mr. Marcus escaped him, an Ayrshire gentleman, Mr. Marcus
Bain, securing her at \&ize. The young horse, Joliy at $E: 320$ os., but Mr. Hester carried off the three-year-old, Sweet Mary, at $£: 336$, and the
two-year-old Craigielea, her own sister, at $£: 2 y 35$ s.
I large number of the animals were $A$ large number of the animals were we wil
into the three finures, as we say in Sootland that into the three figures, as we say in scotland that
is, they were sold for over \&100, and the sale from
first to last was an uncommonly lively one In this, the first week of April, we have had an
uncommonly busy time of it. On Tuestay a splendi general show of Clydesdales, Galloway catile and

 declined to discusty the cuestion of the frecer thonthit
tion of Canadian catte. On Thursday the imnnait draft sale of horses from the Marquis of LondonFriday the annual sale of young shorthorn bull took place at Kelso. We have already intimated the names of the champion Clydesplales at Gastle Montgomery, Banks, ind Queen of the Roses by. sale, a year ago, for $1,(0)$ guineas by trontrave Montyonery. She seems a formidable crough like champion. Mr. Pilkington was also sucesesful in
winning several leading prizes with roodgalloways winning several leading prizes with good Galloways,
amd the Ayrshire bull champonship with the two-
year-old Royil Stuart, for which he some months
 got the championship for Ayrshire ows with a finge
animal of his own breeding - Vellow Bess of (ast le-
hill. The champion Galloway was Henry of Tar
reoch, owned by Messrs. Clark, of Culmain,
nagnificent animal, and well known to all fanciers of the Galloway The sale of the Seaham Harbour draft was
popular event, and Shetland ponies, Clydesdale popular event, and Shetland ponies, Clydesdale
and trotting cobs and harness horses all met
ready sa'e. On the ready sa'e. On the whole there was most buovancy
in the Shetland demand $45 \frac{1}{2} \mathrm{gs}$ or $£ 4715 \mathrm{~s}$. 6 d . was paid by Mr. Clare, of Bradford, for a m mite of
nare named Queenie. a gem of her class, and wenty-seven Shetland stallions made an average
of $£ 2014 \mathrm{~s}$. 2 d . apiece, while ten mares drew $£ 27$ of $£ 201 \mathrm{ss}$. 2 d . apiece, while ten mares drew $\mathfrak{x 2}$
14 s . 10 d . apiece. For the three-vear-old (lvdesdale
tallion Sir David 9409 Mr . Riddell stallion Sir David 9409 Mr . Riddell gave £.5io liss.,
and for mares the tollowing annongst other figure vere realized: Stetta 11432 drew $£ 126 ;$ Thrift 1075
drew $£ 126 ;$ Hippona $11+36$ drew $£ 11510$ s. and the three-year-old filly Juliet, by Castlenagh, drew
$\neq 1525$. The average price of thirteen brood mares
 four yearling fillies £52 15s. 3d. The average for
two three-vear-old stallions $£ 349$ 2s. 10d., two two-year-old stallions
tallions $£ 2916 \mathrm{~s}$. 5 d
id not come up to thorn bulls at Kelso prices bulls at Castle Douglas three weeks ar Gearling
 good demand, and the pedigreed stock were of
Scollent quality.
Scotand YET.

## The Shire Horse

Dr. Mole, toronto
Horse breeders in Canada are in danger of mak ing an irreparable mistake by breeding a class of In consequence of the hostile McKinley tariff, and hecause the profits of horse breeding have declined, he farmers are breeding their mares to very indif
ferent stallions becasse the servies mongrel-bred stallion is now more frequently use as his service fee is low, as there is mot for horses; whereas the reverse is the case. There here never greater demand for good horses, and I am all of opinion there always was a good demand and always will be for the good roadster.
The man who sells a horse whenever opportunity ways make a profit ; whereas the breeder who hang on for the larger price and thinks he has got a world beater, generally sells at a loss. In order to raise he best it is necessary to breed to the best, and the of a good breeding dollars to stand in the way If our farmers want to retain their a mistake 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 prethe best dratght stallion, the Shire horse to be pre-
ferred. Do not for one minute suppose that we
hold a brief for the Shire horse as our seen often expressed, and our experience proven any cause of unsoundness than other breed hat they become useful on the farm at such an place in all spring and summer work, and as soon as the fall work is done they are ready for any hard
work that is going on, paying their way until five
cears old, when they years old, when they are ready to be sold for town ractors want the farmer ought carters and conhas been too much desire to run after trotiters ind The rise in favor of the shire breed has bee henomenal. The shire Horse Society was started , (iv) members. It, is endeavoring to improve and is the Shire or Wraglish breed of cart horse, known
an Horse, and be the means of dis trine Shire or War Horse, and be the means of dis
tring soud and healthy sires throughout the country. Their stad books are invaluatle to breed and they contain the particutar of all the pedigree time. The more in this respect than Nr. Watter (iflhes, whose
name is a houshold word amongst Shiin horse
hreeders all Treeders all over the world.
The number of entries hat been steadily increas
ng since the first show in $18 \$ 1$, when there war only athout one hundred stallions and mares ex hibitad. At the Ayricultanal Hall, Indingtomes Lon-
don, Eingliand, from recent advices, we learn there was conconscon in the Fecent advices, we learn there been done can be done again, and we would urge
the co-operation of the stud horse owners of th Dominion to unite and demand protectists and if thry only approach the powers throt bect we ares sure and inspect the st ud horsed theld session to license do not advocate generarses purpose breedinge. as it is several special qualities. A horse may be produced fairly welliand torot fataw than the maje to marke of phow
horses, hut 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 his breeders are finding that out very rapidly, and
also that there is no money in breeding that class after all.
We frequently hear there is no money in breed rotter ${ }^{\text {a }}$ To that we reply the reward is great those who understand and will devote sufficient at ention to the subject, for the pure trotter must be
bred, and not manufactured as formerly, by long rears of development. If a hreeder aims to pro uce a high class of carriage horses, he will assuredly tainly bring as much profit as the highest type Hackney. It is at the present the fashionable typ of horse, and Mr. Walter silbey has paid 5, (100 guineas, or just about $\$ 26.250$ (t went $y$-six thousand
two hundred and fifty dollars) for a Hackney stud horse named Danegelt, a well-known Yorkshire
bred horse, bred by Mr. Bourdas. He will in future the Elsenham Hall Stud Farm, Essex which at present conta
horses in Old England.

## FARM.

## Weeds

Polygonacee (Buckwheat Family) In this family we find the joints of the stems much swollen and the lower part of the leaves
forming sheaths. The flowers have no petals and forming sheaths.

Polygonum aviculare (Knot-grass Door-weed.) This is an annual often found growing around igh, about half-inch long. This plant is very common about dwellings, around which it often forms mat ted patches.

A cont Knot-weed). ow grounds. The leaves are bildings, fences and a brownish spot, and the plant about a foot high. P. convolculus(K not-hindweed)
to weed, it rus and climbes proves a roublearound objects near it. When hoeing it collects on the hoe and becomes a nuisance to get rid of

Thorough cultivation soon gets rid of this annual wheat but which bear a close resemblance to buck-


This arnmal is often fouma in wuly fields ; its wil

wheat, but are much sm
wo in
wit
npleat.


Rumex crispus (Common Dock). Fig. 36. out 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;
long leaves nearly a foot long and about two inches
wide with wide, with the edges somewhat curled. It It bears
many seeds, which have a sort of winged structur many seeds, which have a sort of winged
Another dock, but not quite so .common as the present a less crumpled appearance, but in othe respects it bears a close resemblance, to the common
ock. They are more frequently found along ditches and in fence corners trequently 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 still it has some of; considerable economic value
such as buck

Euphorblacese (Spurge Family).
Plants with milky juice and bearing flowers,
me of which have nothing but stamens, others some of whi
pistils only.
Euphorbia Cyparissias is sometimes called grave 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 dense clusters, presenting a greenish-yellow ap-
pearace. possessing a brownish blotch in the centre, and hence sometimes called spotted spurge. We fre-
quently sce it growing bet and quently see it growing between the ties along the
railway track. It never proves a very troublesome
weed.

This family affords (Nettle Family).
This family affords examples of herbs, shrubs
and trees. The em, fig, mulberry, hops, and the
well-known stinging nette ica 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 corners. We
rather unpleasant to handle. The leaves and tinctly wothed and the spikes slender some of
the flowers are pistillate, while others are stam-
inate.

Liliacee (Lily Family).
An order containing many extremely beatiful
flower, such as the lilies, hyacinths, tulips, tril-
liums and adder tongue. Allirm tricocenm (Wild Leek).
This plant is very common and becomes a great
miniance in the spring of the year, when it is eaten
hov cous hy cows. It has a very strong onion odour, which
aiffects the milk of cows feeding upon it. The
leates are about ser leates are about of even inches in length and. Thearly
two in width, bright green, and readily recosnized


FIRST PRIZE ESSAY.
How to Construct Concrete Walls and Buildings.
by thomas gra'yson, moosomin, n. w. t. The first thing requisite to secure a good building
is to be sure and have a good, solid foundation. you are going to excavate for a bank barn, you will 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
cases project cases project at least four inches on each side); use foot, fat stones and good mortar; finish your
footeng 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 same, and also to receive any posts for running
beams to cary the upper floor joists. This I con-
sider one of the sider one of the most important things about any
building which has an uper floor intended to carry a heavy weight, as the greater part of the weight comes on the posts, and if they are not on a good
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 effect on outside walls, and also on the roof. When
your footing is finished and your footing is finished and given a day or two to
set, begin and fix two by four-inch scantling three
feet and get them all straight in themselves, and be sure and keep the rounding edge on the inside all the
time. Set them opposite each other and fasten to gether at the bottom with a a strip one by two inches,
well nailed to the bottom of the two and resting with one edge on the stone wall. Place your wall and a one-inch board on each side. Yo may tack on one or two pieces higher up exactly
the same length; then brace the two by four-inch 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 you set your door frames before you start to build your
concrete. Now take one-inch boards twelve inches wide and set on edge inside your two by four-inch
scantling; get enough to go around your building case. These same boards will carry you up to to of wall. If floor joists are going to be put in,
would try and arrange for of stone footing. Now you are all ready to start concreting, First we want some fresh burnt lime soil or dirt of any kind. The quality of the con crete depends greatly on the gravel. When take
from the pit it should be screened through a quarterwith screen on to a platform, which may be made
with a few bough boards. Get out all the fine sand possible. The gravel should consist of the followng 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 the following proportions : One of lime to five of Make a boxsix feet hy six feet and ten inchesd manner a wagon box wbuld do very well ; put your gravel
in this from the screen; make another box three Heet bysix feet andten inchesdeep, with a hole on one
fent cut out so that you can slide it in or out: set one wayon box , and support the other end on a trestle,
giving a fall towards the gauge box of a inches. Now measure in yourl bex of about two ficient water to slack it; as your lime slacks add more
water until it is all covered oughly with a hoe, and keepon adding water until it gravel all ready in the grauge box. Take your your out of the end of running box, and let your lime run out on to the grave, mixing the whole toge-
ther thoroughly, then turn out on to a platform and mix again. Be sure and get the whoter, for if you
mixed, and do not use too much water do it will run off and carry a good deal of the lime walls. Put in the concrete between the boards, take 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-
crete lightly, just sufficient solid. You, may build up one foot high alll 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 biardsall round and so on to the height for your window frames. 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. In all cases where frames are set in
buildings, 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 woorl blocks to nail the frames oose boards around during progress of building close of each day's work as a precaution at the rain, which would soil the work if allowed to run
into wall. When walls are up to the intended
heigh,
away all braces, and take a saw and cut away the
pieces of one by two inches which go through the wall and have held your scantling togetherg. You can drive the pieces out and fill up the hole which 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 you having a wave finished job, mix sifted sand and lime in the same
proportion as for concrete, and in the same manner proportion as for concrete, and in the same manner
lay this on the outside of your walls about a quarter inch thick; start at the top, taking one side at a time on this much, fake in depth. When you have laid wash brush and a pail of water, sprinke the water your float of your work, and then rub down with and keep the wood from cracking. You can larks 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, the usual height, which pipes on top of this, building concrete around same When go along; any old pipe will do for this job. if for you get or wood if for a vent carry up in hrick if for fue, or wood if for a ventiator. If these you will have a good, warm, serviceable building,
at no very great cost.

## Building Concrete Walls.

When building a wall for a stable or house we
hould aim to have one that shall make the interior of the building most comfortable, and the best way
o accomplish this is to build it of material that very little conducting power. The concrete wall,
on account of its infinite number of minute air spaces, is almost non-conducting, and hence it will keep the building warm in winter and cool in reach through will often be found covered with rost on the inside in winter, and sometimes with
moisture in summer, but the concrete wall when properly built is not penetrated by either frost or It is on and, gravel and stoapest, substantial walls where nd stone can be had, or and in and gravel, or sand
country can be built for ten cents the wall. This wall does not need to be as thick as an ordinary stone wall, because a water-lime concrete much firmer and stronger than quick-lime as lime cement, whe writer soon becomes as hard as stone barn $62 \times 35$, which has waltood the wind high under a on ten year's without any signs of decay, although it for an ordt twelve inchesthick. Thisisthick enough opten inches thick at the bottom and twelve at the op. The services of a mason are not required for borer, concrete wall, as any good common naterials in proper proportions, can do the work If any moisture is to come to the wall, it must be one or two feet beyond the proposed wall so ate leave an air space on the outside, giving the wall a well to have a drain lower than. It will also be wall to carry off any water that might otherwise come against it. After you have thus prepared the Take three by four scantling for standards: little longer than the wall is high, and place these on each side of the proposed wall, and par apart as
the thickness of wall and the plank used 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 thity accomodate the wall. If the wall is thirty-two feet on. The standards are held the proper distance apart by nailinga thin piece of board acrossunder the The wall is built over the pieces in the bottom piece. they are left in it. The standards are then plumbed
and made fast by braces on the outside. The planks can be moved up on the inside of the standards as fast as the wall goes up, and those on the outside ness 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 bewood board two feet long and bore a twece of hardcach end, having the width of the wall (including the lanks bet ween them, put a strong pin two feet these pins will just fit over the outside of the hox planks, and by putting a brace between the upper ends wit hold them tight against the planks and
prevent their springing out Two of these clamps
will be required for cach set of planks sixteen feet Now, when the box planks are placed all
around the wall, inortar and stone. First put in a layer about two
inches thick of the mortar, then a layer of sow then another of mortar, and son a a alwer of stone,
he mortar come over the elloes of the stone the stones are not permitted to come quite to the
outside of the wall, the mortar over them will pre-


 weather is dry. Place the findow frames in the boresw when the wali is ruised high enought.
the to op the frame
If you have only sond he top of the wall.


six parts rimeoran to one then mix into this five $t{ }_{i}$ inediately. If described have have. stone to lay
 enough to reach abo the centre tach abon oben the spinging with the presstre of the will. A A nice $A$..

 of this, then line offin in hoocks like syinare. stone.
got the proportions and method of huilding this whal from Professor E. W. Stevart, of New York When we built our barn, and t have supperittende

The Advantages of Concrete Walls.
BY W. A. Doyle, bevlah, man.
The advantage of concrete over the stone are :
1st. Its exeeeding cheapness, as where lime can be bought for 35 sents per bushell and gravel conafter allowing full wages for the farmer's time in teaming and building.
2nd. It is much dr
2nd. It is much drier, both in winter and sum-
warmer consequently more healthy. It is much mer, and consequently more healthy. It is much
warmer than frame, much cheaper, and it is good
for generations. When walls for generations. When walls dry, they become as
hard as ordinary masonry. If it is reguired harder, a small quantity of Portland cement can be
used, which can be procured from hardware and other dealers for 1 cent per pound, but it must be
used as mixed, or it will set so hard in a few minutes used as mixed, or it will set so hard in a few minutes
that it cannot, be handled or packed. [Usually sold in small barrels at from $\$ 3.50$ to $\$ 4.00$ each. - Editor.] In 1891 I built a concrete house, $21 \times 36$, with wing
$20 \times 21$, all 16 -feet walls, with three gables, cellar
$20 \times 24$, and furnace room 13x13, all 9 -feet walls. The 20west, and furnace room $13 x 13$, all 9 -feet walls. The
lowest tender to build in frame was $\$ 2,2000$. I determined to build concrete; hired two men, paying
one $\$ 1.75$ per day and the other $\$ 150$. They dug one $\$ 1.75$ per day and the other $\$ 150$. They dug
both cellars, dug and built the lime kiln, burned the
lime and built the walls, and all this cost me $\$ 17 \%, 50$. lime and built the wath, and all this cost me $\$ 172,50$. cut the wood for the kiln. Thus my time cost me
only 17 cents per buishel. I bought my flooring,
rough' lumber and shingles at Birtle, and inported rough lumber and shingles at Birtle, and inported paint; lathed and plastered and painted, finishing stone and teaming lumber. My cellar walls are two
feet thick and concrete, except two feet of stone feet thick and concrete, except two feet of stone
work at bottomi, done by ourselves, and hoouse walls
one foot thick. I have saved $\$ 700$; Thave ia house one foot thick. I have saved $\$ 700$; I have ic house
worth far more than a frame one which I can insure at a lower rate for all time
Mr. Doyle commends the use of stones in build-
ing concrete walls, thus effecting ai great saving of ing concrete walls, thus effecting a great saving of
the more costly material. On this point he says;-
"Having bedded the boxing ty pither "Having bedded the boxing by placing about three
inches of mortar in it, packing it down with iny inches of mortar in it, packing it down with any
broad hammer (a small stone hannmer will do), packing it firmly into all corners, if stone is to be
used, next set in the stone, tapping it or working it side of wall and in contact with best face to outstones, large or small, must be apart to ang. the
concrete to be packed between, thus filling up all concrete to be packed between, thus filling up al
spaces and obtaining ia yood bond. This use of
stones is not objectionable stones is not objectionable, ind a great saving of stones are selected with a good face and of varie-
gated colors, the effect on the flnish he wall wi very
pleasing and most persons prefer it to the wilmokpleasing, and most persons prefer it to the unbrok-
en dead-grey of the concrete. No stones over ter Inches in diameter should be used. Then fill up the
box with mortar, pushng and packing it with it box with mortar, pushmg and packing
small stik or lath all around the stones
cavities, and packing with the hammer.
Mr. Doyle also recommends several sets, of hox-
ing, which he construts as follows: Place the
boatds on edge, parallel to each other the en doards on efge, parallel to each other, the exact
distance apart as the wall is thick (saty one foot).
Nail pieces of lath across each board at Nail pieces of lath across each board at right angles,
allowing each end of lath to project two inches
beyond outside of box, thus: Cut lath cirhteen inches long. Use shingle nails to nail on lath, two
nails at each end. Nail a lath about three inche from each end and between those, like braces, were it rigid exacely one foot wide inside. Then turn
the box upside down and nail it similar set of lath braces on the other side. Next cut a lot of cleats
$1 \times 2 \times 10$ and gail with $2 t$-inch wire nails perpendicu larly on the outside of bosing and pojecting tw inches above, clinching the nails inside. These
cleatt will prevent the next row of boxing from ipreading. Nail cleats close tor cach cond of Tox on
 and

Rape as a Cleaning Crop and for Fattening Sheep.

My experience ithont both as a cleaning crop and for fattening sheep, has tell it to the world through the A constrained to cultivation necessary to secure advocate. The ple. The land plowed in the fall need not be touched luding that of turnips, is over. Apring soeding, inings and thorough pulverization by the use of roller
and harrows is all that is required. Sown in drills 24 to 30 inches apart, about two pounds of seed per acre, kept clean by the free use of the horse-hoe, the cleaning process is quite as effective as a sumin most cases, marvellous. It may be sown any time in June or Jurv. I think it a mistake to sow
earlier than June 25 th, as the fly is ant plants, and if it does get an early apt to take the
to witt and is is liable - in August. In clean land it spells we so often
udcast, but better in will do very well hawn bre. chould not be turned on it cultiva-
sown bit is
tion. tion. Stock
about 12 to 15 1.i. $\quad$. feed they make. Care is
stalks become the bettr. stalks become the bette-
necessary when stock is frsu. necessary when stock is frrsi.
should not be put on it while we for a few days, and a pasturte hom of bo
accessible; se that they mat have the rur on grass and rape for two or three weeks, when may safely be confined upon it. Sinvetintes bher
are considerable losses from stock becoming bhated or scoured, and I have known cases where the ears of sheep became swollen and they have lost part of
their ears, but in the last three years, with from
y have had no mishap, and my sheep have done wonderfully well on it. Last fall I had 25 Cotswold
ram lambs on rape that had never been fed any ram lambs on rape that had never been fed any-
thing since they were put on grass in spring, and,
on rape alone, many of them weigh from 150 to 175 lbs. each, and have backs as broad as a board. A good feature about rape is that its feeding quality
seems to improve with frost, and the sheep will
relish it and continue to improve on it right up to relish it and continue to improve on it right up to
winter, or until it is covered by snow. Young cat the also do well on it, but it is not well to let th
milking cows have it, as it taints the milk. In ad dition to its usefulness as a cleaning and feeding crop, it goes without saying that the feeding oo sheep upon the land makes a fine preparation for
future crops. With rape for the sheep, and fodder
corn for the cattle, we ought to keep twice as much corn for the cat le, we ought to keep twice as much
stock, and have them in twice as good condition as we find them throughout the country

QUESTIONS AND ANSWERS




## Veterinary Questions

 I had a five-year-old horse castrated late last hat not yet recovered seems to be a light scum
wer the eye. Three or four days after the operation a "ball" formed around his penis, two inches
from the point and larger on front side. This
"ball" prevents the peni way. The horse the in genis being drawn in all the kept in warm stable. 1st, What can I do for his
blindness: ?nd. What can I do with the growth
on penix:
A. B. NCRAE, Cannington Manor. If the blindnesis is due to the excessive hemmaralose comsentuent of castration, it consists of op nerve, a condition which
ponctimes disimpears as the system sometimes disappears as the system regains its
normal tone and strength. The blindness, how-
ever, is verv offen permanent Local of very little value, especially when the disease is of long standing, and if benefit can be derived from
ancelical treat inn it must he through the internal for a purgative hy feedingexclusively on bran mash for sixtern hours. and then give the following:-
Barbidees aloes, six drachns; calonel, one drachm ginger, two drachms; treade. sufficient to form a
Dailf. Continue the bran mash diet until the purgaWroning in unatol food: Sulphate of irom and nux ment for one week, stop for one week, and then re pat for one werk. This rout ine should be observe
until three weeks treatment has becu giver Th penis is partially paralysed, and the "hall;, that
has fomed pon it consistsof inflammatory effusion has formedupon it consist sof inflammatory effusion
Which has by this time become partly organized
This condition of the penis is often difficult succesfully: In some cases amputation of the



1. I have a colt rising two years old that has a bog spavin. Would you kindly inform me whether
it can be cured or not? If so, what will remove it Would you also be good enough to state whether plenty of exercise would be advisable when under
treatment? The colt is entire, and is yery livel 2. Would you also be kind enough to tell mively. good remedy to cool the blood of horses?
SUBSCRIBER
2. If there is no lameness in connection with the og spavin, the distended condition of the joint may pendent of inflammatory action. This condition is or crooked joints, and it is sometimes with coarse joints that are abnormally straight. When ned symptom of actual disease, the enlargement will ment) as the animal approach (withont medical treat colt is lame in the slightest degree, I would advise you to treat it as follows:-Cantharides, two drachms; hydrar biniodide, one and one-half
drachms; vaseline, two ounces closely from the parts ; rub all the above the hail well in with the hand; let it remain for forty-eight. hours; wash off, and apply lard or vaseline to the off, which will be in about two or three weeks. Keep the colt stabled while under treatment. 2. If your horses are in plethoric condition (full flesh), with a out of pimples or blotches on the skin, I would ad vise you to give to each a dose of purgative mediine, such as the following;-Barpadoes aloes, one oft so suinger, pulverized, two drachms; treacle or oft so surilith it will be necessary to pre oare the animul by feeding exclusively on bran maslr for at east sixteen hours, ard after giving the ball, coninue the sanpe diet uwtil the medicine has cea sed to soperating. The purgative inay be followed by iving in a mash, every night for one week, $t w a s$
raxhitus nitrate of potass. raditis nitrate of potass.
Can yot or any of your readers enlighten your
ubscribers as to the best means to be used with cows slipping their talf-bed after calving, and what reatment, if any, tóyprevent a recurrence of it in
future? If inversion of the wothy is complete, admal the
foetal membranes (cleaningst mee firmly adherent, and the cow is in a recumbert position, place a bed sheet, or any other suitable piece of cotton cloth, below the nerred mass, and then remove To do this properly often requires the esercise of a good deal of patience, as the membranes a pe usually quite flrmly attached to the cotyledons of. th iable to materlally injure the parts. When the "cleanings" arts removed, cleanse the womb wwll with tepid water: bat if the weather is warm aid When the womb is thoroughly cleansed from al extraneous substances, an astringent and soothing
lotion, such as the following, if at hand, should be applied to it:-Sillphate of zinc, one ounce; tincture of opium, two ounces; water, one quart. The work
of returning the wombly shold now commence, and if the animat ean be made to stand, the task will be
much more easily acconinlished. If it is very weak much more easily acconinlished. If it is very weak
and not feverish, a good stintwiant may be given
with the view to enabling it to ret up. The lying with the view to enabling it to s set up. The lying
position is to be, if possible, avo ded, and exery easonable means should be used to raise the animal refuses to stitnd, then it must be placed in as favorable aposition as possible for the success ful per should be raised as much as possible hy placing ings containing straw under them, and it is sometim ${ }^{3 / 3}$ very advantageous to turn the snimal on its back with the croup raised as high as expediency shall
direct. If the standing position is maintained two assistants, one at each end of the sheet, will, sup-
port the womb, a third, if available, will hold back port the womb, a third, if available, will hold back
the tail, and a fourth will be required at the head where he will seize the nose with one hand and a n a level with the passage, and the sperator sthould hands, the parts nearest the vulva, (shaytu') Whem wwo-thirds of the mass has been conveyed mation the pelvic cavity by manipulating in this mannes, the
closed fist should be applied to the end closed fist should be applied to the end ol whe
womb, when, by steady but not too violevit pressure, the reduction of the remaining portion is generally easily effected. After making sure that position, withdraw the arm and apply a truss, 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 very efficient truss is made as follows:-Take two
pieces of five-eighth rope, frome 12 to $1 \pm$ feet long ouble each piece and intertwine the doubles
making at least two turns on each side, which will form a loop or oval space which is to be applied so
that it will compress the external lips of the vagina vulva) and at the same time permit the free disof the ropes are passed along the back and fastened those of the other rope are passed between the
thighs on eacloside of the udd helly and tied to the Iower part, of the collar. These
ropes are interlaced with other two pieces of rope,
one round the body just in front of the udder, and
the other round the chest inmediately behind the tour mare a dose of purgative medicine,
shoulders. The The truss sho shoulders. The truss should be applied for at least stand with its hind and parts considerably higher than its fore parts. If violent expulsive efforts continue quart; tincture of opium, three ouncesed flide oil, one of belladonna, three drachms; feed on sloppy and easily digested food. Various causes have been are lymphatic temperament, debilitated which from disease or insufficient food, prolonged and difficult parturition, retention of the after-birth ligaments, weak and flaccid condition of the neck of the womb, predisposition, and anything that will unduly irritate the womb during or soon after par-
turition. It will be seen from which are said to operate in the production canses accident that it is very difficult to recommend a preventive, and the only thing that can be done will be to remove or avoid, as far as possible, the causes
mentioned. In all cases of inversion of the womb mentioned. In al a cases of inversion of the womb
tho services of a
should employed. I have a valuable 1,500 popound mare, heavy in
foal. I drove her to town lately and noticed her slightly lame on tigy down at hill, the snow being
very deep. It is gigh hind for very deep. It is nigh hind foot. I can find no
tenderess $i$ the sole of her foot. I p pared no poultices it for two sor or hree daot. I pared and
good, and hammered it all oyer, with did no good, and hammered it all over, with a small
hammer. The only phace she feels pain is right
above the no swelling about the leg or foot, unless where the pain is at the coronet. It looks but whery the litle
larger than the other foot, and for the last two arger than the other foot, and for the last two weeks have used Clark's White Liniment, but she
is still very lame, although I think a little better
than he was. Will ido than she was. Will it do her any harm standing so
long in the stable without exercise as he is long in the stable without exercise, as she shis in
good condition and heavy in foal?
Would like nan
know what your ve. S. thinks is the could like to
lamenss and what can be done for it the ameness and what can be done for it.
WM. GIBSON, Wolsele
Is think from your description of the case that it stance), probably caused by af the coronary sub-
stan or otherwise ruised. The treatment will consist of cutting away the hoof from the coronet at the point where the purpose of relieving the part from the pressure
of the hoof. In addition to this, cut the hajir of the hoor. In addition to this, cut the hair closely
from the sore part, and rub in with the find following ointment:-Cantharides, pulv., and biniodide of merrury, of each one drachm; vaseline, one and a-half ounce. Mix ; let it remain for
forty-eight hours, washoof and apply vaseline or lard. Put the animal, If possible, in a comfortable and roomy loose box. It will, however, be necessary
to keep her mouth from the blister while it is acting, to 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 symptoms:-The calf lies downg not to rise symptoms:- The calf ines down, not to rise again,
due extreme weaknoss in the legs; although it
does not seem to does not seem to make them suffer, they never-
theless die inside of a couple of days., It-might be
due due to the cold, also bad grub and the want of water and first-class hay, and my actutle are call in
the best possible condition, hut the best possible condition, but to my utmost down, run ave sump, being fun hour of before lving
inside of a couple of days die as if it , ind were due to pore exhaustion. Quite a number of farmers have only to affect young cattle, generally those which are strong and well fed. I will feel greatly obliged for an answer to my inquiries, either in French or
English, as I read both languages. Your description of the disease is not sufficiently extensive to warrant me in givingen a decided opinionty
as to its nature. It is probably anthrax chan as to its nature. It is probably anthrax (charbon)
and if you lose another animal in the same war would dvvise you to have the carcass examined by
a qualified person. Could you answer throurg your valuable paper
what effect blindingwould be iikely to have on the temper of a vicious, unmanageable stallion : would
alsos like to know if any electrical appliance is made
for for use in taming animals? " EquITEs," Dewdney, Alberta. IWe would advise you to procure "Art of Taun,
ing and Educating the Horse," by D. Magaer. The tion contains the latest and most tion on the subject of your enquiry, and may he
ordered through Willianson \& Co., No. 5 King
street W., Toronto. Price

inswered by d h teyeve
 and on lips. Rubs her tail and hin ins on side of of onstrile Has noops. Rubs her tail and hips on sides of stall.
Hole and is in fair condition. Fed during the vinter on two tuarts oats twice a day and all
the oat striw she would eat. Also have a thorourh. the oat striaw she would eat. Also have a thorough-
bred Yorkshire boar which I want to castrate. Is

composed of Barbadoes aloes, six drachms; $;$ ginger,
wo drachms ; carbonate of soda two water, one pint. Give this as a drench. Follow up this treatment by giving every night in the feed one drachm saltpetre and two drachms sulphur Bathe the ulcers night and morning with wash composed of the following:-Alum, two drachms ; two drachms : water, ten ounces. We could no recommend the administration of chloroform to the boar, as he would have to be thrown and tied before
being chloroformed have the operation performed long before the drug had taken effect.

1. Can you inform me of the best way to remove a new frog in the foot of a horse which $h$ to grow
and thrush? ?
no the foot of a horse which has had th
SUBCRIBER. 1. It can be operated on safely and successfully
by any skilful veterinary surgeo by any skilful veterinary surgeon. We would ad
vise having the animal cast, and return the bowel take the skin well up and apply a strong wooden clamp right over it, taking care not to encase the borel in the clamp. Leave the clamp on until it
drops off with the skin commend passing skewers through the skin in place
of the clamp, and pass a stron twine of the clamp, and pass a strong twine tightly over
the skewer in the shape of a figure eight; allow it to remain on until it drops off. Others reconmend purkering up the skin, drawing well up, and tie at
strong twine tighty around it. In this case, it would be necessary to prass one skewer through it o keep the ligature from slipping off. Others rescarify the abdominal through the skinn expose and gether by means of sutures. This is the mosts surgical way. We would recommend one of the
simpler ways. 2 . Mix equal parts of pine tar and impler ways. 2. Mix equal parts of pine tar and
lard hy warming over the stove and stirring thor-
oughly. oughly. Apply to the foot every night.

I have a cow four years old. Last fall I noticed
a small lump come in her teat. It got larger till I could not get any milk, and she vent dry. This but I could not get any milk out of the teat with the lump in, so 1 punched it with a small needle.
got some milk for a few days, but it close and I can't get any milk atall. Also a two-year-old heifer which has gone just the same way and has
gone dry. What is the cause, and what is the cure, if any? Wm. C. Watson. We cannot advise anything better than leavin worse, and the cow will give nearly as much milt out of the three teats as she did before. In case much soreness or inflammation, foment with ho water and apply lard. Try rubbing on a liniment mottle and add as much sum camphor alcohol in sorb; then add one part common turpentine to
three of this mixture.

I have a two-year-old heifer of Holstein breed which calved February; had twins., Have noticed lying 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-t with a hot iron or using Some recommend searing hands of any lut an experienced person it is as
liable to make the opening larger as otherwise liable to make the opening larger as otherwise. $\Delta s$
the heifer gets older and stronger, the weakness he 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 vertlict in favol of the ehain ast being more convenient and giving
the animal more freedom,
Suppose I build a sil
Suppose I build a silo and fill it (say) four feet
eep about the 1st of June with rye , and four feet deep at the 1st of July with with ryeve, and four feet
aboud fill the bal
ance the ance the latter part of August with corn, and cover
each part with cut straw, will it give as good satisfaction as if it was all filled it the same times
R. H. H. Thorndale.

ANSWER by Prof. JAS. W. Robertson. 1. There would not be enough weight in rye en-
ilage of a depth of four feet to nitage of a depth of four feet to make it compact
vithout the application of heavy weightingor ther pressure. If it lay loose it would become nouldy or musty, and be partly or wholly spoiled.
2. The same applies to clover.
3. The riske of loss would ber reduced to a minimum by putting the rye and clover into the simio
while-tuite green and without ant wilting. The


## DAIRY.

## Canadian Cows at Chicago.

## To the Eaitor of the Farmer's ADVocate.

Thinking your readers would be interested in our dairy exhibit, I send you the results of the last
three days'dairy testat the hree days'dairy test at the barns. Your readers will
be aware that Ontario has sent five Shorthorn cows to take part in the battle of the breeds in these great lests. The tirst, which commences on Thurssay, May the 1ith, is for making cheese. Unfortunately two
of ourcows, Fair Maid of Hullett, owned by Mr Who Gf our cows, Fair Naid of Hullett, owned by Mr:Wm. 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 hee three tests and date. the rules for carried out this would prevent them coming in for the second test of butter and general prodicts, but
fortunately at a meeting of the Dairy Test tee this morning, which II attended, having been in
thet ing of the Dair Test Commit vited by the Hon. H. H. Hinds, Shorthorn Dairy ComMissioner, they changed the rules so as to admit the same circumstances. This is concession, and I am sure will be appreciated by our Canadian people. This committee was attend-
ed ly W. I. Buchanan, Chairman; Prof Prof. Scovell, Val. E Fuller, Supt of Jerseat anch, W. Caldwell, supt. of Guernsey, and H. H. Hinds,
Supt. of Shorthor Supt. of Shorthorn cattle.
milking for the last three dhree cows that are Waterloo Daisy owned by F. Martindale, of York on the 6th gave 493 lhs. of milik, on the 7 th 5 , 1 lbs., and
an the $8 t h$ 51 the barn; Royal Duchess, owned by J. F. Davis,
an the Glanworth, on the 6 th gave 41 lbs.. on the 7 th 41 lbs. and on the 8th t2 libs. of milk; Marchioness 6th,
owned by Thos. Ballantyneat Sol of Stratfor own
the 6 th gave 35 ibs., on the 7 th $391 \mathrm{bs}$. , and on the 8 th 4 to bs. of milk, ali averaging over, 4 per cent. of butter fat. They are all improving, though they
get nothing but dry feel ind get nothing but, dry feed and grain. D. S. H. B. A Chicago, III., May 9th.
Canadian Dairy Products for the World's Columbian Exposition.

$$
\text { Ottawa, 28th Aprill, } 1893 .
$$

1 have been directed by the Honorable the is may be neecessary to assist the darrangements Sominion to make a truly representative and World's Columbian of butposter and cheese at the The following extracts from the rules of the De artment of Agriculture of the World's Columbian exposition set forth the particulars in reference to he classes for Butter and Cheese.
Canadians may be exhibitors
them. butter.
extracts from the rules of the department "11. Dairy products will be received for exhi-
ition only between the first and tenth of the fol owing months: June, July, Septemberand ©etober
" 12 . The arrangement of all dairy exhibits will
 Timiten, as follows:
Class 1. Dairy, - butter made by exhibitur on the
farm from a mixed herd. Exhibit to consist of not more than one package.
weight to be not less than 10 nor more weight to be not less than 10 nor more
than 20 pounds.
Olass 2. Dairy,-butter mad farm from a herd of me me lreect. Exhibit Weonsist of not more than one package,
weight to be not less than 10 nor more
han 20) pounds.
ints anu f funcy packages, butter must
be manufactured by exhibitor. Exhilit woccupy samece note exceeding. Exhinhit
Class 4. Crixcimeery, 20 pounds.
rom the milk of mile ity the exhibitor
reaml sepurate reanery where the butter is in the xhintit to conse the of one commerciai parkage, to weigh not less than 55 Class 5. (iscmoryy, intter made by exhibitor ist of one commercial package to weigh
 mints, the figures set opposite indicating the maxi-
murn per cent., he total of all such maximums be-
ink $l(1)$ :

| Flavor. |
| :---: |
| Grain. |

Salting,
Packing


THE FARMER'S ADVOCATE
May 15, 1893

Special blanks will be furnished by this Depart-
ment for the use of exhibitors of dairy products." cheese.
extract from the rules of the bepartment - 1t. Exhibits of sheese from the United States $\xrightarrow[\substack{\text { and } \\ \text { follows } \\ \text { Class 1. }}]{ }$
Class 1.- Cheddars-Exhibit to consist of one cheese diameter not less than 1 nor
nure than le inches, height not less
than 9 inches, weight to be not less Class 2. Chedldars-ima Cheddars-1mene trade Exhibit to con-
sist ofone cheese not less than 6 inches
in height and not less than 12 nor more
Oluss 3. Mcdirns Whit torsis
not less than 6 nor more than 7 tinches in heisht, diamemer not less than it nor Class t. Fhuts $s-$ Exhibit to consis diameter not toess thansist of on one chesese
16 nor inches, weitht than 16 inches, weight not less than 23 nor
Class 5. Young Americas-Exhibit four cheese in one package, totans weight to be not less than 30 nor more than Class 6. Domestic $\begin{gathered}\text { pounds. }\end{gathered}$ Class 7. Brick Chid.
briek Cheese-Exhibit to consist of six
bricks in one packare total weight
to bricks in one package, total weight
be not less than 20 nor more than +1 Class 8. Dairy-Ch
farrm froese made by exhihitor on the
faxibitor's own herd
owhit Exhibit to consist of one cheese, weigh
to be not less than Class 9. Pineeapple Clieese - Exhibit to to consist of "15. Cheddars and flats will eack he he two groups, wiz, white and colored, and wind be bex separately judged. Oheese, other than that
mentioned above, offered for exhibit from the United States and Canada, and all cheese offeree
for exhibit from points outside of the United State ford exhibit froum pointe outside of the U nited States
and Canala, will be subject to such limititations and restrictions as to quality as may be decided upon-
by the Chief of the Department at the tinue application for space is mate.
"16. All cheese exhibited from the United Stateen
and Canadla, known commercially as "Americren", and Canada, known commercially as "A Americun",
and "Canadiun" cheese, must be manufactured of full "new milk.
" 17 . Chese that has been cut, bored, or tried
any. way, will not e e admitted for exxibibiton. that made previous to the year 1893, and that made during the year 1183 , and will be judged on the
following points the figues following points, the figures set opposite each
indicating the maxinumu per cent., the total of all
such maximums heing such maximums being low:


 chesese. alll cheese will bee divided into two main



Canalians should make excellent exhilits in all
 lowing announceinentsind to invite the hearty cor
 tention of the world, in a favorable manner. to the
adminirable opportumities which Canalda offers for (rrofitahle diaity farming to exhibit may write







(4.) It should be packed securely so as to avoi
injury from heatd uring transit from the place
ujany manufacture to Montreal or Ingersoll, Ont. Cold these two places; refrigerator cars will be used between these placesand Chicago: and refriverator
space under glass has been provided at the Dairy space under Glass has been provided
Building on the Exhibition Grounds.
(5.) The Dominion (Government
(j.) The Dominion Governument. will pay all
freight charges, as well as the cost of caring for the freitgt charges, as well as the cost of caring for the
butter and cheese during the exhibition and until it
it is disposed of afterwards.
Minister of Agriculture. 1 an the permitted to state may be fixed by the Dairy Commissioner, on all the but ter and cheese which is recei ved at Montreal and Ingersoll.
(7.) Sev
reputation in Ontario jund Quebee of ave acknow lectge to assist the Dairy Commissioner in selecting from
the lots which are received at yentrei The lots which are receive a mon be counted
Ingersol, such butter and chese as mhe be
worthy Worthy of being sent to Chicayo. Where any doubt
arises, the butter or cheese will receive the benefit of the, doubt. in each of the four mouths, the butter or theese
which has won medals, or hon orable mention, will be Which has in won medals, or hourorable mention will
araned
ac
 he dairy and general agricultural interests of the several Provinces of Canada.
The several exhibitors will be afforled every
 any loss, as the Government will not claim any re
bate on the price which is advanced on the butte bate on the price which is advanced on the butte
and cheese. This provides for liberal treatuent of and cheese. This provides for liberat treatenent or
those ensaged in the great dairy industry of Canada, and I invite your corrial co-operation in the effort
to make the Canalian exhbibition of butter and heese the lest which has ever been made.
JAs. WW. Robertsov, Dairy Commis
Rendering Cheese Factory Accounts by Percentages of Butterfat in Milk.
entages of Butterfat in $M$
WHEATO, SECRETARY OF THE
DAIRYMEES ASSOCITTIO:
In a large number of the cheese factories in
Western Ontario patrons will be paid for milk supWestern Ontario patrons will be paid for milk sup--
plied according to the percentage of butterfat, as pheonn by the Babocock pirile tester.e. There seems.m to
she considerable difficulty in the minds of many he considerabie difficulty in the mindse of many
dairymen as to how the dividendsare toleapportiondairymen as to how the divividendsal
ed according to this new nethod.
The test is mad once a week
is taken from each patron's can every morning, and showing the percentage of butterfat in each sample.
The was and The maner of rendering the patronss accommt, is
comparatively simple and the calculations straight.
cole comparatively simple and the calculations straight
forvard, ind though more figuriug is required, yet;
if the same care in ward, and hough more figuring is required, yet,
it the sane care and acuracis shownthere is no
more liability of making a mistake under the new
the than under the old method
Find the aumount of milk
for the week and mult mitiply supplied thy by the perch patron

 Of Nutterfat, and the ressult will be the total butter-
fat suyp)ied by ach patron for the month, and the
sium of these wat sum on these monthy thetals will be the total butter-
fat erecered at the factory during the month.
Divide the net pt tho Divide the net proceced from monthly saleso of cheese. less cost of 11anuffacturing hy the monthly total of
butterfat, ind the result will be the price of the butterfat per pound for the month when the amount due
anch patron cain eansily be calculated ly multiply ving



 $30.15=120$ pounds If the quantity of chesese made
luring the week bee 327 pounds, and it sells for nine

 The monthly total of bute frat mat alser be, al-
culated by multiplying the mont thly woutal of milk






difficulty 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 received at the factory by the monthly total of
chesese manufactured, and the result will be the anount of butterfat in a pound of cheese. Then, the price of the butterfat per pound to stockholders
and nonstockholders respectively may easily bie and non-stochoiders respectively may easily be
othanind cy diving the net price of chese per
pound, less cost of manufacturing in each case, by pound, less cost of mantatacturing in each case, by
the pooums of butterata tin a pound of cheese. For exauple, if the stockholders are chargeed one and
x-half cents per pound for manufacturing cheese. und the non-stockholders two cents, and if the

 cense would be boud be the wholesale price of the cheese, ents per pour price of cheese to stock holders would
then the net
he $10.5-1.5=9$ c., and their butterfat would be worth


 given, the rendering of patrons' accounts may be made without any great difficulty, and if the secrel
aries are fairly well versed in figures, and are at all iccurate- each patron may rely on getting just
value for the milk supplied by him to his cheese factory Both cheesemakers and secretaries are their endeavers to make the test and to make up up patron at the end of the season will have no grievances against this new method of paying for
华ilk because of errors and mistakes on the part of


## Queries Regarding Paying According to Test

 at Cheese Factories.The three following questionk have been sent to Che Dairy Department at the College for our opinion,
and as they are such as will likely come up in, number of fartories which will for for milk according theopinions centivento fat, we take pleasure in sending readers may possibly be profted. The first came from
a proprietor of two factories in Wester Ont ${ }_{1}$ a At our ammul cheese mestern Ontario. 1. At aur annual cheese meeting one of the home and sent the, cream of it to the factory with
the rest of his milk, did it the rest of his milk, did it make any difference to
the rest of the patrons that were sending? Was it the rest of the patrons that were sending' Was it
cheating himself or the other patrons by him send-
ing the creame of that ing the cream of that pool and keeping the skim
milk at home, as he could feed it to calves and hoys: mik at home, ashe could feed it to calves and hogs?
1 would he pleased if yon would answer the ruestion for me, as 1 eneaseding youl would answer the question
fot both my factories to pay according to butterfat At the one factory in the province whe
 home the . fore", milk, and sone, patrons kept and
skimmed and sent the creame Now is und erstand skimmed and sent the creaul. Now, is this fair and
just to all patrons: is a question that has come up
at just to all patrons' is a question that has come up
at several of the annual chese meetings. Again,
mider the presen tuder the present laws could persons so keeping
back "fore" milk or skin milk lue prosecuted for fraud My answer to the first question is, Ao ot o
the second, Yes. My reasons for the same are:
First First Question- Muppose a patron has 2n0 pounds Now, suppose further that he skims the evening's
milk, which quality ach hise will say is 1001 pounds of the same of monds of cream and mixes this with the takes off 20 millorning's milk and feeds the so pounds of skim mid mornings milk would test pounds of cream
 separator). which would we 6 pounds of fat- the
sillne as if he had sent the eno
 skim nilk to feod. In other words, by paying
according to test he would yet just as much pay for



 skim milk, which cascein or cheesemaking material








 Mo to inlpe tron the Art tor rov ide aranant


## FAMILY CIRCLE．

THE STORY．

## Betsey Somerset．

It was eight oclock at night，and still the white linen











 $\underset{\substack{\text { Hnt } \\ \text { ner not } \\ \text { not }}}{ }$








 sititn








 Hestrone





in abop，tan han













 ond






























 and Muther whit bunalai



















年为 aipmon wis

THE QUIET HOUR
To Myself Let nothing make thee sad or fretful，
Or too regretful； What God hathorordilered must be right
Then find it in thinewn orelight，
My will． Why should＇st thou fill to－day with sorrow
About to－morrow，
 Only hos teathast neorer wave


Blending Atmospheres
Looking out upon the landscape from the upper how the earth and the sky are always trying to blend with each other．They are like lovers who
cannot stay apart．The breath of the valleys cannot stay apart．The breath of the valleys
ascends in a soft mist that creeps np，up to the highest mountain ranges，and gradualy shapes
itself into clouds，or it lies in long，clinging bands tike islands in an ethereal sea their summits appear the clouds above and the mists below with one loveliness of color，and the wind weaves them ogether so delicately that you cannot tell which gradually vanish；river and valley and mountain and mist intermingle and are fused in a glory behind and above them all，and greater than their the visible and the unseen，the new hearriage of the new earth，the bride＂descending out of heaven And when it all fades away God．
out of the purple deeps above，the feeling come human nearness to the infinite is intensified．In the loneliness of night on the mountain－top we
comprehend something of our relationship to those 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 naterial as our own ；as they shine for us，so we shine for them．We are one body and soul
with them．The ether that throbs bot to separate，while it really unites us． to separate，while it really unites us．Every
particle of this solid world thus becomes luminous every pebble that we heedlessly tread upon is
precious，for it is of the very substance of the stars The soul of the star is its light that flows through that light of all living light is Love；and love
cannot be without a Being who loves；God the heart of all beings and of all things，seeking to oring them into unity with each other，the unity ne in Him，and refuse to be put asunder．
Since we，too，can love，we know that God in some more vital way than rocks or trees，or than our own bodies．But Love has no contempts．
She sees all things in God，and she feels the throbbing of her own heart，the Life of God in her
life，beating esteemed the meanest of His works．
And Love continually hears a sound as of human tangled and neglected wastes，which，to from Cars，are buried in savage silence．The earthly palpitates with a dim consciousness of its heavenly
affinities and possibilities，which will sometine
he realize affinities an
be realized．
The mute
The mute eloquence of Nature around us is often most pathetic－the beauty that is everywhere
taking crude shapes，trying to find expression Sometimes this pathos is made audible to us through sweet，half－developed voices．Waters nurmurewinds whisper and moan，grass and
lolossomiand leafy bough sigh back to each other，
like children who cannot tell what they want like children who cannot tell what they want．The
dumb rock tries to write out its messages with hieroglyphic lichens．Sea－monss and fern conceal
nystical secrets beneath their spreading frouds The lowest forms of matters overfoow with sig－
nificance．Even the slimy ooze of the lake and purity within them which nurseld an essence of the lily and kindles the sparkle of the diamond．
tothing is so dead that it dite of
the Nothing is so dead that it does not seek utter－ ance that it does not strive to blend itself with
some unattainable perfection above itself．The
silence of Nature is an unuttered prayer for release for reunion with her source．
For Nature is not yet released from bondage，nor
can she be while we An she be while we permit ourselves to be bond－
alaves to her．We，whose birthright is the liberty othe children of（God，desire a King for ourselves insist that Earth shall be our sovereign instead of Hill with her in unnatural fetters，and so turning her palaces into dungeons．No wonder that the

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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 it becomes the duty of every housekeeper to aid the higher authorities in their efforts to prevent it invading our healthy and happy Dominion. As it is one of the epidemics generated by filth, our own homes should undergo a thorough cleansing and purifying
inside and outside. Our wells of drink should be emptied and cleaned, and the wround surrounding them kept free from any matter that might contaminate the water. Ducks and fowls should not be allowed to dabble near them, no cattle watered just in the vicinity ; the slop-hole, or spot where dish-water and suds have been poured, should be allowed to dry, covered with dirty water can be poured around fruit trees the growing plants, where the sun will quickly dispel anything that 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 boiling lye often, as winks should be scalded with boiling lye often, as wood ashes are plentiful in all should be poured down them liberally at leasteras, a week. Common salt is good if there is nothing else to be had. Now a word as regards the care of he outer and inner man. Serve no raw fruit are sweet and serve only your bread and butter 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
from the brook. Be particular to cook all cereal whe as oatmeal, cornmeal, rice and such like, as well as vegetables, well and thoroughly. Avoid by frequent hot baths, with Keep the person olean extra care that you do not get a chill by sitting in the dew or rain. Keep the feet dry, and avoid timulats such as beer, wine or spirits, and do not hat we can apply as our share of the prevenutions he cholera, which always brings such terror in its
rain. The advantages country girls have over city girlse are many and country great. The have over country girl has
pure air, exercise and good food, the essential pure air, exercise and good food, the essential
elements to constitute a foundation for the wear and tear of life. The country girl's first lessons ducational 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 currert
events as any city girl. She has far more time to cultivate her tastes, and not so many temptations

## How to Clean Dresses.

Get five cents worth soapbark from the druggist (about a teacupful). For one dress take half of it about half an hour or more, then straing water for

For a silk dress, while the liquid is warm, take a piece of white flannel and dip into it at intervals, When done, pull the material straight and hang it to dry. 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 woolen dress, dip the part to be cleansed,
or the whole of it if needed, into the liquor. This can be rinsed in the same after washing, or in clean in a tub in the liquor with more water added before cleansing or washing. The woolen goods should be pressed until it is quite dry.
cleanse delicate-colored woolen or worsted goods The dress should be wet all over. Use no soan.
Rinse in clear, warm water. Press while still Rinse in clear, warm water. Press while still
damp. This will not injure the most delicate colors. -American Cultivator.
Mrs. Snooper-""That is a queer name the cook
has for her beau." Mr. Snooper-" What is it ?"
Mrs. S. "Copper Mine."
Mr. S.-"He's a policeman, I suppose Monsignor Capel was"asked what struck him
most forcibly in America, and he replied, "The most forcibly in America, and he replied, "The He says that while in Baltimore the Archbishop
asked him to call on a lady. While making the akked him to call on a lady. While making the
sisit a boy, aged four years, came into the room and
his visit a boy, aged
his mother said :
"My son, speak to the Archbishop."
He obeyed readily, and holding ou
‘How do, Arch ?"

GOING!


GOING!


GONE III


Pawnbroker's Three Balls.
This sign-was taken from that of the tevian first to open loan shops in England. The greatest of the Lombards were the celebrated and princely house of the Nedici of Florence. They loved gilded virgin, from which they derived the name of Medicl. Whence their agents in England and
other countries placed their armorial hearings over other countries placed their armorial bear
their door, and others adopted their sign. ambiguóus.
She--How was your speech at the club received He other night?
Hhe d d ing I sawn they said it was the best
ther did.-Life. meant all right.
The Rev. Silas Sophtey-Ah, Thomas, that man
tried to take me in about that wretched screw of a horse, but I'm not such a fool ws I lood screw of a Thomas (the groom)-Noa, sir, that ye're not. The Rev. Silas-Eh, what?
Thomas-Beg pardon, sir, I mean, ye're hadn't -
Englishman contradictios.
ion."
I vill take a drop of
Englishman
you mean ${ }^{\text {! }}$
French
Contradic-
Frenchman "Vell, you put in ze whiskey to to make it sour and ze sugar to make it sweet. Den you
yourself!"
Lawyer (to Irishman recently injured in a rail-
way accident)." Why don't you sue the company for damages,
Mr. O'Shaughessy (indignantly) "Damages,
ondade! An' hain't had enough of thim entoirely? It's the repairs I'd be afther now." Member of Committee at "hurch Fair "How much have we taken in to-night?"
Another Member "Five hundred dollars, at Bystander (mournfuly) - "And all the people."

A Few Remarks on Cooking.
by flossie graham.
It may not be considered out of place to make a
few remarks on the art, as also on the principles of cookeng is not only an art but a scies know how to cook economically is an art. Making money is an art. Saving money is an art. Now,
there may be a lot of money made and lost in a kitchen. Does not many a hard workingman have kitchen. Does not mance wasted in the kitchen? Does no
his substanifless man have his suibstand
many a shifte many a shiftless man have his subbstance 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 tha 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 not
need. Prodigality and idleness constitute a crime need. Prodigality and idleness constitute a crime against humanity, but frugality and industry, com-
bined with moral virtue and intelligence, will insur individul happiness and national prosperity Economy is an institute of nature, and enforced by Bible precept: "Gather up the fragments, that
nothing be lost." Saving is a more difficult art than earning. Some people put dimes into pies and pud dings where others only put in cents. The cen dishes are the most healthy. Almost any woman
can cook well if she have plenty with which to it. But the real science of cooking is to be able to cook a good meal or dish with but little out o
which to make it. As to the principles of cooking 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 the fire we cannot hasten the cooking of meat, potatoes, etc., one moment. A brisk boil is suf
ficent, when meat is to be boiled for eating ; put it into boiling water at the beginning-by doing so it juices are preserve. But if you wish to extract the juices for soup or broth, put the meat in small pieces
into cold water and let it simmer slowly. The same principle holds good in baking; also make the saven the right heat and give it time to bake through, is
the true plan. If we attempt to hurry it we only the true plan. If we attempt to hurry it we only
burn instead of cooking it done.

If you attempt the boiling to hurry
But in atoompting the baking to hurry,
The food, as well, isn't fit to be tasted

## Recipes.

## cailves' liver

Have cut from a very fresh calf's liver as many slices as you will require, have them very thin; when ready to use.cover them with boiling water, let them
stand five minutes, dredge thickly with flour, then dust with salt and pepper. Put a tablespoonful of
butter into the frying-pan, 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
twe tablespeonfuls of stock, cover the dish and allow it to simmer for about five minutes. Serve at once it to simm
from dish.
baked custard.
Beat four eggs without separating, add four of milk; stir until the sugar is dissolved ; turn into a baking pan, sprinkte a ittte grated nutmeg over he top, stand this in a pan of water and bake in a in the centre and it will come out perfectly clean. The watery, spongy condition comes from its being At first the spoon handle will come out milky but just as soon as it comes out clean take it from the ven. There is more danger of overbaking than EMPRESS PUDDING.
Boil a cup of rice in milk until it is very soft,
then add two tablespoonfuls of butter, and hoil a few minutes longer. Set aside to cool. Beat three 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 a moderate oven about three-quarters of an hour.
Serve either hot or cold, but if cold pour a boiled Serve either hot
custard over it.

## Fashion Notes.

The long Empire coat is fashionable for walking or driving and will also be utilized during summer 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
luggage to avoid trouble, and an uncrushable silk luggage to avoid trouble, and an uncrushable silk
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 are all used. Sleeves are
shown in a score of styles-all large-some large shown in a score
only to the elbow.
The styles of bonnets are bewildering, from th dainty straw to the flimsy lace, gorgeous with flowers, Alsatian hows, ribbons of all widths and
fancy gimps. There are styles for all sorts and fancy gimps. There are styles for all sorts an
shapes of faces, cheap, middling and dear. The blouse holds its own as a
and cheap garment, and they are made from the most costly silk, as well as the cheapest print.
They are useful to wear out a skirt, the bodice of
which is no longer passable.

UNCLE TOM'S DEPARTMENT

## Opportunity.

 We used to go, a lot, of us together, And I would tole her off from all the others -She liked me, cause, she said, she . had no brother
Ialways meant to speak, but, my good gracious!

 That's w
It takes
Shed sal
The flat The fialit
Istood it
We never
Till May So I made
Iput itstro
As. May pi
ITm prom "I'm prom
Ithought
And
A I'm
Ineth



Iseemed to see a thousand miles a minute.
MY head felt just tike freand ice wer in
If Ta spoke so four years ago ? 1 I shouted.
She smiled upin my
And looked off, sort
in
She smiled
And looked
"I s'pose,"
Overwork.
by A. m. c.
"Up with the birds in the early morning, And beautifut tints in the sky are dawning,
But she' inever a moment to look at them,
The men are wanting their breakfast early, The men are wanting their breakfast early,
She must not linger, hie must on wait,
For words that are sharp and looks that are surly
Are what the men give when the meals are late.








Thor don ontay that ha oiol widit her


Her boys at school must look like others,
She seys, as he mend their troks and hose
For the world is ouick to censure mothers

For the least neglector their chilorenb
Hor husband comes from the field of labor,
He gives no praise to his weary wife--
He gives no praise to his weary wife-
Shes ione no orore than has her neighbor,
hTi sithe lot of all in country life.,
-
The above poem by Ella Wheeler Wilcox gives
faithful 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 Talmage, worked to death. "Overwork," says Talmage,
"is glorious when it's for one's friends or one's "is glorious when trys." Perhaps! But I never saw any sense, country. Perhaps! in the overwork which is not absolutely necessary, which rohs life of half its pleasure for the benefit(?) of those who could dispense with the sacrifice. Overwork shuts us
deature, swallows the out from the beauties of nature, swallows the
time we should have for physical rest and mental time we should have for physical rest and mental
improvement, till the temper is soured, the constiimprovement, tured, our enjoyment of life gone. tution shattered, our enjoyment of life gone. "it destroys style, grace, harmony, everything." There is an illustration of this in our neighborhood. A certain man and wife, well-oft,
comfortable circumstances, are pinching, toiling
early and late, to lay up somethin' for the young early and late, to lay up somethin' for the young
uns'. The husband is not strong, yet he works out uns'. The husband is not strong, yet he works out The wife cooks, washes, makes and mends for a young family, attends to a lot of cows and man-
ages a garden. There is no time to rest ; no time ages a gatien. There in montal Such creatures are not so much men and women as money-making machines. In direct contrast to this sort of
existence, is the life of another country woman, existence, is the life of another country woman, poorhans' 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 is getting a training that will enable her to manage a house of 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 train her children, to teach and exemplify the
truth that "a man's life consisteth not in the truth that "a mans life consisteth not in the is the better life?

PLCHARADE.
$\begin{aligned} & \text { Little bits of poetry, little bitit of vim, } \\ & \text { Make the pozers'corner look so neat and trim. }\end{aligned}$ Little bits of nonsense, turned into rhyme,
Give us all the jim-jams, Little bits of leisure, taken up this way,
Keep us out of mischief all the livelong day,


## 2-Charade.









 4-Charade.






$\qquad$
Min hais domentimeor roor:








 on wer indien
 And ano frow inim mo keome







 Tome 10 prame








"wien wiow wirnin



Answers to 15th April Puzzles


Names of Those Who Have Sent Correct Answers to April 15th Puzzles.


## The Shadow on the Moon.

 As I was talking one evening with a bright, intelligent boy of fifteen about some of the more familiarastronomical subjects, he surprised me greatly by a question that he asked. My surprise arose from the fact that I knew the boy to be a good student, who
stood well in his classes, and that he should be ignorant of so simple a thing as that about which he asked the question seemed almost incredible. Since then, however, I have found that there is
a general misapprehension of the subject, not only a genera misapprehension of the subject, not only
among boys and girls, but among grown people, among it is the purpose of this short article to give a
and
simple explanation of it. simple explanation of it
Here is the question asked by my young friend:
"We are told that one proof of the earth's spheri"We are told that one proof of the earth's spheri-
cal form is the round shadow that it throws upon the moon, but when the moon is half 'full' the edge
of the shadow is straight, and when it is threequarters 'full' the edge of the shadow is concave. Now, why is the shadow not always convex, as it is when the moon is seen as a crescent
The boy thought, as you see, that
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.
You are standing, we will say, on a big ball out
in space. Away off yonder is another big ball,
gowing with glowing with light. Between you and the glowing,
ball is a smaller but non-luminous one. As the latter emits no light of its own, the side that is toward you is dark and of course you cannot see it.
That is the phase called the "new moon." The That is the phase called the new moon. Whe
ball is which youstand is the earth, the glowing, and the dark ball between you and ball is the sur, and the dark ball between you and
the sun is the moon. The other side of the moon, 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. At this time the three balls are alshining on it. At this time the three balls are almost in a straight line with each other.
In a few days, the moon, which is
In a few days, the moon, which is perpetually
revolving around the earth from west to east, revoving 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 glimpse of its illuminated side,
and you see it as a thin crescent. Every day it and you see it as a thin crescent. Every day it
moves higher, and you see more and more of its 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
side of the earth from the sum, the bright part becomes convex and the dark part concave, of course.
When it gets down far enough on the side of the earth a way from the sun to be in a line with those
two bodies, you see all of its illuminated side, two then it is "full" moon.
and it continues in its course around the earth, the As it continues in its course around the earth, the
same phases are passed through, but in reverse order.
It is very plain, then, that the shadow of the earth does not cause the moon's phases. Sometimes, however, the moon, in its mohthly revolution, moves
in the same plane as the earth's orbit and gets into its shadow. Then we have a lunar eclipse. At no other time does the earth's shadow touch the moon.
To make this still plainer let me remind you that when the sun is in the west the earth's shadow must necessarily be 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 off in the east, on the ot
side of the carth?-- Worthington's Magazine.

## Good Night.

There is a tender sweetness about some of our
common 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 shining face and hands it as, gowned in white, with shining face and hands
and prayers said, she toddles off to bed. Sisters and brothers exchange the wish; parents and child-
ren ; friends and friends. Familiar use has robbed ren; fiendsand friends. Famirar use has robbed automatically without much of thought. Be But con-
sider. We are as voyagers, putting off from time sider. We are as voyagers, putting off from time
to time upon an unexplored sea. Our barks of life to time upon an unexplored sea. Our barks of life
set sail and go onward into the darkness; and ive, asleep on our pillows, take no such care as we
do when awake and journeying by daylight. Of do, when awake and journeying by daylight. of of
the perils of the night, whatever they may be the perils of the night, whatever they may be,
we take no heed. An unsleeping vigilance watches
over is but it is the vigilane of one stronger and We take no heed. An unsleening vigilance watches
over us, but it is the vigilance of one stronger and
wiser than we, who is the Eternal wiser than we, who is the Eternal Good. Good and (iod spring from the same root, are the same,
in meaning. "(ioodby" is only "God be with youn." " (iond night", is is really "God "God be with youn. guard the night." It would be a churlish house-
hold in which these gentle forms of speech were hold in which these gentle forms of speech were
ignomed or did not exist. Alike the happy and the
sorrowful. day by day, may say "Good night."

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usi our
withan A latricle in bacon, and we are tatis-
fied that these are the breeds hat pay both the fied that these are the breeds that pay both the
feeder and the packer Send in our orders
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