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THE NOTED STANDARD=BRED STALLION "WILIDMONT", popmety of fares a combrane, mordo, mas

JUNE 15, 1808

## EDITORIAL.

## Forward Movement in Dairying

## Cherse factory instruction syndicates.

The continued high reputation Oanadian cheese has acquired in the markets of Great-Britain de pends upon uniformly high quality of the product. dairy herds, individual attainments surpassed by dairy herds, individual attainments surpassed by
none in the world, and in so far as these best connone in the world, and in so far as these best conindustry the higher will the reputation of our industry the higher win the reputation of our have recognized this, and have now in working order not less than thirty-five syndicates, which are conducted as nearly as possible likeone monster first class factory. Quality and uniformity are receiving so far the whole attention of the syndicates, but there is now a movement on foot to avail themselves of the wholesale purchase and distribution of a uniform grade of the best factory furnishings, as the cost to the factorymen can, in the aggregate, be re time insuring a quality that will improve the appearance and standard of the cheese

Another line receiving consideration in Quebec syndicates is the improvement of the quality of milk furnished the factory. It is also proposed to make the makers liable to a fine if they do not absolutely refuse all milk that is tainted or off flavor. The practice of sending sour whey home in the milk cans is also to be taken up and prohibited. This practice has probably done more to impair the reputation of our cheese on the consumers
than anything else, as it requires some little time for its contaminating influences upon the flavor of the cheese to develop.
It is believed that if the factory furnishings and milk can be provided of a first class, high-grade quality, the question of flavor will be definitely settled. The other important point receiving atten-
tion is the qualifications of the cheesemaker. This tion is the qualifications of the cheesemaker. This paratory to but in course of his regular factory paratory to as was recently pointed out in these columns. We are pleased to note that Western Ontario is falling into line, a syndicate having just been inaugurated, comprising the following factories: Nillestown, Dorchester, Burnside, Avon, Harrietsville, Lyons, Gladstone, Elgin, Yarmouth Center,
Mapleton, Glanworth, Pond Mills, Geary's, Proof Mapleton, Glanworth, Pond Mills, Geary's, Proof
Line, Devizes, Cherry Hill, Thamesford. We Line, Devizes, Cherry Hin, Thamestord. We upon the step they have taken, which ought to be successful, for it rests on the solid basis of increased knowledge. They are placed under the inspection of $\mathbf{M r}$. J. B. Muir, of Avonbank, who is a bright, first-class maker, of long and successful experience with both cheese and butter; noted always for his thorough cleanliness, order, and skill. Avonbank was one of the first factories to adopt winter buttermaking. Mr. Muir will devote his whole time during the factory season to the inspection, which will enable him to make frequent visits to each factory and spend the necessary time with those most needing instruction. The condition of the factory and surroundings, appliances, process of making, curing, boxing, condition of milk, and other details will receive his
watchful attention. The Dairymen's Association watchful attention. The Dairymen's Association
and the Boards, or factory owners, unite in providing the remuneration. Inspector T. B. Millar will be relieved of the supervision of the factories in the Syndicate, thus allowing him a little more time for the extensive work under his charge, thus enabling him to give closer supervision to detail,
strikes us as a move in the right direction.
strikes us as a move in the right direction.
The duties of the Syndicate Inspector, outlined The duties of the Syndicate Inspector, outlined
by the Western Dairymen's Association, are as by the Western Dairymen's Association, are as (1) It shall be the duty of the Syndicate anstruc-
tor to visit each factory in the Syndicate as often as his time will allow, and to give such instructions and advice to the maker as he may consider bene-
ficial and helpful in improving the quality of the
cheese and of assistance in carrying on the work ficial and helpful in improvise and of assistance in
cheese
connected with the factory.
connected with the factory.
(2) In cases where the mak in any factory in (2) In cases where the maker in any factory in
the Syndicate has some special difficulty which he
cannot overcome, it shall be the duty of the Incannot overcome, it shal be the duty of the Into do his utmost to remedy the difficulty
(3) In no case will the Instructor be expected to test every sample of milk when he visits a factory.
If desirable, however, he will make a test of sam.
ples which the maker or committee from a previples which the maker or committee, from a previ-
ous test, may consider to have been tampered with. ous test, may consider to have been tampered with.
(t) Neither the Instructor nor the Association
will be responsible for the quality of the cheese

 ditions connected with the milk and the curng on
the cheese over which the Instructor has no con (5) In (5) In short, it shall be the duty of the Syndicate
Instructor to supervise and oversee the operations of the factories comprising the Syndicate, and to use his best judgment in advising such ways and
means as will bring about an improvement in the means as will bring about an improvement in the quaity of equipment; a a more uniform article of
ing and
cheese, and better methods of curing the same; and to use his best endeavor to enhance the value of the cheese in the district represented by the
and to make it more uniform throughout. (6) When any special difficulty occurs, makers and others are requested to notify the Secretary o
the Association, Mr. J. W. Wheaton, London, Ont. or the Instructor, at once, so that the matter may or the Instructor, athout delay
Carried on as we trust it will be, this Syndicatewhich will be known as the Middlesex Cheese Fac tory Syndicate-should prove of material and early
advantage to the factories co-operating for the purpose of securing an output of cheese at once high in quality and uniform.

What British Farmers Have Done for Themselves.
To the individual farmer distinct gain often comes from a survey of the operations of a neigh bor, so we may benefit by a study of the conditions and methods, reverses or

In an exhaustive treatise on "Recent Changes n Farm Practices," published in the journal of the English Royal Agricultural Society, Mr. W. J. Mactors that have sustained many on the land dur ing the past twenty years of ungenerous seasons ing the past twenty years of ungenerous seasons cropping of the soil ; 2, laying down arable land to grass; 3, live stock improvement; 4, the employ-
ment of improved machinery ; 5 , greater intelligent ment of improved machinery; 5 , greater intellig energy ; and 6 , reducing personal expenses.
Increasing the pasture land for live stock in volved changes in the old rotations. Catch crops, such as vetches, rye, winter oats and bariey, etc.,
sown from June forward, and consumed before that time the following year, are cultivated much more widely than they were a few years ago ; and this breaks the old rotation. More frequent crop soil, and dead foser attention to wractised to nearly such an extent as formerly. There is also a tend ency to apply a greater proportion of manure to
pasture and meadow land, the need for which we pasture is drawing near, if not already at hand, in some portions of Canada. Barren meadows here in England a still larger proportion of the manure will yet find its way to the grass land. Growing out of this is the more general and skilful use of artificial manures on the tilled land, particularly
for catch crop growing. The proportion of home for catch crop growing. The proportion of homegrown grain consumed in stock feeding on the farm increased, but at the same time Mr. Malden states that the quantity of imported food Converting arable
the earliest remedies suggested when growing grain for sale became unprofitable, and during the twenty years ending 1894, $3,280,000$ acres were added to the area of pasture in Great Britain, temporary pasture being also augmented. The corre-
sponding shrinkage was largely in wheat land Despite the increase of pasture, however, we fin that there were $4,454,000$ fewer sheep than in 1874, clusion is therefore inevitable that the laying down of arable land to grass has not been a complete success, and further, that the plow and grass must that the winter must be reckoned with. For stock feeding on a large scale, roots, litter, etc., are necessary if the pastures are to be stocked. Without
good winter feeding, good-bye to carly maturity, which is every day becoming a more imperative requisite of all stock destined for the butcher
Great advantage has come to British agriculture along the line of live stock imprevement, its pure
breeds of horses, cattle, sheep, and swine being which the establishment and maintenance of various associations, with their carefully conducted
stud, herd and flock books, have had so much to do stud, herd and flock books, have had so much to do.
In fact, it might be said that the records constitute
zations and have been largely instrumental in inuring their permanent success. The use of mor lavor, facilitating thas lessened the larger crops more expeditiously; but how much it has lessened the general outlay is another question. Great attention has been paid to the development of dairying, market gardening, and fruit growing. The production of specialties also claims attention, but the demand for such is more retricted than in case of the great food staples, and their
skill.
In this connection Mr. Malden indicates the greater extent to which farmers read on questions relating to their own business, and though an imperative necessity growing out of the changed conditions for farming, it is yet an encouraging sign of the times. Despite this, a Scottish contemporary points out the lamentable absence of the agricultural journal in many a British farm home, wherenot to be secured in any other way.

## Canadian Mutton.

A Canadian who recently visited New York City was impressed with the apparent appreciation of the products of his country, which was shown by prominent signs in many of the same quotation was also noticed on the bill of fare of the best restaurants. Upon indulging in some of the homegrown meat, the question arose mentally, Why do we not get such mutton at home? Probably the the scrub stuff that is not fit to ship, and, indeed, which the shipping buyer does not care to handle. f our local butchers, as well as our local cheese dealers, would handle only first-class goods, the quality offered would do a great deal toward increasing the consumption and therefore the demand of these two nutritious articles of diet. The stringy, dry, so-called lamb so generally put pon the hotel table causes the consumer to vow

A Notable Standard-bred Horse Portrayed. The illustration given the place of honor in this number represents a noted horse. This portrait
true to the life, which proves the falsity of the statement often made, to the effect that a fastgoing Standard-bred horse is assuredly an illshapen, homely individual. Conformation, subtance, and general style were too long sacrificed n the altar of a mere record by trotting horse reeders, but a diferent policy is now being pur-
sued. This engraving depicts the Standard-bred tallion, Wildmont, who has proved himself, in race contests and in the stud, to be justly entitled to high honors as a superior individual and getter of handsome roadsters and race-track winners. He was foaled in 1880, and at four years old made for himself a record of 2.27. His breeder was Nat.
Bruen, Burlington, Iowa, and he is now owned by Bruen, Burlington, Iowa, and he is n
Fares \& Cochrane, Morden, Manitoba.
ares \& Cochrane, Morden, Manitoba.
Wils high, and weighs 1,170 pounds. He has neck and head of rare elegance, and shows a girth, back, oin, flank, and such prominence of chest that fully explain the wonderful vital force and endurance that have been exhibited by him. He stands upon strong, sound limbs and feet, and is a game and
resolute fellow. In his 30 public engagements he resolute fellow. In his 30 public engagements he
placed 24 to his credit. At Chicago, in 1883, in his placed tyear-old form, he not only won his race but horse. Since his arrival in Manitoba he won 1st
prize at Winnipeg Industrial Fair, 1893; he was eaten at Winnipeg Industrial Fair, 1895, but went diploma, to Brandon and won lst and diploma,
then to Regina at Territorial Fair, where he again then to Regina at Territorial Fair, where he again net and defeated the lst prize winner at Winnipeg
Industrial, winning 1st in a good field of horses.
Wildmont's colts are large, handsome, and prize winners in the show ring.
Pedigree. - Wildmont 2271 , by Egmont 1828, by
Esix 2. 16 list, namely: Lobasco, $2.10 \ddagger$; Combination,
 or better. Dam Advance, by Administrator 357,
one of the great brood mare sires ; he by Hamiltonian 10 .
Wildmont has proved himself the sire of speed
as well as of beauty, being the sire of Chloe, $2.17 \pm$ as well as of beauty, being the sire of Chloe, 2.24 ;
in a winning race, and can trot in 2.10 ; Ruth, $2.2 \frac{1}{2}$;
Nulla Bona, 2.294 , champion three-year-old of ManiNulla Bona, ,.291, champion three-year-old of Mani-
toba and the Northwest, with only ten months;
breaking in and handling ; she can trot in 2.25;
ind sereral others that can go into the 2.30 list

## THEFARIIERS AVOCCIIE HOMEWMAGAIIIIE

the leading agrioultural journal in THE DOMINION.

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## COINT円INTS.

## Empoghi ititation













 Letion foim ohicapoi.




To Prevent Horses Eating Too Rapidly. Hess goos of of it than ean their growin very rapidly get feeder that thates time to masticate more thoroughly Among the many
plans sad ocateded as a preventive to this both harm
pto



 must he hard on the animals teeth, For farm horse



Sugar Beets and the Beet Sugar Industry. The cultivation of sugar beets for the manufac-
ture of sugar has been tried sufficiently in Canada to indicate that a fairly remunerative industry is awaiting development. True, the refining plant is costly; a certain and large supply of beets is necessary to the successful carrying on of a business, and to fully realize profits the residuum feeding, etc. must be properly utilized in stock feeding, etc.
Foreign countries have been allowed to outstrip us. In Europe, during the last 40 years the production output for 1893 -4 bing. In 22 and Austria-Hungary, 841,809; France, 579,111; Russia, 660,000 ; Belgium, 325,000 ; Holland, 75,015 ; and other countries, 111,000 tons. In 1887, we notice that the United States produced only $600,000 \mathrm{lbs}$. of beet sugar, but in 1893 (the last return at hand) this had swelled to nearly $45,000,000 \mathrm{lbs}$. A bimonthly periodical is issued in the interests of the industry, and Nebraska supports a sugal, Where beet growing to beet analysis and refining. All this is surely evidence that as a branch of Canadian agriculture and manufacture this industry should receive more attention. The Canadian Govern ment, by statute, was required to pay a bounty of $\$ 1$ per 100 lbs . of beet sugar produced, with an additional $3 \frac{1}{2}$ cents for every pound testing over 70 degrees. The time for such bounties was limited to 1st, 1897, the bounty now being 75 cents per 100 lbs ., gree over 70 degrees. During the year ending June 30th, 1895 , the bounty paid amounted to $\$ 29,449$.
So far as suitable soil and climate are concerned many portions of Canada compare favorably with foreign centers of beet culture. In fact, the sugar
beet does not diffee from other plants in requiring beet does not differ from other plants in requiring certain
sults.
The fully studied, and it is sund that an average of $70^{\circ}$ Fahr. for June, July and August is about the prope The most suitable soil is a light loam, preferably
containing some lime, but heavy soil will answer if containing some lime, but heavy soil will answer if food from the ground at a depth of eight to twelve inches; hence freedom from excess of water is
necessary. The preparation of the land for the crop is much the same as for mangels. The land it can be worked in the spring it should be again
plowed to the depth of about twelve inches. (A ploep soil is therefore a necessity.). Allow. the seeding, then plow once more, to the depth of four or five inches, and work the soil up into a fine, light
condition. Plant the seed after allowing the land condition. Plant the seed after algwing thould be
to lie five to seven days. No manure should applied unless in the shape of well-rotted compost
put on in the fall. In ordinary soil the rows should be eighteen inches apart; in very rich, less; and in poor, a greater wats attaining to a greater weight
prevent the beets than two pounds each. The seed should be planted
one-half to one inch deep and about sixteen pounds to the acre. The plants come up in about ten days if the seed has been soaked over night before sowing. They should be singled out (four to six inches apart) early, to prevent plants growing spindy.
Hoe like turnips and keep clean. A be run through the drills and thus keep the soil well up to the necks of the plants when hoed for
the last time. The best beets are deep in the the last time. The best beets are deep in the
ground. If any artificial manure is to be applied it ground. If any artificial manure is to for which the
should be borne in mind that the end crop is grown is not the production of the largest
roots, but such as will yield the greatest quantity of crystallizable sugar. For this purpose mediumof crystaltizable sagar.
sized roots, hard grown well ripened, turn out best. A large amcunt of stimulating manure tends
to too much leaf growth and to keeping up the to too much leaf growth and to keeping up the
growth when the roots should be ripening, in Sepgrowth when october.
European growers have made great progress in
the saccharine quality by testing chemically the the saccharine quality by testing chemically the
growing beets and raising seed from those testing growing. The farmer grows them for the factories at so much per ton, and whether proftable to him
or not will depend on the cost of production, yield per acre, and the
of any other crop.
Appreciated Abroad as Well as at Home. Mr. John Allan, of Aberdeenshire, Scotland, in CATE for another year, writes: "The ADVocate always comes with the utmost
always brings something new."
The prospects for more than a light hay crop in
arge portion of England are very slim, owing to a large portion of England are very May the ground a very dry and cracking and the pastures were badly
was dry
scorched ; in fact, the showing is little better than scorched; in fact, the showing is little better than
it was in 1893. when a water famine was experiit was in 1893, when a clay and chalk soils. The
enced on much of the
weather, too, has been cold and backward.

## STOCK.

Live Stock Interests.
We notice that South American buyers have been attending cattle sales in France, paying hand some prices for bulls and other breeding stock. This recalls the address delivered by Mr. Richard Gibson before the annual meeting of the Dominion in which he drew attention to the attitude of the South American buyers in the English marketnot only to the quantities they have taken, but to the qualities of their purchases also. Nothing has been too good for them nor price too high - for instance, the purchase of Sir Lionel Studley, a Booth bull, for $\$ 3,500$-and whenever they could hear of or see an extra good animal the agents of
the breeders in Buenos Ayres or the Argentine were after him. The very best of English, Scottish, and Irish stock that could be bought have been expatriated. Price has not stood in the way, pro-
viding the animal was good enough. The numbers viding the animal was good enough. The numbers
exported have been enormous. We do not wonder,
therefore, that Mr. Gibson asked, "Is there no therefore, that Mr. Gibson asked, "Is there no
means of reaching this market by our breeders?" means of reaching this market by our oreeders in
That they have invaded French herds shows in addition that the demand is yet strong. United States breeders have been attracted by the possi-
bilities of this trade for their bulls and other breeding stock, the practicability of which would doubtless depend largely upon the transportation facilities available. It should certainly be looked into. This stock husbandry-by ali odds the most important department of Canadian agriculture-but recall the serious need existing for a good, practical live stock Farm staff, where, as an advisor to the Federal Department of Agriculture in such matters, his services would also be of very great value.
Now, it is well-known that when U.
Now, it is well-k of really first-class, fresh blood for building up their herds and flocks, they come to Canada to get it. The World's Fair accentuated, of Canadian breeding stock. The herds of Canada should certainly furnish valuable drafts for the South American, or, for that matter, any other
trade. We trust Mr. Gibson's suggestion will yet be made the subject of proper enquiry.
Still more important matters requiring atten-
tion are the ninety-day cattle quarantines between ion are the ninety-day cattle quarantines between the trade of breeders and the original utility of which disappeared with the embargo requiring our cattle to be slaughtered within ten days of landing in Britain. Our cattle quarantine regulations are
also a hindrance against securing fresh breeding also a hindrance against
stock from British herde.

Ayrshire Matters.
Paper read by Mr. H. E. Hyre before the Dominion $A_{\text {yrshire }}$ The kindness with which you received a paper
mine in 1892 has induced me to offer you again a of thoughts on Ayrshire matcers. Wore it nec-
few
essary for me to give an exuse for presenting essary for me to give an excuse for presenting
another paper to this Association, I would give an excuse similar to the one given by the late Sir John Macdonald for keeping the N. P. alive so long. "I ought," said the veteran statesman, "to do some,
thing for the N. P.; it has done so much for me." This, gentlemen, is my feeling towards theAyrshires. I shall not waste your time by speculating upon the orinin of the breed, neir promoters to be akin to the Ayrshires. Suffice it, then, to say that with the espousing of our favorite cattle there dawned
upon the then poor, discouraged, ill-clad and ill upon the then poor, discouraged, in-clad and the
fed people of Ayrshire an era of prosperity that has increased in intensity as well as in magnitude the whole of the land of the harebell and heather They have also crossed the billowy Atlantic with the animals that produced them, and we enjoy in
our bossies the fruits of over a century's care and labor in selection and development.
That broad-minded political economist and philasop are the prime factors of wealth." If we gran
lhis hypothesis, we are immediately this hypothesis, we are immediately confronted
the question, how best to utilize these elements? Experiincen in this country answers by the prop agation and developmenection is to decide on the The first step in this drectioturns for the time and labor expended on her. The writer of this pape spent years in solving this problem. He visited
good herds of different breeds, closely observed thei good herds of aiflese results, found that each breed
treatment and its rese had its merits and its fancies, and that all breeds had furnished to the annals of the exhibitions some
phenomenal animals. He was finally compelled phenomenal animals. He mall means available to him to conclude, contrary to his best impressions, that the animal that will best suit all classes and con-
ditions of farmers in this country is the Ayrshire cow. Not yet content, he consulted a number of cow. Not yet content, he consunte married to any
successful dairymen who were not mat
breed, but had tried specimens of different breed breed, but had tried specimens of different breeds,
and their consensus of opinion strengthened the former conclusion. Indeed, one farmer and drover who lived in the suburbs of a smart little town,
and was breeding another kind of cattle, said con
fidentially: "Although I find the cow fanciers of
the towns and villages readily purchase the calves the towns and vilages readily purchase the calves
from my herd at fairly remunerative prices, yet I must admit that for buoyancy, constitution, ability ship and respond nobly to kind treatment, the cow par excellence is the Ayrshire." He even wentrurther bought and sold a great many cows. Ind select some find when high-headed and good-looking animal, and
slek the owner to put a price on her, that he will ask
say, ',
her.
Did I hear some one say: Does he not know that it was not an Ayrshire cow that won the sweepstakes at the
and know, too, that the winner is owned by a
relative of my own and in my own county-the relative of my own and in my own county-the banner dairy county, dear old the ghost of your poet, Robbie Burns, will for-
if give, I will say

Auld hedis whom noer a rlace surpasses

 tavo eologheateor unreted with prizas. Idoubt not but the eurr rise you got hat tal will make youn
 pon the conquests of a distant cousin, I may have he opportunity of rejoicing with an Ayrshire other No, gentlemen, there is no place to stand still.
Either retrogression or progress will be the lot of every man. He who is content to stand at ease on of seeing his co
his very feet.
Before closing ach member of this Association may be careful to
 Againt the honor of another breeder or merits o his herd. Such reprebensible conduct always has a
reflex action and will turn again and smite the retiox action, and wirl turn again and amide tue
striker. Better by far that each should endeavor
 avorite bread for our own particell.
Gentlemen, t again invitit youn to criticise this paper, beliering that by interchange of ting that tit
can beneatit each other, and remember rem
 Valley, whilie naming the fancy breeds in which he Tasi interested, dealared tati or he harmer and airryman the
Ayshire cow
Breeds of Sheep in Relation to Soils, Markets, and Crops.
by richard gibsen.
A wealthy man who has purchased a farm neat a city of 175,000 inhabitants wrote me lateley out
lining his plan and asking advice. His object was lining his plan and assliag a andice. mutton toit the local

 attain great weight at an enerry ageis but can we here
 sugge business transaction. I have been several
abie
 In the first place, ,heyb are luxury for the wealthy; henco an anticle, though limited in demand,
hence
and
 yeaning time.
amples of the shishire of is one one the the brightest ex. on the pectilian soils, on the e chalk formation, with the e limate, and in connection with the variety of
cropsis $r$ rown, no breed can approach them in weight crops grownan an early age three-luarters of pound

 are wardije the ewes are the scavengers, eating ail and whie the eve the lambs and fattering sheer, they manage to rustle along on such food and con-
ditions under which no other breed .

 in my ladys garden would help to push the lamb




which quality they are unrivaled, and also the me The
of the system of feeding which can produce it. The three factors for the achievement of such a result
are: Find the breed; second, the mode of feeding; and third, the peculiar soil and climate of a Souther county,
crops."
Now, I just want each reader to go over the conditions to success, two of which it is impossible for us to obtain on these conditions are true as re nards Hampshires, do they not apply to many of the garder breeds in a greater or less degree? If so, may
not some of the failures which we hear of be traced not some of the failuperimented with alone, but to the neglect to provide such crops as they require for their highest development? When we know the nature of the soil and crops grown thereon, and general environments, we shall be the better
able to select the breed most likely to succeed under our especial management. But let us return to Prof. Wrightson's account of the lamb
Hamp. during February (the lambs are dropped in January). He writes that "at this time they are in receipt of eight different sorts of food per
day." Following the system as pursued, he comes to "Take for example a fine midsummer day when the lambs awaken upon a ance of cake (oil cake). He then grinds them some mangels (into troughs), which they eat with grea, relish." |The mangels are of the previous year's growth, and illustrate wh of this root for spring
urged, viz., the growth ood.] "They are next admitted to a fresh fold of etches, after which they rape or cabbage. After two hours or more, and in the heat of the afternoon, they are allowed to spread themselves over some
ld sanfoin or aftermath clover. They will then old sanfoin or aftermath clover. return to the vetch frain, etc.) they lie down to wellearned repose, h
Is there any wonder that Hampshire lambs grow rapidiy with such rations ; or when neglected food, that they fail to make the weights as recorded?
And the breeder is apt to blame the breed when he And the breeder is apt to blame the breving the food necessary or in selecting a breed that under his conditions of farming he could not do justice to. This is not an attack on Hampshires, but is a purpose writing upon exercising due care in select ing the breed adapted to soils, market, and crops. [NOTE.-We have arranged for a number Husbandof Wrightson's excellent work on which was reviewed briefly in these columns some time ago; and a copy may be obtained by sending us the names (ac companied by three dollars) of three new subscribto the FARMEr's ADVocal
the Editor Farmer's Advocate:
Sir,-I have only a dozen ewes, and sometimes hink I should not keep any, as I am only about two miles from the town, and think cows are more profitable where we can sell milk. Then there is Asseg nuisance to be considered, though our may diminish that. My sheep were turned out in excellent condition. The hay crop being short and grain very cheap, we fed more grain and ess hay with profit, be very much extended, particularly in declined greatly in the last three years, as the price of lambs which were bought in September and
October for the American market fell from an average of about $\$ 3$ to about $\$ 2$, or perhaps a little less Almost all the sheep in our county are shropshires
or Shrophire grades; in fact, I might almost say the same of the whole Province. There are a few people who breed Leicesters, and a very few others
who stick to the Cotswolds. I had many enquiries for lambs last year, and could have sold many more
than I had at fair prices. Only a few days ago a neighbor who has shropshires came to see if he
could get two or three Cotswold ewe lambs. He couid the Shrops were good, hardy sheep, with nic
saine wool, which was much liked at the factory
fin but when he asked if they would give any more fo
it than for coarse wool, they did not respond, so it than for coarse wool, they did not respond, so he
had concluded to make a change, and wanted some
thing which would give him more wool. I think thing which would give him more wool. I think
one of the very best lambs I ever saw was a cros
of a Shropshire ram and Cotswold of a Shropshire ram and Cotswold ewe, and
dare say crossing the other way would be god
also. When Shropshires were first introduced our county most of the sheep were cotswol
grades, and the first cross was so successful that gave the new breed a great hoom. Now, howeve
I find there is quite a demand for colswold rams
increase the size and length of wool. Our Govern



The Sheep-Worrying Dog--A Subject Needing Ventilation.
the Editor FARMER'S ADVOcATE:
SIR, -I was particularly well pleased with the last issue of the FARMER's ADVOCATE, more especially to observe the increased attention you are giv-
ing to sheep raising, an industry which, to my mind, will give us a better net return than some branches
f farming about which more noise has been made of farming about which more noise has been made.
All your correspondents overlook one hindrance, All your correspondents overlo Possibly they have not personally experienced losses through one of
hese raids, but I believe with a good many it has really been more of an obstacle than low prices for sheep products. Now, while $\begin{aligned} & \text { aluable information already given in your jour- } \\ & \text { val }\end{aligned}$ nal, on sheep raising as well as other practical sub-
jects, I would appreciate a discussion of the best jects, I would appreciate a discussion of the best
way of abating this hindrance to sheep farming.
[ NOTE:-Our columns are open for a discussion of this subject, and we invite correspondence thereon, believing undustry. Three points suggest themselves to us
1st. What steps may the sheep raiser himself o prevent
2nd. What should be done, in the event of a raid in caring for injured sheep, etc.
3rd. What changes, if any, should be made in
The Philadelphia Horse Show
The horse Show Association of Philadelphia
held its fifth annual exhibition in the open air St held its fifth annual exhibition in the open air, St Martin's Green of Wissinickon Heights, on May
$26-30$. A couple of rainy days materially inter fered with the attendance, while they lasted, but caused a great crush upon of last year in numbers which increase was made up in the Hackney, Thorwhich increase was made jupiner classes. Breeding
oughbred, hunter and jumps classes and trotters in harness were rather light.
Hackneys, of course, made the big showing Hackneys, of course, made the big showing. This immensely popular best purses and the highest
the ad vantage of the bel
class of schooling and skill in breeding, is well-nigh class of schooling and skill in breeding, is well-nigh
totally eclipsing all other classes of horses at these totally eclipsing ars othor classes of The race track has had great modern horse shows.
its day a long time, and still holds sway in many
cities, but when the great enthusiasm of the trotcities, but when the great enthusiasm of the trot
ting or running meet is remembered to result ting or running meet is remembered "bouking," an largely from "jockeying and booknair-minded horse lover cannot but feel it a dishonorable enthusiasm as compared with the expressed appreciation st themselves.
and style of the animals.
Thes The Hackney judges consisted of Messrs. A. B McLaren, Alexis, Bli; Robt. Graham, Clar, Mass,
Ont.; and H. K. Bloodgood, New Marboro, Mall who executed their duty in a critical, intelligen and conscientious manner, commanding witnessed the placing of the mibhen
the placing of the ribbons.
Canadian Hackneys were not in evidence on this occasion. Keen competiton was a marked feature
of the various classes. The recipients of the a wards in the mature stallion class over 15.2 hands Stephens, Maplewood Farm, N. Y.; Senator Coch rane's Royalty, the head of Donigal Farm Stud,
Pa.; and Mr. Joseph E. Widner's Lord Rufus 2nd, who won in the mentioned order. These are all great horses. One of Maplewood's recent importa
tions, Clifton 2nd, scored in a hot class of stallions tions, Clifton 2nd, scored in a hot class of stallions below 15.2 hands. We are pleased to notice that
the great mare. Winnifred, taken to Maplewood along with the lamented Ottawa, from the stud of Robert Beith \& Co., Bowmanville, Ont., demanded
the attention and favor of the judges in the brood mare class, securing, as she honorably did, the nare class, securing, as she ho foal at foot from
second award. She has a noble Ottawa. She was defeated by a mare, Dorothy,
rom the stud of Mr. Widner. The championship from the stud of Mr. Widner. The champlephens'
mare of the show was found in Mr. Stephen
two-year-old, Lady Suton, who won the first prize as a yearling in New York last year, when she also Won the junior championship. Langton Performert
did the job of the day by going off with the best male award. He is a bigger horse than most of them, while his qual
The competition in half-bred Hackneys was keen, to say the least ; in fact, the action exhirited by by heir more aristocratic brothers. Saddie horses are undergoing a decided and sirit are both necessary adjuncts to a winning sadach in
Hunters, too, are improving, and were much Hunters, too, are improving, and were much
evidence on this occasion. Ponies were fine, numerous. and much admired.
Just two classes were provided for Thorough-
veds; both those were creditably filled. Trotters were scarcely up to standard, but some good ones

Weak carbolic acid (about one part acid to forty of water) sponged on the hair of horses aosquitoes,
will drive away the whole tribe of flies, mospor will conwill drive away the whole tribe of flies, mosquil con-
and the like. It is easily applied and it wwill
duce to the comfort of both the beast and its

Jone 15, 1890
The Bath and West Show.
The Bath and West and Southern Counties
 1895; shows a marked increase. The horses num-
 of fully average merit. The
were 1,850 , and of $1895,1,664$.
The draft horses shown at this exhibition are always largely or the shire breed, of which there was a much better titane usual turnout this year. received the championship and reserve awards.
The former, Mr. A. P. McMullen's Iron Chancellor, by Chancellor, is spoiken of as a massive horse of Lord Rothchilds' old Gray Paxton was the reserve number. Young stallions were numerous and good, but mares Mature mares without foals made-
II representer up a beautiful class, headed by the well-known
winner, Rokeby Fuchsia, who also was the rewinner, Rokeby Fuchsia, who also was the re-
cipient of the Shire Horse Society's gold medal. Shire fillies were a grand lot.
of small number of Clydes, chiefty from the stud of mares and fillies.
ings only, brought out agricultural number of very for useful animals. It is worthy of note that a Olyesdale won
first in the four-year-old class, followed by a horse first in the four-yed
of the Shire breed.
Hunters made up well in the programme, and
Hackneys were quite keen in competition, although Hackneys were quite keen in cooppetition, although
the numbers were not large. Notably among the latter were a number of fine mares from the
stud of Sir Walter Gilbey, several of which bore away well-deserved honorrs.
ported to have been present.
Cattle:-The forty-two entries of Devons, without an inferior beast, is a highly creditable number
when the distance they had to travel to reach St. Alban's is considered
The Shorthorn showing was notably large and
ood. Mr. G. Harrison's Champion Cup, one of good. Mr. G. Harrison's Champion Cup, one of
seven entries, was awarded the sweepstakes award, and his stable mate, Lord Boycott, 2nd, came next
ho him in this class. The first prize two-vear-old came from the herd of H. R. H. the Prince of Wales. In calves, a pair got by Scottish Archer,
and bred by Mr. W. Duthie, had it warm for frist place. A prize of \&10, offered by the Dairy Prize Cow or heifer in milk, was awarded to Mrs. E.
Ross for Lady Peggy Farewell, which also won second in the cow class. This being a new feature,
The Hereford section was well filled, there being n all forty-eight entries. Their robust constitution
and aptitude to fatten, together with their uniform and aptitude to fatten, together with tretion.
The Sussex breed demands considerable attention
in the Old Land. This was evidenced by an entry of forty-four animals.
Jerseys and Guernseys filled, perhaps, the best
ections in the cattle department. A goodly numsections of the best awards in the former were captured by Sir Gillert Greenall and Lord Rothchilds, who
bossess
great herds. The latter breed made a record possess great herds. The atter bread made a recors
hy its 71 entries of extraordinary specimens. Especially were the heifer classes to be praised,
which indicates that the popularity of this valuable breed is growing.
Aberdeen-Angus cattle never occupy much space
at the English shows, but upon this occasion the at the English shows, but ul.
exhibit was better than usual.
Kerries are hecoming more popular in England
eear by year. Deep milking on a poor soil is certainly a very breed has, probably, a greater claim to than any
other. $A$ fairly good representation was presen on this occasion. Dexters made an equally good
representation in the bull and cot classes, with a large one of heifers.
Sheep.- Leicesters, Cotswolds, Devons, Long,
wools, Southdowns, Hampshires, Suffolks, Shrop shires, Oxfords, Somerset and Dorset Horns were all represented. Cotsswolds, Southdowns, and
Shrophires were notably large in entry and supe-
rior in quality. In the last named, 34 entries in rior in quality. In the last named, 34 entries in
shearling rams, 14 pairs of ram lambs, and 13 pens
of ewes made of ewes made up a great show. The well-know
flocks of Mrs. Barrs, Messrs. J. Bowen Jones. A. E.
Mansell. R. P. Cooper, P. L. Mills, and A. Tanne Cotswoild of the honor torking. The chief amon, Cotswot exhibitors were Messrs.
Hublert and Oradock, whu shared the honors.
Goats and roultry bad their places, which wer by no means insignificant. Of the latter there
were 13 eutres
The working dairy is a prominent feature o

 On one of the days competition was confined to to
student of dairy schools, when splendid work was
accom- ished. The British Dairy Farmers A Asociation will
hold
seaso in innual excursion and conference this

## FARM.

## Observations.

## lucern.

Dropping in to see Mr. H. Elford, of Holmesespecially struck with his very fine crop of lucern,
which he was cutting' and feeding to which he was cuting and feedng to his cows and
horses. At the time of our visit (May 30th) it was abous. Atwo feet time on tha average, and Mr. MIIford,
ar., informed us that they had been feeding it since r., informed us that they had been feeding it sinece
Mag bth. The plot contained about four ares, being about which had been cut, the remainder was growing up again very fast and would soon be
ready for a second cutting. The soil and subsoil are gravelly loam. This plot was seeded in the
spring of 1895 with. hood crops in 1894. For the second year this is, we
think, the best stand we have yet seen. Fifteen think, the best stand we have yet seen. Fifteen
pounds of seed were put on (sown at same time as pounds of seed were put on (rown at same trime as
the barley, seed falling in front of drill hoes and then harrowed.
Mr. Elford
will eat twice each his cows and is well satisfied with results. He intends to stable his cows all summer
during the day. His stable is a model of sweet ness and cleantiness. With a clean stable, soiling
arops and housing during the day in hot weather crops, and housing during the day in hot weather
Mr. Elford is on the way to sound success in dairy ing. He needs a Bacbockok milk tester yet to grade
and weed his herd, and he intends to have one and weed his herd, and he intend to have one
soon. Mr. Elford and family are most hospitable
son soon. Mr. Eliford and family are most hospitabie
and genial, and will be pleased to show strangers
what they are doing. what they are doing.
a hydraulic ram.
For an outlay of \$14 Mr. J. W. Hill, of Summerone of the completetast arrangements for supplying
water for farm use that we have yet seen. of three feet from the spring to the ram constitutes per minnte are raised the dwelling-house-about per minite are raised to the dwelling-house-about
a 30 -ft. lift. From this a tank is is illed that supplies the stable, hog pen. etc. All the piping, drains,
tank, etc., cost Mr. Hill about $\$ 70$. He knows how tio suild a water tank. His is frst an ordinary 1, 1.2
in. stave cistern (about five feet across and six
 pland, which extends six inches heyond the tank
all around. A curb six inches wide is put all all around A curb six inches wide is put ail
around the outside bottom of the tank, and then
and boards up and down, leaving a b-in. air space, then two sheets of tarred paper ail around then
another sheeting of inch stuff a similar false cover on top. Frost has no effect on the contents.
Sawdust filling is nct to be compared to it, either in Suwcust filing ir nnt to be compared to it, either
efficiency or urability. Mr. Hill has built a very neat little cheese factory on his farm that is com
pletely peorse at Guivperph Dairy school in the winter session
co
of 1895. .
In many ways we considered Mr. Hill a utilizer
of his advantages much begyond very many in the
OBSERERSion of dairy

## Cultivating Corn.

To the cotitor growers the perusal of E. F. White's article in your last number should be valuable
information, and in connection therewith I would information, and
suggest some point in the cultivation of the corn
pant, and if followed out drouth need not be feared:-
1st. Shallow cultivation-not more than one and one.balitinches. The roots of the plant are between
70 per cent. of the roots tw per and four inches of the surface, and if deeper
cultivation is adopted root pruning is the result. cultivation is and. Frequent cultivation to prevent evaporation, as mentioned by Mr. White.
3rd. Cultivation immediately after a rain storm, the top of the ground.
tht. Cultivate with flat knives instead of shovel ceeth, and what take a $2 \times$ 6.in. plank (length in proportion our-inch
width of the rows), drive four rows of fourn wire sails through-one and one-quarter inchesapart and slanting back a little. Hang, this behind the
cultivator and the ground will be thoroughly pul. verized. Last year was very dry, but with this verized. Last our corn did not feel the drouth, and at
cultitation
no time was the pround dry at one and one-half no time was the ground dry at one and one-hat
inches from the surface. Try it. Ontario Co., Ont.

 relating to the ravages of the wireporm, etc. My
 the cron failing, it then being about two high. On examining ing and the wireworm were
grub about an inch 1 long and
One corner of the field they were grub auso of it. One corner of the field they were
the cust
just getting into. I plowed all u but one acre at
 Dune 2nd the oats are looking well and
ravages of the pests seem effectually stopped.
Mur GLEw
Mo., Gnt.

Underdraining with Tile -- How the Work is
Done.

## (Continued from page

If a field has a fall of one inch in every hundred greater, of course the satisfaction will be greater Some farmers are losing money every year because
hey think their farms are too flat to tile drain. depends upon the kind of soil how far apart the depends upon the kind of soin
underdrains should be laid. If the soil is heavy clay, I want a drain for every is feet-that is, a
rod on each side of each drain ; if the soil is is ighter, the drains may be farther apart. But as tile drain seasons as well as wet ones, I want to be sure tha the drains are not too far apart. With me, the soil
must be light indeed if my drains are serving less than two or two and a half rods on either side. The mistake in many places in the past has been in digging drains too deep. My judgment a foot too far down. A mistake might be made by going to the other extreme. If the soil is light and
the fall good, a three and a half or a four foot the fall good, a three and a half or a four foot
drain will work and draw from a greater distance on each side. But I mould prefer to expend upon the extra tile for closer drains than to pay the
extra cost for digging deep ones. Of course judg:
 experience has taught me, for my land, that two
feet three inches, and two feet six as an average, iee three inches,
is the right depth.
Having depth. dined the matters of depth and
idth for drains, the question presents itself, How width for drains, the question presents itself, How
is the drain to be dug? Ditching machines costing from $\$ 300$ to $\$ 500$ have been used in some places. Brot these are beyond the reach of farmers in
Beneral. Many are afraid of the cost and labor of draining by hand ; and there can be no question as to the drudgery of cutting drains in the past.
Takee man mith 80 or 100 acres ithat he knows
should be drained. How often is it the case that should be drained. How often is it the case that
he simply does not start the work because he has
 hie spring before seeding, or a little in the fall When the rains come, but it would be so little ! perhaps 30 cents per rod to have it properly donewell, that is very costly, he concludes and so annatan arormit. In this way hundreds of thousands
can dollars have not been allowed to come to farmers in this soung Dominion.
Notwithatanding this, bowever, a aooly num-
ber of farmers have gone to work
with spade, ber of farmers have gone tho work with spade,
shovel and cooop, themselves, and dug out their
drains drains. Some others have had the work done byy
drofessional ditchere. II waited for years, hoping professional ditchere I waited for years, hoping
that something coud turn up to oeesenthe thor
and expense of diging ditches, but all the while I Was exnderse the conviction thatt wos loser by delay. Finally I made a start with the oid-fashioned imdrain plow, which, though it cost me less than 820 ,
I now count the best implement on my farm. ceam attached to an eight-foot whim depth of three feet, \&apecial attachment finishing the bottom for
the tile. The depth of cut for each round is reguthe tile. The depth of cut for each round is regu-
lated by a curved slider between the beem and
oint run down until at the bottom it if just wide enough
run for the tile. Two men and a good team can com
plete 700 feet of drain ready for tiling in a day. When the drain is ready for laying, the work man begins at the outlet to place his tile. Special
care must be given to fixing the mouth. Intead of having the tile come to the very mouth of the
drain, it is better to set down a wooden box, say six feet in length, so that frost and atmospheric exposure will not crumble it. A piece of sewer
pipe, if it could be bot would be beter than woad
for this purpose.
With the end por this purpose. With the end fixed to the satisfaction of a common-sense man, he is reaty to get
the bottom of his drain in shape for water-carrying parposes. of a bed for tile. The tile next the wooden or pipe
ond needs to fit, the next tile to that should be up end needs to fit, the nese, the next to fit up to that, and so oon. If the
clos. cliose, the thext along the ground ready for him
tienare sho is to handle them, he sometimes is satisfled to lay them as he stands at the top and fits one up to
the other with a home.made appliance of a handle say sixier feet long, with a ten-inch piece at right
angles, and bored an inch from the end. With this he can let the tile down, and when down can strike it gently into parce. By the gouge attached
groove in the botom made to my drain plow, 1 like to get down into the drain, fit one tile to the neirkbor being done, It wis to me,
the tiles as the work is
delightul emporent in view of what is to be delightful employm
daccomplished by it.
Side drains running into the main drain have nothing special about them unless at the place
where they join. A side drain, or lateral. as it is
suall termed, may do with a tile of les. usually termed, may do with a tile of lesser size
than the milemakers want to be up to time than te main.
withe files for thations. When they can pro.
vide all the obtuse-angled pieces called for for the Vide all the obtuse-angled pieces called for for the
joining places of laterals and mains they will have done a thing that has been lacking in many quar-
tere. A lateral should enter a main at an obtuse
angle, not at a right angle. If the double piece heady a pair of hands, a hammer and a flie, can make a fit out of the material on hand. When the tiles are down, the filling in process is mechancal, it can be done with plow by rolling down the earth on the top. It is well, however, that with hoe or of the tiles some of the earth dug out last, and firm it well is the bottom wiich the feet. With the bottom securely packed the remaining filling can in charge.
when he begins are to be avoided by the farmer thing, he ought not to commence without counsel from somebody. It is a pity that not more in Canada are experienced in the work. But things are looking up, and the next year or two will see productive or unproductive. Let the farmer in eginning this work read the best articles on the seach, and use the best implements. For another thing, he must guard against listening to everybody, sphere as in some other spheres. If we listen to those who do not know much upon the subject thinkings, and supposings, and doubtings, and false prophesyings, we may be worried in a depart-
ment of tarm work in which there is a great deal of nent of farm work in which there is a great deal of
real pleasure. Let the work be done in the right ay, and as soon as possible, and it will mean tens of thous

Summer Feeding of Swine
The item of labor in porkmaking may amount considerable or it may be very nthe at thi season of the year anaking should commence soon
The process of porkmaking
after the litter is farrowed. The object should be o keep them growing as rapidly as possible from the first, because
day's feeding wing
those the better.

A series of green foods can be had in succession on most farms
ittle preparation. The clover field supplies the first pasture and will last in good order until the green peas are ready to feed. It is not well to
make sudden changes, as even a pig will get sick make usisely fed. The new food may be introduced
by throwing in a few forkfuls daily for a week before the permanent change is to be made. If there is then a small ateld of peas to be fed the pigs hurde a plot which can be "hogged off" thor
oughly without any waste. Along with this, if oughly without any waste. Along with this, if
sweet whey or skim milk forms the drink, which sweet whey or skim a larger quantity than eigh
should not be fed in a pounds per day to a full-grown hog, steady and profitable growth may be expected. After the pea
season has passed, second-growth clover or corn
will be on hand to form the bulk of the diet. As will be on hand to form the bulk of the diet. $A$
finishing time approaches, a grain ration compose of corn, peas, barley or shorts will be profitably
fed in conjunction with the green fodder. Fed in fed in conjunction wind upon which pork is produced this waye gained fertility. Hogs and hog products
wave been holding their own remarkably well this have been holding their own remarkably well this
season. As in days gone by, he is still the "gintle season. As in days gon.
man that pays the rint.

Shallow vs. Deep Tillage for Corn. A number of experiments in corn growing were carried on at the Missouri Agricultura, experime shallow cultivation received due attention The deep tilling was done with the ordinary walking cultivator run four times at the depth or
five or six inches. In the first cultivation the narrow shovels were used, afterwards the ordinary
shovels. having a number of narrow knives running an inch or more beneath the surface, loosening the path, but
effectually destroying the weeds in its path effectually destroying the wee
not lifting the soil sufficiently
in the hill unless quite small. gave the largest yield. ranged from cwt. In 1890 , nearly one-third more corn was produced on the plots tilled shallowly than on those receiving the or by similar trials at a These results are corroborated Sy Experiment Stions and the experience of the most
and other countries.

Timothy Hay.
While clover hay is preferable for feeding all
tock except working horses, it is the only sort for stock there is always a market. True, in a winter a good price, but we feel safe in saying that ninea goths of the hay sold was timothy. An admixture of other grasses and even a little clover seems to
militate against it in bringing the highest market militate against it in bringing the highest market
price. When the crop is to be sold the market
does not object to fairly well matured hay, but does not object to fairly well matured hay, but
when a. grower is to feed his own timothy, is a
mistake to leave it standing until the seed is about
formed. When this is done the stalks become
woody and thus less nutritious and less digestible than greener cut hay. The object should be to secure the greatest possible amount of assimilable nourishment for the animals, and according to common sense and the teaching of science, this
secured when the crop is cut as soon as possible secured when the crop is cut as soon as pors rid
after the first blossom appears. In order to get rid of the dust which is then present, it is well to delay
cutting until that blossom is blown off. Cut at this cutting until that blossom is blown off. Cut at thi
stage, with suitable weather for curing, and the stage, with suitable weather for curing, and The
best possible timothy hay can le secured. The heads remain perfect, the substance that would
make the seed if allowed to stand longer is all in make the seed if allowed to stand longer is all
the stalk, and the leaves are sweet and green the stalk, and the leaves are sweet and green.
In bright, breezy weather, timothy cut in the morning will be ready to rake up and perhaps hau in in the afternoon. By the employment of improved machinery the work of cocking is made disp of. The curing will be aided materially by a couple of runs over with the hay tedder. Which will
lighten it up to the sun and wind. When condilighten it up to the sun and wind . Mo mower may be kept at work a portion of each day, followed by the teder a couple of hours later, and the wagons
not far behind. The danger of having a large not far behind. The danger of hat spell is then
amount of hay damaged by a wet
reduce to a minimum and the work passes off reduced to a minimum and the work pass of ha
gradually and pleasantly, and the character of secured will be of the highest possible quality.

## Buckwheat.

Among the grains that have not "slumped" to any extent in price within the last few years is
buckwheat. This crop is grown more and more buckwheat. This crop is grown more and more
year by year in many sections, especially as a year by year in mare several places in the rotation in which it can be advantageously placed. As a regular grain crop it is perhaps the best on sow
upon dirty land, for the reason that it should not upon dirty land, for the reaso
be sown before $J u n e$
20th, which provides a grand
as opportunity for weed-killing before that time. As a destroyer of "couch" grass it is hard to surpass.
By its luxuriant growth this troublesome weed seems to succumb almost entirely. From three to
five pecks per acre is a good seeding. In a well-advanced sealy peas will ripen early, arter which a fairly good crop of buck wheat may be secured from the same land. It will ripen sown about August 1st, and furnish and hood return of fowl and hether or not it is desired to take a crop of seed from such a field, it will pay well to sow the land for a green manure crop. This willow for the following season, and add very mellow for the following sease its moistureretaining power in a high degree.
When grown for a grain crop it may be cut with
self-binder, shocked and threshed like other grain. It must not, however, be tightly bound in large. sheaves, else it will take a long time to dry.
It should not be hauled more than $a$ few days it should not be haulit will heat and mold. Carebefore threshing, a close covering to the rack when hauling is
shelling.
We would offer one caution. Do not sow it on and upon which a clean grain crop is to be grown the next season, as some of the seed that shells wiln
likely come up amid the grain. When feed grain likely come up amid the grain. jection to growing buckwheat. As a bee-pasturage
it is very productive of nectar, but the honey proit is very productive of nectar, but grade, but will
duced is of a strong, low-priced
answer well to feed the colonies upon during the answer
winter.

Good Silage.
Silage that is not good is either sour, moldy or otten. The cause of over-acidity is almost invari This is very often due to too thick sowing, which prevents the admission of sufficient sunshine to the ground among the corn while it is growing. A
crop of immature corn is simply a lot of water held by green, woody fiber. If corn has been planted
too thickly and has come up well, it will pay to too thickly and has come up well, it will pay to
thin it out by means of a hoo. In all cases we
want the corn grown enough and sufficiently ripened so that it shall contain the largest amount
of starch, which will, if properly put into the silo, of starch, whexcellent form.
come out in exk of moisture. It
Moldy silage is due to a must be moist enough when put in to till all the
material, else mold spores will develop and ma material, else mass together. Lack of moisture may
the whole mat do the corn being allowed to over ripen before cutting or else allowed to dry out after
being cut. When the crop has passed the glazin stage or been allowed to dry out after being cut,
sufficient moisture should be added when the silo is sufing filled to make up for the deficit.
Rotten silage is
Rotten silage is occasionally met with and is
invariably due to the entrauce of air. A slight crevice in the silo is enough to do the damage. To
sum up: It is altogether the best plan to grow
and corn suita each stalk bearing and maturing a good
admit of eat on
cob. Then cut it the the glazing stage and fill even
ly and compactly, as it is cut, into a deep, stiong ly and compactly, as it is cut, into a deep, strong
air-proof silo with properly constricted corners
Then there will be no over-sour, moldy or rotten

Road Improyement A note from Hon. John Dryden, Minister of
Agriculture, Toronto. Ont., advises us that the services of Mr. A. W. Campbell, C. E., Provincial nstructor on Roamaaking, wible, to visit localities requiring same, in giving assistance to roadmasters, municipal councils, without expense to the latter. As indicated in the May 15th FARMER'S ADVOcATE,
n which a portrait and sketch of Mr. Campbell appeared, together with a seasonable article on ance in the manner above indicated.
visited several localities in that capacity already.

Cement Floors.
Never a summer passes but a great many new oors are needould say to our readers who are conpens. We would say outbuildings, that one or two farms that have cement-floored stailes should be visited to ascertain what satisfaction expence are
giving. We may say from our own en wooden floors, even if they could be put in for hair Not only will they soon wear out, but while they manure, and are not so comfortable either for beast or man.

A Good Wagon Jack.
SIMEON SNYDER, Waterioo Coo, Ont:--"Take a piece of hardwood board, by means of iron brace
(G),into hardwood plank
(B). Then bolt on A the
pieces of iiron, E and F.
Take also hardwood for lever (C). Put ad bolt
through at D a
pretty strong one, be
cause it alone has to cause it ald
hold the weight. Th
fix in H, make a ho through C, put A through this hole, and let D hang
in one of the notches of E , and your jack is fin-

## DAIRY.

Making Championship Butter.
The Australasian gives the following description New South Wales) Show was made, 55 factories competing, each one sending 5 boxes:$85^{\circ}$ Fahr., after which the cream was passed over cooler which brought down the temperature to $60^{\circ}$ (Alpha separators-were used.) It was then pumped
into the maturing vat, when a starter was used to bring on the acidity to the desired stage, the cream being cooled down in the vat to $56^{\circ}$, and
being occasionally stirred. The next morning being occasionally stirred. The next after the milk was separated-the that is, 20 hours after the milk, was separatere use
cream was run into the churn, which before
was thoroughly rinsed out. Van Hassett's butter was thoroughly rinsed out. Van Hassett's butter
color, at the rate of $\frac{3}{4}$ Oz. to 100 lbs of butter, was added to the cream, and the churn was then started, added to the cream, and the churn was revolutions per
being driven at the rate of 38
minute minute. The butter commenced to come in thirty
minutes. The churn was stopped, the butter being minutes. The churn was stopped, the butter being in a granulated form about the size of peas. drain. A thorough washing in two waters was then given the butter, the last water coming away clear, and
being at a temperature of $60^{\circ}$ Fahr. The butter was being at a temperature of in the churn for thirty minutes, after which it was taken out of the churn and passed over the butter-worker, where
salted at the rate of four per cent, and one percent. of preservitas was added and slightly worked into
the butter. The article was then placed in a trough nd passed into a cool room, where kept at temperature of $50^{\circ}$. When taken out of the cool room in the morning the butter was again passed as possible and to at the right texture in the butter. Enamelled boxes were next brought into requisition, and in these the butter was packed, but not before a lining of parchment paper soaked in a solution of preservitas was placed in in the cool
The boxes of butter was then placed in the
room till they were dispatched for Sydney on February 11th. The outside t

The Argentine Republic is rapidly becoming an British competitor for the supply of butter to Brerations, though these were largely experi-
oper hental. Argetablished commercial success. Oatthe and grass are plentiful and labor very
cheap. Not only is the original cost of procheap. Not only is the original cost are de-
duction small, but peculiar advantages are de
rived from the Argentine currency. Since 1885 the rived from the Argentine currency. Since 1886 thing
gold premium has risen so high that the purchasing
power of $£ 1$ in gold is now equivalent to $£ 210 \mathrm{~s}$. in the depreciated paper money of Argentina, in $\left\lvert\, \begin{aligned} & \text { which, except as regards British } \\ & \text { expenses in that country are paid. }\end{aligned}\right.$

"Quality" in Cheese.
To the Editor FARMER's ADVOCATE:
The question of "quality" in Cheddar cheese is so important that I would ask permission to quote so im ollowing from "" Milk, Cheese, and Butter," by
the follo. The quotation is taken from the Royal
Oliver. Agricultural Society's Journ:
"The rich apperance of old cheese is by no
"Tributable to a very large proportion of means attributable to a very large proportion of
butter; n nor is the poor condition of new or badlybutter; nor is ther abore solely to a deficiency of but-
made." chese referabler foelcker further remarks in relation to
ter." wo cheese which he analyzed, that " In the opinion f good judges the Cheddar cheese No. 1, notwithmaller amount of water which it contained ( $30.32 \%$ ), was worth less than No. 4 by one penny per poundno inconsiderable aiference and skillful managepater and $33.15 \%$ butter-fat.)
In explanation of the changes which occur in the Che peculiar mellow appearance of good cheese,
Though due to some extent to the butter which it though due to some extent to the butter which it contains, depends in a higher degree upon a gradual ipening. The curd is hard and insoluble in water, but by degrees it becomes softer and more soluble; or,
peaking more correctly, gives rise to products of ppeaking more correctly, gives rise to products of his ripening process is improperly conducted or the original character of the curd is such that it dapts itself but slowly to this transformation, the tough, and appear less rich in butter than it really s; while in a well-made and properly-kept cheese ffected. Proper ripening thus imparts to cheese a ich appearance, and unites with the butter in giving it that most desirable property of melting in in this melting property, and accordingly proeevertheless found in them a very high percentage rich taste of cheese is not entirely, nor, indeed, chiefly, due to the fatty matters which it contains." The above corresponds with our experiments during the past two years. Wede have found that ter-fat had all the desirable qualities of a mellow, melting" Cheddar cheese. At other times cheese" by the experts. Evidently there is a something in the preparation of cheese for ripening (because the imple making of cheese is nothing more or less han a preparation of it for proper curing or ripen yet understand. Why are we ng) which we do not yet understande to make first-class chese from milk of similar quality day after day? Either we do not obtain the proper condition for and during ripen-
ing or else we do not always obtain the right kind of ripening agents or ferments.
Ripening of Cheese - Very little work has yet occur in the ripening of cheese. The change of ndigestible curd into digestible, palatable cheese i ot largely a mysstery. average loss of weight at the Guelph Station at the end of one month on cheese weighing 28 to
pounds (143 in. diam.) wase from four to five per cent. Van Slyke reports an average loss of wate is reported by him as being 26.58 per cent. of the
total moisture in the green cheese and the loss of solids $4.88^{2}$ per cent. He reports : "No loss of fat in five months, but a loss of Stasein." The Guelph Station found the per centage loss of moisture to be 14.9 ; of fase
of casein, 15.3 at the end of one month.
In addition, the New York Station reports
Nase "Ohanges in form of casein in ripening of cheese. pounds increased very much in ne nitrogen in the form of ammonium compounds, while at five
months there was 2.92 per cent. of the total nitrogen in the cheese in this form." This Station facture of which the largest amount of rennet was used contained considerably more of the soluble nitrogen comp
As we understand it, the soluble nitrogen con rendered more easy of digestion. This accords ing or ripening effect on cheese, and that th larger the quantity of rennet used, other thing or ripen. We have also noticed a strong smell of ammonia when boring cheese about $1 \frac{1}{2}$ years old. paration for and changes in ripening cheese is a much light on the cause of good and bad quality in Cheddar cheese.
Dairy Dept., O. A. C., Guelph Manitoba has had a phenomenally wet spring.
On some farms in the low-lying sections little or no
seeding had been done up till the end of the third coendition. May. The roads have been in a deplorable

The Babcock Test in Cheesemaking. Compiled from a papor given by Prof. Raboock before the
Wisconsin Cheesemakers' Association.] For more than twenty years after the establish ment of co-operative dairying in Wisconsin profits were devided among patrons in proportion to the faction until watering or skimming was suspected At that time all milk was considered about equally valuable, and the cows were almost entirely natives or "scrubs." The introduction of pure-breds of the Jersey and Guernsey breeds brought in animals who owned Jerm. who owned Jersey cows were not content tho poi kept their milk at home and made butter. To such an extent was this carried on that the factory system was seriously threatened. The introduc
tion of the simple and accurate Babcook test has already solved the question for creameries, and in this class of factories to-day, the world over, the equitable basis for dividends.
The proposal to adopt the same standard for cheess factories has from the first met with con grade of milk. It was claimed that when milk contained more than 3 to $3 \frac{1}{2}$ per cent. of fat the excess was always lost in the nothing to the yield or quality of chese, and whe cathing to the yield or quality that both the yield and quality of cheese improved with the per cent. of fat in the milk it was said that the improve
ment is not proportional to the increase of fat, and ment is not proportional to the increase
To show that such objections are invalid, Prof Babcock presents the results obtainents. Dr. Van of careful and extended experiments. Dr. Van
Slyke, of N. Y. Station, conducted experiments in a large number of factories for two seasons, when
the composition of the milk and yield of cheese were noted. Without koing into details, it will suffice to say that Dr. Van Slyke concludes that
with normal unadulterated milk, containing fro three to five per cent. of fat, the yield of cheese is nearly proportional to the fat, averaging for the
two years 2.72 pound of green cheese for each pound of fat.
The dairy
The dairy students from Wisconsin Dairy Schoo working for a dairy certificate are required to send
monthly reports of their work to the School. These reports show the per cent. of fat in the milk and the yield of cheese. A compilation of 34 or thes production of nearly $4,000,000$ pounds of cheese, showed almost identically the same yield of cheese for each pou Slyk.
There is, however, another factor to be considered, and that is the influence of rich and poor milk upon the quality of cheese. Although authorities dis
upon this point, to Dr. Babcock's mind there is no question but that rich milk properly handled makes a better flavored, better textured cheese than poor milk, and that the difference is sufficient to folly pound of fat in the richer milk.
The result of the "Columbian" cheese test also confirms this teaching. milk was nearly one per ensey of fat. Now, if the milk from the two breeds had been pooled and the cheese actual the mill ivided between them in proportione received 86 pounds of cheepe less than it was entitled to, and, enefit of this. If, on the other hand, the cheese would have received about seven pounds more than they were entitled to and the Shorthorns corre pondingly less, the error in th when the quantity of milk alone was considered. This is upon the basis of yield, no account being taken of the quasity of
the cheese. The quality of these cheese was determined by three independent judges, the price epending upon the scores. Fixed in this way, the average price of the Jersey cheese When this is taken
than the Shorthorn cheese. Whe is almost directly proportional to the fat.
Another advantage of the relative value plan is conclusion, Dr. Babcock refers to Prof. Dean's plan of adding two per cent. to the fat reading. This gives por milk an advantage and in dividing it
actual yield of cheese more nearly than of fat. in proportion to the true per cent. of consit considers only the yield and ignores the quality of the cheese produced. Another, is the skimming of milk, and, carried to an extreme, makes separator skim milk, from which practically for cheese production as whole milk containing four per is contrary to the best interests of the cheese industry. When anydiscrimination is made
it should always be in favor of the better class of it shoulas it is more nearly just to all parties con-
milk,
cerned than any other practical plan yet proposed.

The German Reichstag has voted against the
trade in options and futures in agricultural prod

U. S. Filled Cheese Legislation An important subject has been agitating the
ainds of American Representatives and Senators ever since the opening of the last session. It is
what is known as the " Filled Cheese" Bill, and What is known as the "Filled Cheese" Bill, and products, who now feel proud of the success of the passage of the measure by good majorities through
the House of Representatives and the Senate. American dairymen are heartily sick of feeling Ahat American cheese has been a by-word for adul teration at home and abroad, hence
efforts of the promoters of the Bill.
The provisions of the Bill, to sum up briefly, rovide for a tax of one cent per pound to be paid y the manufacturers, and actory in which "s filled cheese" is made. A icense fee for wholesale dealers, of $\$ 200$ per year, and a fee of $\$ 24$ per year for retail dealers. It also o that no mistake can be made in the character of he goods. Both wholesale and retail dealers must display in a conspicuous place in their places of dealers in filled cheese shall sell only from original, stamped packages, and shall pack the filled cheese, when sold, in suitable wooden or paper packages, with rules and regulations to be prescribed by the Commissioner of Inland Revenue, with the approval of the Secretary of the Treasury. Now that he Senate has put this just and honorable Bille so no doubt about its favorable treatment at the hands of the President. A late dispatch from Wash-
ington states that the President has signed the Bill.

## Swine Feeding at the Factory

BY F. J. S.
There is considerabe to be made this industry
well and wisely followed, and, doubtless, if not so followed much may be lost. The present position of the work, as it usually desired. There is a tendency to quantity rather than quality throughout the work. To turn a tap and shorts or ground wheat, barley, oats, or other
grain-to do this three times a day is not all of grain-to
swine fee
feeding is feeding is that. the profit accruing is in proportio The Whey and the Whey Tank.-Whey should be fed sweet as far as possible. It cannot be always so fed under these conditions, but it may be
fed while it is not more than mildly sour, even at the factory. The statement will bear consideration that good cold water is worth more, pound for
pound, for feeding swine in hot weather, than excessively sour, off-flavored (rotten) whey; neither is it possible to make good pork from such food, any more than one would expect an erg byyard The second point of importance in the condite
whey is uniformity. But how shall we secure these whey is uniformity. But how shail we secure these
conditions? First, the tank that receives the whey from the factory should be thoroughly
cleaned every day. Foulness is unnecessary, un cleaned every day. Founness is unnecessary, un
justifiable, and unproftable. This should be done after the morning's feeding and before the day whey comes off. Thirty ( 30 ) minutes on the end o a long-handled brush, by the man in charge, wil
do the work. Cold or tepid water at first, then hot water, brought from the factory by the whey
trough, are the necessary adjuncts, coupled with trough, are the necessary adjuncts, coupled with a
steam pipe to complete the work. No labor around steam pipe to complete the work. No abor around
the pens will give better returns than this. Not only so, but it is absolutely necessary for the best doing of swine and for the highest quality of pork; while
the cheese in the factory adjoining demands every possible precaution to suppress foul odors. possibe precaution to suppress foul odors.
pound of whever be found in the tanl
when the days "dipping" commences. Such be when the day"s "dipping" commences. Such be-
comes a mother ferment with disastrous results. All surplus whey should be run off. Surplus whey
and tank washings should be piped to a blind well and tank washings should be piped to a blind well or other suitable place. The former can often be
sold at a profit in the neighborhood. Feeding. - But how should whey be fed? Often
when abundant the pigs are fed too much of it when abundant the pigs are fed too much of it.
This whey is much worse than wasted. Not only This whey is much worse than wasted. Not only
is it no use to the animals consuming it, but a posi-
tive injury to the digestive apparatus tive injury to the digestive apparatus. A clever feeder will detect unerringly the boundary line by the cond One is constrained to say at times, How danger. One is constrained Most of the success or
few men can feed a pig! Mep
failure of swine feeding depends on the man in charge. The largest feed of whey should be
given at noon while it is sweet, the next at evening, and the least in the morning. Clock-
like regularity is essential-less is not enough. like regularity, is essential-less is not enough.
Faucets in the reciving tank will open directly the a pipe conveying the whey to the troughs in
the pens, which latter are best arranged, as is
usual, on each side usual, on each side of a central passage. Feeding
swine together in a field lot exposed to the sun and rain and flies, with insufficient trough room for all ground, is a practice not endorsed by successful
grattering whole grain on the wine feeders. A single trough running the full
length of the building, supplied by whey which runs to all the pens on one side, is, we think, a poor system. Each pen should have its separate
trough, without communication with other pens. The whey may be supplied with little more labor
and the feeder may then have a chance to exercise
his judgment and his skill, not alone with whey
but also with the grain ration. The square is preferable to the $V$ trough. The pigs having drank all they need, the grain ration (ground) should be
given. Shorts at current prices is one of our best and cheapest swine foods, especially for young For pigs four months and under, shorts and barley peas and oats, the latter ground fine, make a splen did ration with whey With advancing age corn grain) makes a very desirable addition, being per fed. The proportion of corn should depend on the age of the animal and the nearness to "finishing. certainly not by pouring them on top of a trough Too watery a mixture results in imperfect diges
tion-less pork for each pound of grain fed. This is a very important dietetic maxim: It is better to is a very important
feed the grain dry than very watery. It should be
mixed with whey till of the consistency of mixed with whey till of the consistency of pail. This may be done either in each trougy ofte
We think twice a day of onough to feed the grain ration-morning and Pen.
Pe would regulate by the trough room, and there ore have pens wide rather than deep. The floor should be water-tight and sloping to the gutter at stench. With a wide hoe or scraper one minute
will serve to clean the sleeping floor and gutter of each pen, which is best done while the pigs are each diay. A cistern at the end and outside of the building will receive the cleanings of the pens, pumped into a tight box on a wagon and drawn on turn a handsome interest on the whole investment As the season advances, should whey become
scarce, we would recommend to mix the food with water as a substitute. A plot of green corn under these conditions would return a neat profit. A gutters will do much to preserve sweetness and will gadd to the value of the manure. A mixture of wood ashes, salt and sulphur kept in each pen will pay oods thrown in occasionally are excellent. Under this system and routine one man can attend

Good Standard to Work T
A very good annual average yield of milk is
got 5,000 pounds instead of 3,0ad of 125 pounds. Many herds kept in a plain, practical, farm fashion attain still better results. There are manifestly many cows in the ce the value of their annual cost, however cheap and wastefully poor their keeping may be. It is apparent that if but two cows were kept,
of the suggested standard of production, in place of of the suggested stane existing average quality, the aggregate products of the dairy industry of the country would be increased more than ten per cent., while the aggregatelly would be. Every possible influence should be exerted to induce dairy farmers to weed out their herds and keep fewer cows and kept for dairy purposes should be brought up to a respectable and profitable standard. For the present the cow owner may reasonably require something over two gallons a day for the next four, and at least two months more in milk during the year, with constantly decreasing yield. This provides
for an annual yield of 5,000 pounds of milk, or about for an annual yield of 5,000 pounds of mida, or aboun
575 gallons, which is a fair ideal standard for the dairy cow in the United States.- From Alvord
Statistics of the Dairy ; Bulletin II., U. S. Dept. of Agriculture.

French Rules for Milking.
(1) Work rapidly ; slowness causes loss of cream. (2) Milk thoroughly, to the last drop, because the lasi
milk is the best. (3) Milk at the same time every day. (4) Milk cross-wise-that is to say, one fore ice versa; the milk thus flows more copiously than by parallel milking. (5) Milk with five fingers, not milkers. (6) Do not employ any kind of milking machines. (7) To milk young, restive cows, rais keep the hands clean, and also the cow's udder and dairy utensils. (9) During milking avoid distracting or disturbing the cow. Those who neg,
these prescriptions infallibly lose milk.

The Cost of Milk Production. On the basis of a year's observations with the herd at Cornell University Experiment Station, H the following conclusions
1st. With a fairly good herd, carefully fed and cept, milk can be produced for sixty-five cents per

2nd. That individuals of the same breed vary
more widely in milk and butter production than do the breeds themselve dry material per 1,000 pounds live weight per day than did the smaller animals.
4th. That in general the best yields of fat were flow of milk.
5th. In general, the cows consuming the most
food produced both milk and fat at the lowest rate. food produced both milk and fat at the owest rate.
6 th . For the production of milk and fat there is no food so cheap as good pasture grass.

## POULTRY.

A Farm Poultry House.
To the Editor Farmer's advocate
SIR,-I herewith send you plans for an inexpensive farm poultry house. Fig. 1 represents a per-
pective. Fig. 2, a plan ; and Fig. 3, an end elevaspective; Fig. 2, a plan ; and Fig. 3, an end eleva-
tion of the same. Two noteworthy features in the
 Wire nails, first countersinking for the same with half-inch bit the proper depth so as to give the
nail a good hold in plate. In boarding up on the outside $I$ should of course first tack on my tar paper, then take boards $12^{\prime}$ wide and nail on under
the eaves of south side, then nail the others vertically as shown. By manipulating thus, a 12 -foot
toard sawn in two will answer for front and rear board sawn in two will answer for front and rear
of house. For inside of poultry house, tongued and of house. For inside of poultry house, tongued and
grooved lumber should be used ; hemlock would do grooved lumber should be used ; if not dry I would and it should
advise tacking it up for a season until it got
thoroughly cured ; of course, tar paper should thoroughly cured ; of course, tar paper should
be used same as outside. If waterproof paper be used same as outside. with sheeting and shingles wer roof, it, no doubt, would be much better for
foreserving an even temperature through the winter preserving an even temperature through the winter months. Nests for Leghorns, 14 inches high inside; opening, 6 inches wide and cut down half way. They are shown in
dotted lines in plan, and arranged one above the dotted lines in plan, and arranged one above the
other as shown at N in end elevation. The win dows should be as low as possible so as to admit of dows should
the sun's rays at dust boxes. and they should be
double if winter eggs are double if winter eggs are re-
quired. Double doors are a necessity for poultry houses, one to swing inside and the
other outwards. The ordi-
nary droppings board is disnary droppings board is dis-
pensed with in this conneo ion, and $21 \times 3$-inch cedar
cantlings placed about three inches apart are arranged in its stead, thus allowing the the pit below. The two dots at P in elevalion indicate
perches, and should be samed
size as those below at B, and
can possibly be got, as dry
design of this house are in the extension of the roof and receptacle for winter droppings; the one
preserving dry earth or dust continually through the summer season, which is so essential to the health and comfort of the flock, and the other in
reducing the labor of those in attendance to a conreducing extent, and at the same time preserving
siderable
the manure until such time as it is wanted. This the manure until such time as it is wanted. This
poultry house is $16 \times 20$ feet and designed for 50 owl and sho
into two flocks.
In building this house a trench should be dug
about 2 feet deep by 18 inches wide, then filled in


Fig. 2.-Ground Plan.
with small stones to level of earth, after which pletes the foundation. Next come $2 \times b^{\prime \prime}$ sills wel bedded in with mortar-and do not be afraid of using too much of this-thus preventing rats and
mice from scratching their way through into the house. We are now ready for the frame work which is composed of $2 x 4^{\prime \prime}$ studding and 4 x
whin pates. The studding in front, or south side, are
feet long, and for rear, or north side, 5 feet long. should use $132 \times 6^{\prime}$ rafters on a side. On the north
they are 134 inches long from heel to toe, and on
 the south 80 inches from heel to toe. In cutting
bevels of rafters, take the tigures representing the half span, and wheh lines and arrange them in th
orm of a fraction, ihm: now dividing these say, 10, we get, $10-$ Now these figures,
their equivalent, ate those which are used in cu ting the said b
and 12 inches blade to cut heel, or that :,... and tongu
allowed fo
nailing th

A Cheap Egg Tester
The reputation for always offering fresh eggs
sor is certainly worth something when the
the purchaser is to be dealt with week after

## same material if

 dar is such a good nonconductor of cold. Th concentric circles at C represent a piece of canvas poultry will appreciate if attended to and let down winter nights when mercury is descending The dust boxes should be of convenient size and novable covers to keep dust clean when not in use a bath once a week in winter will suffice. The partition through the center of the wire netting of say 3 -inch mesh to complete, fastening the same to boards above at D, which, are part of partition. The longitudinal partitions as seen in plan andelevation should have small windows in, as there are none in the rear of the house.
are now, this house as viewed in plan and elevation is intended for winter use only. A general clean-
ing and transformation should take place about the ing and transfor mation should take place about the
first of April. The droppings from the pit should be removed, and the longitudinal partition taken down and set aside, to be used again on the
approach of another winter. The perches should be taken down, cleaned, and set up again in the more coomy part of the house. If these perches
are sun-chinked so much the better, as then they are sun-chinked so much the better, as then they
make excellent traps for lice, and they can be dismase excelenhort order by scalding with boiling
posed of in shater
water. I think it would be wise to hang these summer perches from above with, say, three-eighths
inch iron rods, and within about three feet from floor. Droppings boards may be used to advantage in the summer months, although they are a harhor
for lice, and therefore should be of a portable for lice, and therefore should be of a portable
nature. My plan would be to have one under each perch, of the proper width and supported by iron legs and these legs set in tomato cans. Perches or the house through summer months, if one desires keep vermin down to a minimuim.
The canvas (C) should be lowered and made fast that the fowl can bot get up and squat in their winter quarters. Two small doors should be constructed in the rear of the building, through which the droppings may be removed, and care should be
exercised in fastening in the fall, so as not to admercised in arastening in particle of cold. For water aprangement weck. This can be obtained only when absolutely
fresh aggs are offered. While a person is ever so tresh aggs are offered. While aperson is ever so
careful and honest, a stale egg will steal in among
the good ones during the hot weather, especially the good ones during the hot weather, especially
when they are fertilized. The use of an egg tester,
however, will certainly be of value in preventing

 Hiance for testing angs, which is made as follows:
ait an old stovepipe and set it over a lamp;

云
now with a aran-penen cut a two-inch hole in the

 inct hole ond it and sew the ends, with the hole in the eloth over the twoinch hole in ine pipe pipuch
 not ocot you anything, ast the testarer can be made of
 fioctom an ant opp melted out. To teat eggs simply doth A perrectly treah egg is clear and alike
 at the large endo.and a ititlo latera a oloudy, spidery mase Any departura from the uniformiy

More and Better Eggs.
What I Is it really popsibie that the roostien still alloweas is at an end? To put it plainly, or if positive injur to the busin ness of eqgy production, as wo pointod outh in alet issue, and wher
hase been conclusi inely proven by a series of experihas been conclusivily proven by Eeries of texperiExperiment Station, which hhowed that when hens are erept without a male, eggs are produced at bens where cooks and cockerels are kept. In some pens, too, the production of eggs was nearly, thirid larger in lots where no matere kept than in
Amilar lots having males present. Not only are
 animbers, but
fold
fold and more.

ENTOMOLOGY

## Injarious Insects -- June (2).

> ay Prop. James kikithrr, Lit

Several letters of inquiry have been received from readers of the FARarR's A Avocita concerning feld and arrden pests. These are for the most part with reference or less injury in every locality year and do more or less injury in every locality, that no special information was necessary. A letter comes from Picton, ont., stating that fleabbetles are competing with cutworms to see which can do most injury to root crops. Turnips and mangels have suffered very much, and ent cut
worms are so numerous that they are destroying worms are so numerous that they are destriogin cut off even with the ground. For these atter then most effective remedy would be that whic was mentioned in n y l last articie, oriz, distributing
amond the plants to be protected bundes of poit
 Stancee aliono of itit turning pouitry into gardens will frequantly be a weefte meaure, and ayoung coop so that she cannot do injury by scractecing,
 this insect (which is shown in the figure,
gruibe , very much
nuch
 the mustard and cress family froci
ferue.
The mature beetes pass the etc, and come forth early in spring,
ready to attack any plant of the above tamily. They are sometimes therious enemy on

 our and deren findzesitted road dust. The poiso

 aptyng this poteon, have ound of the mixture it bag of fine musin or cheese clooth and asstring.

 Yigorous growth by the land plas
There are several broods of the turaip fieabeetle




 succesfouly whit abhe emene reme ty, and it thas also
been found that when potatoos and tomatoes have
een sprayed with Bordeaux mixture to protect been very satisfactory in preventing injury by the cucumber beetle.
The Colorado Potato Beetle. - This wellknown and troublesome pest will demand the
attention of farmers and gardeners during the rest of the growing season, and in reply to several
inquiries I would say that there is no remedy so nquiries I would say that there is no remedy so n powder, as for the turnip flea-beetle, or mixed
with water in the proportion of one pound to 100 gallons of water (for the potato).
Paris Green is the standard remedy against
all mandibulate or biting insects. It is a chemical combination containing chiefly arsenic and copper, about 60 per cent. of it being arsenic. It is to this
latter it owes most of its virtue as an insecticide. Itter it, It owes most of its virtue as an insece almost an ideal material for the purpose to which it is applied by entomologists. The danger of its being mistaken for some other substance of a harmless nature is reduced to a
minimum by its characteristic bright green color, the color green being very generally recognized as indicative of poisonous properties. Its insolubility likely to be exposed renders its use very simple, although this fact also necessitates the constant
agitation during the application of all liquid mixtures containing it, in order that the Paris green, which is very heavy, may be kept in suspension
uniformly through the whole liquid. Its fine state of division makes its dilution, either with liquids or dry powders, very easy, and its extreme virulence
as a poison makes it possible to dilute it very much indeed without loss of its efficacy as an insecticide It has been discovered of late years that by mixing an equal weight of quicklime with this arsenite
the caustic effects which sometimes follow its care less use on vegetation can be in a large measure
prevented. This discovery has simplified immensely the question of the most suitable remedy for of one pound of Paris green, one pound of quick lime and zol gailons of water may be recommended more convenient to apply the poison in a dry form, it may be mixed with fifty times
any dry and finely divided powder.
From inquiries made from time to time at Farm ers' Institute meetings it becomes advisable to draw special attention to the fact that Paris green does not dissolve in way have been mixed it is necessary to stir up the mixture constantly while it is being applied,
bottom.

## Wireworms

A pamphlet recently issued by Miss Eleanor A. Ormerod, . E. S., upon the wireworm, contains we hear occasional complaint is one of the most mischievous of insect enemies. They are remark ably long-lived, for they conthee to five years ac cording to circumstances. Their depredating work consists in not only totally destroying great num bers of growing plants, but great quantities hats of going from one to another, taking a bite here and there as they pass.
In their mature state they are the dark gray cy their habit of springing with a click to their feet when left lying upon their backs.
These beetles lay their eggs in the earth, close oaves or amongst leaves near the ground, and such places as grass pastures or clover lees are especially preferable. Wen fuths inch long, smooth, shiny, and yellow or brown, almost round in form, and possess three pairs of short legs near the When about to turn to the chrysalis state they go deep down into the soil $n$ which they change to the and thence to the beetle condition.
which are peculiarly applicable to England, with it large sheep flocks, are to pasture down infested plowing it. For this purpose sheep and cattle how we hurdled upon small areas at a time and fed with oil cake, corn or other feeding gatuffs, so
that each inch of the land shall be trodden and eaten bar
Amongst àressings found serviceable for applica tions to land before breaking up are salt, lime an
gas lime. Salt, from five or six cwt. to ten o gas lve cwt. per acre. Lime given hot so as to burn
twelver wireworms, is recommended. Gas lime is particularly serviceable when the ground can stand the dressing of from two or three tons per acre to be
come oxidized and thus less harmful to the suc ceeding crop. $\quad$ It is well to apply stimulating manures, such a nitrate of soda and superphosphate, and roll the thoroughly treated, and
beyond the tender stage.

GARDEN AND ORCHARD
Cultivating the Onion Patch.
An important crop to many farmers and garden responds well to liberal cultivation and carefu attention. The operation of stirring the soil should commence as soon as possible andell grown, cultiva tion can hardly be overdone. It is well to stir th surface as soon as practicable after a rain, so as to prevent the formation of a crust on the surface
Wheel hoes are altogether the best, both for expedi tion and thoroughness. Horizontal and vertica cutting attachments each share in doing the work
well. The former are best to use while the plant well. The former are best to use while the plant
are small, because they throw the soil away from arether than to the plants. The vertical knives do better work when the bulbs begin to bottom, when care must be exercised not to run them deep enough
to injure the roots. The double wheel hoe, which straadles the row, can be used successfully with car as long as the plants are not large enough to be
injured, whereas in large plants the single hoe must injured, whereas in large plants the single hoe mus be used to do the work. When the onions are
bottoming, an attachment should be used which wil
throw the soil away from the rows. By attehding throw the soil away from the rows. By attending
carefully to surface tillage, a crop will be insured carefully to surface tillage, a crop will be inse tho land is rich an application of quick-acting fertilize Staking Tomatoes.
Some of the advantages of staking are: The ruit is never on the ground ; it ripens much more easily gathered, none being missed; the vines are not torn or trampled upon; and the yield is much in xcess of what Drive small stakes in rows 31 feet apart and two eet in the row. They should stand three or four When the plants start side branches, cut them out, using a small, sharp blade of a pocket knife, and always cutting from the plant to avoid danger of injuring string.
a rag string. Allow no shoots to grow, and tie every foot, or as the plants seem to need c. When they reach the top of the stake, clip the center. There will be to the large clusters of fruit that are grown on one stalk. Sometimes two main sta string but never a grow, both being tied with one string, but ne,
side branch. This may seem like close cutting but
fat fact, not theory, verifies its virtue. I once helped my brother care for 350 plants in fancy prices for none but the very earliest, and
selling the last as low as 25 c. per bushel. $-[A m$. selling the las
Agriculturist.

## VETERINARY

Home Treatment for Farm Animals. rom an address by F. Torrance, B. A., D. V. S.,

Continued from page 99 )
(Continued from page ${ }^{\text {wounds. }}$
words as to the home treatment of wounds. cidents to farm stock of very frequent occurrence,
and experience tells me that the majority of farmers have something to learn regarding the treale a general rule, it is better not to stitch then together, unless it is done by a surgeon, and fo
this reason: These wounds are generally of this reason: These wounds are generally of a
ragged, irregular' shape ; and if they are deeper ragged irregular shape, and are badly lacerated Now, in order to get the benefit of stitches the
wound must be brought together, muscle to muscle, wound must be brought together, muscle on muscle
skin to skin, with no gaps between them anywhere skin to skin, with no gaps retween them more skill in proportion to the extent of the wound and the
amount of laceration. If the skin alone is drawn amount of laceration. If the skin alone is drawn
together and the wound in the muscle beneath together and the wound in the muscle beneath
allowed to gape, the stitches only have the effect
of keeping in the matter which is sure to form in of keeping in the matter which is sure to form in
the deeper parts of the wound, and healing is the deeper parts of the Wound, anden, as a rule,
delay ed instead of helped. Stitches, thene
should be avoided. There are cases when they are should be avoided. There are cases when they are
absolutely necessary, but these are cases where talk to you about the injuries which you would not hesitate to treat yourself. If the wound is
small, clean, and not bleeding, the less it is med. dled with the better. Any wie ragged elt sharp pair of scissors; and if it is not fly time, nature
will do the rest. A protecting scab will form over it and healing will go on satisfactorily beneath it. But this is only in small wounds which have not hto them. These rectuire cleansing, and this and boiled water containing a little carholic acid. Don't take a dirty pail, an old sponge, and the
first water that comes handy. Instead of cleansing the wound you are really making it fouler than ever, by planting the germs of suppuration in it.
You may wash out the hair and dust, but you implant the bacteria, which will develop in the wound

THE FARMER'S ADVOCATE.
June 15, 1896
and cause it to suppurate. After the wound has
been cleansed with plenty of boiled water and a ceen cleansed with plenty of boiled water and is usually dressed with carbolized oil. There are better appplications than carbolized oil, but it is so well-known and widely used that it is prized oill should onot contain more than 10\% of pure carbolic acid, and may be freely applied to wound two or three times a day. Do not apply any caustic substances by the application of fresh lime,
great harm done by
powdered bluestone, and burnt alum to wounds, and I caution you to sovoid them.
that pus or matter will be found in irred it is like out of it, and care must be taken to see that the matter can get out freely. If there is any depencng parmain, it should be syringed out with carbolic acid and water twice a day at eeast. Soap and wate the matter from forming foul crusts around the mound, and after each wash
alline deeper parts of the wound will now be seen sometimes, under the mistaken idea that these are "proud flesh," they are burnt off with caustic This is onlling up the breach, and if it is persisted in will delag the heaing process considerably These granulations should not be interfered with the level of the surrounding skin. Then the appli cation of caustic substances is indicated, and powered bluestone may be sprinkled on the woun lunar caustic.
The wounds made by barbed wire are seldom fol owed by much hemorrhage or bieeaing, but some
 In these cases there is often no time to send for surgeon, and if anything is to be done. it must be
by the people at hand. There are several ways of by the people eding. Some of them, such as the
stopping bleedin. appication of a ligature to the wounded blodesssel, are ont ion of pressure to the bleeding point are within the reach of anyone. If no bandages or appliances are at hand and the animal is losing blood fast, do not hestate, but plung the han after another to find the bleeding vessel, and when it is found, keep the fingers firmly pressed on it until bandages, etc, can be proa shape and size to fit the situation, place it quickly in position and hold it there while another is prepared a little larger and laid over the first, and so on until the
wound is filled up. Then apply a bandage ound wound is thed led or body, as the case may require, to keep everything in place. This bandage, if properly
applied, should not be taken off for at least twentyfour hours, when it may be carefully removed. four hours, when it may te carefuly beemoved. stopped by pressure, not on the wound, but on the plood. Thus, if an artery is wounded (you will bnow. it by the blood flowing in in istinct yeten, the blood is coming from the heart to the wound, and the compress must be appied berne when a vein is
and the body. On the other hand. opened, the blood is flowing to the heart from the openemity, and the compress must be applied be-
extreen the wound and the foot. A compress of this tween the wound and the foot.
kind must betight enough to stop the circulation, and for this reason should not be applied for any great length of time, or gangrene, or death of the part be
low the compress, will resalt. But as a temporary low eans of stopping the bleeding until surgical aid can means of stoppit it should be known to every stock owner.

## APIARY.

Hives.
As the number of colonies increase, hives will of necessity have to be supplied. In regard to the
particular style or form of hive to be used it might particalar styat an experienced apiaisist may be be that successful with any of several sorts which receive
facerable recognition. Frame hives managed with favorabe recosd skill are essential to the greatest
intelligence and success, while inaccurately made frame hives, neglected, as is too often the case, so that the
combs are built irregularly between or across the frames, are not one whit better than box hives. frames, ate accurately built hives some attention with regard to spacing the frames is necessary
while comb-building is going forward in order to while comb-building is going torward
keep them separate one from the other.
The frame and hive most in use by progressive bee-keepers is the invention or the venerasie and
much-lamented the late Rev. L. L. Langstroth. much-lamented the late Rev. Liv L. Langstroth.
It is known as the Langstroth hive and is so commonly popular that a description is hardly necessary at this juncture. It will suffice to give the
important dimensions. The outside dimensions of important dimensions. and upon which the patent expired years ago is 178 inches long by 91 inches exep. This is made of seven-eighths inch wide bars,
deep a rule, but it is considered an advantage to have
as as arule, but say an inch wide and the bottom one
the top ban bo
one-haff or five-eighth, so that it can be asily one-hafir or hive-hive when full of honev: : It is al-
lifted from the have the top bar quite five-eighths
wivs well to have the
nch thick so that it will not sap and break the will do one-foutth inch thick. The top bar must project about three-quarters of an inch over the rabbets of the hive.
The frames should be made one-quarter inch horter at the hottom than at the top, which wen he frames and the bottom board on which the hive ests, one-half inch space answers, but five-eighths nch is preferable.
The hive to hold the frames should be the
lainest kind of $a$ box, the frames resting on rablainest kind of a box, the frames resting on rabrith joint locks, as shown in the accompanying
igures taken from Frank Benton's Bee Manual,

ssued by the Washington (U. S.) Dept. of Agriculture, and nailing in both directions, makes a strong hive body. The latter may be single-walied prac
nild climates or where cellar wintering is prac ticed, but for severe regions it is advisable to have
permanent double walls with the interspaces filled

with chaff, ground cork, dry sawdust or similar material, or else outer cases should be provided, giving space beer.
for dry packing.
Thidth of the hive will depend, of course, apon the number of frames decided upon, 1 is inches being allowed for each frame a at the side a top story to contain frames for extracting is such as to leave the space between the two sets of in the lower story, the space between the ends of the frame and the h
three-eighths inch.

Shipping Comb Honey
No doubt some bee-keepers will soon want to
narket comb honey, which can usually be disposed of locally. The larger apiarists, however, usually like to sell in a wholesale way, when some sort of a
shipping crate must be used. The shipping cases

herewith illustrated represent an axcellent style box in different sizes, It will , noticed that the
front is of glass, which will show the houev good effect.
Comb ho
Comb honey to be shipped finvid have the se tions we The sections should be
round, to
light


QUESTIONS AND ANSWERS



## Veterinary.

bronchocele on young heifer.
J. E. BENNETT, Ontario Co.:- " Will you please advise me with regard the windpipe is enlarged twice its ordinar size, and she breathes heavy at times. The neck is in good condition and thriving splendidly. She is in good condis actinomycosis? I am treating her for this as you hatment surely cure the dis. ease, if taken in its first stages?
[From the fact that you say your heifer is in good condition and thriving splendidly, we do not think that it can be actinomycosis. Generally as a result of this disease the teeth are involved and do not serve the purpomes poor in condition We are inclined to the belief that your animal is suffering from a form of "bronchocele," which is interfering with respiration, causing the enlarged windpipe, and unless it appears to give great incon venience, should not recommend any treatment The treatment of actinomycosis by the adminis tration of iodide of potassium always bee succernl

Dr. Wm. Mole, M.R.C.V.S., Toronto.]
perhaps pernicious angemia.
Robert Haywood, Emerson:-"I have a 11 year-old mare; is a big beast and looks strong, an as put to work goes off her feed and, plays out. can see nothing the matter with her
[You have not stated how long your mare has been in the condion you have mentioned, an from the limited description of the diagnosis. It is possible that the animal may be suffering from "pernicious anoemia," a microbic disease which is quite prevalent in several parts of this Province and is of a somewhat fatal character. I would advise you to have the case examined by a com petent veterinary surgeon.
. A. Dunbar, V. S., Winnipeg.] SICk fowls.
A. C. Hare, " Ballybrack,", MacLeod, N.W.T.:-
"Kindy inform me, through the columns of your Kindy i cure for a disease in fowls, resemblin "' mumps." The base of the beak swells into a hard lump on one side near the eye. I find it generally fatal. Fowls will not eat well and soon waste away
and die. Have lost quite a number from it. and die. Have lost quite a number from it.
suppose it is infectious, but does not attack many apparently."
IOpen the beak and swab the throat with end drams; water, six ounces - twice daily, and apply weak tinctureof iodine to the external swelling thre times a week. Put one ounce of the ch
potash in half a gallon of drinking-water.
drinking-water. ${ }^{\text {W. A. DUNBAR, V. S.] }}$

## (1)

Allan Pacl, Alameda, Assa.:-"My blood ach knee the size of an egg, which has graduall changed to hard gristle. Knees ar graduall crooked, and are getting more so. What would you advise?
[Apply strong tincture of iodine three times a one dram ; alcohol, two ounces; mix. Continue the treatment until enlargement is reduced.
lumi Jaw and sweeny.
S. P. Fox, Brandon:-" Please tell me in the
next issue of the Farmer's Advocate what will next issue of the FARMER's ADVOCATE what, wil
cure lump jaw in cattle and sweeny in horses?" cure lump jaw in catte and sweeny in horses?
|For "lump jaw" give twice daily for two or
three weeks, iodide of potassium, one dram. This three weeks, iodide of potassium, one dram. This
is a medium dose for a full-grown animal. For
"s "sweeny," rub the wasted parts twice a week with
the following liniment: Strong liquid ammonia and turpentine, equal parts; raw linseed oil, two parts. Let the animal's work be light, if worked at
all.
W. A. DUNBAR, V. S./]

## Miscellaneous.

Fu:uFR, Frontenac Co., Ont.: - "I have read
severai feferences to what is called Kaffir corn, and Would like to see a few notes in a reliable journal
lihe the FARMER's ADVocate regarding it as a Waftir corn is of South Afriean origin, belong whe non-saccharine sorghums. Some ten year hey non-saccharine sorghums. Some ten year
to have given favorable results. Its drought-resist ing quaities ing in localities too dry for the best development of corn.
Kaffir corn, like other crops, yields best on rich land, respown on stiff clays, light sands rive may be grown on stiff clays, ight sands, rive profitable returns on soil too poor for other corn While it will grow to perfection in the southern as yet determined how far north it can be grown successfully. Tests at the Guelph Experiment Station showed the season there to be too short for thegard it as quite suitable to that climate, and Michigan Station considers corn superior to it as forage crop
At the per acre: The the red and white varie grain and 6.05 tons of fodder; the latter, 32.55 grashels of grain and 5.33 tons of fodder. The clean an analysis shows that it is not so rich in protein as Indian corn, and an experiment at Kansas Agricultural College shows that it is not
Indian corn as a feed for fattening hogs.]
blue weed.
R. McN., Middlesex Co., Ont.:-"I have a smal Rover meadow so completely covered with blue entirely hidden from view. Three years ago there waars ago the field was in corn, and last year I years ago the field was
seeded it down. Kindly,
and modes of eradication."
[Blue weed (Echium vulgare) is a biennial. It is both upright and spreading in its habits of growth, each plant having several branches spring from one to three feet, according to conditions. The leaves and stems bear numerous hairs which become harsh as the plant advances in growth. Its flowers are strikingly blue, and grow all along the stem. During the first year of the growth of this plant it sends a strong tap-root deep into the ground, and from thes in fist year . Barly in June the second year the flowers commence and continue for the greater part of the ummer. The plant is frequently seen along road sides, even close up to the traveled portion.
Like other biennials, blue weed is not difficult to keep out of cultivated portions of the farm, but its radication in permanent pastures, Mowing is of and road sides is not and from low tren use, becau will shoot out from the mowed off tump. Really good cultivation will keep blue weed from getting much of a footing in the cultivated portions of the farm. A few stray plants growing in a field that is not desired to be broken ap the same season should be cut off below the ground with a spade or nam subduing it in any the most effective mode of The aim should be to keep it from maturing seed, which will require epeated effort in a single season and for several seasons. A good treatment for cultivated fields is thorough autumn cultivation, followed by a fallow or hoed crop, followed by a cereal crop for two seasons, then hoe or fallow again belo for than one year at a time.]

LIVE STOCK MARKETS
Toronto Markets.
There is little change to record in the volume of business
over sation week; if anthing it is somewhat lighter. This prices went lower. The principal exporters were not oper ating, and looking to the fact that the dibtillery byres mus The total receipts of all stock, ending June 10th: Cattle, 2,580
sheep, $3: 8 ;$ hogs, 6,260 . There were over 100 loads of cattle on sheep, 38 , hogs, 6,260 . There we
to-days
declared it the the marst ming on recore
 is not is made, considering that the highest price was 4c. and
proft
the lowest 3 c. Quite a few cattle rese The lowest 3.. Quite a few cattle remained unsold at the clos
of the das; therewae no demand for cattle, either for Francoo
Belgium, the price having weakened coniderably since the



 vEvEvaz

 Some cattle were cleaned out from the East End byres ;
Messrs. Thompson and Sheridan, L. Coffe $\&$ CO., Aikens \& Flanipan, all contributed a sheridan, boat load.
We


Stockers and Feeders. - There is sow demand for all kinds
with the most activity in half fat feed
present
 sut on the grass. Lambs.-Trade not extra lively; jearlings sold fairly well at from 4c. .0 5c. per
nice bunch of lambought boc.; the top price spring lambs
were were selling at from $\$ 2.75$ to $\$ 3.7$ per head. ales. Thuse were a litio weaker, selling from $\$ 2$ to $\$ 1$
per head, acoording to quality. Dealers are pretty well Millk Cows. - All finally sold, but the market dragred
along all day. Many were poor in quality. muotations from Hogs.-The only redeeming feature of to-day was the
steady price of hoys. Choice hogs are still keeping in good


 mall for the posst fow receipts of dreased hogs have been
85.25 . Light bays choice small hogs sold as high as
and S.lds. steady, and there is a better outlook im in the Olid Country low priooes preavailing here in theexport clooarancoes for the weekk
which were liberal, with a large gain over corresponding which were libe
period last ear.
Wool. The most active market at present is for wool, and
fair supplies have been coming into the market during the
week. Deale fair su. Dealerr are paying about 18c. for choice floeoe, 15c. fo
weeok
rejions, and 110 . for un washed; pulled supers, 2lc. Hides, - No. 1 groen, 50. per. lb.; No. $2,4 c$. pers lb. The busi-
rejection
ness is active

 Dairy butter is moring well, but it has
to bring the quotation, 11. to 120 . per 1 l


 Grain Markets. Whe Lat for Anstralia.
Whe Mantobat -Steaby ; one lot load only on the
 Ontario wheat for export. The differenceine in pricees of breadstuff
in Ontario betweethose now current and the quotations for
a month ago and this time last year is as follow :-


Live
Cattle.
Live
She London..................688
Shen. $\begin{gathered}\text { Qrs. of } \\ \text { Reef. }\end{gathered}$ This will give some idea of the quantity of cattle and dressed meats shiped weekly from this side. There is to be
added to this the rrish shipments, and aldo Austanilian and
Argentine shipments (shipments Argentine shipments (shipments from this latter place are
darop ing of now and will be very light for three or four
mothe
 The French Trade.-The fow remarks made in last report
with referenoe to French shipments seem to have been veri.
 concerned it is at an end, and the Canadians in France are
coming home The other frms who have been shipping to
chat place also left for

Chatty Stock Letter from Chicago. (BY OUR BPROLAL CoRrespondent.)
Top prices for different grades of live stock, with co


















Montreal Markets.
The long. oontinuod depresesion in the the British markets
sene




















THE FARMER'S ADVOCATE. Jone 15, 18ds


A FIN DE CYCLE INCIDENT.

 athietent Moned mentally. "Must 1 gpend my life on ${ }^{2}$


 from her own






 "Save the roof; , never mind the remnan
 Trmom the wall the liace sieves fell badk from the rounde

 Horame P. Waldon, aiaias the Protesoro', say if he saw yo

"Im glad of itt but, iff did not know that you are a girl




 .James Raine I How dare you talk so of the best, no-
blest. Kindess,
 loog, now, and rin teach



would int dooto break a promised, would it?



 wayd oided inhtirg spead. .ingice as she whispered the awful






























 an womant sethtibestition" declared Renie, after the door closed














 and the enill road. 1 can onily get there in time by leaving the road
and taking the railway, "hhe eaid.
He told me he would meen


She losoned her enoumbering skirt and tossed it away
litted ber wheel across he hail and mounted instanty. It was






















THE CHILDREN'S CORNER


















## The Candy Country

How it happened she could not tell, but a sudden gust of wind caught the big umbrella, and away
Lily went like a thistledown, over houses and trees, until her breath was all gone and she had to let go. Down she went crash into a tree whic
looked like glass, for she could see through the red cherries and the brown branches. She picked a cherry and ate it. Oh, how good it was!-all sugar and no stone. Then she found that the who twige was made of candy, so she ate some of the wige
then climbed down, making more surprising discoveries. What looked like snow was white sugar,
and the rocks were chocolate. In the little white and the rocks were chocolate. In the little white
houses lived the dainty candy people all made of houses lived the daint candy peopee alile made o
the best sugar. and painted to look like real men and women. Carriages rolled along drawn by red and yellow candy horses, sugar cows fed in the
fields, and sugar birds sang in the trees. Lily fields, and sugar birds sang in the trees.
danced along toward a fine palace of white cream candy, with pillars of striped peppermint stick
and a roof of frosting. She ran up the chocolate steps into the,pretty rooms.
ade supplied drink and floors of ice cream kept people and things from sticking together, as they would have done had it been warm frieny soon single taste. The young ladies were flavored with violet, rose, and orange; the gentlemen were apt
to have cordials inside of them, as she found out when she ate one now and then, and got her tongue lived on sugar, and were al ways sweet-temperea. If any got broken they just stuck the parts together was to get thinner and thinner till there was was to get thinner and Thine the friends of the
danger of their vaing Then
ald person put him in a neat coffin and carried him old person put him in a neatho an to a great golden urn which was
Here he wasdipped and diped till he was syood
as new This was very interesting to Lily, and she as new. This was very interesting to Liy, and an to
went to many funeralls. But at last she began to get cross, as children always a when the would go
candy: and the little people wished she away. No wonder, when she would catch up a dear sugar baby and eat him, cradle and all; or reproved her for naughty ways. Lily calmly sat dat. The the biggest church one day, crushing said, "I wont!" and bit his head off, crown and she ran away out of the city, fearing that some
suat at this awfol deed that one would put poison into her candy.
ing; and I can't starve, though I hate the sight of this' horrid candy," she said to herself as she hurried dity of Saccharissa from the great desert of brown city of Saccharissa from the great desert of bi
Hest that lay beyond.-(To BE CONTINEID.)

## Memnon.

Amidst the countless ruins of Egypt two giant monuments standouer the name of Egypt is
the memory whenever uttered has kept calm watch through the centuries a the foot of the great Pyramid of Cheops, and the of The is the originated in a past so remote that it of Thebes, be dimly guessed at through a haze o myth and scanty tradition. These offspring of human thought and skill have existed throughout the whole period of recorded history, and long venerated antiquit
bid fair to stand-

Yea, all which it inherits, shall gissolve."
Twelve Years ago the whole English race fol
lowed with intense interest the progress of English arms up the Nile, through the panorama of Egypt in the attempt to rescue Gordon in the Soudan Interest is/again being shown there by a movemen its monuments a permanent possession of England thought, we could well imagine the smile than and expectations uttered at his feet as the pagean of the past recurred to him of the mighty empires
that have been founded, have flourished, and decayed while he sat impassive through the ages. Memnon is one of the Homeric heroes. He is
said to have brought a host of Ethiopians to the aid said to have brought a host of Ethiopians to the aid
of Troy in its fight for existence with the Greeks; the right arm of Troy, and after rendering much
service is finally
killed by Achilles. Ages after wardstheGreeks gave his name the two giant stat-ues-sixtyfeetin
height-which height-which
had been seated from time immemorial in the plain of Thebes came in after
timeinsepa rably connected though it is in reality therepre-
sentative of one of the innumerable Egyptian cure Amen phis of the 18th dynasty, whose
name and titles deciphered on the base. This s-called Mem Was celebrated throughout the wivilized world as he famous voca
tatue. At sun rise it is said sounds like the sound of harp strings. The testimony to the
throb of
fact is very respectable. Strabo, who visited the act is very respechteen years before Christ, in company with several friends, states that they all heard it. Other famous writers also verify the fact Much controversy has prevailed as to the reason who struck the sonorous stone, of which the statue is composed, in some secret way; others give a
more scientific explanation, attributing it to the more scientific explanation, attributing it to the the sudden expansion of watery particles under th influence of the fiery rays of the rising sun.
There is little doubt, howerer it is explained, but that this curious phenomenon was frequently audible. Upwards of 100 inscriptions of Greek and
Roman visitors are still visible on the legs of the vast figure, recording the visits of ancient travel lers to listen to its music. Amongst the names wife Sabania; another Emperor. Septimius Severus, also visited it. To the feet of ancient Memno
to-day flows a ceaseless stream of humanity from to-day flows a ceaseless stream of humanity froms them he is still vocal of many things as impressive
as any of the broken chords that awed the world of

ne thing well : "be whole man," as Cha
Thurlow said, "to one thing at one time."
clean work, and leave no tags. Allow no
when you are at a thing: do it and be doth-
Avoid miscellaneous reading.
you do not care to remember ; and remember rothing that you do not mean to use. old subject- and yet how new! I cannot recollect nything I ever read or heard of which has so suddenly jumped into prominence as the present bicycle. Other fashions and fads have, from time many instances, that we often awaken to the fact hat "something" has disappeared, and its place often, without our much nothicing the change, and nooks and corners, as there are always some very
conservative people who refuse (until absolutely obliged) to part with their dear old fad. Not so with this fad, however. It would indeed be an mpossible nook or corner where you would come have all the old "bikes" gone, I wonder? There must, be a cemetery somewhere, I think, for old
bikes, so utterly have they disappeared. Now, old horses have some use, for do we not hear ghastly rumors to the effect that ancient chargers make very nice canned delicacies? Mand, I don't think I ever shall. In the words of an old song-parody, "I cannot eat the old horse," etc. I think I would equine. Canning is, however, a subtle art, and tough things can be made tender and innocentlooking., This union of subjects, "Bikes and Horses, leads me to tha prosaic everylhing is becoming. 1 entirely approve also admit the wonderful saving of poor horses


MEMNON distance had to be traversed I dare say the bike hing for carrying dispatches or running after (or way from) the enemy 1 Just fancy King Richard, or his equivalent, shouting wildly, "A bike! A
bike! My kingdom for a bike!" And if that bike bike My kingdom and bore off His Majesty to
were forthcoming and
safety, what an "ad." for the firm who made it! safety, what an "ad." for the firm who made it
Shade of Shakespeare, I humbly ask thy pardon Shade of Shakespeare, In humbly ask thy pardon
for seemingly parodying thy well-known lines. for seemingly parodying thy well-known ong, for is it not now the fad that Shakespeare did not write his own plays, but that to Sir Francis Bacon be
longs that honor? However, suppose we hold fast to our Shakespeare and let Bacon go. We, won' substitute him for the "immortal William" with
out much further proof than is at present advanced out much further proof than is at present advanced
by the Baconites. And so we will bury him, along by the Baconites. And so we wirl bury y cemetery
already mentioned. Franct. New Ailment.
A New Ailment.
Energetic, care-free individuals laugh at the aggostion of such an ailment as house nerves and sayll it is onlify imaginary. But otherwise and admit that of all com plaints this is the most tiring.
People of sedentary habits
People of sedentary habits who spend all their
time indoors frequently become morbid, broodin time indoors frequently become morbid, member of the family to reach home at the usual time bring
forth gloomy forebodings of disaster ; the absenc forth gloomy forebodings of disaster; of an
bicycle will ever be used in warfare? Is it not already, with war correspondents? If a very long

 hearfo joand
 Aper oioctadiour

 happead. innoo



 offot inility and approace to


 dasine his. hall
 failitmonala bit , thoals, 1 he woman poets stopparato Know thyolts. Thin woman, or main of oter oem
 yy on texact with the the rrate outbide word.




 ,

 has beome fixed by degene totat ot that hat tet Iike pring with wouth gitaid ficie end oriee


 One touch with theo outuide eorid and a parat the, go, thase dreams leaving hat the birgher forith




 your medidine and go visition. Patronizanil the



THE FARMER'S ADVOCATE.
June 15, 1888

## THE QUIET HOUR.

## " The Night Cometh."

Work in the morning - the rising sun Salutitig the tilistoring noisig' brook,



 The and and inseev thoir caiv gon the the sun,

Work unto death for time wingeth fast ;
 Than sweat is His blest reward
 Witnesses.
 "Truth is great and it will prevail"; but truth cannot exert a power upon the world. It must be
incarnate in a living witness ere its effect be felt. incarnate in a living witness ere its effect be felt.
One witness, failhful and true has appeared among men. He is the Truth it in human apature, and the truth makes the captive free. But in Him, and by Him, and for Him, Christians are witnesses too. Every one whom Christ calls out of the worla
He uses in it. Deserters from the powers of dark ness are, one by one as they come over, incorporated in the armies of the living God and sent back
to do battle against their former lord. You have need of Ohrist and He has need of you. He would call you home, and give you rest, if He had not
some needful work for you to do in this outer some needful work for you to do in this oute
world. The very fact of Christian being here world. The very fact of a Christian being here, and
not in heaven, is a proof that some work awaits him.
And the special work for which Christians are left in the world is to be witnesses. "Ye shall be
witnesses unto Me," said the departing Head of the Church. On high, ,Thither He Has going, withesses were not newo bask in His rays need none to tell anhem that He is great and good; but in this out field, where enmity and ignorance prevail, Christ all who are called by His name
of He does not send angels top proclaim the message of salvation. He does not command the thunder
to pronounce
His name to pronounce His name, and the lightnings to
write His character on the sky. The epistle in which He desires to be read is the life of His disciples. It should be encouraging and stimulating to the humbest him has appointed his special path who redeemed In im has aphointed his special path Him wherever we are and whoever may question
us. Two qualifications are required in a witness us. Two qual
truth and love (Eph., iv., 15 ). These are needed, but these are enough., With. these " one wiewl chase
thousand and two put ten thousand to flight." thousand, and two put ten thousand to flight.". A
Christian's profession is his direct and positive Christian's profession is his direct and positive
testimony that he is not his own, being bought testimony that he is not his own, being bought
with a price, and is bound to serve his Lord. As soon as this profession is emitted, the cross-exami-
nation begins. If he is not a true witness he will nation begins. An in is noirer who saw you at the Lord's ta oble, meets you at the market place. If he saw the solemnity of a trustful worshipper there,
and feels the gripe of an overreacher here, he counts and feels the gripe of an overreacher here, he counts
your testimony for Christ untrue, and sets his conscience free from the restraints of begun con viction. The keen eye of an adversary, sbarapened
into more than natural intensity by the reproof into more than natural intensity by the reproo
which your profession administered, tracks into the world and questions you there. Every inconsistency raises a shout of triumph in the circle who will not have this man to reign ove
tham. They speak of the evidences of Christianity thd much has been done in our day to confirm and publish them. But, after all, Christianss are the
best evidences of Christianity. Alas, we have for best evidencess of ehristianity. Alas, we have for
eighteen centuries been writing books to prove eighteen centuries been wivt so as to make men think we do not believe it. Living. witnesses have
far more power than dead letters. far more power than dead letters. Our Lord's las
command was that His followers should be wit nesses unto Him in the place where they then were
In all the neighborhood as far as In all the neighborhood as far as your influence
reaches,and when opportunity occurs to all mankind reaches, and when opportunity occurs to all mankind,
马our witness should be true and faitbful occupy
fill He comes. At His coming we would like to till He comes. At His coming we would like to be found buss in the work which He prescribed
There is no other work worth living for, or fit for dying in.
"A true witness delivereth souls"; and a fals
witness? Is he not the stone over witness? Is he not the stone over which they
stumble? It is not in the power of any man to lie neutral in the contlict between light and darkness. Good and evil in actual life are like land and water
on the globe. If you are not on one you are on the for the irresolute to linge
that if he does no good he
One of the heaviest comp
Jerusalem was that she was i
and Samaria; that those

My Dear Niecre,
We hear a great deal nowadays about the ad of it is true and good who stands infinitely more in need of our pity than ing girl to whom Fate has denied a college train education nothing but a bitter dissatisfaction with her lot in life - the girl whose education has but to gratify them or to make the best of life without them.
Wen Mary Jane writes home, complaining the style of notepaper used, growling about the by week-and giving directions to have her letters in future addressed to M. Jeannette Browne-then - the situation grows interesting. Depend upon it, vacation will bring home a sharp-tongued, mightily suggestive of that beautiful text. "Lord, I thank Thee that I am not as other girls are no even as my parents here." And she's serious abo used to know and associate with. What have the in common now? Surely it was only in her child hood's wildy imaginative fancy lived the wit and humor, the depth of thought and terseness of ex presinded the roberesce of her early days now-gone-like the mists of the morning. She has reached a higher plane of developmen Towering now above the undergrowth to which she once looked up, and lacking the companion ship of her lofty-minded college friends, she I sa lacking the companionship of her college friend for she has brought none of them with her in the world. And right here it might be remar ed parenthetically that her bosom friend is never from the same district as herself. Now, Im read to admit with Byron that there is a charm it will be appreciated by the girl whose solitude is the outcome of an inflated idea of her own worth and an unwillingness to be known in her own real makes it - uncomfortable for herself and a around her. She is ashamed of her home - it furnishings no longer satisfy her fastidious taste sars hom tastes, and lowly ambitions. Al for the girl who would replace the big Testame with some work on deportment-who would or the itical treatise than above that book which has inspired all that is good or great Ashamed of her parents! What might the sacrificing! It's just possible that father might not have been so far bebind the of what went for $h$ daughter' hooks. And mother might fee a tin more at home in the parlor had she not seen much of the kitchen. Nor would she look quit tion to her daughter's wardrobe. Nor would her sightly, had she kept a girl; ; and-excuse me Mam'selle, but your board-money, would have set what was expended on the daughter's education could have had an opportunity to "bum around little and knock the outs it. The girl's journe your slangy city friend puts in The Temple of Knowledge has triumpha procession-all along the way are.
And what is the outcome of it? Alas for girl whose acquaintance with French and German, from the s areh Latin, has enabled her the no incentive to purer, nobl living: whose knowledge of music has never ye convinced her that there are no discord liscontent And yet it cannot be said that, even for such character as this, the time spent has been wholl in vain. The ambition has been roused, which is in itself a good thing, though for the time being gir wrong in trying to engraft the refinements of city life upon a country existence. The trouble come from over-estimating these things. Not by quarin making the most of everything which that lot affords lies the secret of all true living. Or, Browning puts it

tot fiding intet wiat mar be
Then find how to make it fair
po to our means-A very different
Minnie May

God's people so lived as to make the ungodly live
 Grisians ive as ike the world as they cant, the ord will think itseal safe in its sin; ; and those he destroyers of their neighbora. $W$. Arvot.

UNCLE TOM'S DEPARTMENT.

## Puzzles.

All mattor for this department should be addressed to Ada
Noy that ibo merry jays of May

Truas in theoarly days of grings.

Then ona dear found "poibonous snate",

A last a raping totorm of thumerem and din Noin in tha forond werer eol




| $1-2-3$ is a reason ; $2-3-4$ is round ; <br> 4-5-6-7 for squeezing, His match is seldom <br> His match is seldom found ; <br> $5-6-7$ 's the organ which The organ's made to please, <br> $7-8.9-10$ the suitor rich Presents upon his knees <br> Presents upon his knees. <br> ichard Johnson |
| :---: |
| 3.-Anabram. |
| ${ }^{T}$ Twas late and I pondered |
| With piles of of bokks aro |
| And my hair |
| Striving to crack the |
| With my brain almost on fire, |
|  |
| con on my downy pillow |
| eamed, and 10 I in the door |
|  |
|  |
| To peit my anhing pate "P."-nuts |
| tained in an $\mathrm{A}^{\text {a }}$ |
| puzzers dear, this |
|  |
| Is meant apleaf for pity To our ardent hearts conves. |
| 4.- Charade (Phonetic) |
|  |
| How fass Id have to go. |
| 't one Frgrs in it |
| The prize-well, , can't win |






## Answers to May 15th Puzzles


The fatal chanct, Stopor Prerey rued
E'en weith hisid ding roice he cried.
Had Keeldar been but at my side.
our treacherous ambuth had been spied-
4.-1t is only noble to be good." 5 .-Somewhat. 6.-Ape-
9.-Breath.

## $\begin{array}{llllll} & \text { C } & \text { A } & \text { B } \\ \text { C } & \text { A } & \text { T } & \text { E } & \text { S } \\ \text { A } & \text { T } & \text { A } & \text { L } & \text { P } & \text { A } \\ \text { B } & & & & & \end{array}$





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pit
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 Traor Bual Calave of fanest Booth broding

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 able prices, Correspondence solicited $22-2 \cdot \mathrm{y}-\mathrm{o}$
Bolton Station, C.P. R. GED. Downy \& Bro., bastlederra, ONT.,



$O_{0}$"Gem Holstein He
NAP! \$75.00 CASH Sir Archibald Mascot, No. 353, , C. H.F.
H. B. 4 years old $8 t h$ of October, 1895

 him to chengerg beeoting He was prize winner
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| :---: | HOLSTEEINE : $\mathrm{W}^{\mathrm{E} \text { now offer young stok that have won }}$ prizes, and oolves from our show herd, Trom one month to one year old, whoso

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Holstein-Friesians of the chot ond best blood
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Tame or adress and consecutive the tead
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 rom impor
or prices.
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 ity to get together a superb D
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## cossiP.

the In warmeriting to advocatisers, please mention Hosrtion-FFriesian cattle gre
into Australia from Holland.

 Soothand, was killed by lightning ole He was to
have been kipippod sortiy to the old Country.
The Hon. John Dryden reoenty marketed
his Shropehire olip for 1896-130 sheep: total


 that record," he asks, for Lincoln washed
tool ?")
Mr. A. J. C.Shaw, Thamesville, Ont, reeently
sold a remarkably fine roan Shorthorn bull


 all good
Drymand
Dryden.
-Alear. Hume \& Co., Burnbrae, Ont., write:through seeding and planting roots at at this date June 9th. We have had some fine rains,
and today agrand one, whid will give corn,
turnips and all roota a great start. There is a
 angwhere ease in canada, Hay is a very light
crop and amall acroage, but there is san un-
usually large area or spring rop. There was






 from dams that give amounts or man any erd
rooned above. Thay should improve any her
for the dairy. Any one wanting a bull for
on
 We coutra also spare a heifer calf or two or afow yearlings. We
ame stain, rade heifer calves to spare tin ap










 NOTICES.
Seed time is past and harvest will soon be be
upon us, when the consumption bof binder cord
will be enormous There will be noticed elsewhere in ir this is issue, an advertisement of
wher
Central Prison Binder Twine, offered for sal
 Hallam, Toronto. These twi
value and worthy of patronage. Mr . Isaac Usher, of Thorold, Ont, reports
gratifying increase in the
Queenston cemen gratifying increase
buainess this
season. Their output, now
300 barrels per day. is to be increased by 100 barrels;
the total for 1896 will amount to 50,000 barrels. the total for 1896 will amount to to 00.000 barrels.
Ho has received enquiries with regard toabout
loo new cement silos for this season. For the
 of eighteen inches at the bottom and twelve at
the top During May he was through the
Dhe counties of Waterloo, Perth, and Huro, laying
out many barn walls, floors, etc. His system
 As teriders or cement to be used this summer
anould be in early. He will gladly go himself
gho shyould be in early. He will gladly go himself
without charge. or send a oor otet person,
ant without charge or sent a conding the stanting of job, being morsore
to superintend
than ever anxious that persons fhould begin than ever anow how to use cement properly, so
right and know as to ensure complete satisfaction.
 world, and the results or pilacer and the the finds of nuggets
mining are full
in equal to in the early California days. Washington. and British Columbia vie, with each other as to the
extraordinary inducements offered to prospectors, practical miners, and in inestors.
By this pring the gold fever will have taken By this spring the gold fever will have taken
possession of thensands of pople, and the Western roads will have arl they can do to
transport the fortune hunters. The Chicago.Milwaikee ist. Paul Railway,
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al sections of the Far West. For further in. all sections of the Far West. For further in.
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 SHORTHORNS
CHOICI YOUNG
HEIFERS and BULLS
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NORTHERN LIGHT
-ANDVICE CONSUL

 $19.1-\mathrm{j}-\mathrm{m}$ CW. C. EDNARDS

 | Laurentian Stock |
| :--- | :--- |
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\& Stock Farm,\end{aligned}\)

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l-y JOS. W. BARNETT, Manager.
$\qquad$ Jamee Cottingham,

 oung buts aifers.
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