米AGRICULTURE, STOCK! DAIRY, POULTRY, HORTICULTURE,VETERINARY, HOME CIRCLE.类
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## Vol. XXXI.

LONDON, ONT., AND WINNIPEG, MAN.. MAY 15, 1896.


E STANDARD-BRED CLONIORE, 2: 21, A PROCEEITOR GPELD

## EDITORIAL.

## Clonmore, 2:21.

The Standard-bred stallion, Clonmore 5288 (record 2:21), represented on our front page, is no stranger to Canadian, nor, indeed, American, horse young tho have watched the best perion few years. This horse is still at the head of Mr. G. K. Foster' famous Standard-bred Stud, "Rock Farm," Danville, P. Q, where he has sired a large number of the most popular trotting offspring. For a number compaigned on noted American tracks, among the compaigned on noted American tracks, among blood in the world, and they always give a good account of themselves. Not only are they race winners, but their invariably useful size and gamey staying powers give them a value beyond the fast ones that have little to recommend then except their speed. Nor is this to be wondered a when the pedigree, conformation, and habits of their sire are taken into consideration.
Clonmore was bred by Mr. C. F. Emery, "Forest City Farm," Cleveland, Ohio, U. S. He was sired by Connaught 2:19, record $2: 19$, the sire of Lucile, $2: 14 \frac{1}{2}$, and the dam of the famous John R. Gentry, 2:03i. Conaught's dam was Consuela, the dam of Harold 413, who sired Maud S., 2:083, and the G. S. of Kremlin, 2:073. Harold was by Hamiltonian 10 .
Clonmore's dam was Hopeless, by Hermes 548, record $2: 27 \%$, the sire of Holmdel, 2:183, and many other standard perfiltonian 10 , as above stated. Hacing to Hamito Hermosa, by Edwin For Hermes dam was Hermosa, by Hanks, 2:04.
Hopeless' dam was Evadne, by Ericsson 130, by Mambrino Chief II., sire of dam of Director, 2:17. Evadne's dam was by Imported Consternation, sire of the 2nd dam of Trinket, 2:14. Were Clonmore not a getter of extraordinary stock, we would be compelled to lose faith in the law: "Like produces like."
The engraving, which is very true to life, shows Clonmore to be strong and handsome. He has not have been his services in the stud. His three-yearold record was 2:291, and his record of 2:21 was made to high wheels, which is as good as a mark o 17 or 18 to a bike sulky. His colts are all of good color, size, and style, and are frequently sold for big prices before maturity

Taxation of British Agricultural Land.
We have before us a text of Hon. Mr. Chaplin's ex-President of the Board of Agriculture) Agricultural Rating Bomecons, where it is backed by Brish Her ; also Hon. Mr. Long, present Minister o Agriculture ; Hon. Mr. Balfour, Chancellor of the Exchequer ; and other eminent men. We will not weary our readers at this busy season with its details. Substantially, Mr. Chaplin's proposal is that agricultural land (which shall be held to mean available meadows, pasture land, market gardens, and allohaf its assessable value ; buildings, however, at one-half its assessabely. This will, it is estimated, create a deficiency of $£ 1,500,000$, to be made up by grants from the lmperial Exchequer. It seems to be generally conceded that the burdens upon land are excessive, compared with other ratings, and the relief aimed at in the Bill voices the urgent request of farmers in all parts of the Old Country, where so much has been he

Slow, but Sure.
An English writer of prominence, in considering what experimental enquiry has done for the farmer, points out the number of experimental stations; but it must not be forgotten that the laying out of a number of plots or inaugurating certain tests and the recording of the resul of useful experiments secessar is, he adds, results are published which have not received proper verification, and probably, if further trials were made, would never be verified Such cannot be too strongly condemned. They
have a deterrent influence on the adoption of have a deterrent inght by other experiments that are more skillfully and carefully conducted. It might be invidious, he goes on to say, to single ou those which a practical knowledge of farmin
shows must be misleading, hough it would not b shows mu
difficult.

The Position of the English Wool Trade. The prospects of the wool trade are ably set orth in the English Royal Journal of Agriculture, by Mr. J. W. Turner, of Bradford, England (the "metropolis of the world's wool industry"), who entirely conversant with the situation, being,
is, one of the largest wored by those who had wool to sll last year that the price of certain grades oade a decided advance during the summer season. This was especially true of the luster and demilusters, which are common to the Leicester, Lincoln, Cotswold, and Romney Marsh breeds, which advanced between May 2nd and Sepinary rise Mr. Ti pence to $11_{2}^{1}$ pence.
Turner considers not to end with a sbort-lived boom, but to remain for some time, thus lifting a east the special classes or To quote Mr. Turner's own words: "The long-continued depression of prices is coming to an end, and with the recovery of tone will come an increased discrimination be tween the value of special and the value of genera production." This sounds much like what we have heard so much of during the last few years, that agriculturists must sinary. The advance was due thing above the fashion which placed bright, Iustrous goods in the very front of fashion.
At this moment, says Mr. Turner, we are face to face with a serious deficit in the production of Merino wool in Australia, owing to the destructiv drought of last season. For another reason, the best of these wools will continue to be in shor supply from the effect of so much crossing of breed in that country for the sake of better mus produce casses. River Plate, originally Merino, is now quit of the Riss "Indeed," says Mr. Turner, "many Argentine clips which have come to England thi season have been pure-blooded Lincoln and Romney Marsh." The great bulk of wool ais present grow is of the cross-bred type, which will tend to keep the keenest competition among the medium grades. is therefore evident that nearly all the Brish wools which have been displaced by colonial com petition are wools seems to be extending all over England.
The writer discusses the situation entirely from a wool standpoint, and states that he feels safe in saying that the mongrel sheep grows wool which will have a continual tendenc
position in the wool market.
There are, however, wools which can be grown Britain which are not so much subject to competition from foreign ws :
" 1 . The Scotch Blackfaced, in which the buyer pincipally requires length and strength of staple. The pure old breed possessing these qual
" 2 . The Cotswold, long, strong, and healthy wool, which has throughout the long depression sold better relatively than any other wool for making the hard, stiff goods kno
" 3 . Pure luster, the growth of Lincolnshire, Nottinghamshire, and the East Riding of York-
shire. There is no wool precisely like this any where else in the world. It moves in price with alpaca and mohair. It can be mixed with, or used in place of, the latter, which, owing to the disturb to be scarcer; or it can be made into beautiful
bright goods without any admixture. These goods are in fashion, and are using the wool rapidly. But
the countryside is covered with sheep which will the countryside is covered with sheep which will
not grow it, and which are crowding out the legitinot grow it, an
mate tenants.
"4. Demi-luster, straight, silk y-haired wool, not
so bright as Lincoln, but a little finer, and which so bright got into the habit of calling the Leicester breed. Increased fineness in any of the foregoing
would not be an objection, so long as it was arrived would not be an objection, so long as it was arrive
at by selection within the breed itself, but any
crossing with Southdown spoils the original prop crossing with Southdown spoils the original prop-
erties and produces the one class of wool whicts erties and produces the one class
has to face the keenest competition. $]$
" 5 . Pure Down, a wool which is s
has ". Pure Down, a wool which is still unequailed
"hor hosiery purposes, and which will always find a market of its own, sometimes quite independent of the general course of prices. Of this wool 1 should
like to say-Keep to the old-fashioned style keep
it as short and as fine as possible ; let no suspiciou it as short aool strain get into it, and, if I pranot
of a long-won, pure Dowe wool will take a respectahle
mistaken, place as regards comparative prices.
"Many of the so called bows are however \&ffect, by growers
half-bred clip was
purest Downs. But purest Downs. But
believe anything, e

In conclusion, Mr. Turner states that he cannot help thinking that the revival of the present fashion for lustrous goods will leave behind its good effecte, which will operate for some time after the fashion itself has passed its first bloom. But as far as can be seen, the benefit will be conferred first and fore most upon the wools mentioned, as being mosi adaptable to special goods, which
receiving the attention of designers.

More Care in Horse Breeding.
It is long since the German Government saw fit oo assume an oversight of the horse breeding inevery stallion has had to pass the inspection of a committee appointed by the Government before he could be used in the stud. This rule is rigidly carried out under penalty of a fine or imprisonment if violated. In England there is felt the need f something of the same sort, though people of a democratic and naturally progressive spirit may on the Continent. A writer in the Mark Lane Bar press advises that State aid be given to horse breeding, and offers the following outline of a scheme which he considers may be enlarged upon:(1) A county or other committee should be
formed, comprising a number of practical farmers formed, comprising a number of practical farmers and others who are especially interested in the
breeding of cart horses, and of one representative breeding of cart horses, and of one re
from each of the several local districts.
(2) Local districts of varying areas, according to the acreage and staple of arable land and the number of mares usually bred from each,
cart stallion apportioned to them.
(3) The fee for service be fixed at 103 . each mare, to be paid by the owner at time of first service, with an additional fee of 40s. at a certain fixed
period for each mare which should prove in foal, period for each mare which should prove in foal,
103 . of this sum to be paid by the owner of the mare, and 303 . from the general fund.
(4) Each stallion to be limited to 100 mares.
(5) Each stallion to be selected by two members of the committee and the member of the com-
mittee from that particular district in which the mittee from that particular di
respective stallion is to travel.
(6) That soundness, substance, and activity of
the stallions be studied by the select committee for the stallions be studied by the select co
more than mere fashionable breeding.
The suggestion is also offered that all stallions used should be provided with a veterinary certifl cate, stating that they are free from recognized cate, stating that they are free , whistling, ringbone, uns

When the need of such care has become eviden in those old countries, where genuine worth is recognized, and where America turns to for animals with which to improve its stock, the with our own experience in the lescript class, should impress breeders with the importance of breeding from only such sires and dams as will produce class of stock that will be desirable because of ite intrinsic merit.

Nappan Experimental Farm.
Col. Wm. M. Blair, who since its inception has been Superintendent of the Experimental Farm for the Maritime Provinces, at Nappan, N. S., recentiy resigned his position and the Government herrest, accepted the resignation. Mr. Geo. W. practical who from many years' experience has a pracices, nowledge of farming in the Meen appointed to the position.

Whatever else is grown or not grown upona farm where cattle and sheep are kept, a few acres of rape should be tried this year. We toar fed off in the fall. Try a piece this season, and find of how good or how bad it really is.
out
A practice which some far-seeing farmers have found profitable is to plant a small patch o
potatoes when the seed is dear and a large area potatoes when the seed is dear almost given away. when they received low prices last year will plan Many who received low prices last year wrices for
less this season, which will make better prics the 1596 crop.
The degree of LL.D. was conferred upon Prof. Urm, Ottawa, and Mr. James Fletcher, Dominion Fatomolagist and Botanist, at the annual convoca of Queen's University, Kingston, Ont, on of Queen's University, Kingston,
has been
he our most valued contributors, our May lst ining his late

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THE WILLIAM WHELD COMPANY (Lnatyed) Londong ONT., and Winnipler, Mas. John Weid, Manager. 1. The Farmer's Ad It in impartial ant Ind independent of all oliques or parties,

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## OTICES:-221.

You Will Want "Canada's Glory. No home should be without a framed copy of our magnificent new lign received. Very flattering cknowledgments are being received almost every day. The work of sending out copies is now in progress. While the price of fifty cents is as make ing compared the the mill more easy by giving a free copy to every subscriber who sen
with the name of a new subscriber.

We are pleased to be able to state that all the premiums which we have offered during the win ter and spring months have been eagerly worked for and secured by a very large number of otisfied with them. Our liberal offerings are still open to those who will apply themselves. For particular see April 15th and previous issues.

Ontario's Highway Commissioner.
Mr. Campbell, whose portrait appears below, has been appointed Highway Commissioner of the Province of Ontario, and took office at the Parliament Buildings, Toronto, of Wardsville, Ont., in 1863 , and removed with his father. C. J. Campbell, in 1865, to the Township of Ekfrid, where his boyhood days were spent. He graduated in engineering and surveying at Toronto in 1885. From 1885 to 1891 he carried on a general engineering business in partnership wath practice in all classes of municipal engineering in the Counties of Norfolk, Oxford, Middlesex, Elgin, and Kent, with headquarters at St. Thomas.
Outside of these municipalities a large business was done by the firm in the construction of sewerage and waterworks systems. In 1891 he was appointed City Engineer of St. Thounas, a position since held past five years he has given special attention to roadmaking as a branch of engineering, and ex perimented in constructing a number of miles o
parth, gravel, Telford, and Macadam roads. He has also during that time edited the engineering department of the Municipal World, dealing with municipal engineering generany, It was during this time that the agitation for good roads in Ontario was commenced; this resulted in the formation of he Ontario Good Roadsissociat He has addressed Farmers' Institute, dairy and other meetings in dif erent parts of the Province, urging the neressis in (1) systematic and ults might be obtained from he money and labor now expended ; (2) combining as far as possible the eforts of all persons engage in the subject among the people at large; and (4)


Mr. A. W. CAMPBELL, C. E. Last year the Ontario Toll Road Commission, of
which he was a member, took evidence throughout The Province, and in this way he became acquainted
not only with toll roads, but with the opinion of not only with toli roads, but with the opinion of many represe Government has secured a man pre eminently well-qualified for the position, and we
trust his work will confer early and lasting benefits trust his work wil cone Province.
upon the roads of the
aponis duties will be under the direction and approval of the Minister of Agriculture; to give
instruction in the building and maintenance of instruction in the buther communication to road overseers, pathmasters, and others, and to dis
tribute such information as he may be able to col tribute such information as he mis command, both in this and in foreign countries; by practically demonstrating the best methods of roadway con struction, as opportunity may permit, in the pres ance of those interested, and in time to time be approved of by the Minister.
In another column we give a timely article from
Mr. Campbell's pen, on the subject of how to im prove our roads, giving suggestions of value to pathmasters and others.

A Good Medium.
Mr. A. W. Campbell, the newly-appointed High way Commissioner for Ontario, writes us - " I
appreciate very much your desire to publish inppreciate calculated to promote road improvement. deal with, and it will be a great assistance to me to e permitted to contribute articles for publication very largely to the assistance received from the press, and more especially
an authority among farmers.

STOCK.
On the Eve of a Gireat Shortage. the Editor Farner's Advocatr: Dear Sir, - to the fact that they are on the eve of a great shortage in the superior class forward to a beral patronage this year. We have a large num ber of good mares in this section in all the various lasses, but I am sorry to say too many of the goer According to the present outlook, the trade will be ull. We have hardly any buyers this season or the high-quality carriage and light harness horse, you could not find a first-class pair in a days rive in the hands of the breeder. The demanal. Ve have no trouble selling all the good ones we can find, and cannot half fill our orders. We have some good young stock comis glmost quit breeding or the last three years. You ask what kind of nares should be bred? I answer, only the best. Breeders should quit breednite object in view ; try et. Breed witas high - for the moon, if you ike; and if you fall short you cannot help it. Secure the service onits your mare. Do not be controlled by the mighty dollar in your selection. Three or four dollars expended at the start may bring you a hundred when you come to sell. My
advice is, always breed to the best, as like begets $\xrightarrow{\text { like. }}$ Peel Co., Ont.

Good Sale for Heavy Drafts.
Sir,-I entirely agree with your remarks about he indifference to horse breeding on the part of heavy draft horses, as lately so few have been bred that the demand and price must increase, and are increasing already. I have bred four mares for
several years past, and this year I intend to breed twice that number at least, perhaps more, as I have eleven pure Clydesdale mares. I shall give you an
instance of one of the mares. I bought her when instance two years old, paying $\$ 600$ cash for her coming two years orst foal died through neglect. Her next foal (full brother to it) I sold for $\$ 600$ cash when 20
months old. I have realized from the same mare months old. I have realized rom the same mare $\$ 1,900$ and the outlook for the horre breeding season this year? So far I have heard little abouture horse you will see that I have faith inses has always paid me as well as anything on the farm. Breed the best and you whl horses is just ordinary, but might
supply of salable her supply of sal been better if the owners had been emore careful in breeding. The majority are by Clydesdale sires. In this district our means are
limited and we cannot indulge in the fancy light limited and we cannot induige in the fancy great
breeds, and particularly when we have no great breeds, and particularly When we had pure-bred
fatith in their future. Unless we had mares we would just be breeding scrubs, and there
are too many of them already, and heavy draft
are are too many of then aiready, With regard to
horses will always be wanted. Whe horse buyers being here, there have been any num-
ber of them ; but good horses are scarce in this ber of them; but good horses are scarce in thit
district. I have heard of several sales from $\$ 175$
JAs. I. DAvor district. I have heard of several sales from $\$ 1$.
to $\$ 200$ and down to $\$ 50$.
Ontario Co., Ont. Davidson.

## Good Light Horses Scarce.

o the Editor Farmer's advocate:- be bred here this
Sir, - Very few mares will be year. This is not much of a horse breeding sec-
ion. Good mares are scarce in this district, and they are of a mixed type. Mares for this section they are of a mixed te pe. to raise road or carriage
of country should be fit of coun. I should naturally say, breed these mares o a Standard-bred stailion. In may colts sired by Clonmore, in spite of the depression in the horse business, have been and can be sold for inving district the past winter, due principally, I think, to here being very few salable horses obtainable. The stock of one, two and three-year-oll. There is comparison to preving to raise draft horses in this section, as we could not compete wiage, and road There are a few good sad are not very plentiful.
horses growing up. but they ar. Foster.

Practical Suggestions in Horse Breeding o the Editor Farmer's advocatr:
SIR,-I beg to submit what evidence is in my breeding. You must please bear in mind that as to Muskoka and Parry Sound seak with some authority, being newly-settled countries, the conditions are not necessarily the same as elsewhere. Mr horses (Shires and Cydes), when introduced in 1890 , were new breeds to the
country, and probably the first horses of any standing which had ever travelled these districts.
(By standing, I mean stock capable of winning either in the show yard, on the race track, or im-
mediately connected on both sides with horses

THE FARMER'S ADVOCATE.
capable of doing this.) When I first reached the
country, in 1889, there were still a large number of oxen being used throughout the district, which have nearly all been replaced by horses during the last five years. Amongst others, a large number
of street car horses, trotting stock, and some heavy mares have been introduced, principally by cattle dealers in exchange for stoct, ; and as these chave
been bred to all sorts of horses, and the produce been bred to all sorts of horses, and the produce
has not been salable at the low prices which recently prevailed, many of the farmerices have a a alrge
stock of unsalable horses on their hands. So farg stock of unsalable horses on their hands. So far as
I know, there is no demand whatever for heavy stallions throughout the district, and I I reepa my
own at home Hackneys have taken fairly well Own at home. Hackneys have taken fairly well.
My stallion, Fireworks, did the best season for me
last yer his full capacity. There appears to be not run to very fair demand too, but no rush. I think farmers are coming back to their senses, but we will
not see any boom before next here some very good mares, heavy and light, but not a large number. The ordinary farmer being
so stuck on the general purpose horse, I so stuck on the general purpose horse, I would
advise him to breed his mares to $a$ heavy horse,
with with a view to to getting express horses, which fetch
good prices. Mares around us are not heavy enough for heavy draft. If he has well-bred mares, by all means let him breed drivers. As
to sires, I would advie the use of Shires and
Clydesdales, also Hell Clydesdales, also Hackneys and Thoroughrberd. There have been no buyers through our district, prospect of draft horses for sale for several years There will be some drivers in two or three years, and a few roadsters. There may be some express on your readers the importance of feeding their stock well. Every farmer can afford to put in one-quarter or ore-half acre of carrots, which will go a long way. Too many farmers faill to breed along. They, seem to have an idea that it is perhaps a.good thing for the mare to have a foal occasionaly, just to keep her in practice, or the foal
will amuse the children. Anyway, he may lose one of his horses some day, or his neighbor may


## Future Horse Supplies Light

Sir, - The outlo Advocate:
little better than for horse breeding is perhaps proos brood may still hold back. The supply of locky type, mares is very good. They are the
Cly Clydes are a good class to breed from, if we had to use to Coaching horses. We have had plenty of horse buyers through our district, but the prices offered do not seem to meet the es seller. There is
still a a air supply for sale. The supply from still a aiair supply for sale. The supply from this
out will le light. owing to mares not having been bred. There will be some young carriage horses in, say, two years, but no saddle horsees to soneark of.
Chateauguay Co., P. Q.
Robrrt NEss.

## That Mutton Test.

To the Eitor FARMER' ADVOCATE:
SIR S. In your last issuu John Springer, Spring.
field, ill., arrives at a misleading concllusion in field, in, arrives at a misleading concliusion in in
writing about the lamb test at the Iowa Ex.
Station. He dees not take the fle Station. He doos not take the fleece into account
when he endeavors to have the Southdo When he endeavors to have the Southdowns show She highest value. Southdown sold for $\$ .75$ and weighed 6.75, that of the latter made 8.75. Allow. ing one cent a pound difference, we have the Shrop-
shire fleece at fifteen cents unwashed (as I suppose it was), making $\$ 1.31+\$+62$. $\$ 5.93$, while the $\$ 1.75=\$ 5.83$ as the total. Prices are my own, based on markets. In same report we notice that when
dressed the Shropshire lambs gave a percentage of
56.3 and the Southo
 than either, but a S Shropshire yearling outdistanced
all by making 62.3 dressed percentage. all by making 62.3 dressed percentage. Shropshires and Shropshireg grades made at Guelph
and New York last fall the lovers of other breeds would for a time quit filching the Shrops of their
world-wide reputation. In this world-wide reputation. In this locality no lambs Shrops. In March one feeder got nearly $\$ 7$ each
for his bunch and another got over $\$ 6$. Out of the latter ot thelped a dealer secure four in January
at twenty-tive dollars. Need more be written convine e the raisers. of butchers' lambs that the
Shropshire ram stands unexcelted Shropshire ram stands unexcelled as the getter of
the highest priced and therefore money-making lamb? few days ago a dealer, in looking over my flock, noticed spring lambs which he considered
would bring in Toronto- dull as meats are Woult good, common ewes and mats blocky $\$ 6$ each.
Hleshed Shropshire ram, any farmer can wellsomed hat simphilare ramm, any farmer cean sects. Next to raising high-
class breeding stock there is to the farming in which I have as much confidence as in raising lambs for the market. JocN CAMIPBELL.
Fairview Farm, Victoria Co., Ont.
ville closeda a very successful terrm on May lst, with
an enrollment of f4 students.

Our Scottish Letter
West of $S$ into the throes of the show season in the west of thotiand, and one could easily spend every
day in the week, except the first and second, at
tending tending these meetings. There are few parishes in
Ayrshire which have not a show, and besides these Ayrshire which have not a show, and besides these
there are many gatherings at the principal towns in the west of Scotland.
inst. thesd Clyde Salesasale - During the week ending 25th inst. the Clydesdale has been very much in evi-
dence. Sales have been held in Glasgow of stock from Professor McCall's stud, at Blairtummock, and
at Keir, of the at Keir, of the entire stud of Clydesdales founded
many vears ago by the late Sir william Sterlin
 liever in strong, robust, big horses. He attaches
little importance to the show-yard taste, and goes on his own way. He sold nineteen head on Tueswhole, as much as the owner expected ; and there were barious satisfactory features about the sale,
notably the presence of gentlemen from England, notaly the presence of gentlemen from England,
who bought several of the best. The Keir sale at-
tracted tracted an immense crowd, about 1,200 people being nently satisfactory; fifty-three Clydesdales of all
 for several years been poorly supplied with stal-
lions, the three stud horses selling for $£ 7613 \mathrm{~s}$, $£ 105$, and 8141 15s. respectively. These prices scarcely looked for in a stud of the best Clydesdale mares the world possibly has seen. The mares have highest price was made by a maree which, strictly
speaking, did not belong to the stud. This was Victoria, a three-quarter-bred Clydesdala, nine
years old, for which Mr. Riddell paid 280 no years old, for which Mr. Ridadell paid 260 gs . Of
the old stud, the mare which drew the highest price
was New Hope Newstead Darling for which Pro was New Hope Newstead Darling, for which Pro-
fessor McCall paid 250 gs.
One of the Peggy tribe, from which Darniey sprung), Lorne Briton Peggy,
drew 20 gg. , her buyer being also Mr. Riddell. The Marquis of Londonderry gave 160 gs . for a two-
year-old illy named Venus, and others of the same age told for 70 gs and venus, 60 g.; yearling of tillies same
ape to 53 gs, and 52 arood mares was \& 76 g. 9 s.; five three-year-old thillies made £49 103. each; eleven two-year-old fillies, £5t

 The average price of the 106 Clydesdales thrown | pon the market during the past fortnight was |
| :--- |
| E67 11s. 3d., or almost to a peny the Keir | The sixteen sold from Edengrove made the splendid figure of \&116 193.8 . 8 , so that it has had to make up

the deficiency supplied by the lower rates ruling at The Shoor Ring.-Glasgow was a magnificent show. Seldom have we seen a better display of
Clydesdales, and all through the principle of single judging which was adopted thave exceeflent results championtrave stud, of Mr. Gilmour, furnished the and handsomae mare got by Prince of Wales 673 , out of the redoubtable champion mare, M Moss Rose
6203. This is a mare of great substance ticularly noteworthy when waskance ; not par-
trotted a long wing, but when trotted, a long way ahead of any mare of her age in
this country. She has bred this country, She has bred one foal of great
merit-the three-year-old Montrave Mac 9938 , Macgregor, which was placed fourth in in his section
same day and is serving mares at $£ 10$ los. each mare, foal or no foal. The chappion male Clydes
daie was Mr. James A. Wallaces Prince of Cla winner of first prize in spring, and a great, massive
horse with horse with good middle piece and splendid forerassives.
$H$ He was got by the celebrated Prince Alexander He was got by the celebrated Prince Alexander
8899 , whose other stock took high places at thi show, and his dam was the all hit but unbeaten mare this Pandora, by Darnley, hred and onweaten mare
JJames Lockhart. He has thus a double cross of
Dane Darnley blood, his sire's dam being out cross of that
same distinguished horse, and this will more than counterbalance the fact that Pandora's dam was a she was known as Flora by Lincolnshire Lad Prince Alexander is owned by Mr. Wm. Renwick Meadowfield, Corstorphine, and was purchased for
81,200 when little more than a weaned foal Glaspow he won first prize as sire of the five best
yearling that his hot by one sire, and it is worthy of note himself, the producee of on the occasion were, like
These were Prince of Albion 6ilot thy Darney. stud horse, and Master Robin s(4), owned by Mr average as breeding horses, and much above the both well bredenand very good and mares.
to note that Prince Alexander
Prince of that Prion at the H. \& A.S. show at Dundee in is MM, and now of five yey met mot the the first time as sires of groups
oetition was that for ther interesting gromp corn-
prood tares and petition was that
progeny. The
p
progeny, The contest
Gaalratit's Zeynal and
Beauty; and both, it is
aughters on, is on importance ark stan The tribe of oldarnarnle
In the five female cla
first prize winners were yot
and one each by Goldhin M12, and Fergasson 950.
classes the siresof first
Alexanider 8899 , Prince

Gallant Prince; all three sons of Prince of Wale
673. The champion gelding, at truly magnifleent
horse, was got bi Lyou of Purdomstown horse, was got by L
of Macgrego 14477 .
Hackney Breeding is making rapid progress in
Scotland, and the exhibition at Glasgow ably never excelled in Scotland. The champoband reserve champion horses were both bampion
Yorkshire, but the champion and rese Yorkshire, but the champion and reserve champion emales were bred in scotiand, and are regarded des
the best pair in the United Kingdom. The chem pion horse was The Conqueror, got by Gay hamede
and owned by Mr. Alexander Morton, of Gown and owned by M. Mr. Alexander Morton, of Gowan.
bank, Darvel, Ayrshire, and the reserve was Mon creiffe Matchless, owned by Sir Robert Moncreiff Bart. The champion mare was the two-year-Old dilly
Lily Grant, got thy Donal Grant,own brother to Caide Lily Grant,gotby Donal Grant,own brother to Caddet,
out of the full sister of Danegelt, and the reserta Dis or Danegelt, was got by Danegelt, out of
mare by Lord Derby II. Both were bred ond owned by Mr James MacMeekin, Carnhooth busby, near chasgow. A large number of the
best Hackneys were got by the 3 ,000 Goldifinder VI., recently sold by Mr. Morton to S . has lately bought bar., Warrigton. Mr. Steven has lately hought a very valuable shipment of of
Hackneys. His agent was Mr. Alex. Galbraith of the American Clyduesdale Association. Galbraith, of companied by Mr. Gray. The animals selected are
the highest-classed Hackneys that the highest-classed Hackneys that ever crossed
the Atlantic, and include more than the Atantic, and inclue more than one champion
winner at the London shows.
"ScotLAND
YRT,"

## Details of the Mutfon Test by Prof. Curtise

 SIR, -The lambs referred to in Mr. Springerscommunication (May ist FARMER's ADVOCATE are communication (May 1st FARMRR's ADVOCARE) are
those that I purchased while in Ontario last sean and while the details of the experiment sare no yet ready for publication, I take pleasure in givin you such information as is now available. We had to March 1st, during which time the 10 Southown gained 310 pounds ; 11 Shropshires, 34 ; 10 Oxfords wolds Merins, 19,$162 ; 10$ half Shropshire- half Merino 110 range lambs, 282 ; and 5 Shropshire yearlings ${ }^{115}$ The foregoing gains The foregoing gains represent the difference perweon mentioned, but inasmuch as as the sheep were
weighed with the feding weighed with the fleeces on at the beginning of the
period, and had the fleeces off at the close it perioo, and had the feeces off at the close, it io
fair to credit the amount of wcol breed, so that the real gains are as follows :-




Shrophirire yearlings averaged 176 pounds and
Dorseets averaged iin in





The shearing wast donerage for Dor Marsets yet. March to to 18th,
foth
fore the oil was out of the wool, which made lighter eight fleeces than would have been obtained a nonth later, The percentage of dressed meat by

> Mareiets,
Marits
Main shro
lanke.

taif Shropesiire and haif Merino

## 

The carcaisses were cut upon the biock and the
Uightsen token of the the cuts of each breed, This, all the cuts of each hreed, This
a great deal of other detail work,
our renort to be published in the time report, to be published in the of the pure mutton breeds, you will
very creditable. Each breed was fed
 spt for each account of ane will feed con
pure-bred lambs of the different breedt, and beginthe market at an earlier age and lighter weight. Al the Chicago buyers, although they sold 15 cent higher with the flecees off than any other sheep on the market that day, including fleeces.
Trusting that this information may be of in
C. F. Curtiss,
Exp. Station, Ames, Iowa, May 6th, 'go. $\begin{gathered}\text { Dept, Animal Ind }\end{gathered}$
Horse Breeding -- Its Prospects and Needs. Sir, - In compliance with your request, I take pleasure in the furtherance of your worthy efforts necessity of giving the matter more careful con-
sideration than has been done for the past year or wo. Complaints of "too many horses" we hear he over the ountry. But send a buyer through ability is he will come away without making ${ }^{\text {and }}$ purchase. He will tell you there was "nothing
good enough " or "nothing fit." The trouble is
 of more liberal feeding.
ear is very much brighter for the stallioner, but it领 still far from satisfactory. Fees of ten and welve dollars (and these are current) are not suffi-
cient inducement to importers to invest their cient inducement to importers to invest their
money in the business and travel horses of superior merit and breeding for what there is to he made
out of it. $I$ believe it would be better. if some system of governmental inspection-optional, no compusy wisid both in rearard to soundness and purity of breeding. The the present cunstom o
insurance is all in favor of the owner of the mare If a portion of the fea were made payable at the
end of the season it would bring out a higher class of breeding mares.
mares. What would have answered admirably have been sold out of the country. The non-salable females, asd those past the marketable age, are too
frequently put to breeding. Is this not courting failure in the enterprise
best mare and because the horse best suited to her doesn', call at her stable door, a little extra trouble and expense to have her mated suitably will repay the the
owner and induce better care of the foal. The combination saddle and harness horse and the future as in the past, at remunerative prices. Buyers have been very alert all winter, and in are several post There are very
localityliesex Co., Ont
Midd

Good Demand for Good Horses. Reviewing the horse market outlook, the New
York Herald sizes up the situation in a few words as follows:-"There is nobody in the horse busi ness just now doing any worrying. It is man good horses, and at really good prices. This has bood horses, and about mainly by three prime factors:
First, the restrictions in breeding operations, which are now beginning to tell; ; second, the fact tha drive high-class horses is continually on the increase; and thirdly and lastly, everything that
Americann are tot smart enoug to secure is gob-
bled up by agents for English and European firms."

The Sow and Pigs.
It is a long time since Ontario farmers rejoiced
more when the time of turning out stock arrive than at this present season. The sight of dirty, lean cattle and swine in not a pleasant one to
hold. We hear oof heavy losses in young pigs, and no doubt the damp board beds have a right to a
large share of the blame for such a condition. The farmer who has a nice red or tucerrn clover patch,
or even a good grass pasture, to turn his sows and or even a good grass pasture, to turn his sows and
feev little pigs upos has something to make him
feel well. Whether or on sut such a favorable plot is at hand the growing pigs will do much better out upon mother earth "han in the pens Too close
confinement causes "thumps " and straight tails, neither of which accompany money-making growth.
Idleness and pluttony are deadly enemies to sleek, Idieness and glu
curly tailed pigs
If the sow it
pigs may be weaned at six weeks old ; but when the dam is to be turned off fat next fall, or have no more offspring until next spring, many of our most
practical authorities wruld say allow them to run
together upon the grass until they wean themtogether upon the grass until they wean them-
selves. When the feeding is liberal and succulent the milk flow will continue copious and very
beneficial to the youngsters until they are nine or ten weeks old. Where the pasture lot is small, and
desired to bee ket in sod, the pigs are better
drund Trung" but should they have access to a bush or
other (arge run, the rooting of the surface for
phosphates and worms will do much towards their


## FARM.

Better Road Work.

## by a. W. CAMPBELL, C. E., HIGHWAY COMMIS-

 Country roads in for ontario. nto two classes in Ontario are commonly divided good" and "bad" are frequently regarded as ynonymous with these, and as our roads are ome extent not with rerchange of words is to struct a good gravel road is to first build a good irt road from the natural soil.A good dirt road to those who have driven the past spring will seem an impossibility. And yet these bad roads are chosen in June by the teamster in preference to the "good" gravel roads.
These latter are now a collection of parallel ruts, with rocks firmly set, protruding or rolling loose under the wheels and the feet of the horses. The diseases being so perfectly known, it is a
poor recommendation for our inventive powers if we cannot produce the remedies. For dirt roads, take the water out and keep it out; for gravel oads, this and more. There will be less moisture the disintegrating and upheaving action of the rost. There will be less water to be carried away n the spring, and more ample means to do it sary as for any other structure. Were the benefits of drainage better known, our system of roads
throughout this Province would soon be vastly throughout
improved.
Drainage must be secured at the surface of the oad and beneath it. Underdrainage-there may be a rew exceptions-will accompnsh more than surface drainage. Where and how to place the code of laws can be formulated, since each mile or less of roadway may lead to an entirely new com-
bination of circumstances. Surface drainage is anttained by rounding up the road-bed ordinarily with a rise of not less than one nor more than one nd one-half inches to the foot, providing open
ditches on each side of the grade. Srown the roadway on hills slightly more, so as to draw the water sharply to the ditches. Water allowed to follow he track of the wheels will wear them to ruts, and
Tile drains running parallel to the road about hree feet below the surface and at the edge of the drade will usually afford the best method of water courses to relieve the ditches of their water. Use hard, well-burned tile laid carefully to a uniform mile, and if it can be obtained at reasonable cost, not less than six feet.
Provide culverts
Provide culverts where needed, and do not allow the roadway to interfere with natural drainage road way, as muddy hollows in each side will result. If possible place smand cover with earth, as they will be then less subject to wear and will not interfere with the smooth ject
surface of the road. Make culverts permanent.
Avoid the use of perishable material. Avoid the use of perishable tham and keep free.
proper outlets are made for them weather will destroy the best material
The surface of the road should be kept smooth
and free from ruts. Where gravel or other metal is to be applied it is best to dig a trench for its reception, otherwise the crown will be too high.
Gravel is intended to perform the double service of a roof to shed the water and a floor to resist the wear of traffic and to lessen the amount of traction required. A forty per cent. greater load can be drawn by awn over a yielding dirt road in an equally good state of repair. All the work should be done manner, with a view to its exis in a short time will plan in subsequent years; this in a sho
Modern road machinery, properly operated, is
onomical. The grader and roller are indispensable. The grader performs the work quicker, easier cheaper, and more perfectly than can be expected from hand labor. The rover compacts the loose
material, unites the different particles so as to better resist the load, prevents displacement which
forms forms
traffic.

Lack of Drainage and Late Seeding
SIR,-Most farmers are loath to plow up fal wheat, but in a run through some parts portions o folds that will be an unprofitable crop. Several
canse the want of drainage has evidently soured the land If nound late sowing is responsible. Many farmer are anxious to put in after a corn crop. The plan is a good one, but there is a armer is well furnishe with help, the sowing will be necessarily late. have had a fair crop of fall wheat from sowing firs week of Octoher. That time is gone, and now
prefer the first week in September to anythin preter.
later
Lambton ('o., Ont.

Rape Culture.
At the end of grain seeding on many farms the work of preparing for the season's crops is only com-
mencing. This is due to the ever-decreasing acreage of grain and increasing area of corn, rape, roots, and other hoed crops, as stock farming The value of rape as a food for sheep and cattle is being appreciated more and more each year, as it corn and lucernto different sections. Rape, like sidered one of the mainstays of the beef and mutton producer. While most crops have a special season
of planting, extending over a very short period rape can be put in at any time between the early part of May and the 1st of August, and produc a profitable crop. It can, therefore, be used in the
place of many of the other green fodder crops, and place of times of then other creps are not obtainabable
also at
The greatest use, however, to which rape has been The greatest use, however, to which rape has been especiallv for sheep, but frequently for young cattle. For the former it fills a great want when well grown at the time lambs are weaned, which is
on many farms about the lst of August. To thi on many farms about the st of August.
end it should be sown from June 1st to 15 th, which is about the time turnips are sown. When land is put in good condition by that time, and the rape
sown in drills, about two and a half pounds of seed per acre, it will yield a luxuriant crop of the best possible feed for growing stock. As is fairly well
known, the preparation of the soil is much the same as for turnips or mangels. The rape crop is ac as for turnips or mangels. The rape crop is ac-
cused by some of being exhaustive to the land which after all is not a bad fault, as a crop that
will readily appronriate what we give it in the will read my appropfords us an opportunity of making the best use of the soil. Land is manured to give crops, and the more a crop uses of this, the nearer does it fulfill our requirements. It is not,
however, exhaustive to the soil when it is pastured off by sheep or cattle. When land is clean and open, sowing broadcast about four pounds to the acre will answer well. But as such crops are gener ally sown on land trills like turnips, either flat or raised, say 26 inches apart. When the rough leaf has made a good start, about the size that be introduced. It should run as close to the line of the rows as is consistent with the safety of the plants. The value of frequent surface cultivation applies as
much to rape as to any other crop. It is well to run through the crop with a hand hoe once or twice to remove weeds that have escaped the cultivator. Cultivation may well continue until the
plants have made a near approach between the plants
rows.

## Bean Culture.

by W. A. migeachy kent co.
Although present prices of beans are ruinously coming season; in fact, the area under beans is constantly increasing, owing, no doubt, to the fact
that they have been one of the best paying crops that they have the present time that the farmer could grows As many are growing them this year for the be out of place.
from light sand to -Although raised on all soils, moist loam is the ideal bean land. If not rich it should be made so, and just here we might say
opinions differ as to which is the better method of applying the manure, viz., to plow it under or
work it into the soil after plowing. We have obtained best results by fall plowing a clover sod, manuring it during the winter and beginning to work he manure in as soon as the land permits it in the weeks from then until planting time, for the double object of incorporating the manure in the soil and sprouting any weed seed that it may contain, and
also to secure a fine tilth, which is so essential to bean growing.
Planting.-In this section (Kent) we plant, if the
weather is warm and favorable, about the 25 th of wayther is warm and favorable, about the 25th of second week in June. It is poor policy to rush
them in too early if the soil or weather is not warm, as it takes them longer to come up, and while sprouting they are liable to the ravages of ing the plant useless, or at best, so late in matur ng as to be of lite value., If, however, the season is favorable, plant eary, as it is easier to
replace the seed if the crop should be frozen in the spring than a frosted crop in the fall.
Planting is done with either an ordinary grain The latter plants two rows at once, twentr-eight inches apart, and drops the beans in hills about eight
inches apart, which makes hoeing them a much easier matter whicht three pecks is the quantity planted per acre, a little less than this is sufficient when Pea beans are planted
the leading bean, but the Pea (lately introduced) is a superior bean in every way. It ripens ten day o two weeks earlier, stands the drought better, yields as much or more per acre, an
from five to ten cents more per bushel.
Cultivation. As soon as they rase uplargeenough,
cultivation should begin by running the cultivator
shallow, as the roots lie close to the surface, which


THE FARMER'S ADVOCATE.
May 15, 1888
should be continued at intervals as long as is posan experiment, we put the "hillers" "on our double cultivatior (Gale) and went through just as they were coming through the ground. It worked splendidyly. It stirred the soil, thus killing all weeds that had
started, and covered those in the row, which anstarted, and covered
swered the same pu
beans in the least.
Harvest least. Harvesting.-As soon as the beans have assumed
a yellowish color, pulling commences and is raper ly performed by the various bean- pulling apaidments supplied with several makes of double
ment cultivators. Morning and evening is the best time to pull, as the pods are damp and are less liable to pulled, they are forked into windrows composed of four single rows, left to season a couple of days.
then turned, and two or three days afterwards then turned, and two or three days afterwards, if When turning them we place them in bunches, each containing a small forkful. In loading them, Wide-tined fork is sued, running the fork under the
bunch, not through it as in loading hat. This
reduces the loss from shell reduces the loss rom shending,
if they are carelessly handied.
fter planting, it will be beperly the worked before and after pianting, it will be in the best possible con-
dition for seeding to wheat without much further working, and thus in a measure enables us to com-
pete with the more cheaply grown Northwest nete with
product.

## Potato Culture

Eeldom does it happen that the whole Continen is so abundantly supplied with potatoes as has been ncreasing area had been year by year devoted to this crop, culminating in the springoo 1895 , when a instance, many of the big wheat farmers of Mani obaa and Dakota planted whole sections of land rop penormous, with the was favorable and the hat the price was ruinously low, many acres being eft undug in some parts of the country.
A reacion is amost sure to follow, and comThe lateness of the spring will also tend to diminis he area, by keeping farmers longer at the main crops, leaving little time for aittending to the planting of a crop so recently unprotitable as as
potatoes. Again, it is unlikely this season will be so universall| favorable to the production of bis pay to have a fair-sized potato patch. Even if the marked price a is noir-sizigh, potato patch. Even if the trom the experience
main
maine gained this year,
as a stock food.
cultivation, etc., will not be out of place at this time. A large yield tends to reduce
he cost of production. While the average produc tion of this country is probably not much over 100 Aushels pe
Wil, the potatoes will grow in almost all kinds of ooil, the est on the farm is none too good. A rich nay loam, naturally well drained, is perhaps th mantre should not be so applied as to come in direc Give deep the tubers ight and season likely to be dry, plant the sets deep
 plant in rows three feet anart, dropping seed pieces plant in rows three eet apart, dropping seed pieces
eight twelve inches in orows. Harrow frequently
until plants are well up, which will kill many weeds until plants are
and fine the soil nd fine the soil
Potatoes req
laltivation require plenty of moisture. Surface cultivation conserves moisture by forming a muluch,
thus hindering evaporation. Cultivation should be frequent to keep down weeds, and should alway the plants and decreases the yield of tubers, Pota toes should not be ridged up, but cultivated nearly
level, except, perhaps, on cold, wet land. The level, except, perhaps, on cold, wet land. The
potato ground should be set out in rows long potato ground should be set out in rows
enoung o p permit the use of a horselhee, which
can do all the cultivating after the plants are too big for harrowing
 allow seed potatoes to get warm and sprout, and the seed and tends to decrease the probable yield of in succession on the same land, particularly if any disease gets among them. Potatooses affected with
scab should be treated with corrosive sublimate if it is necessary to use such for seed. For the bene-
fit of new readers we reproduce the directions for treating potaces, as published in these columns last spring
Procure
base a common wooden warrel, and fit into the
druggist two ounces of fancet. Purchase of a rosive sublimate (mercuric blichlorvede). Empty
this all into two (yallos of hot water. low it to stand over night, or until apparently all
dissolved. Place in the barrel thirteen gallons of water, then pour in the two-gallon solution. Allow
this solution to stand in the barrel four or five hours, , uring which time it is several times thor-
oughly yapitated to insire equality of solution betore
using Select as fair seed it using. Select as fair seed potatoes as possible,
wash off all the old dirt, and immerse as many as
you can or wish to treat at one time in the solution
one hour and a quarter. At the end of that time
turn off the solution into turn off the solution into another vessel. The sam wished. After drying, the potatoes may be cut and planted as usual. PPant upon ground that has no
previously boun previously borne the disease. Remember this chem
ccal is a deadly poison,so exercise becoming cuution. ical is a a deadly poison, so exercise becoming cusution.
The osution should not be put in metallic vessels. We have observed some potatoes, grown on low spots in the Red River Valley, with brown streak
through the center. This "internal brown rot," as in is called, is reported as being prevalent one year in Manitoba, disappearing the following year. Such potatoes shouec certainly not be used for seed.
As to varieties, the old sorts, Beauty of and Early Rose, when they have not run out, seem to hold their own against new comers for general croppers. Morning Star, Crown Jewel, Rosedale spoken of by our crop corrtspondents.

## Salt on the Land.

Sir, -I notice an inquiry and answer, on page
120 of the ADvocate, as to whether salt that ha been used for curing pork is of any use to sow on
crops. very closely with my experience. Some 27 year ago reried salt on a small scale, using half a pail
of refuse that my wife had packed egrg in. I had been trying various other things, such as lime ashes, plaster, etc., applying each at the time of
sowing on different pieces of spring wheat, but sowing on disterent pieces of spring wheat, but
none seemed to give as goo results as the salt,
which noinch caused the grain to head out several days
warrier than in any other part of the field. The earlier than in any other part of the field. The
straw was stiffer and brighter and the grain bet ter. This so encouraged me that the next spring
sowed four tons of refuse tories, in Ingersoll, that had been used in dry packing or curing pork. Fowed this on both spring
wheat and oats, leaving one land unsalted. The differenee was very noticeeble. I sowed about
300 pounds to the acre but Inow sow 200 ar 300 pounds to the acre, but I now sow 200, or per-
haps a little over that amount. I
never think of sowing spring wheat without it, and I sow more or less every year; and the last two years it was acre field of gravelly loam with spring wheat, unsown with salt. At harrest tim leaving a land wheat was quite inferior. The next year this field was sown with oats. Ine same difference was influences more than one crop. It stiffens the
straw and renders it less liable to rust and ale straw and renders it less liable to rust, and also
seems to draw moisture from the atmosphere at sems to draw moisture from the atmosphere al
night. 1 like to sow it on oats and barley. I also think it is good for root crop, especially mangolds. It is good for potatoes if put on the ground and n contact with the potato seed direct, else it will around and worked them in before planting. I have ound them to pay me at the rate of 25 cents per per bushel or 75 cents per bag. I like to salt at the he drilling and roll immediately if the ground is dry. I have sown salt on fall wheat both in the
fall and in spring, but never could see any bent Oxford Co., Ont.

Joshua bobier.
How Thickly
Thickly Should Corn be Planted ?
It seems almost impossible to convince some
men that corn for fodder, especially where no sil is to be used, should be planted in rows well apart and thinly in the rows. The article upon "Corn
for the Silo," by E. D. Tilson, in our March issue, should be convincing, enough, but some
cling with such death-like tenacity to their old cling with such death-like tenacity to their old
ways that more yet is needed to convince some that big, leafy starks bearing good ears are better than fine, atatery stalks that have lititle in them but
water, but are easily masticated by the animals. wow, it is just possible to starve a cow to death on this watery, fine, easily-masticated corn, grown from seeding about two bushels or more orf, seed per
acre. (Many of our best corn growers consider pen acre. Many of our best corn growers consider one
half a bushel, sown with a drill, too much.) Just think for a moment how the fine, early rhubarb boils down until one can suck it through a straw
Now, soft, fine corn would boil down much the same if it were tried
substantial flesh and milk-pro-
 ing them of a proper amount of sunshine, rain an her kindly offices we get spindling specimens of corn plants, without any. ears. Must we blame
nature or man for the failure? nature or man or tuce stalks which bear nubbins of
planting which aro somewhat better than the crop. The real value of corn depends upon the size,
correr A well-developed ear of a strong-growing sort it equal in food value to the stalk upon which it rows, and when these are well cured and cut up
(when a man has no silo) they produce the very best results in cattle feeding that corn is capablery
when fed in the dried or curred condition. While planting with the corn planter, in hills, we may
get the best results, yet, if it be sown with al
apart, and stalks from six to twelve inches apart,
we will be pleased with the resulte, if the land be in proper shepe, proper cultivation, given throughout
the season, and the crop harvested and cured should be. Plant about two inches deep and follow the suggestions in our article on "Corn Cultiva. the su
tion."

## Corn Cultivation.

by e. D. Tllson, norfoll co., ont.
I had by this time (as recorded in the ADVocatr or March 16th) arrived at the most satisfactory iving sufficient cultivation by means of the hand ooe and horse scuffler ranged from $\$ 1.50$ to $\$ 2.00$ per ton. Two years ago 1 heard of the Breed weeder.
It is very similar to a sully horse-rake, with three sets of spring teeth. This mace-hane, is made in sets of spring teeth. This machine is made in
different widths. The one $I$ like best tor all wur
poses is the walking weeder, eight feed wide. Wurth ooses is the walking weeder, eight feed wide. With
it a man and one horse can do fifteen acres a dat We have oun land, which is a liteen ach acres a day.
dere
ared before planting-cultivated, harrowed, ane pared before planting-cultivated, harrowed, and
rolled several times.
Three or four days after planting we start the weeder, before the weeds every four or five days, cultivating with the rows nd also across them. This not only keeps down doen ont go deeper than about an inch, and, thererfore, does not interfere with the corn, roots. The
common cultivator cuts the roots very badly, which common cultivator cuts the roots very badly, which
does a great injury to the crop. Neither will these weeders tear up the corn by running over it up to high it can be is is teo over without injury. If desired, he weeder can be narrowed to go between two completely subdued until the corn is three feet Note -
harrow, just as the corn is coming ap wide sweeping harrow, just as the corn is coming up, crosswise. In
about a week go over the field again the other
wist way, and in a fow days a third time. This may
seem harsh treatment, but the corn will thrive seem harsh treatment, but the corn will thrive
under it. Members of our staff have used the har row in this way with splendid results in the shape of crops. Weeds are exterminated and moisture conserved. When the corn gets up too high for the
harrow, a one-horse scufflor or two-horse riding cultivator, like that made by the Detroit Harrow $\mathrm{Co}^{\circ}$ which is asiso used as a agrain seeder and general field
cultivator, is started, doing two drills cultivator, is started,doing two drills or both sides of can cultivate easily a very large field in a day, and do it well. Once going through with the hoe may may have started up in the hills or rows of sthat as the case may be. The Canadian corn area this year will be larger than ever before, and if correspondingly large crops are to be secured we must
have proper soil preparation, manuring seed sele tion, jupicious plapting or sowing, and thorough
tionsena

Gleanings from Farmers' Institutes -Division No. 9
Specialties. - Joseph Haycock, M. P. P., Fron
tenac, thinks that a profitable income might be obtained by attention to branches that are often
neglected. In the neighborhood of town and cities, poultry forced along so as to be ready fo the market early always commands high prices, and winter eggs always are in demand and can be pro-
duced protitably if care is taken. Gooseberries and currants are very profitable crops and bring goo good corn land will bear these fruits. Do not plan the English varieties of gooseberries, as they mil mile
dew. Plant far enough apart, to calt dew. Plant far enough apart to cultivate and
harrow with horses. Keep the tround clean and
well fertilized. Do not they show signs of failing set out another
plantation. Ordinarily a plantation will Bailanced
Ottan scho Ottawa School of Cookery, drew attention to the tion to feeding animals balanced vations much atten d feed the highest of morl animports-man. If if the human race were fed foods properly prepared and
selected, there would be less disease, better teeth, bones, hair, etc.
Feed
Buell, in a paper Cows. - Alvin Gilroy, of Glen Buelt, in a paper on "Care and Food of Dairy
Catle," emphasized the necessity of warmth, ventilation, regularity, cleanliness, and pure water in
the production of cheap mik. Mr. Gilroy got erry
satitsfactory reaults the satisfactory results this winter from feeding wellof hay, and five pounds provender daily
The Corn Plant. - The subject that drew the nast lively discussion was the growth and presergeneral opinion was plant. As to varieties, the
variety that the largest growing ariety that would give the most grain prew acre As to preservation, litity was the most profitable.
hat the
hat of opinion was as to monetary value per atise actactory way, not only dry before putting Alowing corn to become too ommore putting in the silo was given as a
Where thuse of mouldy spots in the ensilage.
dry for the silo it was found to be an advantage to
wet it with. water. There was considerable difference of opinion as to whether planting in hills or
drills gave the best results, but the advocates of drills brought forth some strong arguments such as: (1) Easier handling in cutting. (2) More
thorough cultivation and a better chance to clean the land. (3) Better quality of corn. Having more with a larger amount of grain per acre Mr. Zavitz, B. S. A., O. A. C., gave the results of several years experiments, with regard to thit
point-hills vs. drills:
A point - hills
yierd
ver acr from drils:
drils. (b) A Alittle larger yield of grain per acre from hills.
Mr. D. M. McPherson, of Lancaster, had best
results from Mammoth Cuban and a sugar corn resuttrin from Mammoth Cubban and a sugar corn
obtained from
Omaha, raising, it was claimed, over thirty tons of corn per acre in 1895 from highly manure stony lands, the natural grassesp of the country were highly prized, it being found that the milk butter,
$a$ superior flavor to the common timothy and clover pastures. Some of the best farmers advocate the pastirest Ao of at op dressing of farmyard manure
annically. The resulte obtained by Mr. Mc Pherso
and in 1895 are so extraordinary that it would be well to give his rotation: First year-Corn for silo on sod heavily manured. Second year-Oats or barley
seeded very heavily with mixed grasses and clovers. Third year-Hay. After the hay was cut, as soon as convenient, usually in July, top dress with farm-
yard manure. Keep ail stock oft this land. The grass soon comes with a rush and covers the pases, furrishing food for the grass, which gets
pery strong root and is able to stand the gint very strong root and is able to stand the wont
well and starts strong and vigorous as soon spring opens On thirty-five acrese of pasture treated as above, Mr. McPherson pastured sedenty cows
the summer of 1895 . It it onsy fair to add that, they had an abundance of rain.
Manures.-We found using artificiolial fertilizers, it being found more proittabie to buy the fertilizers in the form of bran
oil cake, cotton- seed meal or other rich foods feed them, have somed proait on the orepration, and
have the manure for less than half the cost of feed ten, have some proil on have the manue for hess than half the ocost of
have thercher
commercial fertilizers. As to application of farmyard manure on lands not subject to wash or over-
flow, the leading farmers favor drawing and spreading on the land as soon as made. Atter the
 wash away when a thaw comes. If dropped in
smail heaps before the snow comes it will freeze solid to the earth and hold the frost for week
beneath the heaps in the spring Thos. H. Mason.

## DAIRY.

## Corn Silage for Milch Cows.

Although the present prospects for abundance of growth are good, changes come about so sudden-
ly that the lessons learned from the experience of the last few years in the matter of stock fodder
 home just past. Elsewhere in this issue, "Fr F . J.
has." makes some good points in favor of green
S. fodder as opposed to silage for summer feeding New York (Geneva) Experiment Station has found to be true regarding corn silage
cows. The points made are as follows :-
For sustaining the milk flow a succulent food is especially desirathe. Fresh and tencuer pasturage, natural and efficient food for this pu.
available but a short time during the year.
available but a short time during the year.
Corn is one of the best fooss when mature, and besides gives heevy crops. In ordinary seasons it
can be fed fresh when at its best for only can be fed fresh when at its best he crop can be
weeks. In the form of silage the stored and fed as cheaply as by any other methodes that have been as thoroughly tested. The average marized as follows
or 1 . When corn silage replaced some other food
(1) Th here followed in seven instances a decrease in
the cost of milk, once an increase, and in one instance little change in cost.
There followed an in the yield of a decrease.
(3) There followed a decrease in the cost of fat in six instances, an increase twice, anount of
change once. (f) There followed an increase in the amount of
fat in five instances, a decrease in one, and litle change in three instances.
(5) There followed an increase in the percentage in two instances, and little change once.
ing corn silage to one containing less silage or not
any (i) There followed an increase in the cost of milk
in four instances and little change in one.
(2) There followed a deceeaste the me milk yield
four instances and little change once.
(3) There followed an increase in the cost of fat (4) Th ive instances.
fat in three instances and little change in (5) There followed
decrease in the percentage of fat in the milk in two instances, an in
crese in two instances, and little chang once. 3. In general there was found an increase in
milk flow accompanying the use of corn silage in the ration, and at the same thime an increase
he amount of fat produced, the percentage of fat nthe milk not diminishing.
4. At the relative prices ordinarily holding for
ifferent foods, milk was generally produced at ower cost, and the cost of fat production wa lower cost, and
lower mhen corn siage constituted part of the
ration than when many other rations were fed.

## Ensilage as Summer Feed in the Dairy.

There are signs of a coming boom in the use
ensilage as summer feed. Why? First, and hiefly, because of that proft-preventing, success well practice that ever-increasing, never-decreasing vil - sole dependence upon pasture. Secondly eccause ensilage is a known winter feed, under our onditions. And, thirdly, because little, compara tively, is known of other summer foods. Presumably, summer reeding begins when we turning out to grass. Now, our ordinary grass pasture is our cheapest summer feed-while it re mains plentiful and in good, succulent conditionWe are well aware that there is the possibility that on very valuable land it will not pay to pasture a Comparatively easy toperove that under our average conditions grass is king as stock food during its season. Where it is not proftable to grow grass or
clover, then some kind of ensilage will doubtleess
 and
maintain that it has no place while grass and clover
are in the rime are in their prime From the failure of grass until corn is again ready is a crucial period. When green corr pre
vailable, ensilage made from corn grown the pre vious year is no longer the cheapest nor most satisgacteriled is certain. Not only so, but a pound of silage costs more than a pound of green fodde corn. Further, it is no he easiest thing to keos weather in as condition as during cold weather. It will usually get too sour before being fed, as presumaily no ace ise not removed fast enough to offset the higher temperature. Under these conoifse
ditions it is is patent that silage is not our best, nor
tet our cheapest foder after corn comes in. But yet our cheapest focaer after corn corn may be ready
when does corn come in? when does corn comeme season, about the middle of
for use in an avere August, occasionally earlier; dent varieties alithle
Aten.
Sweet corns are available two weeks earlier later. Sweet corns are ava. As a role, by a proper selection of varieties, green corn fodder may be had by August lst, or at least quite eary in tat mont Granting all rhis, July lst forward, that is really the decisive test of the season. Here, if anywhere, decisive
silate fin
foderer
Whic
Which are our best available fodders at this eason? Without doubt, a mixture of our common ereals and legumes. Lacth, period, but our com non grains are our chief reliance. Peas and oats, etches and oats (that incomparable exill-produ hinations. These as a basis, with perhaps a sprinling of barley in the first sowing, to hasten to ma wheat in the second sowing, make most desirable rations for any class of stock. In any case we always wish one or other of the legumes present.
Variety is more than the spice of life in the fodder of farm stock.
And now for a comparison of the value by
weight of this mixture of green fodder and corn weighage. We much regret that exact, practical experimental data this respect; but perhiaps us this soon, since there is
will waken up and give not a more important question in the whole range
of our animal husbandry. By composition, these of our a nimal hus

## Oatr an Corver. Colover

$\underset{\substack{\text { Alibum. } \\ \text { noids. }}}{\text { Carbo. }}$
 stituents. A reliable analysis of corn silage not at
my hand. I have substituted that, of foder corn, which will tend to give a rather more valuable com-
whition than reall belongs to silage. We have ap position than reaotion of green clover to more thor
pended the composition oughly attest the value of these green cereals and
 ciover. The composition of peas and oats (vetche
are superior to peas in point of composition),
an here quoted
from reliable analyses,
their superiority to corn, and in actual practice we
find this abundantly borne out. That other factor governing fodder values-palatability-i is also Governial on the side of the fresh green fodder.
meteriall
We wold not attempt to place an actual dollar-andWe would not attempt to place an a atcual dinar-and
cent difference on their value, but from experience cent difference on their value, bue from experth materially
we are convinced that they are wort we are convined that they, are worth materialy
more at this season, for mill, beef. muto or pork
prouction, han an equal weight of our average production, than an equal weigh of andiag.
corn ensiag.
But what of the relative cost of production, as it is these two, cost and value, that determine the
matter? The cost of corn silage is usually estimatter? The cost of corn silage is isually esti-
mated at about $\$ 1$ per ton to $\$ 1.50$, with a crop of
and about fifteen tons per acre. We will estimate
at $\$ 1.25$. This includes seed, rent, and labor of cultivation and of filling the silo. It does not allow for cost of silo, not an unimportant
what if the coot of a ton of our cereal and legume combination? We think it is as eas t to grow four of
and a half tons of green fodder as fitteen tons of and a half tons of green fodder as sifteen tons or
corn. We offer an estimate of the cost of an acre of green fodder :-

Cutting and drawing to barn.
Four and a half tons cost
One ton costs
55
If this is correct, the cost per ton of green fodin favor of the green fodder. But let us not for get that a year has been lost in the case of the
silage Under existing conditions we have now silage. Under existing conm practice, and this fea.
enough ide capital in farm enough summer ensiliage is one to be strongly dis
ture of sumcer There is more than euphony in the
countenane countenanced. There is more than euphony in the
oft-quoted statement, "Small profits and quick oft-quoted statement,
returns." Both; then, in value per pound and cost per pound, as well as in economical basiness practice, green fodder lead. We placed the rent rathe
lower in our remembering that this green fodder will not oc cupy the
further.
in the month of September has become the busies in the farmer's year. Fall wheat seeding oorn closing up summer work and preparing for fal work, supplying stock with fodder, etc.,
saddle the farmer heavily at this season. To add sadad the inaing an extraquantity of corn for a yea
this, by is intrinsically bad. Corn depletes the soil
ahead is in ahead is intrinsicaliy bad. Corn depletes the sole immeasuratiy more then green io reati, ares aricher sioi for full returns than the other. There is less
likelioood of failure in getting a stand of grain likelihood of failure in getting a stand of grain
than of corn on all heavy soils. To depend upo
 silage between June aist and antly wrong.
convinced is, in the main, radical

Separator Cream vs. Deep-Setting.
SII, - I do not quite understand the drift of "In victa's" two questions aboat coam and that the per
know, on the authority of goo men cent, of cream raised by deep-setting bears no
no fixed relation to the per cent. of cream by centrimilk, while a gives a fixed relation to the per cent of butterfat in milk. Since the Babcock test was
of
sued used many intereeting tests of this per cent. or
cream have been made; Gurler found a difference crea
of 25 per cent. in the butter value of milk that
show showed the same per cent. of ream in the glas
test tube. The milk of fourteen different creamery patrons was tested by the
cream gauge, and showed :


Then, he gives records of individual cows giving milk testing 5.4 per cent. fat and 18 per cent.
cream, another 4 per cent. fat and 18 per cent cream, and another 3.30 per cent. fat and 18 per
cent. cream, which shows the cream test is not cent. cream, whith
reliable, and that a given quantity of cream raised by deep-setting does not represent a a iven quantity
of butter, even if raised irom milk testing same of butter, even, if raised 1rom milk testing same
oper cent. of fat, or, that two inches of cream in one per cent. of fat, or,
can mat meand of of bound outter, while two can may mean or in another cam, raised from milk
inches of
of of same butter value, may mean one and one-
quarter pounds of butter. Then we are asked to suppose "that 5 per cent. of the whole milk is
taken as cream by both processes." I would taken as cream by both processes." I would a akk,
Where is the farmer who takes 5 ; per cent. of his whole milk as cream by deep-setting? i don't
think it is ever done except in shallow pans. Deepsetting, as shown above, gives from 14 to 18 per
cent. of the whole milk as cream, so to make com. parisons we must stick to practice, and not give
 take such per cent. of the whole milk as cream as cream containing 35 per cent. of fat can be churned if propery handled and ripened, at a temperatur
of 50 to 52 , and give the most exhaustive ehurning ${ }_{\text {in }}^{\text {in }}$ mat mutes (I mean the buttermilk to he drawn
from cheesy
Now, seeing
matter, and need not be washed.
that temperature suits our wow, seeing that that temperature suits our cream, such as is raised by deep-setting, which must be churned at a temperature of $58^{\circ}$ to ${ }^{\circ} 0^{\circ}$, and if the temperature falls below that the cream
swells and fills the churn, and the butter won't come, or if it does come we find our butter wont
testing from it 1 to 3 per cent. of buttor-fat; sormilk it testing from 1 to 3 per cent. of butter-fat; so it may
be claimed that the separator gives us complete be claimed that the separator gives us complete climate; no milk to care for ; rich cream in cold weather and thinner cream in warm weather, if
we wish it ; the best of skim-milk all the time for our calves (I raise all pure-bred calves on skim-
milk), besides a cash market for our butter if we wish le, and a gain of a few cents per pound on our butter. It can be said that the separator can be
managed to give us the cream of the most churn. managed to give us the cream of the most churn-
able quality all the year round so
more and better butter than can be to more and better butter than can bbe made by creame
obtained by deep-setting.
J. F. HINDMARCB.

More Harmony Between Maker and Patron. Messrs. Bell, of Tavistock, Beam, of Black. Crenk, and other leading members of the Dairy. butter convention held at Guelph, Ont., in March, the importance of more harmony between patrons much holding aloof from each other, as though each were trying to beat the other in his department. A moment's uabiased reflection should not necessary to the success of the other cannot make good cheese except he has good, cleanflavored milk to do it with and except the cheese be first-claes the price obtained cannot be the
highest. Now, what appears to be needed is greater confidence by the patrons in the makere,
who ought to be, if he knows his business in the best possil.
of the mill.
of the milik.
Mr. Beill
of
cases of cases milk out of condition was the result of
want of knowledge in reference to its care. So that it is wise on the part of the maker to cultivate a friendly intercourse with the patron; not
only giving practical suggestions, but by frequent reminders stimulating a care that may be overremembered also that the patrons are reading and observing, and it is idle for the maker or factory
owner to demand Al milk if the factory roundings present a slovenly and filthy The factory should be ab bright and shining example to the whole neighborhood.

Will Alfalfa Flavor the Milk ? Sir, - Will you please tell me, through your paper, if the use of aifalifa, as a pasture, gives the
milk any flavor? I seeded down a field of four or five acres, two years ago; had a large yield from third time, but used the last growth for pasture.
The field was a marked contrast to all other fields, being bright green and in vigorous growth, while the drought. My neighbors are going into the alfalfa strongly this season, but many claim that old pasture forkaif a day, and would leave them in noon. There was a strong taste to the milk; but
my neighbor's milk, who had no alfalfa, was just as my neighbor's milk, who had no alfalfa, was just as it. I account for the strong taste in this way:
After the rain set in-the pasture grass being nearly all burnt out by the continued drought-the thing green, greedily. Perhaps some of your readers who have used alfalfa several seasons would le us know if they noticed any flavor in the wilk from perity of the Farmerr's Advocate, I remain,
Stormont Oo., Ont.
E. D. Ault.

## POULTRY.

## Brooder Management.

by mrs. ida e. tilson, wisconsin.
I rented a brooder last April, with which to raise
part of my chicks. In fact I used it as a nurser or infirmary, putting in all the lame, feeble or smail ones. For the first few days, its quietness, peace
nd
even temperature no
doubt saved several ives, and even put them ahead of those chicks side secured more exercise, and forged a little ahead. Though we get knowledge in many ways,
he famous kindergarten maxim is very true, that "We learn to do by doing." I certainly learned some things about preparing for and buying a
brooder. The one I used had its glass in one end, ght, as soon as they knew enough to anything and two feeble creatures, the only ones lost, were trodden to death by their companions. In a glass-
topped brooder the chicks would scatter and stay topped brooder the chicks would scater and glass
wherever the temperature suited them. A
top would also be much more convenient to look through at thermometer. Instead, I got down to peak through the end tiil my knees were like rusty
hinges. I hung the thermometer so the bulb would
come about on a line with a chick's head and breathfinally got the fing, bending the supporting nail was to read. Only one little corner of the brooder wha open to let out the sweepings. II should want
whole was danger of chicks jumping out. I have heard con iaerabie discussion on the height of the incubators
and brooders. The incubator, wherein eggs stay till done, might as well be pat on longer legg, like some
new styes, and prevent so much stoo ing new stres, and prevent so much stooping. Win
brooders, another point comes into consideration the higher up, the more reluctant are chicks to venture down and out. By having
wide, I had no great trouble, however
The main theang tropber, however.
have a previous preparation is to have a place for every such machine or imple-
ment, where it can be kept without moving and without endangering other buildings. No person who has not helped to lift one knows
what a massive edifice even a brooder is. spite of makers, assurances, 1 have yeter to meet
abrooder successfully nsed right out of doors in a brooder successfully
our far Nod right out of doors in thus must be subjected. If placeedin ins dwe dwelling
house, where is the grass run? If in the cellar house, where is the grass run? If in the cellar,
there is a Dakota correspondent. Although a brooder lamp is no more dangerous than any other light, yet there is risk, and some insurance companies
require application for a " permit " to run aithe require application for a " "permit" to run eithe
incubator or brooder in a dwelling As Nelli Hawks lately suggested, bargains in old building may often be obtained. That meat-market re have made her a capital brooder house. A mush bor of mine bought cheaply for his whole hen house a temporary sort of shanty erected affer a
fire. sides and $m y$ brooder in a shed, open on two wind storm the blaze flared so il put out the lam temporarily and blistered a finger doing this, so
hot had the burner become. A Brooder draughts generally has its lamp boxed, and that
tends to overheat burners and makes work get tends to overheat burners and makes work get
ting at the lamp. Newspapers are nice to put in main part of brooder, below the sand or rubbish, and lift out for a cleaning, instead of scraping the wood, bu a few trials, nor my favorite chicken tablecloth o brown papar, for which 1 substituted stiff strips of crusty, and did not molest my brooder chicks, Such chicks are more defenceless without their mother's warning voice and sharp beak; hence, if one wishes to be free from all worry about cats or
dogs, he needs a yard of fine, high wire. ogs, he needs a yard of ine, high wire.
Before beginning operations with
bator or brooder, I dig any soot out of receiving tube as well as I can and boil up the lamp burner best quality of oil I can buy, though wa cannot obtain here the highest tested oil. I should advise
filling the lamp each morning and each evening. Be iiling the lamp each morning and each evening. Be
ing used to a hot water incubator, which kind take about a day to warm up, I was suy prised to inc and a halt hours. Of course, should any accident happen, its temperature would rise or fall much more
rapidly than hot water allows, hence the latter io generally considered safer. Practice in running an mpty incubator or brooder is the cheapest and anpleasant, sickening smell of fresh varnish, The will then have disappeared. The first temperature was advised to be $90^{\circ}$. I had proved, by previous urials win wo thermometers, that $80^{\circ}$ in main and found that combination a successful average, which was gradually but quite rapidly reduced.
Though the chick runs out into ${ }_{\mathrm{a}}^{\mathrm{a}}$ much colder Though the chick runs out into a much colder
temperature when he leaves his natural mother's feathers, he can immediately return and nestle against her warm skin. Cold air braces him and
us, but not a continuous chill. Those with and us, but not a continuous chill. Those with much
experience handling brooders say, "Have the 'mother' part warg enough,", beca, 'tase the chicke
can go out into the main portion of brooder if too can go out into the main portion of brooder if too
warm in former: but keep an even temperature warm in former; but keep an even temperature, the whole is wrong. English poultry papers rive it a
lower range of temperature for broodera, owing ower range of temperature for brooders, owing, I
think, to their softer climate. Perhaps I succeeded because my brooder was not overcrowded. The
provisions for ventilation are sometimes that many brooders really accommodate but one
half those they are listed to hold. I found the machine most ditficult to run in in comparatively warm weather, when the lamp had tomparat put out occasionally; hence, , believe brooders are designed
for early and wholesale work. An incubator is similar, and need whothe fresheggs and egngs illouator is village must, and I I would food tor the circumscribed which needs to be well watched over. Farmers.
working on a small scale, with por conveniences,
better adhere a while longer to the "old ways"

## Setting Hens.

It is well to set not less than three hens at a
time if it can be done. On the tenth day test the eggs, remove the unfertile ones, and give the bal ance, if possible, to two of them. The third one
may be reset. The two full broods, when hatched.
can be given to one hen to be reared. The other The Poultry Chum recin eggs and nest of a setting hen with flow the eggs and netse of a seting hen with Hlowers of
sulphur to destroy vermin. $I t$ is also well to dust
the hen with insect powder when she the hen with insect powder when she comes oft
with her brood. with her brood

## APIARY

## Comb Honey

As the season of the honey flow approaches, the
colonies should be strong and overflowing. Light colonies may be strengthened by occasionally civing a hich will suffer no injury from the stoss
colony it. This, however, must be done cautiously, and
no old bees carried from one hive to the other, a no old bees carried from one hive
that is most liable to start robbing.
For comb honey the old-fashioned surplus boxes holding 25 to 30 pounds, are regarded as relics of the past, and even if for home consumption, pound it two-pound sections are in ys serecerabe. Sec
tion holders, illustrated in accompanying figure, reproduced from Frank Benton's (M. . . .
Honey Bee Manual, with sections folded and in lace, each section supplied with thin foundation, hee opening of the harvest. Forty to fifty sections or each hive should be prepared.


Super with seetions and fection holders in place. A, super The foundation for sections should be the qual-
known as "thin surplus," or if full sheets be used, "extra thin surplus." In cutting foundation,
ither for sections or frames, the edge to either for sections or frames, the edge to be attached should be perfectis, straight. These
should be secured to the wood by pressure, combined in some instances with heat.
Starters half to three-quarters inch in width are
ometimes used at the bottoms of sections to secure meenmes used at the bottoms of sections to secure irm attarhment of comb there. Top starters an uides when it is desirable to avoid great outlay Theor dation.
The use of
The use of strips of tin or wood as separators
hown tat between the sections insures straight ombs with smooth surfaces, thus convenient to handle and ship. It is better not to putt surplus
honey receptacles on the hive until the honey flow actually begins, as no work will be done in them until then. Moreover, all the heat is needed in the
brood department during the early part of the
brood d

## VETERINARY

## To Prevent Joint-III

The foaling season, which has already com menced, will soon be general. A disease of young
foals which occasionally assumes serious frequency in large studs in some districtss is what is commomit
called joint-ill or navel-ill. The diseased conditio of the joint is supposed to arise from an infection of the navel by some specific poison or microbe. The manifestation of the disease is generally appreci-
able before the thirtieth day after birth; in the majority of cases before the twenty-first; in most indeed, before the seventh day, according to
Professor Penberthy, in a recent address delivered Professor Penberthy, in a recent address delivered
before the Midland Counties Veterinary Medical Association. There is much more hope, he said for the preventive than the curative treatment disease, nost inevidabe Professor Penserthy, " was the foal box. By bringing the mares to the one box every thing became contaminated. Therefore the mares
should foal in their own boxes, which should be disinfected as much and as frequently as posib immediately before the time of foaling." In addihorn toal should be immediately navel of the newl disinfected with carbolic that does not irritate, and in the case of valuable animals something should be used to cover the
part for a day or two. The dying parts of the
navel cord should with a strong antiseptic. The dusting on of som dry powder, such as sulphate of zinc or ar alittle
borax and flour, was what Professor Penberthy borax and flour, was what Professor Penberthy
generally advised, and it had been followed by Cxtremely goised, and results it had been followed by berts had been well
washed washed One speaker at the meeting very truly
remarked that the disease was seldom observed in
the doors. "Let a mare be in a perfect state of nature
and there is little fear of joint-evil."-Live Stock
Journul

GARDEN AND ORCHARD. $\begin{aligned} & \text { and otherwise transforming the crude } \\ & \text { a } \\ & \text { suitable } \\ & \text { liquid }\end{aligned}$ Apple Trees Among the Nova Scotia Granite. apple trian old farmer.
On land thoroughly drained and the soil of
ufficient depth, apple trees are found to flourish sufficient deptan, apple tir among the granito reeks and bear equally as well amone the granite reeks
as those planted on land free from stone if given ane same care in pruning and protection from the
the cold north wind. Thousands of acres of such land
could be made protitable in growing apple trees could be made protitable in growing apple trees
where clearing oft the rocks would cost more than the land is worth for tillage. On many farms
throughout the Valley of the Annapolis a larg throughout the Valley of the Annapolis a large
portion of the land is rocky, where among the rocks portion of the land is ock soid where among the rocks
is found the very best of sio for the grow of apple trees. Many of our young men, instead of leaving
to seek employment in a foreign land, ounla find it more profitable to occupy their land and planting an orcharard of apple trees, to accomplish which very
little money is required, say from five to ten dollar little money is required, say from five to ten dollars
per acre for the land, and with his own labor could per acre for the land, and wite him an orchard that in ten years would produce nearly a barrel of apples for each tree, and in twenty year
treatment, five or more barrels each.
How to Plant.- In setting out young trees, cut
off the tap root, if any, and set the tree on the surface level and haul sufficient earth (sandy loam
is best) and cover the roots a foot or more, and annually after the tree has started to grow spread two or three inches in depth of loam or bog mud around the tree as far as the branches extend to re-
plenish the soil that has been washed away by the rains and protect the roots in dry weather. The best trees are grown by planting the seed where you want the
the see is
pount young treesset out there
should not be less han forty feet space between
them, so that they may attain full growth without shading the whole ground, as they require
the warmth of the sun to ripen and flavor the fruit; but many persons
favor planting nearer, favor planting nearer,
and say they will do eequally as well for a
number of years and number of years and
hear as much per tree, bear as much per tree,
and when they are
grown so as to shade the ground, cut some out
and leave suffici ent room for the others to grow. But seldom, if ever, is the man found
with the courage of his with the courage of his convictions to cut them
down, but leaves them to encumber the ground without producing good
fruit.
Pruning.-Start the tree with not more than three branches about ground and prune so as

a suitable liquid for building up the cellular
tissues of the tree. To a limited extent this may be done in safety, but done too freely the tree will be some time in recovering its strength.
In favor of the summer time it is urged that made in the winter ; but perfect healing will also ollow winter pruning, provided thewound is properprotected from the air and moisture by paint ong hould be done from the middle of June to the middle of July
A caution which the Horticulturist notices is weel to and the first growth is pushing, for the sap, being and the first growth is pushing, for tored sufficiently matured for ealing the cut, will leak, and thi
The proper manner of pruning is perhaps of altogether a bad custom to neglect to prune until way as to leave a stump sticking out from the trunk. When dead stubs are allowed to project from the trunk they are almost certain to decay or later rendering it hollow or rotten-hearted. Large limbs should never be removed, if posible to avoid it; but if necessary, they should
be sawed as closely as possible to the trunk, and te sawed as closely as possible to the trunk, and
the wound should be immediately covered with some preparation which will exclude the air. Various preparations have been recommended, as a
coating of thick paint or coal tar of such consistcoacy that it may be applied with a brush. satisfactory preparation is made by taking a quart of alcohol and dissolving in it as much green shellac
as will make a liquid of the consistency of paint.

Tho grave the foliage a draggled appearance 8th, when the branches were bending with the loa they carried. The fruit fell from the tree largely
from the middle of August until the middle of September, when an excessive drought was exper enced. The picked apples which showed no rot taken from the tree on September 19th, weighed 4 of these had been attacked with codling moth The rotting apples numbered 117, of which 64 pe ther trials all resulted in favor of spraving som of them even more strikingly than the one illus ted herewith.

## Planting Evergreens

In passing a farm where the owner has appreci-
ated the value of trees to such an extent as to decoated the value of trees to such an extent as to doe dith them, one at once becomes anxious to learn who this well-to-do, sensible man
is. And yet how few, comparatively, take the trouble to go and do likewise. It requires no per suasion to convince one that a lot tastily decorate with evergreens and decianous trees is more beal if put upon the market, than the bare homestead having few if any more trees than those of the
fruit orchard somewhere out at the back. Why this is the case, every man owning a farm bare o ornammental and shade trees will be able to answer for himself if an answer is desired. countries are recognizing the importance of more
attention to this work, and have established "Arbor Day," which we regret is not more practically recognized than it is, although the extent to
which it is observed cannot but prove a great benewhich it is observed cannot
fit within a very few years.

It goes without saying that no "front" is
at al perfoct without
at leat few nice,
ghaest a few shapely evergreens.
We do not approve of We do not approve of
Stifit moulding and
trimming tify
 bunches; neither is a
loose,
stragg 1 ing , sprawling evergreen
a thing of beauty. a thing of beauty. Hecoding and alway admired, and, of course. must be kept trimmed.
Now, to obtain a cedar or spruce hedge is not a diffcult nor ex pensive
matter. First of all the matter. First of all the ground must be pre-
pared in much the same
manner an it would be manner as it would be for fruit bushes, or even
for a corn crop, by cultivation and manuring, so that a Ane, mellow
rich tilth is on rich tilth is obtained.
This can be done at leisure some thime be be
fore the planting is fore the planting is to to
fake place. While the $\circ$
horth of a beatifu awn or bordering a ing branches. cut out 505 -Apples picked from sprayed tree-weight, 135 pounds. 506 - Apples picked from unsprased tree-weight, 33 ponc, walk is fairlywellirecog
all the suckers and
limbs that cross each other and chafe the bark, and
keep the tree well thinned out annually so the sun keep the tree well thinned out annually so the sun
may shine on the fruit, which very muich improves its flavor. Any time is better than no time, but Apriil is a good month to prune, when the frost is out of the wood and before the buds start; it then
has the whole season to form a new growth of bark where the limb was cut off. Cultivation and Fertilizer.- If sufficient net vent the hogs from injuring them, and they are dllowed to root up the ground, the trees will not re quire any other cultivation or fertilizers.

## Pruning the Orchard.

Perhaps no department of the farm is receiving orchard.0nsideration it should bee pruned occasionally
phen goes without saying. The time and manner o
doing the work is worthy of careful consideration. With regard to the proper time for pruning, an old adage says: "Prune in winter for wood, and in
summer for fruit," and probably no better rule can summer for fruit,", and probabry nu beter rute can
he given. The Canadian Horticulturist says that the philosophy of this is explained by the fact that anything which checks the wood growth of the ruit buds; and, on the contrary, that which favors wood growth lessens that tendency Thus, while a tree is young and growing rapidy, it produces
little or no fruit ; but when it has attained a certain degree of maturity, and grows less vigorously it begins to produce fruit. On the same principle a tree that has been girded will often be overioade
with blossons, though not yet of the usual bearing age, or limbs which are aer limbs of the same tree Now, summer pruning checks the growt of the tree,
and therefore tends to increase its fruitulness. and therefore tends to increase its fruitfulness
By it the foliage is removed just when it it in inctive
operation, taking in from the atmosphere carbon

As to the form in which to shape the tree, it is
well to study the natural habit of the tree, and prune to favor that some sorts being spreading others pyramidal. Begin the work after the young trees are sec out, and contin branches that threaten to cross others or make the head too thick. A too common practice is to leave trees till nearly or
mature size and then begin cutting out large limbs mature size and then begin cutting out large
a system of reckless butchery that soon leaves a asysem of reck orssard.
decrepit, dying orchar

Spraying vs. Non-Spraying.
To spray or not to spray is the question which meason. The accompanying ilustration is a grand object lesson, showing the difference between the product of sprayed and ansprayed apple trees
growing side by side in 1895, as much alike as possible in everything but spraying. The cut is reproduced from Bulletin No. 59 , on gpraying experiments
in 1897, conducted by Kentucky Agricultural Stain $189{ }^{2}$,
tion.
The
The trees were of the Ben Davis variety, of
sedium size and very thrifty. The tre medium size and very thrifty. The tree from was sprayed after much the same fashion as is ecommended in the spray calendar published in pril ath issue of the adty, and weighing 135
 per cent.) were mined by codling moth. Of rotting
apples, 335 were taken from the tree, and 1300 (39 per apples, 1 , these were injured.
The tree from which the apples represented by
Then
mote Fig. 506 were taken bore more apples than the
sprayed tree, but lost most of them before picking sprayed tree, hut the fore part of them eeeasore itt leavers
time. During the other unsprayed trees. On June 8th its leave other unsprayed trees. an June
were unspotted and its apples sound. By August nized, its true value when on the norted and wers and
ite full ertent. Not only dopes it protect fruit
bushes from boak and destructive winde also prevents the forming of heavy snowdrifte Whico prevent so deat forming of heavy sonowaritts,
plints and bushea plants and bushee.
A very fine pair of cedar hedges on the farm of be seen to be admired, were pinted and care only the following manner: the ground had been plowed the fall previous to planting, and furrowe
left where the hedge rows were to stand. Immediately after spring seeding, a cedar swamp wae isited, where young cedars rom 18 inches to thre feet high were pulled up and hauled home on a
hay-rack. They were planted the following day about a foot apart in the row. The larger plant were trimmed back to about the height of the ower ones, and these seemed to grow ind in beer.
number that were over were the garden and used the next spring to replace those that had died. The ground on each side o
the row was hoed the first year and mulched the second. The hedges took care of themselves after that, except that they have been trimmed once a year. Another equally good hedge in the same
county was treated much the same, except that it was planted towards the end of May. It is preferable to secure the young trees from fairly high
ground. Many persons will require to get nursery. . 1 sides of outbuildings and residence can be appre ciated to their full value only when lived behind
for a time. $A$ single or double row of Nor for a time. A single or double row of Norway
spruce answers exceedingly well for this purpose spruce anewers exceeding y weil for this purpose.
They may be set out ither spring or fail, but
the ground should be fallowed some time before the ime of planting $A$ fow hours with a team thre time of planting. A few hours with a team three
or four times in the season will put the ground in

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excellent form. For planting nithing surpasses a
tree six or seven years old, which has been trans rem lhe least hree itmes. Most failures come ransplanted in their gursery whee have not bee out the row there is no more convenient way than the bottom, well spread out; then carefuny fill in by hand. The ground should be ten carefully fill in wo or three seasons at least after the trees for planted. This can be done as easily as a row of
corn. which answers, well instead of cultivation. The writer saw an excellent row a short time ago that was planted last November, in which about 99 per
ent. are alive and very thrifty. There are many very thrifty.
upon which evergreens are peculians of the farm along the front of the farm, pecui one suited, viz.
of lanes or the of lanes, or they may be well used as a beautiful
covering to waste or unsightly are a score of places on anmost every farm there the presence of a few nice evergreens would become actually things of beauty and joy for all future
time.

## Diseases of the Potato

Carrefully conducted experiments have been tural Experiment Station, and from Cornell Agricul tion gained bulletin 113 has been supplied a summary of which is as follows :-
Potato rot, or late blight, is caused by a fungus which may develop with extreme rapidity under favorable circumstancess. It mayy cause the decay
of all parts of the potato plant, including the tubers. distinct brown and mostly large areas of vally shows form, but usually not circular spots; these may enlarge very rapidly, the undor surface of the leat
showing a frost-like showing a frost-1ike growth in the parts firiat
attacked. Unaffected portions of the leaves retain their healthy green color.
color where the fungus is found assume a dark color where the fungus is found. Where decay
takes place slowly, the dead portions become dry and shrivelled ; durring rapid invasions considerable The early blight of potatoes d.
tubris to rot. A more or less rapid drying and curling of the leaves and stems mark the presence of the disease. The edges of the leaves are first
visibly afficted; the color changes brown, while the central parts of the leaffets gradually become lighter green or even yellow and more
or less spotted. Eventually all portions above or less spoted ted entually all portions above
ground turn brown. Potato scab, as commonly found upon the
tubers, is due to the tubers, is due to the presence of a fungus. Similar
blemishes have also been ascribed to the work of bacteria, and to insect injury
reated ete blight of potatoes may be successfully treated by spraying the vines two or threesstully
with the Bordeaux mixture. The first application with the Bordeaux mixture. The first appelication
should be made during the latter part of July; it shay be repeated dating interals at of one part of thuly; it
Three weeks. The early blight of potatoes may be treated with be sprayed when about two ed as necessary, the foliage at all times being well Proper methods of fertili
Proper methods of fertilization and of cultivation injury from early blight, as was shown by greatly The apparent
The apparent increased yield per acre of pota-
toes sprayed with the Bordeaux mixture was 418 bushels.
The increased yield p ertilized and cultivated, as compared with with es well egeected plants, was 100 bushels per acre. partiall Seed potatoes affected with scab may be cleaned
and made fit for planting by soaking them in and made fit for planting by
solution of corrosive sublimate
Land in which the fungus causing nown to exist should not be used for growing potatoss or beets except at intervals of several toes, if the scab fungus is in the soil. Potato beetles may easily be destroyed by mean
of the arsenites. Paris green and London purple
are Flea-beetles cannot be controlled satisfactorily Bordeaux mixture, thoroughly applied, appears to be the best practical remedy against these insects.
This material probably does not kill the beetles, but simply keeps them away. Pumps for driving the liquid through nozzles In the form of a fine spray are on the whole mose
satisfactory. The can be arranged so that several rows may be sprayed at once.
Horse-power sprayers can be recommended for
spraying potatoes. If the plants are sprayed for spraying potatoes. If the plants are sprayed for
the potato beetle, one nozzle over each row is suffi cient; for filea-beetles and for fungous diseases, it more thorough application may be made.

The Armenian farmers are entirely without seed be no oswing. Relief disbursers at Gurun wave been arrested, and many persons are dying of
hunger. At Bitlis, American relief agents are al-
lowed to distribute.

## QUESTIONS AND ANSWERS.





## Veterinary.

chronic laminiti
T. A. M., Carman :-"I have a fine mare, seven
vears old, that for about seven months has been ore in front feet-in fact quite lame ; hoof seems ery hard, and when pared out in the sole there rog. Please prescribe
[Probably incurable. Keep the hoofs soft by soaking in tepid water, and the application of a is kept shod, have shoes moved every four or five weeks. At each alternate shoeing, apply tar and oakum to the sole, and put sole leather between hoof and shoe; during the period that this is applied, soaking and poulticing should be disconinued. If the animal is not required for work, emove the shoes, apply a blister to the coronet W. A. Dunbar, V. S., Winnipeg.

LIVE STOCK MARKETS.
Toronto Markets
There was a decidedly better tone to the cattle trade. the firmness is accounted for by the opening of navigation and the presence of four buyers for the Franch and Belgian
markets. Mons. Henri Vaulandegheim Classim took a ship load, about 700 head, at 4 lc . per lh. The were prime quality, the best that have, appeared on this mar ket for some time. Mr. Halligan received the commission bus, and will want a further buy, and wil want a further consignment next month. We
are informed that if this shipment is successful, it is likely that a considerable trade will be done with both these countries in
cattle, lumber, and cheese; they are shipped to Havre, in
There were 14 carloads of cattle from Manitoba, fed an
watered on the track. About 20 oarloads went from this
 A. Mullins nave returned from the Norhw west and Mand Mr. H
where they purchased 223 head of catule, which they iol Messre. Ironsides to ship through to britain.
Export $C$ Cattle
Export Cattle.- Although a good number of cattle were in
the right orort for export were hand to get. As the eppor
trade has fairly commenced, we had a much more active mar
 were the buyers for export.
Butchers' Cattle. The men from Montreal were buying
freely. Tne market was improved, not only more active, but
prices were better by about two do llars




 ougnt ror shipper,, , 1501
lbs. average, $\$ \$ 2 /$ per head.
shipping. a lot by way way of Porthand the only byyer in this line,
arge consignment of heavy bulls for Beyer here purchased a
 weighing 1,270 lbs., sold for 3c. per 1 b .
Stockers

 Sheep and Lambs. Yearling and spring lambs somewhat
scarce, ruling firuruse, Yict to co. and 5 to. per lb. Spring lambs
wanted at from $\$ 3.50$ to $\$ 5$ each.


 rim at te. per lb, weighed off cars. Thick fat were in too
arge supply, and droped off in price. There were










 | $\begin{array}{c}\text { cheesc. } \\ \text { ful cream } \\ \text { May sth. }\end{array}$ |
| :---: |













 Cid fashioned heavy beeves.



 at $\$ 3.75$ to $\$ 150$, chiefly $\$ \$ 1$ to
 Su that private sal of tarstiluery bexp oathe is being rapidir






Montreal Markets.



















A WASTED LIFE.
wilitamm. hinsdale.








 view in inither direction. In this angleof the way a man was waiting for the after


































 near the doorr





The fellow tossed my revolver and $m$ f few silver dollars into
his sack and
sabrabed at my



 eacon was bending overa a form that was stretctened poon the




 The deacon lowered his heaad, and the other whispered




 bried, and

The Mysteries of a Pack of Cards. A private soldier by the name of Richard Lee
was taken before a macistrate recently for playing cards during divine service. It appears a sergeant parson had read the prayer, he took the text.
Those who had a Bible took it out, but this soldier Those who had a Bible took it out, but this sol, but
 The sergeant of the company saw him and said :-
"Richard, put up the cards ; this is no place for
them." "Never mind that," said Richard.
When the service was over, the constable took "Well," says the mayor, "what have you brought the soldier here for?",
"For playing cards in church." yourself?",
"Much, sir, I hope
"VU
 than man was ever punished. ${ }^{\text {"I have been, said the sold "about six weeks }}$
on the march. I have neither Bible nor common prayer book. I have nothing but a pack of cards intentions.
And, spreading the cards before the mayor, he egan with the ace
one God. When I see the deuce, it reminds me mot Father and Son. When I see the tray, it reminds me of Father, , Son, and Holy thit. that preached-Matthew, Mark, Luke, and John.
When I meet the five it reminds me of the five When I meet the five, it reminds me of the five
wise virgins that trimmed their lamps-there were When I see the six, it remi ood made heaven and earth. When I see the rested from the great work He had created, and hallowed it. When I see the eight, it reminds me
of the eight righteous persons that were saved of the eight righteous persons that were save
when God destroyed the
world, viz., Nooah and his ife, with three sons and their wives. When 1 see were cleansed by our Saviour-there were nine out ore
the ten, it reminds me of the ten command ments
which Go hande down to Moses on tablets of which God handed down to M Msses on tablets of sing of Heaven, which is God Almighty. Whe Sheba, for she was as wise a woman as Soloman Was a man. She brought with her fifty boys and
fifty girls, all dressed in boys' apparel, for King Soloman to tell which were boys and which were girls. King Soloman sent for water for them to boys to their wrists, so King Soloman told by that." "Wescrio" soid the mall the card, "you have
"What is that?"
darept one."

## "The knave," said the mayo

"I will give your honor a description of that
 me "Well," said the soldier, "the greatest knave
 "When I count how many spots there are in a pack of cards, I find three hundred and sixty-fiveas many days as there are in a year. On counting
the number of cards in a pack, I find there are fifty-two-the number of weeks in a year. I find there
are twelve picture cards-representing the number are twelve picture cards-representing the number
of months in a year and on ounting the tricks, I
find thirteen -the number of weeks in a quarter So you see, sir, a pack of cards serve for a
an aible,

## THE QUIET HOUR.

Conversation. Keep a watch on your words my sisters,
Tror words are wondertul things
 Thes anh beess tike have harrmber the ting in Theo can out in in the estriftor anger.
Let them pass through your lips unchallenged



hey make, my sisters,
Gor guarizs jour ipips hand ever


The Door of the Lips.
Possibly there are two distinct species of busybodies; some may be heedlessly liable to pass on a from unrestrained habit, but others with a more deliberate purpose to injure. The latter, as a mat ter of course, fall under the condemnation of all decent people, and would probably be slow to ad mit themselves to be consciously guilly of such an offence. Yet, even so, they are also not free from censure, just as the consequences of their gossiping mow easily an innocent reputation may be all un knowingly blasted, and without opportunity of de fence or reparation, by ugly gossip based on unfounded rumor. And, is the coshiest treasure
mortal times afford is a spotless reputation, $h$ how morrecably-or, at least, for a considerable season - man may be robbed of the most precious thing he owns!
Ponder
the expectation of these things, as well as upon ment for every idle word, a Christian will surely be Nor does this
ment of actual wrongs, the promulgation of which would be the frist step to their abatement or correction. There is such a thing as criminal silence,
which may make the silent one accessory to the wrong, if not hold him amenable, in a degree only wrong, if not hoid him amenabe, in a degree only
slighty inferior to that attaching to the grincipale
themesives There is a a time to spoak and to themselves. There is a time to speak, and to speal
unequivocally, with a view to effect some better mequivocat there is also a time to be silent ; and
ment ever and always it is in order to meditate upon
and make use of the prayer, "Set a watch, $\mathbf{O}$ Lord
 St. James understood both human nature and
ethics when he wrote: "If any man among you seem to be religious, and bridleth not his tongue,
but deceiveth his vain."

## Words.

Words have a fearful power. Swift-winged mees human soul possess a tablet upon which, by some mysterious agency, words might be engraven in
appropriate
characters, how varied and full of meaning would those characters be, and how po
tent their spell riiendly civilities, the little occurrences of everyday ife, would be but fainty impressed and recognized
only by the charm investing them. Gay word, the pointed and brilliant scintillations of wit and fancy, sparkling as just dropped from a diamond point.
Bitter words, atinging, withering words of reproact and scorn, engraven as with a pen of iron, and darky enveloped with gloomy shadows. Noble words, the embodiment of the glowing thoughts and con with a halo of glory. And words of mercy, loving words of sympathy, burning with a radiance mild and lovely as the breathing o an angel-presence
This is not all fancy. Words are indeed engraven upon more enduring tablets than those of ivory or rass ; that of immortal mincs. Take the con tinual interchange in the particles of matter ; par-
ticles thrown off from one substance filling the places in the formation of another. So words are the particles which minds are throwing off, to
become incorporated with other words, to be unperbecome incorporated wislf
ishable as the mind itself.
ft becomes us, then, to consider well the power That carnluence for good or evili in our keeping. with it a thrill of agony almost too bitter for the sensitive spirit to endure. A kindy word may orever ; or its opposite crush to earth some timid word of encouragementhit, fitly spoken, may cause the sweet flowers of hope and joy to spring up in
the heart, and sweetly lure the bright buds of promise to unfold in heeauty. One little word may ons some chord which shal vibrate tones of sorrow through the endless ages of eternity.

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THE CHILDREN'S CORNER






HIDDÈ Provirb-No. 15
The Allison Four.
(Continued from page 194.)
Two weeks slipped quickly away and there were no railures on the part of girls were often called. Maud was especially diligigent, keeping such a supply of cakes
on hand that some of them grew stale, and trying on hand that some of them grew stale, and trying
so many new recipes that hor mother was obliged so many new recines exiner aginst expense.
The third week the weather was excessively
warm. Mabel grew hot and cross over the ironing warm. Mabel grew hot and cross ${ }^{\text {and }}$, miles away, and her red lips wore a decided pout
when reminded that the dusting would not amit of her making a two-days' visit. Bernice's task had
to be done twice a dav, but she kept bravely on only declaring in confidence to papa, one morning as he watched her turn her shining pans in the sing,
that when she grew un she should never keep cows.
"But you love milk," he said.
"Oht I cau buy that of a milikman," and she ran merrily away to romp with old Rover. "Write and tell Auntie May 1 love her, but I Tan't have one bit of fun, and I'd as soon have my vachtion as a pony," she said, and although her mother The fifth week a party from a neighboring city
an camped on the shore of a lake near the Allitson
farm Among the campers were several friends of our girls, and many invitations came to the farm-
house, some of which had, in spite of pleading faces, to be declined. Friday evening a neighbor sent for Mrr. Allison to watch with a sick child, and she,
knowing her daughters were competent for the knowing her, daughters were competent for the
next morning's work, went glady. The little child was so ill when morning came she lingered, and at noon it died, so it was sundown when she reached
home. reached the kitchen, she found Bernice at the sink, her bare arms deep in the huge dish, pan. After Mrs. Allison asked :

Where are the other girls?
Oh, mamma, Lizzie and Hilda Turner came over from the camp before we had finished the girls went back with them to play tennis.
"Why did you not go, Bernice.
did not come home to-day, there would be no one o get supper for papa and and time Then then the ho ouse
Tas not in order for sunday, and I thought" was not in order for Sunday, and I thought"
Here the little girl stoped and as her wo Here the little girl stopped, and as her work was
finishen, she came out and nestled down by her mother on the lounge.
"Thought you would give up pleasure to help she drew the dusky head to her bosom.
It was nine o'clock when the Turners brought heir young guests home. Meanwhile, Mrs. Alilison cooky jar were empty. Nor was this the worst.
Several garments ampened by Mabel the doy be.
fore were badly mildewed. But she was a wise and fore were badly mildewed. But she was a wise and patient mother, so the merry pirls who so raptur
ously described their afternoon's sport were kissed and sent to bed unscolded.
The next morning brought to Maud and Mabe work, but their mother orly said I was glad I could "Mrs. Lewis needed me and I wa
stay, although it was hard for Bernice
Blanche was wiping the breakfast dishes, and she the the chance for the pony?",
spoiled our chents gray
The mother looked gravely into Mauds eyes, where the thears wrere. gathering, and said,
"Auntie must decide that?"

When Mrs. Taylor returned from her journey
and heard the whole story, she called the girls to her room and asked? Now spotted pony? It will arrive to They were justicic- - loving girls, so Maud answered with a sigh: feel when I say it as in II was
how it makes me
owning that she loved our mother best. And I am owning that
sure
" hat don't seeds of selfishness sprout in your hearts and overseed that love." And with this queer wee sermon
run then the conversation ended.
Flirt proved to be.
Fhirt proved to be a gentle, yet spirited little
creature, and, between you and me, thought it creature, and, between you and me, thought it
really belongs to Bernice, it seemed to be owned by
all the "Allison Four." MINNIE MAY'S DEPARTMENT

My Dear Nieces,
Have
Have you not asked yourselves often during the Woman, and when will it end?" With the coming of spring it has sprung into neplife. No nazine
paper but has its little caricature ; no magazin
 on the New Woman. And the breeze of discussion
by newspapers and periodicals has swept aside the by newspapers and periodicial has swept aside the
parson's notes and headlines, and he has laid aside
the the evangel to propound his, littlle theory on "The
tew Woman and Her Sphere." With prophetie
Tes. New Woman and Her Sphere." With prophetic
foresight little short of the miraculous he looks Toresight hee coming yearrs, nd miracen aus anounces to
through the
the woman waiting in breathless anxiety for his verthe woman waiting in breathless anxiety for his ver-
diict: "Your sphere is the home; - there, and only him to tell us so.
Without intending any disrespect to his rever-
ence, we would humbly inquire: "But has she not ence, we would humby inquire: "But has she not
already achieved success elsewhere? Is she any
the less woman the less womanaly becausese of of this surecess ? ?
Without venturing to imply that this clerical advice, and the unclerical also of the same variety, could be suggested dy jealousy at the success that
has crowned woman's efforts in spheres of activit hitherto occupied by man, we venture to remark that there may be another view to be taken into
consideration when discussing the evils resulting from woman's competition with man. Plaintive is the wail that the young man working for the smaill salary which is the direct result of competitive
female labor cannot afford to marry irrelevant, but we can't help wondering whether in case the aforesaid poor young man should rashly determine to marry, and later on on find him-
self in the position of pater familias to a large self in the position of pater familias to a large
family of girle, would he find the burden as great as his father and forefather did?
But to return to the New Woman. Without ideas of the New Woman are confined to the "bloomer girl" "-ideas derived from some fifth-rate newspaper-and without entering into any discus-
sion as to the propriety or impropriety of bloomers or wherein they are more immodest than thos décolleté gowns which have had so long the approval of the fastidious masculine mind het us
turn for a moment to a more interesting urn for a moment to a more interesting phase of
the question, that of the New Woman's attitude toward marriage.
Could some foreigner, who had lived hitherto in Woman; could such a one be set down in our midst, he would be forced to the conclusion, by the general tone of the discussion, that women were How many find ambition mightier than arfection: What class of women is passing by the altar for a new field of labor? Is it those who, had such aavenues been closed to them, would have married
for love? Or is it simply those who resort to matrimony as a means of subsistence-who marry for a home, as the saying goes? Is the world likely
to be any the worse for a diminution in the be be any the worse for a diminution in the num-
ber of wives? Other things being equal, will there not be fewer unhappy unions:
Who is the New Woman?
now the right to enter uni? Because woman has now the right to enter university halls and culti-
vate whatever talent her Creator bestowed upo her: because she is now allowed to take her place at the bar of justice, on , the platorm, at the
editor's desk, in the professor's chair, or in the physician's consulting-room, is she any more a new wonother, who, sickle in hand, kept side by side with the same woman, only with the a new woman, but wherever her tastes or tailents call her; -alas, that it
should ever have been denied her ! The sane woman stould ever have been denied her! The same woman
still. Human nature is very much the same to day as it was when the Gates of Eden closed behind our first parents, and woman just as ready, just as
fit for matrimony to-day as she was the day ator


I would say to all, use your gentest voice an
ome, watch it day by day as a pearl of great home, watch it day by day as a pearl of great
price, for it will he worth more to soun in days. to come than the best pearl hid in the sea. A $A$ kind
oice is joy, like a lark's song, to a hearti; ho It is a light that shines. Train it swert thar
now and it will keep in tune flomgh

UNCLE TOM'S DEPARTMENT.

## Puzzles.

All matter for this department should be addressed to $A$ de
 My first is on Jack's hand, and it well laid on the face



2-ANAGRAMM.
Names of popular music.

The air was sultry, but was stirred

The music banished all our cares,
And why
hhould $w e$ be sad
A thriling throud wh hee sraees there rang
Wo wandered trom the people,

Then back we came with quickened steps,

Again 1 live thro that sweet scene,
Tho
hime hasdimmed $m y$ eses ;



3-Cryptogram. AnNie P. Hampton.
The words are from a poom by Sir Walter Scott
 Huz mlss htpk aol my hf
L'lu dpao opz kfpun copil ol jyplk,
 4-Numerical enigma.
 ils.
whole is a quotation from Tennyson.
LILY DAY. 5-Charade. In ALL dreamy contemplation He had a most impressive blink FIRST honest wisdom had the bird
Aud like FIRST men to-day He showed hikgreatest clevernes
By LAst he didn't say. $\underset{\text { first loud chattering through }}{\text { 6-Charater }}$ My fripst loud chattering through th
Leaped in the tree-tops himh,
And saw his image shadowed where And 5 aw his image shadowe
Making kion ripled by.
Taking it for a friend, he w
Down where my mkcond did roll;
And was, you know, what lots are made
The first day of my Als
And was, you know, what lots are made
The first day of my ALL.
Morlex Smithson.
7-Transposition.
To Geo. W. Blyth.
It' himh time you were coming back
The puzzile group, have all all strayed off,
'Cept Lily Das and me.
And then our cousins, who have joined
Since we appeared in group. Aregetting in an a wfuls st
Perhaps it is the soup.
T. W.'s wan with primal toil,
His riend has struck aspark,
Miss A. P. Hampton flirting is

Miss A. P. Hampton firting is
With Harmond in the dark.
And Miss Irene is mad, 1 think,
Or else she cannot feel:
She's planned to take a trip aroun
America on a wheel.
Besides, the girls are beating us,
At answers and at P.'s.
I've mentioned all their names except
Miss Clara and Louise.
So we will have to hurry up
1 hope you'll heed this sad final.
And strive our cause to mend.
CHAR

G. W. blyth.

## , $, 2,3$ is a constellation.

Q. $, 4,2,3$ is a constellatio

Whe it wer bought nor sold,
ation t all try to hold.

Answers to April 15th Puzzles. 1.- Harmond Bradley.
2:
3. - Two of a trade never agree.

4.- Spark-Park-Ark.

8.-Wheatear. 9.-Complain (Come-plain). ${ }^{\text {Y }}$

the village politicians.

Solvers to Puzzless in April 1st Issue
Clara Robinson, Geo. W.' Blyth, Ada M. Jackso
Crerar.
Solvers to Puzzles in April 15th Issue.
Solvers to Puzzles in April 15TH Issue.
Clara Robinson, Anie . Hampton, Ada M. Jackson,
 Mary Ross and Amanda Wardle sent correct answers to
puzzles some time ago but were to olate to appear in proper
time, as they were sent to London.

## The Village Politicians.

by sir david wilkie
This picture was Wilkie's first step out of strugoften proved a hard mistress to her apprentices, even to those of the fairest promise, and Wilkie experienced the full weight of her hand in no
pleasant mood; but his Scotch pluck and endurance carried him through her harsh discipline with undaunted spirit, and to him, as to all who can achieve work of worth, and wait its due with pru-
dence and endurance, come honor and wealth in good time.
him, which attracted the attention of Lord Mans icture This nobleman asked the price of a finished puineas ; but no sketch. Wilkie answered fifteen At the chance of more was said about the matter. to work and produced the masterpiece. His artist
friends were delighted. Jackson, one of them, brought his work to the notice of Lord Mulgrave
and Sir George More and sir George Beaumont, two of his own patrons,
with a free-hearted appreciation which does honor
alike to his heart and his judgment. He repre-
sented Wilkie as " a young jcotchman second to no Dutchman that ever bore a palette on his thumb." Sir George Beaumont was the great art authority
of his day, the giver of reputations, though some of his dicta that have been recorded cast but a dubious light upon his judgment. He had, however, taste and discernment enough to perceive Wilkie's
talent. He gave his valuable approbation to "The Village Politicians," and became a generous friend to its creator. Hayden's account of the introduction of this picture to the public has a little side hit at
the friendly Sir George, which may, perhaps, illusthe frienaly that good nobleman's style of criticism. "The
trate
winter of 1806 ape winter of 1806 approached," he writes, "and Wilkie began to make a great noise. Sir George described picture of Tenier's, went home and at once painted the 'Village Politicians.' At once ! My dear Lady
Mulgrave-at once! and off all crowded to the little parlor of 8 Norton street of all crowded to the little parior of 8 Norton street, to see the picture painted picture or saw one until the morning when he saw the Teniers, and
the "Politicians."
"The Village Politicians" became the center of attraction at the Academy exhibition of the year
when it was produced. A ver a when it was produced. A very appreciative article
on the picture appeared in a leading organ of the on the picture appeared in a leading organ of the time. The impulsive Havden was one of the first
to see it, and rushing off to Wilkie's studio, he en-
countered Jackson on the way. Together they
who made the famous reply in the Irish Parliament
to the argument about considering the claims of posterity:"I don't see, Mr. Speaker," he said vehemently.
" why we should put ourselves out of the way to serve posterity. What has posterity ever done for us?" A universal roar of laughter interrupted and disconcerted him, but he hastened to explain "When I say posterity, sir, I do not mean our an
cestors, but those who are to come immediately cestors, but
after them.

For Husbands.
Don't think when you have won a wife that you have won also a slave. your sweetheart. Her relationship to you is simply Don't think that you can dispense with all the little civilitios of life towards her on marrying.
She appreciates those things quite as much as
other women. Don't be gruff and rude at home. Had you been
that sort of fellow before marriage, the probabili that sort of fellow before marriage, the probabili-
ties are that you would be sewing on your buttons still. Don't make your wife feel that she is an incum-
brance on you by giving grudgingly. What she brance on you by giving grudgingly. What she
needs give cheerfully, as if it were a pleasure to do so. She will feel better, and so will you. Don't meddle in the affairs of the house under so. Don't meddle in the affairs of the house under
her charge. You have no more right to be poking


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horn Association

 advice, the Lincolnshire men deelined to alte
the registered name of this orkanization.

 of course all would not have seen eye to eye
with the judg gee, it was freely admitted hhat
the work khd in very case been conscientiously
performed. the work had
performed.
The annual report of the English Lincoln
Long-woll Sheep Breeders A Associat ion, which
was presented at the


 wool sires, have been the two main features
1895. The complete suceess for the seafon ha
been somewhat tempered by the distractin
loscess amonk lambe during the losees among lambs during the autumn bun
taken all over, 189 has been wondrous kind
 1894, while it is in to foourishing a flanancial
condrion that , propoes to naterake the
advertising of the ram cales under its owe advertionsing of
prescient wing.

BOOK TABLE.
The Flock Book of the Suffolk fheep, Vol. X.:
hat been received from the Secreary, Mr.
Fenet precied


 in boards, and well compiled and printed.
The Hamphhire Down Fock Book, Vol. VII,
has been received from the Secretary Mr


 tuote the writer, ne. "the beest mutton an
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noticed a d decided improvement. Eteour
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