

LONDON, ONT., OCTOBER, 1872.


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## The Importation or stock.

 Since the publication of our last issue, wheat, met the Hon. A. McKellar on the cars. We asked him if he had seen our receut remarks in regard to the Government importation of tock. He not beour views and the danger of such a course1st, ou account of injury to our breeders; and 2ud, the great danger there now existed of lringing some of those fatal cat-tle diseases to our shiores that are so prevalent in Europe. Mr. McKellar said that George Brown
considered the importation of stock would considered the importation of stock would
be auvantageous. We suggested to him the necessity of having a quarantine farm established
for stock, or that the importation should be totally prosibited during the prevalence
 McKellar said he would give the subject
consideration, and thiat liis object would be to do what was considered the most
advantageons for the conutry. H e conadvan tageous for the country. $\begin{aligned} & \text { He con- } \\ & \text { sidered the breediug estallisiments as a }\end{aligned}$ sidered the breding estabishiments as a
kind of monopoly, and thought that the
 would be openly discussed in Parliament 1,efore anything would be donc
Apples, Cider and Vinegar. We have in the western part of Canada raised. First-class quality of picked apples will command a good price if farmerb
will take care of them, hanll-pick them, select nothing but prime, sound apples, and barref and store in a cool place. The
winter aryles will be in demaud. In most orchards there are large quantities that are only fit for fall use, and many more that are only fit for cider or vinepar.
There are
tens of thousands of dollars worth going to waste at the present time. Some netiligent farmers turn their hogs and cattle into the orchard and inagine
they are turning their apples to account. If they would make a large quantity of present time we inport arye quantities of
corn to make vinegar, while we might by using our sour apples make a better vine
If a company of farmers were to unite
and store up thousands of barrels of cider, and manage it right, we believe that by
botting and advertising it, a very hiph bottiing and advertising it, a very high

price would be obtained for it when in its prime, and it can be kept in that state for any leugth of time. Many think they | cannot afford a cider press. |
| :--- |
| A cider mill, if cared for, would last a |

life-time, and the interest would only be The Government of Ontarlo ve. \$2.80 per annum. How many thousand Individual Entorprise. farmers are there in Canada that have lost or wasted enough apples to pay for a dozen
cider mills. Waste
Waste no more ; it is only waste to feed sweetest kinds, and even then't they do not pay half as well as to manufacture them into cider. If you have a wagon load of would say, get a ciller mill. It will pay you. We know of no better hand-mil than Mr. Sills' combined aud improved mill and press.

The Mimico Farm
In this issue we give reports of the Markham Agricultural Farmers' Club ; we are pleased to notice the important dis cussions relative to agriculture which are
to arise. We expect to give further reports from that society, and hope they may give the whole subject a proper and fair investigation
It is the duty of Farmers' Clubs to on quire into our public agricultural affairs.-
We sincerely
hope that party political feelings will be barred whire disoussing this subject, and that the interests of ag. riculture may yet predominate above party
strife. We are aware that it is a very great and apparently an unconquerable power to overcome. We have tried it for the past seven years, and have greater fears than ever that party politics must rule our agri-
cultural affairs. that there may yet be found sufficient societies or gentlemen to manage the public agricultural affairs of this Dominion, with out being enchained or untrammeled by ects or party politics.

## Flowers.

to the ladies.
This season we have seen some of the were so much pleased with them that we determined, it" "possible, to procure some of the bullos for you, because we are quite sure every one would anmire them. We have sent to Holland to procure them
they will be here in time for planting thi fall. We will present two of these bulbs to each one of you that obtain a new lady subscriber for 1873 , and we shall also pre ent the lady that subscribes with two month. We hope to give the boys and girls some encouragement for getting subin at once and you will wave Be. for the prizes as soon as offered. 1 chance

The Government of Ontario In the July issue of the Farmrrs' Ad In the July issue of the Farmers' Ad tion of members of the Government to become importers of farm stock, and we protested against such a measure. We now resume the subject, as we have rea son to beieve that they, listening to rasi project.
Is the Government justified in entering into competition with individuals who on an enterprise tending to the prosperity of the country? We take up the quentiou not in interest of party, but of fair and
honest dealing between man and man-of honest dealing between man and man-of
equity between a class of the community and those who have been raised by that community to a position of power and respongibility. We proceed to show that
the action of the Government in pursuing the action of the Government in pursuing
such a course would be inconsistent with true principles of political economy, and with the plain details of honesty and honor.
They They have no right to enter into compe
tion with men who, first entering int his business at a great pecuniary risk ave been for years engaged in it, and have thereby oonferred a great and per-
nanent benefit on the country. That the inistry design to make a profit in the business is manifest from the argumenth used in support of the measure by its ad cates (see remarks of Hon. D. Reesor
meeting of Farmers' Club in Mark ham). Well may they who would fain epreciate the fair fame of our Dominion claim, Behold the Ontario Government bawbee in the way of speculation ! And this gain is to be at the expense of, and in competition with, Canadian importerk, breeders and graziers 1
'Tis true, they have, for the present, the power to carry out this ill-advined project;
but there is a tribunal to which they are accountable for the proper use of that ower, and no party can, with impunity, rave public opinion in this land of free hought and an untrammeled press.
This scheme would be bad policy This scheme would be bad policy as rovagant outlay of public money without any reasonable prospect of adequate remunera-
tion, notwithstanding the profits anticipated by ita supporters. The fact that such an undertaking is not needed precludes any reasonable expectation of its beting, in the hands of the government, a
profitable, or even a non-losing speculation. But were it even a source of pecuniary profit, it would be unwise polity so
to impede the well-doing of members of to impede the well-doing of members of
the nation, that the government of that

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nation might directly do their business,
and grasp the profit that they are now nation grasp the profit that they are now
anealizing. It would be a great wrong to
re individuals engaged in the business. The interfere with merchants importing any o very article of merchandise as enter into -ompetition with men who have been and gre doing the business etficiently. Apolofor one as for the other.
We can well conceive a country reduced to such circumstances that it would be
desirable for the government to undertake many things that, in a better state of society, would be better left to the enter the kins of Dahomy more enlightene, kia dom whatever would be conducive to civi-
lization and national prosperity, would be lization and national prosperity, would be
rightly considered the beneficent act of a paternal government. Even in civilized of caterprize on the part of private citizens, and the government possessed of means probable state of affiairs, we admit, the it would be commendable in that governinent to procure for the people what, woun could not otherwise secure.
Is Ontario in such a state as to demand
fron her ministry such assistance, or rather, as the people do dot assk for it, to
justify the expenditure of public money in surh an undertaking? Are they so back-
ward in the procress of civilization that the :overnment must enlighten them.and teach them what is for theosition would be seffecontradictory. members of theic kovermment, $a \rightarrow$ it is but her creature. Are they individually so
poor as to be, of themselves, unatic to morocure what is nceded by them, for the deso poor, so must he the publice cerhermer; it
is the offeriag o! their wealth fur their Hantry's wants. inattentive to their own interexts, neglecting the enriching of their country by the
improvement of agriculture, the impartation of the best farm stnck, and the selection of the lest agricultural seeds and imple-
ments, as to call for the lielpins hand of their government : The reply, ren from
the ofticials and organs of the suvernment, lunst be an admission that the people are about to be done for them by the yovernment. The Canadian importers and hreed ers of improved larlu stock are not, only the rountry, but also the most enterprising
auriculturists of the Unitel States are rain to improve theirstock from her herls cannot he ignorant. The great sales of such mou as Miller and snell must have
attrated his attention. Ac'r ED.

## seed Wheat.

The Agricultural Emporium has heen
the ineans of distributing a considerable quantity of Fall Wheat, the hest in find and of the purest samples to be procured. ne section of country, but has been far and wide throughonit the province, and
even in the neighbouring states. One even in the nelghoumby tates. Ony and of having always on hand a wond stok such as we could desire, are harely suf
ticient for nur undertaking. Merchant. in grain and seeds would not embark in it as there was no prosser of their reaking undergo the ureat expense of 1 to uring goni and recialle grain fir sed, wat then
to he obliged to sell at the market prices of ordinary market samples
We have not spared expense or trouble
to procure the best seed to be got; and though not at all times with the success we desired, yet as successfully as we could
portant, and one requiring such close at-
tention and ample means, unaided from tention and ample means, unaided from
any quarter. There have been some complaints of the quality of our seeds, but
they have been very few. We will show two instances of such complaints. One person who was not a paying subscriber
we accommodated by filling his order for grain. The order we punctually filled and the grain slipped by our clerk. A
letter came to hand from him threatening letter came to hand from him threatening
us with exposure, and everything dreadful, because the grain was two or three days
onger in reaching lim than he had ex pected. Anothor.-A large and wealthy armer tried to make ont ""full fuss be and chess in some wheat he had gnt from us. And he has never yet raised a grain We acknowledge no fault in such cases We tell you as we lave always told you that we send the best and purest we can
procure. If the Emporium be not all w procure. If the Emporium be not all we
would devise it to be, the fault lies not with us. Farmers should make greate but there is another party still far more
to be blamed. The goverument of the to be hamed. The goverument of the
prorince should have extended to the Agricultural Fmporium good and substantial service than it has yet licen able to, and to
do all the good for which it was originated. -As.'T EII.

The Austrian International Exhibition.
On the 1 st day of May, 1853, will b
naugurated this great exhibition, that bid fair to be the greatest and most magnifi-
cent of the exlibitions held by the several nations. The notes of preparation hav A beautiful park, said to he unsurpassed in Europe for its situation and adornments,
is ton lo the scene of the exhithition. Al that great wealth and refined taste can attractions. The ancient Empire is deter
mined not ouly not to be surpassed, but to surpass all wothers. The government architects of the old world to construct grounds. It is delightful to witness thi frnerous rivalry of the nations, not in war and arriculture, in develoning the industr A very brief description of the prepartions heing nade must suffice. Our space
is limited, and wo wish to put it to the is limited, and
best account:-

 for exinibition purposes; and lach country will
have one or more of these galleries allotted to it
towether wib the





This description of the exhibition build-
ing, from the Michistan Former, conveys sions of the huilding. The adornment of the grounds and everything in connection
with the exhibition are on an equally in perial sale. Rows of large horse chestnut leading to the principal cutrance. The leading to the principal entrance. The
grounds adjacent have been converted into pleasure grounds, with smooth lawna,
flower beds, rich with the choicest flowers, umbrageous groves, fountains of classic

design and artistic execution-all that can | design and artistic execution-all that can | muc |
| :--- | :--- | :--- |
| delight the senses. Large sums of money |  |

will be given in prizes to exhibitors, and
every endeavor will be made to render the every endeavor will be made to render the
awards of the judges of the various departments as just and impartial as they can possibly be.
All the nations of Europe are making
every preparation to be well represented every preparation to be well represented
at this great exhibition of the products of the industry and civilization of the world. A commission, with the Prince of Wales at its head, has been appointed by the
Queen of Great Britain, having special Queen of Great Britain, having special
charge of the products and stores of British industry aud of her colonies. The interests of Great Britain, including her colossal colonial Empire, will be well attendeil to.
Their vast resurces will form of them Their vast resnurces will form of them
selves a magnificent exhibition. We hope in the great display of the wealth of Br tain, the resources of the Dominion wil bear no little part. Her industry and
natural wealth are second to none other of natural weales. It would be a grievous
the colonies. It wrong were not her position at the exhi-
bition among the first.
In the United States periodicals that are devoted to the industrial pursuit
and prosperity of the country, there is and prosperity of the country, there is
cry of regret and mortification that their country will be entirely unrepresented in
this great International Exlibition. That this great International Exliibition. That government has not taken any steps in
the matter, nor has Congress appropriate any money, that the resources and variou industrial pursuites of their vast country

## Deep or Shallow Ploughing.

ing settled. In our agricultural exchanges we from time to time meet letters on th
subject from correspondents, as their perience or their prejudice inclines them Farmers, it must be confessed, are not, as a class, wholly unbiassed by prejudice.-
What we have been accustomed to do and to see done seems to us just what should to see done seems to us just what should
be done. If we have geen a method of tillage prove successful, we are apt to de-
cide at once that such a method must Ways succeed. But we should bear
mind that a single instance of success pursuing any methol in agriculture is no sutficient to prove that the method is the may have proceeded partly, or in whole, fom the course pursued. Hence it is only after repeated trials and under a variety tively pronounce any methood or impleor failur
A corresp mident of a very valuable ag-
ricultural baper, the
duced by hiss sucess in raising a good crop of oats after a very light ploughing, $i$,
this year ploughing all his stubble land in the same manner, expecting equal success. Having ploughed a piece of wheat stubble
$3 \frac{1}{3}$ inches deep in April, 1871 , and sowe clover seed on it, and, being disappointed
in the growth of the clover, he determined the following spring to sow it with sowing $1+$ bushels on five acres with a
Morrison Seeder, and finishing off with : smoothing harrow and broadcast weede and "a sincar" (plank). The crop was
harrested July 30. He expects 60 bushels her acre when threshed, haid straw enough
for si) lushels, aud thinks there would have been 110 h bushels if there had been
sufticient rain. He adds as follows:-
sufficient rain. He adus as follows :-
"Was it the early shallow plughing produced such fertility? The average crop in this vicinity will be under 4t
boshlels. I am shallow ploughing all my stubble land this season, as soon as I get
the grain stacked the grain stacked; and thoroughly sometime in Septem-
row it then the seeds have all germinated.-
ber whe By sowing clean seed I can have clea crops, and my opinion is that they will be
much larger than if ploughed deep in Oc
year's trial as proof positive that the one yar's trial as proof positive that the sys-
tem thus pursued must be the best and most profitable. It is more than probable that he will, after having given this matter he close attention he promises, greatly nodify, if not entirely change his opinion
n shallow ploughing his stubble land as soon as he gets the crop stacked, he is, no oubt, doing a good thing; the seeds of
veeds will, in consequence, germinate eeds will, in consequence, germinate
reely from the freshly turning of the soil and the autumn heat and showers; and also from the same operating causes, the tubbles will, by rotting, serve to enrich
the ground. But this light tillage is not he ground. But this light tillage is not
ufficient. Having shallow ploughed the round as soon as the crop is up, were he n addition to plough it deep in October,
it would then receive all the mellowing, would then receive all the mellowing,
nriching influence of the frost and snow and, before sowing the seed, if found neeessary, the use of the cultivator would
bring it into the very best state of tilth. bring it into the very best state of tilth.
Some may object to this as involving so Some may object to this as involving so
much labor, but let them bear in mind that labor, if judiciously expended, is sure
to be abundantly remunerated. It is the to be abundantly remunerated. It is the
greater labor and the more abundant manure that enable the farmers of Britain to raise so much larger crops than those of
america. Let us, as far as in our power, America.
have no inferior crops. A poor crop must
be a losing one to the producer; a good be a losing one to the prod
one is sure to be profitable.
What, then, are the advantages from deep ploughing, or may it not be, as some
say, rather injurious than otherwise, by turning underneath the surface soil that has been improved by thin influence of the atmosphere, and the culture of the pre-
vious year? The reply is obvious. The plants, cereals, or whatever they may be, equire food not merely from the three or
oour inches of surface ; they should, by having the soil tilled to a sufficient depth,
he enabled to draw their surplus of food rom a depth of many incles. And the rain and heat from the sun's rays will,
after the farmer has done his part, comafter the farmer has done his part, coml-
plete the process, so that every rootlet will have abuudance of nourishling food to convey to the plant. In the culture of
ront erops this is essentially necessary, and root crops this is essentially necessary, and
for cereals deep, good culture is $a$ means of imparting to the grain that plumpness and weight in which our grain is not equal to that of Britain, partly from the shor
time in which it arrives at maturity, and time in which it arrives at maturity, and
party, also, from our lighter and less costly preparation of the soil. And in
season of unusual
and a deep, thorough culture will enalle the crop to
stances.
It is true that if circumstances be pecuiarly favorable, the farmer may chance to be such ood crop, even though his cultur reverse. But we must not in farming nore than in any other business, act, re-
ying upon the chance of a luckiy hit. have known a good crop of oats grown where the ground was not even ploughed
or tilled. Iu part of a field the oats lay Hat on the ground from its great rankness, after reaping as had heen sowed on it a seed. The soil was damp as well as rich,
and the oate, lying shed, grew, and beins and the oat lying shed, grew, and bein
allowed to grow as it was till harvest, it yielded from the two acres it grew on ove 80 bushels to the acre of good grain.-
That crop, so profitable without tillage, did not induce the owner to plough to les,
denth, or till with less care in the future depth, or till with less

[This was in Europe.
The experience of many years passed in farming has proved to me that deep
ploughing should be the rule. But to this ploughing shonld be the rule. But to this
rule there are exceptions. If the surface rule there are excentions. If the surface
of the soil be the best adapted for nourishing the young plant and bringing it to crop, or after being some years fed on as a pasture, it would be unprofitable to turn that rich surface down deep. In new vir-
gia soil the case is similar. In very sandy

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soil deep ploughing may be injurious, as
tending to make it less retentive of the nutritive elements of the manure in the sandy subsoil. If the subsoil be cold and unfit of itself for the nourishment of plauts, rring it to the surface, till. from the action of the atmosphere after having been sub fertile.
e regarded instances as these should only ee regarded as exceptions to the "grand rule of deep ploughing. The highest auown experience in the opiaion
tain on this subject.-Ass'r Ed

Reports of the Crops of 1872 Through the curtesy of d W. W. Through the courtesy of the G. W. R is very interesting, containing a mine of suchistical information. We read it with much interest, and have condensed it so brief space, a synopsis of the returns that this harvest makes to the farmer for his care and labor. From the vicinity of each is a return. We so condense these returns as to present the average yield of the
country along each of these stations, as returne
The Main Line embraces 32 stations, with a separate report from each. The
Toronto Branch embraces 6 stations ; the Sarnia Branch, 4; the W. G. \& B. 'Line, 14; fr
port.
Fall W
Fall Wheat.-Main Line, average yield nearly
ve Brantford
, Main Line
 Oats. - Yield along the line averages 30,35
40 and 45 bushels per, acre ; a Alma it is "first class," from 50 Barley.-From 20 to 40 bushels the general more generally,
Good," "a above an average,", "look-Corn.-"Good," "above an average," "ing well," "extra, good."
Potatoes.- Generally good, though in some parts injured by the potato buy.
Turnips.-- Alight crop. Of other root crops,
litte: mention.
The average here given is greater than that reported in the united states, yet we
must confess that we are dissatisfied with mest confess that we are fields this season. Our farmers can produce much larger crops.-
The reports from Michisan show the aver The reports from Michigan show the aver
age yield in that State to be under 15 hushels, but to sit down contented be
cause others selves is not the way to make the desired
progress in any business. The question progress in any business. The question
for us to ask ourselves is, not if others are tional industry and proyress, hut how
shall we come abreast of the foremost Can we not compete with the good old
country? We reproduce the observation of an Ameri
in England

Some fields that I saw would average 30, some 36, and others 40 bushels
acre ; 60 and 65 are often reported.
One fiell that I saw gave an average of 44 , an acre. I am well satisfied that the yiel
is from 50 to 100 per cent. beyond ou American average." (See Farmers' ad
The wheat of Canada is of very fine quality, but very far inferior to the wheat
of the old country in yield. The Canadian farmer has, it is true, much to con
tend with in the climate, but I have not tend with in the climate; but I have not might be very much increased. Our Fall
Wheat of this season has been in some
places badly winter-killed ; but might not
this winter-killing be at least in part
avoided? I believe it misht, and I believe avoided? I believe it might, and I believe
ane the extra labor bestagred on the prepara-
tion of the soil in Britain would tion of the soil in Britain would prove soil brought into better tilt by deep plowing and sub-soiling, the wheat plant would acquire a greater mass of roots ; and were
a deeper covering added to this more towards guarding against the injury too often done to our fall crops by the severe frosts. The method I pursued for years wheat is as follows : I had the ground ploughed into ridges or beds of say seven teet, slightly rounded that the water might not lie stagnant on the ground.-
Then, having sowed and harrowed, I had the earth in the furrow cast, even over the
ridges; then, having taken the mould ridges; then, having taken the mould so deep as to near evenly over the ridges, leaving a furrow often twelve inches deep. From this culture I had always a heavy
crop. was ploughing the seed under This would do well when the soil was perfectly clean and in good tilth, after being fal
lowed or after a root crop. lowed or after a root crop.
The trenching entailed, of course, add
tional expense, but this was amply repai tional expense, but this was amply repaid My maxim in farming has always been
"A poor crop never pays."-Ass'r ED.

Underneath is the G.T.Railway report of
the crops of the London district, abridged the crops of the London district, abriaged
for the Advocate:Fall Wheat.-Large breadth sown
yield below the average- 15 bushels per Spring Wheat.-Large crop--samples good-yield 25 bushels per acre Oats.--Fair average crop; average abou
same as last year-35 bushels per acre. Barley--Samples light and inferior25 hushels per acre.
RyE. - But little grown; crops and samples good.
PEAS. Peas.-Small crop; injured by bugs-Flax-Average crop - average sown larger than usual.
Potatoks.-Fair crop; partially injured ybugs. HAY.-Fair crop; excellent quality.
We also give below the crop report of the
Gi. and Bruce Railway for the county of Vellington:

 Kexinworth.-Fall wheat 35 to 40 bushel
 Arthr.-Crops have not looked as well for
years back. Fall wheat, very little grown
syring wheat better than it hay heen for years sprinse grain and
coarse
above the average.
AMaravi, Waliemar and Luther.-Fal
wheat, very litte som, but what there is of
it is giond spring wheat, 20 bushels to the acre
 Parge 'uantities sown, very fair rrospects; peanu
look well ; hay, good croj, well saved ; roots,
ooul crops, Orangevillip.-. Fall wheat, 15 , buthels per
acee ; porar crop. more than hati of it havin

In speaking of the crops in the North changes of the 31 st ult., says:--From all
quarters we tear the most favorable quarters we hear the most favorable
accounts of the crops of all kinds this sea-
on. The growth has
the extreme, and the grain has all been
secured in oood shape. Several gentlempr
rom Canada, who made a tour of the Pro secured angood shape. Se our ot the Pro
from Canada, who made a tour
vince for the express purpose of examining Fince for the express purpose of examinin
the growing crops, have returned, and ex press themselves as ditigh aspect they present, and say it far exceeds anything they had thought $p$ issible. As higure tell best in all matters of this kind, and
give strangers a better idea of what the capacities of t he country are than any
amount of generalities, we slould be glad amount of generalities, we should be glay
if some of our enterprising farmers would send us for publication a notice of the
quantity sown, and the return yielded together with the time of sowing and reaping, and such other information as
they would be anxious to procure for themthey would be anxious to procure for them
selves in respect of any new country they thought of going to.

## Farmers' Club

The Farmers' Club met at the Wellington
Hotel, Markham, on Saturday the A goody number of meabers and severa visitors were present.
T. A. Mine, occupied the chair, and opened he meeting by stating that the suhjects for
discussion were :-"Seed Wheat, and the Cultivation of Alsike Clover and Grasses; and he Answering of Government Q
tive to putting a I)uty on Grain.
Mr. Gibson said as the government ques-
tions did not at present require pressing answers, in consequence of parliament no answers, in consequence of pariiament not
meeting until February, and it being too late to take up the seed wheat question to be of
practical benefit this season, he would propose that the club do now disceuss the quevstion of
the advisability of the Onta:io Government the advisability of the Unta io Governmen
establishing a government farm in connection establishing a government farm in connection
with the agricultural college. The question had been proposed at the July meeting, and the
president had been requested to read a paper at the next meeting thereon-the meeting
concurring. Mr. Gibson said that the sub ject minht appear political, and as the club
ras strictly non-political, sume might think was strictly non-political, sume might think it they looked at it in a a proper light, it was matter that would effiect the farming interest
very materially and sole $y$, and its discussion very materially and poley, and its discussion
here was not only proper, but very important. He hoped it would be discussed fearlessly and on its agricultural merits only. He was sorr
that Mr. Crosby, the local member, was not present to take part in the discussion, and note the views expressed by the several mem
bers of the club. Mr. C. had generally at tended the club, and was a useful and efficient nember. He (Mr. G.) did not know whether of government had made a proper selection a government farm would add to the prosperit.
of the agricultural interest of the province.
The Hon. D. Ressor agreed with the re
marks made by Mr. Gibson, that the ques tion was a very important one, and one that could be discussed withoute, involving party politics. The nembers the aricultural class
 $t$ great importance to the farmers of Ontario nd affected them most materially. The with farm attached, had long been discussed nd finaly decided upon by parliament, an
hie only thing to be discussed was the prope nethod of conducting it to make it benefifia If the members of parliament practical far ners, and it was so difticult to get practical
iarmers appointed, or who would accept go ernment appointments, that there wa. a a dang
that impractical theories proposed by scien Lific men in the legislature, might prove detr ould be conducted in a manner to make it locality he thought was a central one, and the proper kind. He thought the governmei would be pleased to have the members of the wers visit the farm and give their opinions respecting it. He would like the club to appoint
a committee to go and examine it. If its soil was such as was by some represented-a hard
pan with a few inches of sand on the surface -the government would make a mistake in putting on buiidings and otherwise fitting it
up for a model farm, as it would not be a fair
representation of the average quality of the
soil in the province, which it shuld be would he province, which it should be, as
countiy farnuels. It a great number of old should be a noodel farm in connection with the agricultural college. The professors shoul be en minic and practical faıners, men ment, who would and understand the best methods of stocl
rasing raising and latert improved systems of mode to the province, and should be sustained che government, even though it were not self - Technological School for the education mechanics, which was also commendable, an were all government schond common school the agricultural college, with the model tarm would be of the greatest importance in edu
cating farmers' sons cating farmers' sons. It required as good a
education, as sood practicil science, as good judgment and as much stud to manage a farm profitably as it did to suc ceed in any branch of industry or art. Gioo
agriculturists were geod men of business and sound judgment, and the more you can get Iarmers' sons to make farming a study, th
better it would be for themselves and the country. Give them a good practical agricriltural college education, it will bethe mean
of inducing them to stick to farming instal of leaving home, and enable thent to mak farmung the most profitable and honorable
calling. He would be gad if the club valling. He wonld be glad if the club woul visit the model farm, and he thought arrange
ments could be made to do so. The Hon. $A$ McKellar, Commisisioner of Agriculture and
Public Works, would, he thouvht Meablic Works, would, he thought, be well
pleased to have such interest shown by the htelligent farmers of Ontario.
Capt. Milne thought it difficult to discuss having visited the model farm. He thought ood. There were many importand the solt e considered in selecting the location and Mr. Gibson said he was hardly prepareat onbts as to the ment establishing a model farn. He though the money requirod to establish and namintain
it could be more beneficially expended in other ways. He thought private individuals had,
would take hold of these enterprises such sthe imp crtation and raising of stock and cientific farming, and it was hardly fai hem. If the government would loan th arm, to tarmers with small means to enable
hem to drain and otherwise improve thei arms, it would be more beneficial to the
country. He did not believe in governmen cuntry. He did not believe in governmenal
nonopolies.
Ie thought the agricultura college a necessity, but doubted whether th ould be the men with fists fit to undertak the practical illustrations of husba
Better let the farmers do the farming. Hon. D. Reesor said that he did not underto have a model farm or not, as an act of parlament had declared that we should. He go into extensive farming, but should have a emplify. farming simply. It would not be managed by government officials, but only was not intended and could not be made a political engine, by which either party con'd
be manipulated into or out of power. It was only intended for a school for young men to
attuin a high position in agriculture, the same as schools of technology, law and other prolessions; he thought guch a school very desirable for agriculturists to fully elevate their sons to as high a position as in commerce, law,
or any other protession $A$ gricultural fairs,
and reading agricultural and reading agricultural works, were schools
of benefit, but the agricultural college of benefit, but the agricultural college wat
intended to give the highest education-at tainable in agriculture, and confer degrees a in all other professions. Mistakes might b made in appointing professors, but they could
and would be corrected. He could not seo and would be corrected. He could not so choice animala by the government for
model farm, was likely to effect the busin model farm, was likely to effect the business
of enterprising stock importers and breeder
injuriously; on the other hand, he thought i would give ain impetus to the trade by educat
ing the young farmera to know the value and

|  |  |
| :---: | :---: |
| purchase on their merits solely. It was trie, du | duty of the farmers to look after the educ.tional interests, as well as other agricultural |
| that some wealn ynd raising stuck, and beeu int | interests. They were the most influential |
| into importing and raising stock, | clas in in Ontario, |
| agents to manage for them. Our own sul | y. |
| if properly educated, could do their buriness be | be prepared to occupy the important po |
| thout an agent He thought the c |  |
| arm would be protitable to all concemed. | ca |
| . Gibson thought perbaps he lad ex- ${ }_{\text {col }}^{\text {cat }}$ |  |
| pressed his views rather strongly. He thuught Ho | He thought it could also be mate self- susta |
| required in the country. If the coilege and in |  |
| farm was only intended for |  |
| farmers and demonstrating the art of farwing, gr | gr |
|  | nut be self-sustaining, and it would certainly |
| men were practicaly educat. He was |  |
| estabishments, sach opinion as to which was |  |
| best course. He thought the governm:1t of |  |
|  |  |
| press an opini |  |
| ts adaptability. | i.g in st ck and model 1 arming pay - why not |
| Mr. J. G. Reesor thought there were otfer per |  |
| an |  |
| educition for young farmers than that of an |  |
| thought it would be more beneficial to the an |  |
| thougiculturists to advise the government to have |  |
| lished |  |
|  |  |
| Mr. Gibson did not approve of the govern- |  |
| nt conducting a paper, as it might be used He approved of the |  |
| por pirecommended by the Farmers'Advocate, |  |
| dat of forming a joint stock publishing c |  |
|  | of America. The location of the model farm |
| Weld had offered to merge his paper and o |  |
| orinm into a company of that kud, or he what | wanted a guod farm to yield results. |
| Id sell out his interest in it. He ( | question was a very important one; the |
| thought the farmers should have sucia a journa | cussed the broader it gets. |
| ol of it. IIe thought it | A Voice.-How is it that the |
| ed, but he did not think it should |  |
| place of the agricultural coliege. |  |
| Capt. Milne said he thought an agr.cuitural | a money ma |
| lege. with a mought it should | and dd not want ti try experiment*. The |
|  |  |
| ${ }_{\text {it certainly }}$ did, why not the government, | r grass growing and stock raising. |
| anaged by an efficient staff on the | Hin. D. Reesor said he was pleased |
| atife principles. It would afford the | the practical remarks of Mr. Crawford. He |
| farmers the only means to give their | thought one reason large capit |
| thorongh practical agricultural edncation, | Allans Logan and Cuchran |
| ch would not only give them a ta te | farming in the Province of Quebec was because |
| cultural pursuits, but give farming, as a | their farms and they e |
|  | carl |
|  |  |
| our sons wnuld become |  |
| able to write as good, if not better wor | that as business men became wealthy in On- |
| that Aldernan Meechi, and certainly u1 |  |
| terestigy and instructive than Hurace Gre | to do similar. Messrs. Brown and rrv |
| "What I know about Farming." | doing it in Ontario. The Agricuitural |
| cus-ion was becoming more interesting and |  |
| zion of opinion on the subject from every |  |
| member present. | to benefit the farmers and their sons. Ever |
| Hon. D . Reesor said the | person had a right to visit the farm, an |
| Ondertake to | ht the duty of this Club was to visit it |
| Politics would inadvertantly | pinion as to soil, \&c. If it be |
| companies could do | good, rep |
| Farmers' Adyocate quite up to the sta | gorernment to make a change. |
| desirable. The Canada Farmer was | Mr. Jennings thonght every farmer in |
| we I conducted under the guidance of the |  |
| Mr Boown. The articles were a little hea | ing, without assistance from governm |
| and not so captivating for general |  |
| reading as some other |  |
| sustumed as it should be, on account of | the stock shown at Montreal was generaliy |
| manayer being considered a poitician, | hetter than that exhibi |
| though no articles having the least politi | others in Ontario. |
| tinge ever appeared in it. In order to estab- | - Mr. Rennie said the best thorough-bred |
| tish a good reliable farmers' paper, it would | of stock was too ligh in price for ordinary far- |
|  | get into it. The risk of haviug inferior |
| at |  |
| which might be do | educated to judge of their merits, was tor |
| pl |  |
| ing the young farmers on their extens | d |
| as in the old country, we do it. These | stock correctiy. and also furnish good stoc |
| tution wrow out of the college | to purchase at fair pricss. |
| model farm. We had not such ext | A resilutio |
|  |  |
| ner |  |
| in | II. Jeunings, |
|  |  |
| land, whose sale of stock amountal He a |  |
|  |  |
|  | Cluh their opinion as to the quality of the |
| Mr. Gibson urged a ${ }_{\text {armers }}$ establishing a paper of their o | soil, \&c. |
| Parmers |  |
|  |  |
| of the Farmers an ould have ter |  |
| da Farmer had it not been $m$ |  |
| on. G. Brown. He thought the | The Club adjourned to meet at Crosby's |
|  |  |
| have not had the iufluence in the country that | tober next, at 2 O'clock p.m. |
|  |  |

Agritulltural.

## T

The English, who are our instructors in us most of what we kuow on the subject have some advantage in climate over us of
Peunsylvania, though not of the South Pemusylvania, though not of the South,
which admits of feeding the bulbs as they stand in the ground, as well as under
cover, the stock, especially sheep, being cover, the stock, especialy sheep, being
grazed upon them, using hurdles to con-
fine the stock to a limited space, a flock lestined for the butcher being first turued in, where they may feed upon the better
portion, then moved into a fresh enclosure, portion, enticing the appetite. These are succeeded by a store flock, which picks up
the fragments so that nothing is lost.This process corresponds with that of our
prairie farmers, who turn their beef cattle into the standing corn (to us of the Eatst, a bad practice), and follow by hogs, which, we are told, find every stray grain ; and
aid in preparing the land for the succeeding crop.
of ruta bagas cannot be found within some of the States, to say nothing of
counties, the statement may excite surprise, that a hundred acres of that root in the hands of a single farmer of Great Britain is by no means unusual ; and it is
within a few days the writer entertained within a few days ent whimself had 250 acres in roots annually! Of course such
large breadths demand every mechanical large breadths demand every mechauical tived to be stored being pulled up singly by the hand, and cast into a heap, then
again taken in hand and topped, and again taken in hand and topped, and
again cast iuto a heap preparatory to being hauled away, they, on the contrary,
top with a hoe. A light, sharp, steel hoe is held perpendicularly in hand, and with
a quick action drawn horizontally, thus decapitating each bulb in succession as it drawn out and into windrows by a chain harrow, au English implement which we have in use at Bloomdale. It can readily

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Thus we have found roots of any and
all descriptions-ruta
nips, carrots, beets, parsnips-to keep
well. They are accessible at all times, well. They are accessible at all timees,
and when needed may be removed in larand when needed may be removed in lar-
ger or smaller quantities as desired. Al-
tosether they are better than mounds, ger or smatler quane better than mounds,
towether they are
which being elevated are exposed to frost, which being elevated are exposed to frost,
and require care in constructiou. In the
pits described we annually keep beets and pits described we annually keep beets and
carrots far into the sprins, indeed have fed carrots working oxei with beets, to their
our
great delight, up to July 1st.-Landreth's Treat delight, up to

## ashes and plaster on wheat.

 The profit in farming is all made fromgrowing large crops. A farmer cannot growing large crops. A farmer cathot
make any clear money out of filteem bushels of wheat to the acre, or out of
thirty bushels of corn to the acre, or thirty busherls of corn to the acre, or
twenty bushels of oats, or a ton of hay; nor from pastures which afford just about
feed enough to keep animals from growing feed enough to keep animals from growing
poor. Don't his own experience prove it poor. Dont his own experience pr there
to himself beyond question? Yet tall
are more farmers that fall below these fiyures than there are that go higher.This the census returns prove, by showing an average yield of less per acre, the State
through, than we bave noted fove. through, than we have noted ove. don't
If a farmer's own experience domer If a farmers own expere is nothing
that we can say that will convince him that we can sak that will convince him
that he is making no progress. Surely, when a mana has labored along for a dozen
years or more, he ought to have something years or more, he ought to have something
to show for it. He may say that he has lived and supported his family, but that is
not enough-lie ought not to be satisfied not enough-lie ought not to be satisteen
with that. If he had set his wits at work with increased the produce of his farm one-
and
third-which without doubt he might third - which without doubt he might have done-he would to-day have some-
thing more to boast of than the making thing more to bay
of a bare liviug.
To show how easy a thing it 18 to in-
crease the yield of wheat, we will relate a simple experiment, with ashes and plaster
by Mr. Hiram Lockwood, of Burr Oak by Mr. Hiram Lockwood, of Burr Oak,
St. Joseph Co., Mich. Mr. Lockwood is one of the most thorough and prosperous farmers in this section; and it is no flat.
tery to say that this is a result of careful tery to say that this is a result of carefu
observatipu and close attention to business, giving everything his personal over-
nifht and superintendence. Having a sight and superintendence. Having a hogshead of house ashes last fall, he
thought he would try the experiment of thought he would try the experwing on
mixing plaster with them and sowing mixing plaster Accordingly he mixed a barrel of plaster with the ashes, making about one-
third of the former to two-thirds of the third of the former to two-thirds of the
latter. Ife sowed at the rate of about latter.
fifty pounds to the acre, on one side of a
wheat field, the wheat being fairly up. A couple of showers came upon it soon atter sowing, and the effect of the appication
was very soon visible in the deeper color was very soon visible in the deeper cth of
and more vigorous and rapid growt
and the grain en the part to which the mix-
ture had been applied. This difference in appearance and growth was maintained
through the fall. This spring the plants on that purtion took a more decided start
ahead of the rest of the field, the line of separation
distance.
mulching.
For a general mulch there is nothing For a general mulch there is nog pul-
equal to the soil itselfi. A thoroughe verization of the surface is the same as a
coat of sawdust, cut straw, or any similar coat of sawdust, cut straw, or
fine application. There is some tertility, fiue application.
it is true, in these latter; but then there
is some enrichment secured also by workis some enrichment secured also by work-
ing the soil, the labor in the two being about equal, though the latter can be in-
creased; but thein its benefit from increased; but then its benefit from in-
creased fertility will balance and more creased fertint than balance this
Our corn fields, therefore, are mulched to advautage by the use of the cultivator.
Whether it would pay when this ceases to Whether it would pay when this ceases It apply a special mulch, is a question.
will with potatoes. The mulch if a thick
one will keep moist, will prevent weeds one, will keep moist, will prevent weeds
and the crusting of the surface, thus giv-
ing accens to air, which it is now under-
stood is a ben the ground coo
The best mul shrubs and you of green grass
ately after th ofely after the
and sprinkled
a and sprinkled
The ashes wil air and protec turn will prot
also, will add for several ye results. in defiance of ply it to grape there needs eq
have itself or have itself or good atterm. the do willi be
there
nished by th lost, but goes the roots, thi
self, being an seif, being an
where the gr
Straw is a
In some parts In some part boughs, the
many, that smothering, The roots of
trees should trees shour a
down by a lit
frost both in wiuter
leaves will leaves will a
of the right
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June 17, Mi and very su
some facts some facts."
tree Hall." tree Hall."
128 acres an
$($ in 1841$) ~$
per acre.
paid $£ 150$
land $\begin{aligned} & \text { lisks } \\ & \text { buildings }\end{aligned}$
the land wa
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wheat; in



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## Freder riculture experienc <br> the conc the whea

stood is a benefit. Besides, it will keep
the ground cool-what the potato wants. the ground cool-what the potato wants.
The best mulch for this, as well as tor shrubs and young trees of all kinds, is one of green grass or weeds, applied immedi-
ately after the last stirring of the soil, ately after the last stirring of the soil
and sprinkled well with leached ashes.and sprinkled well with leached ashes.-
The ashes will draw moisture from the air and protect the green coat, whick in
turn will protect the soil below. This, turn will protect the soil below. This,
also, will add fertility. We have used it also,
for several years with the most gratifying
results. The severest drouth has but lit tle effect; there is a fine growth, seeming in defiance of the weather. We also ap ply it to grapes, and with benefit. there needs equal protection. Grass must have itself or the snow to protect
good aftermath or well drained soil is sur to do this. It will lessen the leaving ; an there will be considerable fertility, fur - nished by the plant itself, which is not
lost, but goes at once to form pabulum for lost, but goes at once to form pabuium for
the roots, the plant thus reproducing self, being an addiition to the usual growt where the ground is fed close
Straw is a good mulch for winter wheat
In some parts it is a rule to apply it. In some parts it is a rule to apply it. You
protect the strawberry by evergreen
the many, that can lee applied. It prevents
smothering, and it keeps off the coll.The roots of grape vines, shrubs and smald down by a little soil. It will lessen the
frast bnth in intensity and in depth. The wiuter of 1871-2 was a test. Besides, the leaves will add manure in the spring, an
of the right kind.-W. Farmer.
tiptree hall, mr. mechi's farm.
In the English agricultural papers for
June 17, Mr. J. J. Mechi, the well-known and very successtul English farmer, gives
some facts coicerning lis farm of "Tipsome facts concerning lis farm of "Tip-
tree Hall." The or!inal farm embraced
128 acres and fraction, and cost Mr. Mechi ter acres and fraction, and cost Mr. Mechi
(in 1841 ) $£ 3,150$, or about $£ 24$ (say $\$ 120)$ per acre. The tenant then in possession
pard $\neq 150$ rent per annum. The farm
puildiugs were ancient and unhealthy; pald $\neq 150$ rent ancient and unhealthy,
othe land wase undrained; the fiells and open ditches numerous and irresular in
shape, and on part of the premises was a
"bog, unsafe for man or beast." Mr. M. shape, and on part of the premises wast
"bog, unsaif for man or beast." M. M.
removed three and a half miles of fences, and enclosed sixty acres in one lot and
forty-two in another, "without a tree," forty-two in another, without a tree,
but with some two acres of sirubery ro-
vileci for the birds. "The light land was swampy, and the heavy, on a wet day, as
loving as bird lime, byt as slippery as lutter." Some of the wheat crops in 1842
yielded about one and a half to two quar-
ters per acre. "Now the land is dry and yiecued about one Now the land is dry and
ters per acr.
workable, the bog especially so, "the drain disclarging from 40 to to gallons of pure
water per minute in summer, and more in water
wiuter. It wast a iever idistrict-that is
all changed. Some of the land produce nothing hut furze, hroom and ferns, but in
1568 on some of this land, eight guarters 1868 , on some of this land, eight quator
(64 bushels) of white wheat were grown per acre, and with the straw realized $£ 28$
or $\ell+$ move prer are than the land oripin

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den there is nothing
elf. A thorough pul-
urface is the same Itace aw, same as
it straw or any simila
and latter; but then ther secured also by work
abor in the two bein $h$ the latter can be in
1 its benefit from in therefore, are mulched e use of the cultivato lch, is a question. I
The mulch, if a thich
lat ist, will prevent weed
f the surface, thus giv

## Frederick Watts, Commissioner of Ag riculture, in a recent lotter, says :- The

 the conclusion that the deterioration ondthe wheat crop is mainly attributable

## the yard sod The

 yard manure. In our practicte the clover corsod is turned down and planted with corn. The ground is again plowed in the spring and sowed with oats, and upon the stubble
of this crop all the manure of the barnof this crop all the manure of the barn-
yard put, and then plowed again and
sowed with wheat then subjected to the rawness and grossness of barnyard manure, with all its
germs of flies, worms, lice and bugs-seem ingly a sufficieut cause of the unsuccessful growth of a grain so pure and delicate as Wheat. Corn is the hog of plants, an upon it. Here then, upon the sod to be yard manure. Bury it deep, and when th orn is cut off break the stubble even with
the ground during the winter. In th the ground during the winter. Yn the
spring harrow your ground well, sow your
oats upon it and roll it. You will thu eep your manure where you put it, an down by it. When the crop is removed pring your manure to the surface by deep
ploughing and thorough tillage. The barn yard manure having thus received proper
preparation is a fit food for the whea plant. Experience has tanght me this
lesson. On my farm in Peunsylvania I ever fail to raise a satisfactory crop o
wheat, and I have known notsuch thing midge, Hessian fly or army worm."
weed seeds.
The seeds of cockle, chess, and other
weeds that are mixed with the screenings rom the fanning mill, should be carefull
prevented from getting mixed with the manure in the hari-yard. We once per mitted a neighbo: to run a few bags of grain through our the barn for that purpose sence, he-doubtless with good intentions -scattered the screenings all over the
barn- yard, so that the fowls might get the
wasto waste grain. Thi , prolably was intended mill. Alas! we never regretted more
than on this occasion the doing of a favor
that resulted hadly fir nurselves that resuted bady fir ourselves. Our cockle and chess, and probably ten years
of labor will be inthicteil on us before these which that manure was spread. We mention this circumstance as a warning to others, and also as a forcible reminder
all that weed seeds should be consumed with tire and utterly destroyed. Don't
feed them to poultry; they won't eat coclle, and the seeds seemed to last for
ever; by hook or crook they will get into the fiflds somehow. Put them in the
stove and you will liave seen the last of
them.

## matese in fapming.

Much
the best
he best of thas of faccess we observe results from can succeed upon the farm innst he an intelli gent investigator. He should at least understind thrnn chemistry, that he may de
ternine tho claracter of his soils, and how


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 ciples of cheinistry, and in natural philosophy slinntid he well versed. In fact,
the successful farmer must be a scholar the successful. farmer must be a schola
and a teacher. It is not enough that he
know, mechanically how to plow, sow knows, mechanically, how to phow, sow
and reap. He should understand when to
do it, and the celations of the elements tion of crops should be a part of his far linowledge; subsoiling, the application or
manures, and their effect upon each par
mat stood. Any man can be a botch upon the farma if he wills it; but to have success in farming, there is much to learn. To bo
research and experiment necessary than to
fit a man to be a physician, merchant or lawyer.-Rural World.
results of deep plowing In the fall of $1869, \mathrm{Mr}$. D. plowed 37 acres from twelve to fourteen inches deep, using six horses for the work. The ground as sown in september, and the young next season was very dry, so much so that regetation generally suffered severely, but this piece of wheat did not show any
marked effects. It was remarkably free rom weeds, and very even in growth. When it came to be threshed the yield as twenty bushes per acre, while adjoin yielded less than half as much
The next experiment was with the same piece of land and forty acres more adjoin-
ing it; the land was plowed with eight horses, four abreast, and -thre average before. The growth was very fine and niform, and the yield of the whole piece
( 77 acres) a little over thirty bushels per acre.
In sowing the new piece of forty acres experiment as to the most profitable made. The quantities tested were half a bushel, one bushel, one and a half, and two bushels. The last two amounts gave the least satisfaction, while as regards the eye which was best, and no test by measuring the actual yield appears to have
been made-Kansas Farmer.
plowing twice for wheat A correspondent of the Cincinnati Grazette writes:--I any one wil break
ground
deeply and thoroughly two or three times during the spring and summer
the extra amount of wheat per acre nili pay for plowing, and leave a handsome several times, with the most satislactory
results. In 1869 I had a field of 16 acres of like fertility. I expected to plant half
the field in corn, but for some reason I did not. In the half that hat been plowed for corn after the ground had heen broken,
the weeds grew more rapidly. puently I broke it again the 20th of June. On the first of September following I plow-
ed the entire field and sowed in wheat. The result was as follows:--The half which
had only received a siugle plowing yielled per acre 13 bushels and eighteen pounds; the half that received three breakings yielded pcr aure 23 bushels and 40 pounds
which made a difference of more than 10 hushels per acre At \$1 per bushel this would pay for the extra plowing and leave a net profit of $\$ 6$ per acre beside.
sources of ferticity in farms. The sources of fertility to farms are the fied hy the farm stock, and preserved and judiciously applied hy the husbandman There is not a vegetahle matter grow useless or olnoxious, but will, after it ha served ordinary useful purposes, impar
iertility to the soil, and contribute to the yrowth of a new generation of plants, if There is not an animal substance, be it soil, liquid or gaseous-be it bone, horn
urine, hair, wonl or ffekh, or the yase urine, hair, won or flefh, or the gass
which are generated by the decompisition of these matters-but, with like care and
like skill, nay be converted into new vege table, and afterwards into new anima
natters. To cconomize and apply al nattere fertilizing materials, is the province and the duty of the husbandman.

## Agricultural Items.

The Michiyun Furner estimates the averaye wheat crop of
at 10 bublels per acre.
at 10 burhels per acre
U S Acher acre. monthly Apper Crope-According of the the

Agriculture, we observe that the apple Agriculture, we observe that the
crop promises to be above an average. The Western Farmer says that in Wis consin especially some sections have suf
fered very severely from the drought, but fered very severely from the drought, fair, and prices also promise to be very remunerative.
IllinoIs.-We learn that the army orm has committed great injury to the
at crop in this State. No better meane or guarding our crops from its ravages have been discovered than those given in his month's Farmbrs' Advooate.
A FARMER of the vicinity of Indianapolie few years ago sold his farm for $\$ 4,000$
nd went West to grow up with the country. Recently he was in that city
seeking employment at 860 a month, seeking employment at 860 a month
while the ground that used to be his farm
lars.

Subsoiling.-C. W. Homk, Balis Oo. Mo., writes that he has tried running a absoil plough in the rows where corn or
potatoes were to be planted, and gained an otatoes were to be planted, and gained an the general testimony in regard to subsoing, which loosens the deeper soil, without burying
Early Spring Wheat.-One of the pioneers of agriculture in Lower Canada spring wheat, sowing in the month of
March about 30 acres. I had the second year of my clearing one hundred acres of year of my clearing one hundred acres of
the best wheat I ever saw." The yield
was over 3000 bushels. From one measure
wheat.
Subsoliling.-A. D. C., in Moords Rural New Yorker, thus speaks of his exer for corn in 1869 (been greensward, we used two teams, that being a very dry season), and planted where we subsoiled, the leaves did not roll in the dry weather,
but where the subsoiler was not used, but where the subsoiler was not used,
they rolled badly, showing that subsoiling
is a remedy for drougth Рот
Potato Starch.-We were informed, daring a recent visit to the White Mouncrop, for the manufacture of starch, wam the most remunerative of all farm proNew Hampshire paper gtaten that there are over sixty factories of potato starch in that State, nearly all in the most norther
counties. Over 3000 tons were made la counties. Will the potato bugs interfere with this business, and when l-Country Gen theman. The English Harvest, - A letter apTimes. on the 28 th ult. In it he deliver he following opinion of the crops :-Four teen days of bright and dry weather have armitted the free use of harvest is nearl ompleted in this veighborhood, and hreshing machines have been set at work These results prove unmistakeably (grain), nd in fact that the wheat crop here bouts is, in too many instances, a decided ailure (belying their appearance), both in huantity and quality, more especially on
atift tile earths, and undrained soils. In many casen, the crops have been ruined by ce, storms and weeds. The amounts of the fine white wheat called rough chaf,
which in dry seasons are produced so abundantly and extensively on soils of the Dengie Hundred, are ruite deseason better than white. Rivetts aro very good and perfect, the season having suited their growth and development.
This will be a bad season for heavy-hand arab e farmers, for labor and expenses are heavy.
of it. of it.
A oorresponderst of the Wroodstock
Reviow says of Lower Oanadian farming :

## $\square$

## HARNTERS ADVOCATA.



Cimtrepurience.
gmporlum seeds.
Sir,-The time has come round again when Gdul wheat requires ta be sought after and obme torsefera to what you sent me of the Deih! two years ago now . The crop I found to be
about two-thirds of any other kinds; badly mixed, and the seed I concluded to be be the
same, it being sowed just as I received it. Weeks winter wheat was good. I was
pleased with the peck you sent. I got plour bushets-this was quite clean. With the
spring grain sent I Wa also satisfied, the quang grain of eant being was also very smath. I I think an enumeration would be too tedious.
My McCarlinew.wheat looked well this season, is not yet thrashes.
Moore, Collinville P.O., Sept. 4, 1872. wheat supplied to Mr. Mlexander was not as pure as we expected. We do all in our power to provide the very best seed of chese kinds; but sometimes with less sucand supplyizo of them pure and good was the great object we had in view in opening the Agricultural Emporium. We did expeot that the Gavemment would aid us taking, but in these expectations we have thus far been disappoiuted, notwithstanding all their professions. of a desire to pro-
note the interests off Agriculture. They are $u$ 片 slack at election times in courting the favour of the farmers. For years we
thave spared neither time nor money in yeeting the dopand for seeds on which farmers could vely. We have spent thouands of dollars an $\beta$ o doing-we have value and purity of crops when growing, and afterwand when preparing forr our Emporium. Butsome farmers will not take it is so diflicult to keep grain from being mixed when othar grain is grown on the same farm and sometimes in the sance field, from hybfidizing, or, aften it has been har-
vested, gettingmixed, from being thrashcisted, getting mixe the same floor.]

THB APIARY.
Sir,-There is a certain man, representing
him self as apMr. Atwood, in this neighborhood as the present time, who says he lives in the
city of London, Ont. Suid Atwood is selling
 a
in
in a d
 new methney. He a'so says, that since this ben found out in LLondno, tyor windster haf
inhabitants of the city keep bees, as it is a profitable business. From the lst to the
loth of sept. the bees are driven or trans10th of Sept. the beess are driven or trans-
ferred from their hive, in which the honey was,
and put int a amother box or hive to subsist ieured from their hive, in which
and put :inta amother box or hive
over winter as above-plentioned.
over winter as above-nientioned.
Now may know whet her she above facts are so or not, and please end mee.a private letter, stating what
you know about it, and also write an article
$\underset{\substack{\text { in you } \\ \text { anta } \\ \text { reader }}}{ }$
readers nayy be benefitted that if it be so your
Yours, \&c., DANIEL WIERs.
.
beware of swindlers
W Wiers
equally
hands.
and
To sa
.TO say that the fellow referred to is a bare face. swindler, would be using mild language;
and $I$ am sorry that, notwithstanding the adVances that have been made in bee culture,
and the large amount of information that has been so freely given of late, through the press
ant ntherwise, by those who have given the ant otherwise, by those who have given the
sciencee some study notwithstanding all
this, I say, it is a pity that there are still persons sa, devoid of comman sensere and whese
perill
bump of gullibil ity is so large as to bump of gullibility is so large as to allaw sue
fellows to draw their eye-teeth; but, after all,
it about serves them right, for I will under take to say that they do not take the FAr-
MERB' ADVocate, as they would have known ments, and that they never went to any sho
better,
larger then "" larger than a "peep show" in their lives.
II I were wanting to impose on the publi
that is the wery last thing wiul tre the very absurdity of the thing ought to condemn it. A stock of bees must have food
every day the year around. I know of no con-
dition that they can be placed in to dition that they can be placed in to make
them live without food for three successive days at any time; the amount that they re-
quire depends upon the temperature of the quire depends upon the temperature of the
piace in which they are wintered. At 33 de
grees above zero they will consume about one grees above zero they will consume about one
ounce daily. They must have all they, re goes into a cold, dormant.state until they die A thermometer thrust into the centre of
stock of bees in winter will at all time shen stock of bees in winter will at all times sho
a summer temperature, no matter how cold is outside. Just think for a moment is it a all likely that Langstroth, Quinby, Gallup could mention, who number their stocks by the hundred-is it at all likely, 1 say, that those men woud allow their stocks to consume they could get them to sit in an empty box and suck their paws from fall till spring? The only redeeming streak in that fellow the same good to meand other bee-keepers, who have bees for sale, that the quack doctor
does to the tombstone cutter, for he will does to the tombstone cutter, for he will
surely create a demand for bees wherever he ${ }^{\text {goes. }}$ But all jokes aside to the point at is isute, and lay vome to my, knowledge of villains in different purpose of province using my name for the receipt for wintering and taming bees. Now,
I wish it to be undertod many in to be understood that I have as to answer for as I can well get along with mithout being resp onsible for the vi lainies of proper tu call himself Attwood, the big bee nan from London. If I Lave gained any
little popu'arity in beedom, I wish, like the darkie, t enjoy it myself. All receipts for
taming bees, or feeding them on artificial bee bread, are humbugs, and the venders are impostors, and all who patronize them are either
50 years behind the times or green 50 years behind the times or green.
I ask it as a favor of bee-keepers I ask it as a fwor of bee-keepers, that the
next time any fellow tries to humbuy then in By name, with a s. 5 recipe they will give
him the sam ) hint to go that the old gan him the sam , hint to go that the old man
gave Zeb one night when he went spark. gave Zeb Gie night when he went spark.
ng--as he went out of the dour the old
man threw his boot after him (with liis Instead. of two-thirds of the inhabitants of
London keeping bees, I doubt if 30 stocks
could be,fornd within the city limits all told.
As I , am, Secretary of the Ontario BeeAs I ann, Secretary of the Ontario Bee--
Keepers Association, I will take thrs oppor-
tunity of inviting all who can to attend tunity of inviting a al who can to attend our
meetings, either in London or at Haunilton meetings, either in London or at Hamilton,
doving the time of the Fairs. I will post a notico of the meetings to any person who may
byllpost-card ask for it, and Ishall be happy bylpost-card ask for it, and shall be happy that my y be required bv letter or otherwise.
And I bope that the friends at Beamsville And I bope that the friends at Beamsville
mayy yet live to have a more favorable acquainmayy yet live to have a more favorable act
tance with the name of $\quad$ Yours, \&c., Vanneck P.O. $\qquad$ A. C. Attwoo

> SALT AND CAXADA THistles. R-A ny experience might be Sur-As miy experience might be of some
value to my brother farmers, I propose to relate some of the experimentst iI have tried,
and the observations I have made. It is asand the observations $I$ have made. It is as-
tonishing how little value we place upon intonishing how little value we place upon in-
formation, the giving of which has, perhaps, cost the experimenter the
months or years of lakor.
months or years of lavor.
I notice in your paper receipts, advice and
reports of experinents, many of which experireports of experiments, many of thich experiments I would have tried myself, and wasted money upon, if. I had not seen repo ts of them
there. I therefore value your paper so highly, there. I therefore value your paperso be years
that I consider our farnuer would ber
behindhand in their knowledge of their own bebindhand in their knowledge of their own
business if they did not have it. Many and business if they did not have it. Many and
many a time lave ny neighbors come to me many a time have shall I do for this, or how
to inguire what
to cure that, and all I had to do was to turr to cure that, and all I had to do was to turn
to my ADocate, and there was the report of
what was suceessful in a similar case, and what was successful in a similar case, and
what failed, and then I told my neighbors what to do. You have no idea what a reputa-
tion I have attained for universal koowledge, and all just by knowing what others were
and
doing, by reading in the F ABMERS' ADvoc 1 re doing, by reading in the Faraers' Advoc.ate.
Otten have I heard my neighbors sav, I would
give $\$ 5$ if I kuew how to do so and so, and Fiten have heard my neighoors san, so, if Ind
givew to do so and so, and
I could have told him that one dollar a year for the Apvocate would have tuught him
that, and much more. They talk about Agri.
tultural Colleges being of so much benefit. that, and much more. They talk about Aeri-
tultural Colleges beng of so much benefit.
and our government is willing to spend large amounts of money on them; ; but I tell youl
what it is. Mr. Editor, one gcod Agricultura paper is worth ten dozen Agricultural Co'leges
conducted on the best principles. I can give reasons for my statement; the artic'es in the
paper are reports of actual experiments made baper are repormers; if chey are false in any
bay, so many other farmers read them that they are sure to be set right. But in the the theory that he learne l thirty years ago,
and the student does not dispute, even if he and the student does not dispute, even upon
knows it to be wrong; and then, look upo
the matter in another light; the College the matter in another light; the Conege
teaches its ten, and you teach ten thousand. Can any man of sense e mpare the two ?
Now, to clange the subject, 1 want to tell you Nome experimetst I tave made with salt. It
has become so plentiful and cheap since we has become so plentiful and cheap, since we
have found it in Canada, that we can use it
for for ma' y new purposes to great advantaze.
I use it on all my grain crops. Sow it on the ground about a week hef,re soxing your seed,
and it will kill off any weeds which are in leaf because where it is on top of the glound and
exposed to sun and air, it kills off vegetable life. When you sow your grain, your salt
covered up in the earth by the har rowing you give the grain, and I guarantee that you wil
find the improver find the improvement in your crop so great,
that you will never again do witlout it. Salt iv especially good in this way-if you are seeding down, as on both timothy and clover, it
good effects are wonderful, and weeds have great antipathy fir it. I have leng used salt Ior killing off grass and weeds on my garden
walks, which it does effectually. The quantity used for this purpose is necessarily much
areater than for $\mu$ rain 1aising. Still, notwithstanding the quantity on the walks, if they
are once turned up and the salt put under the ground, every
antly once more. Now, I want some me else to try an ex
periment. I have no Canada thistles on my thistle patch heavily with salt, so heavily a the kill off everything in it (for it does kill
thistles). Leave this salt on for a year and thistles. Leave this salt on for a year and
half, and then plough up. I feel satisfied than, not only would your thistlees be killed,
that your land would be so rich, that its extre quality would more than repay the extra
trouble. I have a great many other things to speak of, but will wait for another number your magazine.
Aug. 20th, 18
[The above was unavoidably crowded out of
our last issue. $=$ ED. $^{\text {I }}$
crops in west misbourt Sin-AA you are always uring your rural
subserbers



 and barley are rather slight compared with
last season, spring wheat, on the other hand, last season; spring wheat, on the other hand,
especially with those who sawed early on pro-
perly piopared lay will bo an abid perly prepared land, will be an abundant crop
of geod quality. The fall wheat in this of geod quality. The fall wheat in this
neighborhood, with few exceptions, was badly neighborhond, with few exceptions, was badly
winter-killed-yie.d and quality both rather
poor- Roots of all kinds are looking well pocr. Roots of all kinds are lonking well ;
potatoes, even in spite of the persistent atpotatoes, even in spite of the persis
tacks of the bugs, will be a fair crop. A few weeks before the commencement of
harvest we had two severe storms of wind
and rain fro the nor'-west which lodged al the heavy spring crops and made the prospec of harvesting anything but agreeable. We
were fortunate, however in having purchased were fortunate, however, in having purchase
a reaping machine, which did its work in very superior and satisfactory manner, even
taking very badly--lodg d drain up clean. Nottaking very badly-lodg d drain up clean. Not-
withstanding the superiority of these harvesters over the old hand-rakes, one can ven-
ture to predict without the spirit of prophesy that the day is not distant when really efti-
cient self-binders will be the ovder of the day Besides greatly increasing the valuo of land
Bent would enable the hard-working
they they would enable the hard-working faime
to dispense with unreasonable demnds to dispense with unreasonable dem. nds now
made by hired labor. West Nissouri, Sep. 9th, 1472.
Sir,-The fllower seeds the
Sir,--The flower seeds that I purchased drought destroyed most of the young plante.
However, I have some beautiful Balsams and Cinnias, I would like you to come and see. The vegetables have althenetmeg melons are
ing the dry season. The nut
the finest and best I have ever grown. The thousand headed cabbage is the only sirt t hat
has not done will; the growth is enormous, but has not done will; the growth is enormous, but
it will never be fit for table use. Come and
see it and judge for yourself. I can show you some good seed

Gardener to Bishop Hellmuth.

## London, Septa 25, 1872.

CWe are reluctantly obliged to defer several
valuable communications until our next issue. -ED.]
atiscellancous.
Conidered in all its reatations the thaction

 ane

 and















## simame wan the crops and other great heat and dry ight compared wi a sowed early on pro- be an abundant cro e fall wheat in thi exceptions, was badl nds are looking well e a fair crop. he commence vest, which lodged al h did its work in igrain up clean. Not riority of these har  the order of the day sing the valuo of lan hard-working faine sonable dem. nds 10

 9 th, 1472. ed that ted, but the extreme beautiful Balsams and come on well considerane nutneg melons areave ever grown. The
pe is the only sirt that rable use. Come and
relf. I can show you James Bolt,
er to Bishop Hellmuth. bliged to defer several
is until our next issue.

## ancous.

relations, the function
or of wonders. Because
chest, it excites neither
co
or even thought.
er respiratory apparatus, mon




 An than and ind in and
 tutes marar tet, tix
 matis Th wood, while the other
keeping the atmosthere ould reigiv triumphantly,
os contain a lar'ge amount about by the wind, iit
what the

 mpoin thisis country y yarll:
After the tanini in disesuyed in the leaf cell,



 decompose and become food for living piants.
Thus, in contempla ing the mechanist and
in the object of respiration, we have incontestabl evidence of the positive existence of a power
superior to ourselves, whose creations and whose
laws declare that power to be a sovereign God.
prbsanve tur $A$ matter of freati importance to the fanmer
 vernuery section, and it is impportant to every





















(Orthari and diforest.
how to arrest the ravages of the
Believing, as I do, that this subject is of
aast inportance to the country, and that you will agree with me in so believing. I take the
liberty to address you this letter. The canker or measuring worm, which made ts appearance in this part of the country but a few years mace, has been spreading rapidiy, and now
may been in almost every township in the
Yorthwest, some orchards at this tiwe bein Northwest, some orchards at this time being
eni iely tripped of foliage by them, and unless an effiot is made to exterminate, thew, in
a fow years more there will not be an orchard
left "" to the a eft "to tell the tale." The fenale canker
lefter mond
worm rises out of the ground in the spriog as soon as the frost is out, and crawls up the
trunk of the tree (as she is wingless), and deposits her egrss nnder old bark or in rough
places, which hatch in May into small looping caterpillers, or so called measuring worms Tich in a short time deatedropuring the foliage. ip the tree is the pont to be gained. Leaden 'il troughs used about the trunks of trees
hive been tried with sone success, but the
oil running over is apt toinjure the tree the ohl running over is apt to injure the tree. The
plan, however, that has proved a perfect suc cess, is by the use of coal tar. I saw a man
at work last spring in the State of New York a pplying it to the trunk of the tree, forming
a ring six to ten iuches wide around it, which ring se infornued me he repeated every day and should continue to repeat as loug as there
was a necossity. That he was successful in keeping the worms down, was denonstrated by the fact that not one had got above the
ring of coal tar, and that there were many treess, Iving motionles.s. II he had discovered
that unlss he pat on the coal tar every day, it would dry and the worms would crawl ove
dry-uhod. Mr. Smith, an extensive orchardis
of Des Moines. Iowa, has discoverel an im provement on this plan, wherehy two or thre peasications of the coal ar will is ans foliows :- Raise a a slight
sean
mound of earth around the trunk of the tree wrap brown paper about eight or ten inche Wide around the tree, making it fast to the
tree with twine or wire close to the mound ; hrn the paper down so as to spread it over
the mound, the. apply coal tar to the paper. the paper, and this prevent the tar from
drving, and not a moth can get to the tree. drving, and not a moth can get to the tree.
After the worns have fairly commenced at
he foliage of the tree comparatively little can be done to arrest their ravakes. It has
been cl imed, however, that by throwing new Slacked lime on the trees when the dew is on,
very many will be destroyed; and a farmer living in Wimnebaç county in this State.
says he trained his hens to follow him into his orchard and when lie slookk the trees and the
worns came down on their silken threads, the hens feasted upon then, and that, while his
large flock of hens grew fat, the worms were large flock of hens grew iat, the worms were
very materially checked din their operations.-
No per: on owning an orchard in the vicinity of wherero these worms are working this season, spring, and by one united effort this pest of She orchard (overshadowing in importance all
otler enemies of the orchard conbined) can other enemies of the orchard conbined can
be exterminated.-EE. $F$. Cultis, in 'hicayo
 lion of tress far below the surface into the
sibscit, and filling uo the same with lam and
 forwer pots. whit water ine thenal facilities for
daranage. The stay.
nant, and unfit for numishing the tree. Acain as sion as the lower routs liave extended bee
yond the "filine in," and int, the side-walls. which they will do hy the second or thiri year
the chanke in the soil is so sudden and mark
as oftentimes to riously. The surface suil frrir such planting
when shallow, when shallow, may be made a little doe, e
tlan it naturally exists, and the sthosoil may b
loosened to a crnsiderable depth and breadt It may be shovelled out and throxn in again,
with a very litte loant nixal with it. The
will with a very little loanl mixp with it. . wit
walls of the opening stionidn t be made wit
a clean, smooth cut, as in sink ang a well. Let them be jagged and irregular, so that the roots,
as they grow out into them. hay not he sub-
jected to any very sudden change in the soil. [The soil would be better if prepare
one or two years before planting by tho
rough, good, deep poughing or digsing rough, good, deep ploughing or digging
and eariching.-As.'T ED.] ash for trees.
C. C. Cooley gives the Country Gentleman
what he calls "the best wasl for trees to be can be had at retail at fiom three to six cents er pound; place it in a skillet on the fire
it will srion go to what seems to be water will sion ko to what seems to be water,
evaporate, and leave a white powder. Keep
it on the fire till it becomes a light brown When it in done. Use a quarter of a poumd, are very dirty, wise half a pound to the
allon of water. Wasin the trunk and large mbs, nsing a sponge or co winter. This wash will not injure the foliage the tenderest plant. In a few weeks after
sing the trees will look as clean and sleek hough they had been varnished, and the trees will astonish you by their growth and healthy pearance. salt in vurseries.

Willard. of the well-known nursery firm Geneva, New found very great advantage from the | application of salt to their nursery grounds, |
| :--- |
| as well as to farm crops. Twenty bushels to | the acre is their usual quantity, and they use bout 700 bushels per annuni. Their facility State, gives them a chance for a full supply it low rates-about 25 cents per bushel-at which they consider it a cheap manure,

has also proved with then a very valuable application to pear trees, at the rate of abont four handfuls to each tree, spread about. It seems to give a vigorous and healthy growth,
and they are very 1 arely troubled with blight.

The past remarkalle winter uqght not to
pass into mere history without our learning
pore from it other soiences. the rart incidents are eagerly
looked forward to, as furnishing the beat maTrials for the advancement of know'edge.-
thus eelipses aud the various conjunctions of
he stap ainer; and even terrible eruptions of vol-
canes or earthquakes, with all the evils that
ann
 against these and other dangers. 'Therel is nn
better evidence that horticulture is not the
heien sience it should lve, than its failure to profit
and 1 and



 and

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 and mid mane wiy any amation pranu unust wixa
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 Hifir neet facoording to antatement in rrowent


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 and may be repatataid in ocemarn!

This matect was ilicaused latally by tho On





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Wash fou rauit tuares.
Coles, Af Alams Coid ohio, hin tho
and








The Provincial Exhibition.

The Provincial Exhibition just closed at Hamilton has been well attended by visitors. The Stock department was, on the whole, superior to that of any previous Exhibition held in the Dominion. The many improvements. The season has not heen quite as propitious as in former years for the growth of cereals, roots, fruits and lowers, still the display was creditable.-The interior of the main building, de articles., was not so well filled as we have seen it; perhaps it struck us in this light hecause the additional buildin
been erected, giving more space.
The next Provincial Exhibition is to be held in the city of London. The Boar has decides this autumn previously ppougen of as to have been held near Beileville and
near London. As our paper is ready for near London. As our paper is ready for
the press, we must defer further particulars for future numbers.
agricultural college.
The following little item, which we tract from an agricultural exchange, w not fail to be of interest to some of our
farmers. They are promised from the proposed undertakings by the government of the Province to promote the interests of agriculture. If they are sincere in their professions, and these are the
interests they intend to serve thereby, let interests they intend to serve thereby, let
the patronage and management be different

## Editorial Notices.

Sxwing Machines.--Of all inven

| tions, these really useful and laborsaving machines are of the greatest value to every family. To see a lady working one of these machines and note the neat, rapid and ac- curate manner in which everything is done, almost makes one wonder how clothes ever got made in the days when sewing machines were not. The question with many is what machine to buy for the best, and this is really a difficult question to answer, so many different machines are made, and each one claiming to be the best. In our house, and also in many of our friends, the Lockman machine as being a really simple, useful and good family machine, easy to work and not liable to get out of osder. - See advertisement in an. other part of this paper. <br> [The above, with several other interesting articles, was crowded out of our last issue by press of matter.] <br> "The Standard."-This is the title of a collection of Sacred and Secular Music, just laid before us. The collections of music, from their ever-increasing number, indicate truly the universal feeling that |
| :---: |
|  |  |
|  |  |


number is, indeed. lecrion. An Ang
them, we are of the onion that
"The St.ndard" will hold no secondary nlace, if we hre to jo juge
from the curarov view we have heen from the curarorv view we have hen
ahle the cive to its contents.
collection fo Anthems we numreciate
 circles. Mustcat Times, of Roch.
Tryer. Mu.
ester. $\mathrm{N} . \mathrm{for}$ July is an unnumaly ester. N. Y. for July is an ouncoully
intererting numper. It containg a
very full and granhic account of the vory fir and granhir acconnt of the
Great Boston Jnhilee. written by by
an eve witness, as the estiring scenes






frome:
"A correspondent of the Maine Farmer as. serts that ' of the whole Board of M Manager, one one
possibly may be a farmer, while there are two lawers, ay merchant, a lumberman, and a
United States official. men not in or even practically interested in andried witure,
who have the supervision and manarement that school at "ronno, wherein farmere sons are The tendency of the they know about farming.
whole matter is, as ex Gov. Chamberlain predicicen, thater ithe col ex.ege
would drift out of agriculture into literature,

## Canadian Progress.

As our readers must all feel a deep nd in every section of it, column of our paper to the most interesting items on the subject culled from the various sources at our command :-
CANADINN Fisherizs.-The London (Eng.)
Standard thus speaks of the value of this branch of our national industry:-" Possessing an im and excellent harbors, with the frinest and mose prolific fisheries in the world at their doors, with vast inland territories traversed in all direction
by galnon rivers of inexpressible value, many y salnon reers of inexpressible ealue, many of
Which would take in our largest rivers as mere
rributaries Canad is Whicu would take in our largest rivers as mere
ributaries, Canada is deeply concerned in fish ing interests. Partially developed only as the
are our readers would perhaps be surprised
hear the amount of canital invested in them. hear the amount of capitali invested in them
During the past year the general capture During the past year the general capture ex-
ceeded eight millions of dollars in value, or
hard upon two millions sterling. The amount hard upon two millions sterling. The amount
of capital invested in boats, tackle, \&c., is fif ceen millions of dollars. and the number of fishe
men employed is
R men employed is 87,000 . . . . . The inlan
isheries have been pretty well abused and $m$. fisheries have been rretty well abused and mis
used in every possible way, while, as if to point
being within easy reach of Quebec nr Montreal,
are protected more or less for angling purpeses the onst will he S40.000. Port-offices are being



 missioner of Firheries, who are steadily carrying
out a policy of ammendments bv restocking exout a policy of amendments bv re-stocking ex
hansted rivers thr thugh the aid of a nisculture
the opening up of fams by means of fish pasees the opening up of dams by means of firh paseen,
and the compelling of $a$ proper observance of
suitable fence time., suitable fence time."
Manirciba.-A great many immigrantas have
arrived. via the bondd line (U.S.), but none have vet arcived by the गawsin route. The
Red River. Wetwen Fort Garry nd Pembina,
is and is a grand farming district. Therr is anv amoun
of large nak, white ash and poplar. There ar flarge nak, white ash and poplar. There are
thouands of acte of buhh ; and a mereat many
natural drains or ravines to carry off the wate natural drains or ravines to carry off the water
from the land, and there are plenty of fish and from the and, and there are plenty of fish and
fowl tins thection. Mr M Macalayan has tarted
a lumber vard. and bas ail kinds of dressed lum a lumber vard. and bas all kinds of dressed lum-
her, shingles, donrs, window sash, siding, fence her, shingles donrs, window sash, siding, fence
lumber, mouliding, cornice and flloring, besides
about 400,00 feket of inch and plank lumber.
It is of
 It is of as trod quality as 1 have ever seen.
There were aliso 1.000 poplar loges. the lareast
imaginable : they would nearly average 40 ft.
 nd sells at from 15c. per font, running measur., housands of cords of wond have heen brougl,
own the Red and Asinihine rivers, hutt is
onstly all gold. It sells at Sin per
 of prairie are to he seen hundrexd of
British Columbias --From the papers of Vic dria, anconver Island, we learn of the pro A bridge which is heing constructed over the avarino river is the first of the kind huilt
apon the Pacific coast; it is 160 feet long Tranh is propressing ranidly. The line will crors
Honds cana. with a pan of one mile and three Hond's cana. with a span of one mile and three
nartera, anid to he the largent in the world.-From fire bushels of wheat own hy Mr. Chad-
seve of Smas, on the mainland, enenr the mouth
of the Fraser, one hundred hushels have been serv. nf Sumas, on the minnland. nenr the mouth
مf the Frase. one hundred huhkeps have been
harvested. The heads averaged 70 to 100 kernels of the
harvest
each.

Emigration.-From the Renort of the Minis-
Tr of Agricilture for the Sominion. we learn hat the total number of emizronts that arrived in Capada last Year was 37.020; and that im-
mediate emplovment har been found at high
waves for all accustrmed to work The Repht wages for all accustrmed to work. The Reprrt
thus predicts hopefully of next year. For the thus predicts hopefully of next year. For the
pmigrant of next season the prospect in this
on Drmininn is very encouraging. It is nn exagge
ration to state that an unlimited number of
 servants, will find immediate emplovment at
hivh wares ; whilst the marked development ioh wares; whilst the marked development
of the trade and manufactures of the country warranta the conclusion that mechanics gener.
ally will be in demand.
Trat Acapian Minges.-It is said that Sir
Hurh Allan has nurchased the Aradion mines

 it one of the largest. if not the larcest. estab-
lishments of the kind in the INominim. Tive
crent, nraximity of the mine to the extensive

 such men a. Sir Huch Alian to develon its great reanurcer, and make it the manifacturinn cent
of Canada. - Telegraph, St. John's, N.B.

ROSIE, THE PROPERTY OF N. S. WHITNEY, ESQ., MONTREAL.

Rosie, the Property of N. S. Whitney, Esq., Montreal.

Trie above cut, we presume, represents what most probably is the finest Ayrshire cow on this continent. She carried off
the first prize at the Highland Society's the first prize at the Highland Society's
Exhibition, at Perth, Scotland, in 1871 ; Hxhibition, at Perth, Scotland, in 1871 ;
she also took four first prizes the same year at the principal Ayrshire stock exhiyear at in this country, she was then four
bitions
years old. She calved on the voyage to years old. She calved on the voyage to
this country, producing a very fine bull calf, one that is notueasily excelled in any
country. Her calf is now one year old and any one wishing to procure the best to be had should by all means see this fine animal before purchasing.
During the past summer we paid a visit
to Mr. Whitney's stock farm ; it is situated it Frelighsburg, about fifty miles from Montreal, in the Eastern townships. His
tarm is most beautifully situated, being on
the hills near the mountains of the State from the city to the different watering ing to sce the distinct markings from the of Vermont. The scenery is most charm- places in Canada aid the States during great grand dams to the calves, and each
ing ; a view of forty miles distant is ob- the heated term, he removes to his Can- generation standing side by side. Mr.
 ides can be seen the mountains and val- oughly enjoy himiself among liis crons and leys beautifully interspersed. His farm, though at an altitude of perhaps two or three hundred feet, had even a swamp in good and abundant, the soil is of good uality, but a few large rocks are to be sen here and there, which, however, are
f no great detriment. We were surprised of no great detriment. We were surprised
o find in this section of the country such ne farms, and the more so to see the cla
rape growing luxuriantly, and corn suc
eeding so well. From what we have seen ceeding so well. From what we have seen
and heard, we find that vegetation is earlier here than with us in London.
On our visit to this farm, we were for-

## Stock and 頨arro.



In a little pamphlet on "Turnips," recently
published by David Landreth \& Son, Philapublished by David Landreth \& Son, Phila-
delphia, the above subject is discussed as fol
"The value of succulent focd. in hygienic or sanatory view, to man, and also
che animals wwich minister to his wants, nee not be cummented on. All who have paid to its advantage, inded absolute ne cessity,
if the preservation of health be properiys studied.
arrest vegetation, and oblige us to provide
green food to be stored up in anticipation o the severer season, has necessarily induce
inquiry and exanination as to the class o vegetables which can be produced in greates abundance, at least cost, with least exertion, titions, and also as of primmary importance,
with a capacity for preservatinn for month with a capacity for preservatinn for month
with slight danger of decay. These qualities appear to be united in a remarkatle degree in
the turnip-hence its very general culture and, as naturaliy follows, the importance of
selecting the varieties which experience has
pointed out as better adapted to geographical pointed out as better adapted to geographical
divisions, and special puppses.
In Grea britain the cuiture of bulbs, more especial which we here include the rut baga, or Swede, though not so cassed in Eng aind it has beeu estimated by writers on poliproduct was much below the present, that its annual value was equivalent to the sum
represented by the interest on the nati nal
debt-no inconsiderable amount, as everybody knows. Until the culture of roots, as they ai termed, was extended and enlareed in Eng
and, animal food was a luxury seldom with the reach of the operative ciass $s$, with whin
vegetables and farinaceons compouids, no regetables and farinaceous compoulds, no
a ways of the best quality, were the reliable
tesources, fur sustenance. Now, meat sin som blape are within reach of all-the poor factory veallhy landowner, alike participate; and this change has grown ont of - not national pros-
peity or increased wages, though buth are perity (r. uncreased wages, though both art
indirectly aflected, but-the greater bradt
f land in root culture, which has so largely immencely, it may be said, augmented the
productive capacty of the acreage under plow thus $p$ actica ly bringing food to every work
ingman's dnour. Indian conn-with us the great meat producer, which has played so important a part in the civiizatinin our comuntry, enablint the wardy emigyant fiom the older sett ement overcome the forest-is not a product if Grea
Britian or any portion of the north of Europe
there only Leing known as an import frum ou country. In this particular, we have an ad
vant impossibie to estimate; but, great a vant the impossibie to estimate, but,
it is , it should not lessen our extrion to pro
duce suculuert food, which augnents the value of the farinaceois. For many years we
in our various publications, especially in our various publications, , sspecially "Tie
Rural Regiter and Almanac." given expressio to our conception of the value of roots as stock
food. Our own working stock, at present Alderueys kept for the family dary, we ain as regularly to supply with food of that char
acter, whether it be turnips, mangolds, car rots, or beets, as with hay; and we shoul
consid it must unfortunate if untowa events should deprive us of the ability thus contr, ibite to the health and vigour or our
wor, ing force, cr the secretion of rich milk,
and coirespondingly rich butter, as high co:and coirespondingly rich butter, as high con
ored in winter as that from grass, and almost as well flavored. heat turnips, singly, and
alone, will secure health, and strenth, and
rich milk, we are far from maintairing; but we do contend, that, in proper propprition, in
suitable condition, at proper times, mixed with suitable con shirn, oil cake, or other faninaceons
corn meal, shur
food, they will produce invaluable resilts. To feed roots of any kind in cold stables, or, what
naxy sometines be seen, in the open aur in in
inclement weather--the roots, perhaps, par inclement weather--exe roots, perhaps, pat agues, to say the least, want of reflection;
and where we find people say, as we sonetines and there "can see no goud in roots," we are
do, the
sure to find, on inquiry, that some of the obduare in feeding lad been neglected or disre-
garded."
making butter. It is the scrupulous neatness in washing
miik-pails and pans, in the management of the crean, in churnino and packing butter
that st cures an article that will pass for pime that stcures an article that wiil pass for prime
gilt-edged, which almays commands a remune-
rative price I wish to rative price. I wish to impress on those butter
producers who always complain of low prices, producers who always complain of low prices,
the eminent importane of observing only a
few thines which will enable them to make an fev things which will enable them to make an
article wlich may be forwarded to any of our article which may be forwarded to any of our
fastionabie hotels, where every pound will casinmand the highest price.- 1 . See that every
conik-pail, pan, churn and butter-bowl is cean
mill milk-pail, pan, churn and butter-bowl is cieans
ed with briling hot water every time it is usd. -2. See that the utders of the cow and the
hands of the mikers are as clean as pure water will make them, before an atom of milk is
drawn.-3. Provide a neat and clean place for the pans while the creant is rising, where the
pure breeze from the green fieids may blow into one window over the cream and out at an
opposite opening. Good butter can never be
made in a fitthy apartment, where ther made in a fiithy. Goodtmentt, where there is
offensive effluvia arising from anything offensive effluvia arising from anything,
matter what.-4. Cream ought to be churned every day ; yet, if one can provide a c'ean
corner in a cellar or milk-room clean and cool and keep the pail on a clean piece of flagstone, per wet $k$, providing the temperature of the
cream is naintained frem day to day about 60 degrees of Fahrenheit.-5. Always skit
the milk soon after the cream has risel.Thousands of barrets of creanu are mined for making gilt-edped butter, by not skimning
the milk som after all the cream has risen. The sooner the cream is removed after it has which should be skimmed at evening is fie-
quenty left till the morning when the cream Hien be injured to such an extent that gilt-
will edged butter cannot be made from it at at
nether will it make as many pounds as if it
lad been skimned at the proper ime. -6 . Let had been skimned at the proper rime.-6. Led
the clurning be done by a persun uhioss handis
and clothes are as clean and sweet as a blossom and ciothes are $a$ clean and sweet as a blossom-
of red clover; and let the chunning be con-
tinued until tie butter has conc. It is ruinous to butter to put creatu in the churn, as is some
times done, and clurn rapul y fur a ninute or times done, and charn rapid y for a ninure or
two eve:y hour of the day, thin in the evening all take hold in turn, and keep the cream
dashing and pashing until midnight.t. If the creann is proper y managtd, buther win ahway
come beatifuliy in less than haf an hour.7. The butter should be worked and thorouehly
salted soon after it is chunnd. There is but
litted sound little danger of saliting too much. One ounc
per ponimd is not enough for butter that is
be shipped any be shipped any conside rable distance. It it
ruinouss to the grain of butter to throw it into best instrument for worhing out the butternilk is anything that will cut deep gashes in the
butter, into which the butternilk will flow. The next day after churning the butter sh ould
be worked again, and p.ick d. A great many persons continue to work and knead thei is removed theanking that att the "crystal tear
drops" which arn not buttermiik must be
 are received once prine gilt-edged butter, but
what was once
wlich was spoiled by being packed before the wlich was spoiled by being packed before the
tubs had been prepared by beink soaked in
hrine for the sake of saving three cents worth of salt for preparing a strong brin" in
which to soak a firkintwo twree days, many
frugal housewife has been obliged to acciet fragal hinsewie has been obliged to accept
lialf the of prime buter, simply heause
the staves were not siturated with brine bethe staves were not saturat.
fore the butter was packed.
> feed for the dairy.
> A correspondelt at Litclifield (says the
Utica IIerald) wr,tes: :-The milk of (nur cows
hich graze which graze on upland partures is said to pro-
duce on a ratio of 125 to 100 of that of other and lowland rangef. The same is the case
and
with other factories, as we know pasture
tity and
are inpr
this is im
is a lead
all pastur
be presu
butter m
But thi.
sarily the
most is
of loatity
on an el
which is
low land
find, will produce sweet grasses. This is the
case with level Ianges where the soil is well case with level langes where the soil is well
and deeply cultivated, so that no excess o
water remains in the ground. Here we find water remains in the ground. Here we find
some of our sweetest and best herbage. A
luw valley, very rich, and subjected to fogs some of our sweetest and best herbage. A
luw valley, very rich, and subjected to fogs,
will not grow a desirable fetd for the dairy though even then, if the land is well drained
and the grass cropped close, so that a texder herbage is secured, somewhat like the eerly
or June , ow owth, there will be little that is
objectionable. What we want is the younges ajectionable. What we want is the younge
and tenderest grasses. This for butter and
or milk. For quantity and not for milik. For quantity and not quality, we nd ciover superior to all the grasses. Our
observation is, that cattle will thrive both in flesh and in the production of milk upon clover when advansed, even when in blosscm. The But results at this stage have been obtained.
Bo the dairy product) is inerior to what the grasses produce; not, how-
ver, to a greater extent-not comparable to hat of turnups, carrots, beets, \&c. We mean more particulariy at that. White clover we
have fuund equal to the tenderest of grasses Indeed, in a muist, rank-growing season, white clover is often our main reiiance for quality,
and we may say not nuch, if any, inferior in and we may say not much, if any, inferior rin
quantity of production. But red clover, pro-quan manaped, will yield double and more the
peryantity of feed obtained frow whity clover
quant quantity of eed obtained frow whith clow As it yieids a fair quality of d iry proauct, it
will be at once seen that it is for the interest of the dairyman, where his tand is favirable
for clover (and most soil is , to engage in its for clover and most solin, to engage in
growth. It is even a superior feed for winter,
but only but only when secured in its tender blossom
ing state. This is somewhat difticult, but it can be done with the proper appliances.-
Orchard grass has its claims ; so have other f. rage plants. But clover, properly managed. is
our most profitable feed, summer and winter.

The high price of wool this year, and th great demand for sheep or lambs, firr moat of mheep. The price ot wool tor a few year
of send has led the farmers to kill off thitir shetp, and jist the same results fullow hat have in year
before ; they find, whe: woul advances, the have no sheep on hand. We have advocated
higi prices tor wool, advising the farmer if he had any and could affurd to huld it, not to
sell. Althounh there has been a littie depres sion in the market, we st:ll adhere to the view
that the woollear mills duiny the coming sea
sun will be large buyers of domestic woo s sun will bo large buyers of domestic woo s,
and we notice the reports from foicign mar kets show grat firmmess abro a, arising fron
the sume causes that prevail in this country shortuess of supply. Nor do we think. with he growth of business in cur country, will the
upply, for several years to come, yxceed the

- the The st. ples grown heere. Ite question of ralsing shecp for their meat
is not aut duimpo tant one ; with thlu growth
if the country the consumption of eatables increases, and the favorite meat now, and that
which bit Which brinds the highest price, is lamb, and
witha an increasing interest in it, as the mosi Wholesome and palatable of all meats, it is
uiready getting so scarce and ligh that it has o be purchased ouly as a luxury by those who
can afford it. We have spoken thus far of the temand of wool and mutton at a price that
will pay largely fur sheep-raising. Their value it the farm is not, perhaps, filly understood.
It an old proverb, " whenever the foot of
tie she the sheep touches the land it is turned intu
gold." Sheep will enrich land faster than any other asimal. On the monintain pastures
hey are valuable in clearing up the land recing it from weeds, shn whe and briars, and
rringing it to cluver and nutritions grasses. They are easily raised and cared for both in
Tumimer and winter. The risk of Doss by death summer and winter. The risk of loss by death
is smal a and if well manaed, shep will not
die in debt to the owner. If it dies at birth die in debt to the owner. If it dies at birth
it has cost nothing. If it dies the first year the wool and pelt is wurth all it has cost up th
that time. Sheep huslandry has a value t
 tive, at a
avimal kept
Homestend
hay. But it needed very little reasoning to
denolish such a theory as this. The grass is
ne of the poorest for ne of the poorest for hay or pasture pury oses, nd scarceiy exists, except on cold, clay lands,
in partially shaded places, near groves or low wods. Yet while this gatasis is the exxerption,
indeed the very rare exception, in luw pasonded the very rare exception, in lus pas-
tures, and in hhe hay fed to ur c wws good
utter is the liberal rule in all our markets.it has long been the opinion of our agricultural generalizers of facts that ne owe much more of the sweetness of our butter to the
abundance of springs and spring houses in our
tate, than State, than to anything pe culiar u hich frows
n our pastures. Milk has a feculiar sftinity our pastures. Milk has a peculiar affinity
or any odors in the atmospliere, and water has some, lence whatever impurerities nay get rawn out hy running water, and every secuby the provided against their leing abserbed notice this now through
bserving an inquiry whether the lioht of observing an inquiry whether the lipht of a
kerosene lamp in a dairy could possibly affect kerosene lamp in a dairy could possibly affect
the quality of the butter; we should answer
most decidedly in the most decidedly in the affirmative. All odors
of every description should be carefully avoidt of every description should be carefully avoided
if the very best brand is desired. There is
one littl one little incident in this reputation of PhilaThe followers of Peun have made up a large
class of cur oriuinal farming papulation. With these people cleanliness was especially one of
the virues. It was not a mere centimy the virtues. It was not a mere sentimin nt that testimony in all they did. Aided in these
tleanly practices ay ther and cleanly practices by their numerous springs
and spring-houser, we have little doubt we owe to them as much as to any other circum-
stances the
 other quarters woud dive especial attention to
these $i$ litle nicetio s as good butter might be had in any part of the Union as here.-Gier
bueaf oats for forabiat
In answer to the inquiry. "What shall we
grow in the place of corn foduer r" I would uggest the sowing of oits prety thickly, and
cutting when first in the nilk. so us to liave hem saved as green and full as possithe ; store more good food can be rais d to the aere than traw is of great value las ling leeen proved, nhan outed to be of neariy equal value to hay
hren -addig g to its gra:n, say fifty bu helels to the acre, would give neariy a ton
of the best of fead, on which not only does young stock glow thrifty and larke, and the bran or meal it is one of the very beet hings
o feed to cows for nilk or butter. Havig a ertain amount of mi k to supply dai y last
fall. I used devery meansto kepp up the quan-
oity and gunlity and lied ty and पunity, and t tied alm ost every vai iety odder was the writ of all, eveln at no cost,
while sheaves of ouns, cut green, were a cleap
ceed at forty cents a dozen bushe's of a aeriage reed at forty cents a dozen bushe's of average
sze. The corn fidder was gond, ful grown,
and well cured, but I would t, fit fee dit to cows I wauted a good supply of wilk fr me, if cou det it for nothuly. The ony fed
found suntrior to oats was clover, chit in first
bloon and well cured, with four tais of corn and four quarty of bran once a day. (I) this a fine supply of butter may be lioktd for, and
a cow to do herr very bett. It may also be said in favor of cats, that they are easy to
roow, nice to handle, and the must wholesom and nutritious food for stock, pecultry nd hog neftice ; are early harvested, and the lani
left i., good condition for clover, which shou: filow-Colonial Farmer.
In France the "bovine rest" bids fair to we have to record he existence of he he disense, eport last month we stated that seven comnes in the Department du Nord were in
lected ; the number has now increased to 12 and this iu spite of the measures of repression we took occasion to remark, did not accord
when we took occasion the Rnglish notion of "energetic." Belgium continues to enjoy an immunity which,
under the circunstances, is remarkable, and whter the circumstances, is remarkable, and
which is on y secured by constant watchful-

$$
\begin{aligned}
& \text { Tue secret of good butter. } \\
& \text { Everyone knows how superior is the }
\end{aligned}
$$

> Everyone knows how superior is the reput
tion of Philatelphia butter, and many hav

in our pastures and hay fields the the grass which
often gives so peculiar a fragrance to meadow
the prohibition of the imports of cattie and
certain other articles of comme：ce from tho provinces is rescinded．The exemption，hoy ever，it is distinctly stated，does not extend
Steppe cattle．－Paris paper． Steppe cattle．－Paris paper：
trees in pastures.

A dairyman，who had a fine farm，withou summer，when we asked him，what nad beconte
of his shade trees，and why he did not plant some for his stock，that it was all nonsense to
talk about the humanity，and especially th alk about the humanity，and especially tha
profit，of shade trees in pastures．He had
shade trees in his pasture，but he cut them down．He funnd cows spent too much time when they should be feeding．Now they had nothing else to do but feed．Just then we
called lisis attention to his herd chasing and goring each other in the liveliest manner，
We asked him what that meant．He didrn＇t $\frac{\text { know ：We did．They were almost mad }}{\text { with the heat，and wild from the tornments }}$ of the gad fiy，from which they were trying t
escape
fron this lively exercise，and the more heate fron this lively exercise，and the nililk，whe
drawn，was nut in a healthful condition；no drawn，was not in a healthful condition；nor
was the quality of his cheese anywhere near first－class in reputation among buyers．And
no wonder ！－Rural New Yorkert． Holland has suffered rather sever． weeks，up five hundred cases of the disease
four and were reported to have occurred in different animals．The measures adopted to arrest the progress of thie disease are very stringent．－
All diseased animals are slaughtered，and tliose which have been herded with them are inocu
laied and isnlated．If the owner objects to lated and isnated． from association with others for a ang perive， under the oiscr ryation of the authorities．
Great Britain tiere has been no change in the state of prevalence of the disease since the last report．
cout－and－mouth dieeasi． This affection still prevai＇s in Hanbureland landed in Ensland during the last month fron Antwerp，Bual，gne，Bremen，Brenhofer，Co
penhagen，Curunua，Dantzic，Dunkirk，Ilam－ purt，and Rotterdaul．Fresh outbreals have occurred in Nof folk，Kent，Cumberland，and
some parts of Scotiand．

Al｜jorticultural



## Horticultiral Note

The Buston Journal of C＇heeristry says：－
We are informed by Dr．E．Worcester，of We are than，that the currant worn，so destruc－
Walthan tive to a favorite fruit，may be fully and al
most immediately destroyed by the use of er in many instances during the past sum her，and f，und that while it was full a effec．ive as helleboo，e，it was less disagreeable
less cost $y$ ，and perfectly safe．The neethod less using it it to sprinkle it over tlie vines as
of uoon as the worn makes its appearance，bring－
s． ng it weil in contact with the leave：，atid
soon the pest is destroyed．It needs buit tio or three appticatious．In this way，for a few
cents large quantities of currant vushes may cents large quantities of currant pushes may no dauger whatever be in：curred．Neither the foliage or the fruit is in any way injured by
the carbulate of lime．It will be well for our readers to remember this now．
the rose slug．
Among the many uses which may be mad
i＇aris green for the destruction of insects， here is none more successful than its applica tion to rose bushes that are affected with the plaster，when the bushes were wet，and suc
ceeded in saving our roses，but not until thi oliage was much injured．This season
had watched cart fully for the couning of this had watcied
miserable pest，and had hoped to have escape niserable pect，depredations；but one suany morning fter two days of constant housework，whic
had kept－us entirely from the rarden had kept－us entirely from the garden，
found it had commenced it deacly work
some choive perpetual roses and one beautiful some choiee perpetual rose．and one beautifit
young climbing rose which we had tende not wait for rain or dew，but immediately put
a tablespoonful of Pa：is green in a waterin put，added four quarts of water，ant sprinkle
the bushes thoroushly ；after this applie hie bushes thoroughty；atter whis applia
Paris green and tlour mixed in the same manuer as for potato beetle；the following
day repeated the same operations；twenty four hol
fund． ound．The lushes are now covere
lux riant foliage and perfect flowers．

Tlo 部别s．

It is remarkable that while agricultural so citties have offered premiums to encourage trap to a tirestiing machine，fura e end rot
crops have been aluost uverlouked．Yet the ir importane is scately second to that of
the hunnan fool supply，for without our do－
 smnle，aud seturns reasonab＇y certain．Their yield is enormons；and where they form and
important portion of the winter＇s food，the
numier of animals which can be sust ained oin it given area is very largely increa ed．Ince
cre can be mown over foom three fin fur tines each season；we saw some fields in Great
Britain on which tweive to fifteen this to the
acre of cured hay had heen cut each ses acre of cured hay had been cut each season．
Rocts a；a foud fur stock are not on y to be combitended as one of the clieapest articles
willinu tied reach of om farmers，but becuse they mantain the anim． 1 system in that con－
 we given in greater or less quanitites．As $t$ subject mlich thomht，and who have mad an experience which qua ities then to judge
rang in their estimutes fhom 5 to 6 t cta．per
bushel of 60 lbs：which does not seelia im
I

| probable，considering that from 1,000 to 2,000 |
| :--- |
| bushels per acre can be productd． | Most farmers will also find soiling cattle in summer to be very advantageou＊，especialiy

where land is very high．It is not lialf tho where land is very ligh．It is not haif the
troub．e most people imagine to to．Fail
sown rye，sown twice as thick as ordinary and


| 芜 |  |
| :---: | :---: |

$$
\begin{aligned}
& \text { sown } \\
& \text { the } \\
& \text { The }
\end{aligned}
$$ Mis latter wrass，and before the

whe found to be
The freat staple crop of the soiling system． The first sowing in drills， 3 feet apart and at the rate of 3 bushels to the acre，should be
on or before the first week of May，and suc－
cessive cessive sowing should be made 10 days or 2
weeks apart．Sown lndian cora is a wonder－ weeks apart．
ful provision of nature as food for stcek．An Iul provision or nature as be grown on an
immense weight of it can be
acre；it is eaten greedily and is most acre；it is eaten gréedily and is most mul－
tritious，pronoting the secretion of mill
nore than any other kind of food．It abounds in saccharine matter．Any excess of it，not consumed by the cows green，can be curen for
winter provender，and is better than any kind winter provender，and
of hay．－Stock Journal．
care of horses．
All horses must not be fed in the same pro－
portions，without regard to their ages，their coustitutions，and their work；the inpropriety of such practice is evident．yet it is con－
stantly done，and is the babis of disease of
every kind．Never use bad liay on account of the cheapness，because there is no proper nour－
ishnent in it．Danaged con is exceedingly injurious，
of the bowels and skin diseases．Chaff is better fur old horses，bit do not give the
latter alone，because it makes the horse cliew latter alone，becand dige．t it better．Hay or
his food more and
grass alone will not support at horse nider grass alone wil not support a horse under
 hay－because oats supply more now isthuseat
and fleh－making material twan any other kind and flesh－makny matnay than hot so much．Fur a saddle or
of food，hay not
coach horse，half a peck of sound oa＇s and eighteen pounds of good lay are sufficient．
If the hay is If the hay is not good，add a quarter of a
peck more oats．A hosse which works harder may have rather more of each；one that works
little should have less．Rack feedin i s waste little should have less．Rack feedng is waste－
ful．The better plan is to fecd wit．chopped
Then hay，from a manger，becanse the food is not
then thrown about，and is more easily chewed then dirown．
an dipested．
that llas sal that has sate dissonved is it，wecanse it is
pleasing to the animal＇s taste ，mind me easily
digested．A teaspoonful of salt in a bucket digested．A teaspoonful of salt in a bucket
of water is sufticient．（Jats shou＇d be bruised for an oid horse，but not for a young one，be－ cause the former，throngh defective teeth，
cannot chew them properly；the young horse cannot chew them properly ；the young horse
can do so，and they are thus properly mixed cando saliva，and turned into w
went．－London Horse Book．
watering horges in warm weather． There is a warm controversy coming up in
regard to the watering of horses in warm wecather．At present this coutroversy is as
a cloud no larger tina a man＇s hand；but we are sadly mistaken if it do not conte to be
one of the nuost stirrine questions of the $i$ ay ；
 Hilling Corn，＂＂Deep P．owing，＂or auy oith 1
i lustrous subject of the past，will paie．－ Anstrious subject of the past，win paie．－
Several writers have of late siggessed that
 Siffer and are injured for the want of water
 refornation of horse manners and cistoms in
yeference to dink．The tlecry of horsemen II general is，that it is an evil to per pire
free $y$ in warn we ther，and that if littie water be given them，they can perypire hat
little．＂The more wate we clive them tie
＂here they sweat．＂Oa the other hand the more they sweat．the open fifds telis us i：e is
laboring manin in
vever so miot abie at work as when he is
 uan is good for the beast．Perhaps so．Wc
suppose the truth lies tuid way betrien there supposing forces．At inyrate，the diccussion
opill do no harm to the poor dumb beasts in－
with

## terested．Our own experience has been ad－ verse e to excessive watering．Even in the harvest－field we think moderation is advisable． verse to excessive watering．Even in harvest－fild we think moderation is advisa －Germantown（Ia．，U．S．）Telegraph． <br> an experiment in feeding horses．

The London Omnibus Company use six in important matter，and has led to several tests，the result of which is recorded as To each of three thousand of their cround oats sivteen pounds，ground hay round oats sixteen pounds，ground hay sue and one－eighth pounds－the hay and traw being cut into pieees about half an inch long，and well mixed up with oats in
little water，and so making twenty－six little water，and so making twenty－six
pounds of food for each horse．And to each one of their other three thousand horses they gave a daily allowance of whole
or uubruised oats ninetoen or unbruised oats nineteen pounds，and pounds，without any water，in our old ashioned way，making thirty－two pounds of this food for each horse．And what was the result ？Why，it was soon discoverey ix pound of ground oats remained in as good a condition and could perform just
as much work and do it just as well，too， as the horse did who consumed thirty－two saving of six as anderesald food per day in avor of bruised oats and cut hay．

## shobing horees．

rood advice on this sulject
It is almost imposisble to qet a horse shod
without liaving the frogs cut away．All vet－ crinary sirgeons，thorsenien，an leading be pareà che particle－not even trimmed．No matter how suft and pliable the frog is，cut will be dry and hard as a chip．You might as
well cut off all the leaves of ees and expect henn to floutish as to ware away the frog and have a healthy foot The rough sponyy part
of the frog is to the foot what laves are to
the tree－the lungs．Never lave a red－h．t shoe put upon the feot to burn it levcl．Emi level the foot without red－hot iron．The burn－ ing process deadens the hoof and tends red－hot poker on your finger nail，and see how
it will effect the growin of that．There ar many inpportant poiuts in shoeing horsess．but
these two are of mour inportance that rest，level to the apprehension of mon rest，evel to the apprehension of men not
skilled in horses，and the two most disre－
karded． garded．

Few men who handle horses give proper
attention to their feet and legs．
Especially is this the case on farms．Much tizue is fre－
cluently spent sinoothing the hair on the hips and si tes，but it is seldom the feet are ex－
anised and properly carei for．The feet of the lorse need more attention than his bsdy
All the groming that can be dune will not arail anythong if the horse is forced to stand
where his feet will be filthy．In such case tlo where his feet will be filthy．In such case the
feet will becone disordered，and then the legs feet will become disordered，and then the legs
will yet ont of fix，and with liad feet and legs
there is nit much clse of the bly there is mit much clse of the hrise fit for any－
thine．Stahle prisens cencrally are terribly
spere severe on the feet and legs of horses，and
unless a howse in the stable，he had better be turnel louss in
the pasture． the pasture．heave in horars．
A Mie＇igan wrrespment of the Rural
Mome ives the following reluedy ror heaves
in hores ：－Give once daily a teasponful of Wha fortis，propared as iollows：Mix it with
a t tuasponful of smer or skimmed milk，and mix this with bran，and thie bran with the
gavin feid．The atarrhal affections of the
throat make rap an anendment under this treatment，and tive correqumendent referred to
says he laas known a number of cases cured
 subscribers have horses sutfering from heaves；
they may easily try the above，and report the
Ton

身保try
kerosene for henneries． Where lice are troublesome in a hen－ no auswer an excellent purpose be found sary，get a small watering pot and sprinkle used in this way，and with of its being used．It was also applied to the fowle by
cess． rubbing under the wings and among the
feathers on the back of the neck，and the feathers on the back of the neck，and the
pests were effectually＂cleaned out，＂with pests were entectually cleaned ont，with－ chickens rubbed lightly with a feather about the head and on the neck，it is ad
mirable and it is there where lice ca genabrally be found if they exist anywhere about the flock．One application of this sort will suftice for many weeks．
Careful observers will have noticed that tend against．The species that attack sitting hens in hot weather are ver small，very active in their motions，and sometimes drive the hens from their nests， and become so numerous about the hennery that visitors cannot enter without carrying off more or less on their persons．Their
presence will be indicated by a delicate crawling sensation on the hands，the neek
Cracks and holes about or the body．Cracks and hollo of them
the building will larbor millions at such times．For such a house，kerosene
is the remedy．Apply it liberally from is the remedy．Apply it liberanty from
top to bottom，and if one application does not completely remove them，apply a second time．In applying to the chickens and fowls，be cat it may not prove fatal，bu inouth or eyes；it may not prove fatal，but
it will do no good．It evidently does not make small chickers feel lively，but it will not harm them seriously if they ae wel house
quire．
We
Wut have not yet tried it in hen＇s nests， through the houbt that if sprinkle uest is formed，it will answer a better pur pose than the sulphur，or ashes in the
bottom．It will positively kill the vermin harboring in the nests，while it is evident that dry sulphur and ashes are ony
ayreable．Of course the effect of a single application will not last al ways，but one or two applications a ycar will probahly he found to be sufficient，at least in hen
neries whose owners are not frightfully
Thelice found on the heads and necks of young chickens are very largo compared
with those infesting the nests of sitting with those infesting the nests on to have seen them except on fowls．The．touch on
a suall amount of kerosene infuses won－ drous activity among them，while a goon
saturation evidently paralyzes．Nothing saturation evidenty remains will be found one day after a good application of kero－ sene．－Country Gentlema
A common hen on ducks＇eggs hatche two．These，after the manner of thei
kind，coming near a pond，took the water The fost－r－mother，after displaying every sitm of anxiety and calling in vain，deliber the little ones be fine her lreat and drove thim a hare Scen by two creditable A writer in the Poultry World says his plan for curing hens of a desire to sit，is to put them in an open yard，where there ing as much as possible in appearance from their regular quarters and feed them liber ally with soft feed made rather hot with and all the milk they will driuk．


## （5000 年exalth．

importance of breathing pure air．
The supreme importance of good，pure ung food for all living beings－the tender
infant，the delicate daughter，the robust man，and the old，bowed down with years －cannot be too strongly impressed upon he mind．Pure air is not only the best all blood－purifiers，but it is the best
peserver against ill effects from other mpurities，and the best of all tonics for weak lungs．The idea，deeply fixed upon he popular mind，that the only way for he weak to gain strength is through eat－
ing and drinking，leads to the invention of an endless variety of tempting gand over－ nutricious dishes and to the drenching of
the stomach with wiue and bitters．The the stomach with wine and bitters．
practice is a most disastrous one．
Thousands to－day are suffering in this way，or by having their lungs both starved and poisoned，while the stomach is stimu－
ated to its utmost，and gorged with rich
alinents day and night．Yet such often aliments day and night．Yet such often
remain pale，weak and thiu，and quack remain pale，weak and thum，and quack
locturs urge that more stomach bitters be taken to bring them out．They are to keep away from fresh air，from auything to keep away from fresh air，from anything
like a current，and are not allowed to take out－door exercise，except on the finest days， and then only for an hour or less each day， or fear of taking cold．Besides，the kind
of $\epsilon$ xercise taken is usually uuworthy of the nercise，for it too olten consists simply in keeping quiet，in an easy posture in an casy carriaze．This mode is quite proper or those debilitated hy actual disease，
but not for the thin，weak，or delicate， who desire to be made strong and healthy． Little by little，and day by day，should out－door excrcise be increased，until the enough to take care of itself．If the uniform half－starving of the lungs be long continued，even though the stomach be weaker and weaker，and paler and paler． weaker and weaker，and paler and alater，
in spite of all the stimulants，al the empting dishes，and all the care which ant can devise and affection bestow．And established，or consumption developed， 11 on account of the unfortunate mistake in thiuking that colds，weakness and con－ sumption can only be pre
Such a system＇is the very one to cherish hem among animals which do not have hem in a state of nature．It causes men nd women to put large quantities of food carried into the blood，does not receive sufficient oxygen and sunlight to develop its strengthening power．It prevents the taking of exercise，to knit into firm filre
and nerve rich elements in the blood．It causes large quantities of nutritious matter of be arrested in its organization，where $t$ must undergo decay，deranging the and producing active disease in some parts if the body，not ouly from the nutrition， but from the great labor put upon some the body．
Perhaps the supreme importance of giv upply of pure air，cannot be better im ressed upon some minds than by stating that after more than twenty years obser sumption，and a familiarity with the opinions of the best physicians of the day，I am firmly of the conviction that no one need have any nourished on if his lungs are ony noring every hour of life．The breath ing of a 1 ，ure air a few hours each day will not keep off the terrible destroyer，but the lings must have it and this，at the least as natuen times every minute－－Frcm Dr．
is sixteen
S．$\$$ R．Black＇s Ten Laws of Midh $^{2}$

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Toronto，A pril 26，1872． FOR SALE， $\mathrm{F}^{\mathrm{OUR} \text { PURRE－BRED AYRSHRE BULLSS，with }}$ $\underset{\text { year old．}}{\text { Fedive }}$
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ists，students and divines have had their sight
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ollowing diseases： 1．Impaired Vision；2．Preslyopia，or Far
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Inflammation of the Eye and its anvend or Infammation of the Eye and its appendages，
or imperfect vision rrom the effecto of Infam
mation ；8．Photorhoobia，or Intolerance of mation；8．Photophobia，or Intolerance of
Light，；．Over－wrked Eyes； 10. Mydeopia
－muvin＇s．specks or floatiny bodies hefore the －movint，specks or floating bolies before the
eyes 11．Amaurosis，or Obscurity of Vision eyes；11．Amaurosis，or Obscurity of Vision
12．Cataracts，Partial Blindness ；the loss of
sight． Any one can use the Ifory Eye Cups with－
out the aid of Doct r or Medicine，so as to re ceive immediate beneficial results and never
wear tpeectacles：or，if using now，to lay them wear \＆pectacles：or，if using now，to lay them
aside forteres．Waurantee a，cure in every
case where the directions are fullowed，or wo
 From honest Farmers，Mechanics，and Mer
chants，some of them the most eminent leading chants，some of them the most eminent leading
professional and business men and women of
elucation and retint ment，in our country，may


 tents of a Daily
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