

82
Let there be neno of those maeaures- too Thalk kovernan peny wise and poand toon ind that of mones that widi
in a return many fold
 this guery our remply matat boin int thene negative tinm ind bininidicioasy dono, but overione Certainly not. It carnot be that hite Do




 turplogeo at onoce.
There has,itit is true, been for some time a great tatanation of buitions, an an anoest total
 grante in their arivival, and not at teot of the


To raise the Dominion to that pasition everry yinuantrial pursuit ahould beencouraged


 cessary to national wealth is the Dominion wanting. The Eislish journals received by the last ing the conflict between the agricultural la borers and the farmers in the eastern counties of England. Both parties in the struggle
were resolute. The laborers were in no
The want of funds, for the resources of their union still held out, and those resources were daily replenished by contributions from the
trades-unions and from philanthrophic poli-
ticians. The Canadian Government has sent authority, to the officers of the Agricultura with their families, and 100 single laborers each week to Canada until further notice,
and at this rate the surplus laborers can
soon be sent

## Editorial Notes.

Bekt Root Sugar is to be cultivated on
a large scale in the Province of Quebec by a A. Tache, an eminent agriculturist from
Mrance. The soil and climate of Canada ar France.
very well suited to the culture of the beet,
and we hope the day is not far distant when the Dominion will not be dependent on other countries for sugar, now o.
sary articles of our food.
The Maryland Peaches, the Western
Rural tells us, will be almost an entire failure. A correspondent from Somerset county says: "The last hope of the peach-growers
is gone, and in Kent county the peach buds is gone, and in kent conty detroy by the frost, but
are not only
every other variety of fruit is also seriously every oth
The 'Scarcity of Fodder has been the cause of serious loss to the farmers in the
vicinity of Harriston and through the town-
shin ship of Maryboro, a great number of cattle
having died in consequence. The same state of things has existed at Seaforth and many
other parts of the country. We hope farmers will be more provident for the future.If there be at any time anticipations of a
dearth of fodder, the farmer can, with a dearth of fodder, the farmer can, litle timely forethought and trouble, provide a substitute in an additional crop of
roots, and in Hungarian Grass and corn roots, a
fodder.
Earth Worms In Pots.-A writer in
Vick's Floral Guide says: "My house plants have suffered very much from earth worms. have sufteren very much things, and they only became more numerous. At last I put ten drop3 of carbolic acid om a pint of water and poured thike a charm. It killed all the worms, and
the plants began to improve at once. It has the plants began to improve at once. It has
been three weeks since it has been applied, and they are all in 2 nice growing condition,
and I think that is time enough to show and I think that

THE FARMFR'S ADVOCATH.

## Implements.

During the past month we have had two calls from persons desirous of intro-
ducing their wares. time and attention we can spare to the examination of such implements as ap-
pear to deserve attention. We had them taken to fields in the neighborhood to see the actual work done by them. The first brought to us was a patent re-
volving harrow. The harrow was put on a piece of sod land that had been recently plowed; it did its work very well, pulverizing the ground and levelling it better than auy harrow we have seen work. It
would revolve to the right or left, at the uption of the operator. It would level uneven surfaces, or close up or open a dead furrow better than other harrows; it does
not cover near as much space as ordinary We do
is money not advise any farmer to invest Manufacturers any patent right affairabout the profit or loss on such a thing than farmers. In looking over an English
agricultural work we see an illustration


Mry W. S. Amoly, of the firm of Mi
Garvin, \& Armol, of (lathan, irought a
plow for our inspection. This implement
we also had put into operation. The plow we also had put into operation. The plow and land side and having a curved coulter. It is called the O . G . Plow from the
curved form of its construction. Mr. Mccurved form of its construction. Mr. Mc
Garvin is one of the best farmers in the county of Kent,
selves in plowing
They have had this plow made, altered and perfected for their own use, and now they believe they have the plow that will wross any pow for dor doing work that will carry off the prize at the plowing matches,
also that the land plowed by it will yield better crons, because there is in reality take effect on
We were well pleased with the work it did, although the land on which it was tried was as an unsuitable piece as could
well be found; still it did its work well. The plow was first brought before the notice of the public at the Provincial
Plowing Match, held near Chathm Plowing Thatch, Three of these plows were put in use in the different classes. A large number of manufacturers had their plows
at work, but the work done by the O. G. at work, but the work done by the O.G. prize.
We have no doubt but it will be at the Provincial Exhibition at Toronto ; We give in the illustration a represen tation of the appearance of the furrows
as turned by the different kinds of plows. as turned by the different kinds of plows.
The top cut represents the work done by the O. G. Plow; the second as done by work done at the plowing matches. The great advantage of this plow is the
larger quantity of earth thrown up by it larger quantity of earth thrown up by it,
so that the barrow can affect it mcre
easily.

## the crops in west middlesex.

 Contrary to the expectations of even theoost experienced farmers, the Fall Wheat most experienced earmers, the rall wheat
has made such extraordinary progress dur-
ing the few days of very hot weather, that ing the few days of very hot weather, that
even more than an average crop is the ex-
pectation now. Mr. Grierson has as fine a pectation now. Mr. Grierson has as fine a
crop of Fall What as is usually to be met
with vith at this season of the year. All the
pring grains are rushing up with marvellou spreed. Rain has at last come, too, in gentlo showers. The plum trees and cherries ar
in full blossom, and the apple blossom is
nearly full blown, and before this is printed nearly full blown, and before this is printed
the peach will lend its pink blossom to
decorate and adorn the gardens around Syl
van.-Gazette.
equtrows of dutbundry.

This Order is gradually increasing in
numbers in our Dominion. Although of American origin we have connected ourselves with it; our reason for so doing i
because we helieve the organization wil be of much advantage to our farmers.-
We have labored for years to unite the We have labored for years to unite th farmers together for the puirpose
vancing our agricultural interests.
We believe the organization will be
come influential and of great advantage come influential and of great advantage not country generally. Many abuses wil be checked, information will be spread and profit will result to the farmers.-
Farmers will have more influence and power. Somie persons are opposed to
the. progress of the organization for the progress of the organization for
various reasons. Some paid persons various reasons. Some paid persons
attack it in various ways, and an
organization wi. hear is formed to check its progreas, these ophosing steps will be of no avail.
The Gramees now esiablished in Canada
The sufticient to entitle us to our Charter are sufficient to entitle ns to our Charter.
We can now form our Dominion or Proincial Grange or Order, under whateve name we may choose to call it.
We shall have no necessity for sending
our funds to the States, or any portion of them, unless we wish. We believe it wil
be better for the organization to affiliat with the States organization, but to be a Canadian and independent order. We now have their constitution, by-laws and
modes of working; they are well and ably prepared, and will suit us, with but slight alterations. We even imagine that
some very important and beneficial adsome very important
ditions can be added.
We consider there is no great necessity as this is now the busy season for farmers. The Granges now formed can work to their best advantage by uniting.
We suggest holding a prelimmary assem-
bly soon. Those who meet can draw up a bly soon. Those who meet can draw up a
constitution and by-laws, and appoint constitntion and by-laws, and appoint
officers pro. tem. to our Canadian or Dominion Grance, so that we may go to
work immediately organizing subordinate work immediately organizing subordinate
Granges, without the necessity of sending any more money to the United
States. Copies of the constitution they adopt can be printed and sent to each Grange in the Dominion for their ex-
amination and discussion, and a meeting of the Canadian Dominion Grangecalled forsay Wednesday of Provincial Exhibition weel, at Toronto, when all Granges could
be represented either by their Masters be represented either by their Masters
or some one clected for that purpose, and when the coustitution and by-laws would be adopted or amended, and regu
lar officers appointed for the ensuing lar ofli
year.

## New Granges.

london township gra
Master.-Capt. Jas. Burgess, London Secretary.-W. L. Brown, Hyde
Park P.O.

FOREST CITY GRANGE, No. 12.
MTH MAY.
Master.-Harry Bruce, London P.
S.

## SECR P.O. The

The reports from the other newly orga-
nized Granges have not yet come in. W wish Secretaries would report to us immediately when a Grange is formed, or
when any new matter comes before them.

## Dairy Hints for June.

 by hon. X. A. willard, president of theNEW York state dairymens' association.
Written for the Farmers' Advocate. June is generally considered one of
the best months for dairying. The herds hen usually yield the largest quantity of
nilk. The grass is sweet and tender, and if ood milk is not produced the fault is in the cows, or their management,or in the handling
of the milk. We are supposing now that the
cows are feeding upon good grass, and are the milk. We are supposing grass, and are
cows are feeding upon good gre wor wild onions or
not permitted to consme oot permitted to consume wild onions or
other weeds that give a taint to the milk.
Vhy is it then that so much bad cheese and Woor butter are made in June? 2 nd. - Who is
per esponsible for the inferior product-the
factory manager or the farmer? Occasionally factory manager or the farmer: Occasionally
the fault erraps may be traced to the fac-
toryman, but generally it lays wholly with toryman, but generally it lays wholly with
he farmer. We shall enumerate some of
he he most comers of the Advocare do not
he dairy reader
recognize in one list of short comings, somerecognize in one list of short comings, some-
thing applicable to their case, we shall be
very much mistaken. A good deal of bad
nill results in the first place, by allowing hilk results in the first place, by allowing
cows to drink from mud holes, pools of
filthy water, in swales and low ground filthy water, in swales and low grounds
where murh vegetale or animal matter is
in rapid process of decomposition. Sometimes in rapid process of decomposition. Sometimes
the weather comes off very warm in une,
nd the water in these places becomes offenive to the smell, especially whenstirred, but the herd is often permitted to tramp
through these watering places, to dopp their excrement, which increases the nastiness of ood flavored mikk can
cows slacking their thirst from these foul pools. Every dairyman should see to t that his
herd is provided with clean, sweet water, for herd is provided
this is isperatively demanded, if a agood flavor
d, healthy milk is to be made. Bad water is ch, healthy milk is to be made. Bad water is
fruitful source of bad milk and the sooner orr Canalian friends take pains to provide
their herds with an abundance of good water, hhe better will their dairy products meet the
requirements of the markets, and higher prices be obtained.
In regard to the treatment of cows in June
there is one suggestion which we deem important. Cows in milk, at no time should be
driven from the pasture to be milked faster than a slow walk; but in June, when their
udders are extended to the utmost capacity, udders are extended to the utmost capacity,
fast driving is very hurtful, not unfrequently doing serious injury to the udder by briusing;
and by overheating the blood, by straining and by overheating the blood, by straining
and bruising the milk glands, the milk be-
comes comes affected, and in many instances is
rendered unfit for human consumption. We have seen bloody milk the result of
fast driving, as the strain upon the udder causes some of its parts to give way, hence
more or less inflammation follows, causing bad milk, mingled with that which, is good,
soon affects the whole mass, giving trouble to the cheese maker, who will not be eable to
make from it a first class product. Dairymen make from it a first class product. Dairymen
should be careful to have cows thoroughly should be carefiut have cows thoroughy
milked;the udder should be careully emptied
for if any milk be left back it is the richest portion. Thus the dairyman is not only robbed for the time being, but by not milking
lean, the cow commences to yield less and less milk from day to day. and will "dry up"
earlier than she should. The milking in June should be done carefully and thoroughly disturbed udder causes pain to the animal and makes her nervous, all of which will af fect the yield and injure the usefulness of
the cow. There is nothing more important in dairy management than the proper man
ner of milking; some milkers will do mor ner of milking; some milkers will do more
injury to the herd, and cause more loss than injury to the herd, and cause more yoss look
the value of their wages, and if dairymen lok for success in their business, this matter of
milking must be strictly attended to by the wner himself, or by some trusty person who
will see thatevery auimal is properly milke In June we are fast approaching ho
weather, all milk as soon as drawn should be
aerated and then cooled down to about $70^{\circ}$
before it starts or the factory. It the cans
be set in a tub of cold water and placed in sweet atmosphere, the milk may be aerated
by dipping and letting it call back in the by dipping and letting it aill back in the
can. Thereis a cheap apparatus for forcing can. Hereis a cheap apparatus for forcing
air throug the milk and it is very service-
able, greatly improving the character of the able, greatly improving the character of the
milk and enabling it to be kept sound much milk and enabling it to be kept sound mu
longer, than when no aeration is had.
The Bussey The Bussey aerator and cooler is a simple
Theap, and good device for the purpose. cheap, and good device for the purpose. It
consists in a strainer pail raised about two eot above the common carrying can, and a a
eot and
tin reservoir for water or ice elaced in the can when it floats on the pmilk. The
nilk when drawn from the can is emptied milk when drawn from the can is emptied
into the strainer pail, from whence it falls a spray upon the reservoir in the can,
and thus is both aerated and cooled. The aeration of milk as coole order to free it from animal odor, is of great benefit to its keeping qualities. A much
finer flavored qheese is made from such milk than from milk not so treated, and it is a
point which Canadian dairymen should fully point which Canadian dairymen should fully
understand in their efforts to make a superior
product.
We urge, therefore these hints on the dairy
eaders of the FARMER'S ADVocate, as among the first principles for producing, good but-
ter and cheese, and if they are followed, improvement in the dairy goods of Canada will
©orrespomiente.

## Who sent registered letter from Fenelon Falls, April 7 th?

SIR, - Please continue sending the ADvo-
ATTE;
be without taken it a yeer be without it fer twice the cost of it, for we
think we could not do without it.

Get a good span of mares of medium size
 compact and a good feeder, and ever ready to
drink, for these are fro grat points. This
done, feed well the first winter -a good, warm stable and yard- fine days for exercise. they are juirt what whave rery fared this way, wants,
find that three quarts of oats and all the goo find that three quarts of oats and all the good
clover hay thev will eat will bring them out
just right-tnat is, three quarts a piece, with plenty of good, clean water.
This is from a farmer; publish, if it is worth
it.
CHAs. Scorr. ${ }^{2}$ Wainfleet, April 3, 1874. SIR,-Could you, in the next number of
the ADvocate. give us farmers any informa-
tion as to whether there is such a machin tion as to whether there is such a a machine
made a a Potato Bug Picker or Catcher, and
if so, where made, and the cost ind if so, where
work well?
Lucknow,
[We have seen two machines for the above
named purpose, but do not know whether the are giving satisfaction or not, as we have n
tried either of them, who has. Cannot tell if they are efficient on or
not. We should be pleased to hear from any
one of our subscribers who the


## non-producers.

Sir,--In the April number of your valu
able paper you asked for opinions on non They are o part in the indrosuctriess of because the the country, but make their living simply by standing between
the manufacturer and the purchaser- taking a share of the money paid wirthouser enhancing
the value of the article. This is not the orst or only grievance of which we com whether the article is good for any ming or
not, they travel about the country, recom-
mending the coaxing them to buy. They will talk an hlow for hours on its merits, even when
they must know is is good for nothing; an easing, men are often deceived, and wi buy articles they know nothing abount; when
if left to use his own judgment and descre tion, he never would have boonht it; but he
has been deceived by listening to the won lerful tales of the agent. But a great many manufacturers will sell only through these
agents. This, I maintain, is unjust, because
a man is forced to give these agents a heavy
percentage, when hee could easily dispense
with his services. You will see by this system we are compelleed
men, if we want machines.
being organized through the country. ing at these, men can consult one another and get houest and unbiased opinions on the
different kinds of machinery, and find out where and by whom they are made. In articles every time, without being pested
with the with the agent's long stories. The manu-
facturers of good articless will find it to their
interest to sell direct to the real purchaser interest to sell direct to the real purchaser,
and throw of the agents' fees, which will
make the make their machines much cheaper. It will
be a benefit to themselves, and at the same
time rid the conir time rid the country of a great nuisance.
If these agents will cease their wanderings, turn to farming, and become producers,
nstead of non-producers or teasers, it would mnstead of non-producers or teasers, it would
be a great benefit to the country.
Hoping the farmers of Canad will arouse themselves, and consult one another, to finc out the best kinds of implements, and the
best way of buying them, without supporting
lot of agents, I remain, yours. St. Vincent, April 17, 1874

$$
\text { Leached } A \text { Shes. }
$$

SIR,-I see a statement in your last issue
on leached ashes on land, and I must say that my experience has been very different.
I have used them for a long time, and ther much good on, such as stiff clay. The kind I have used them on is a clay loam. Last
year I put my potatos on a piece of sod, part I put none. The part that I put ashes
on had more than double the quantity positively believe that ashes were none. On any land, more particularly so on soil
You will observe that I You will observe that I spread the ashes on
first, then I plough the potatoes in, putting
sets in every three furrows; of course th ashes turued on the to the sets.t.,
Turnberry, April 27, 1874 .

## LAMPAS AND WOLF'S TEETH IN

SIR, -1 see a refinark about lampas in
horses, which I think is an error. I Ihav
raised, trainel and cared for twenty years, have owned horses of all ages
and know that if the properly burned out they will stay wit
some horses until worn out with age.
have had horses at the age of hame horses until worn out with age.
have had horses at the age of niniteen
poor that they were not fit for work, and aruing the lampas welt down, on the sam
feed, care and work, they became fat and
able, which proves to me the Woifs teeth are a nuisance. They blind some horses that have them large; other
may keep then long and not show it. Much
the better way is to take them out; that

Thave tried hog raising for twenty years soft soap dose of from four quarts down according to size. This will cure worm,
with salt for physic after the osap.
S. L. McCubbin.
Burford, May 11, 1874
LWe thank all correspondents for giving
their opinions, although we may not always
agree with then. We think 4 quarts
rather rather heavy dose.
rapes do better with him than apples. srows the Concord and Delawa
highly of the Probestier oats.
commission merchayt
Sir, - $-\ln$ order to show you ne necessity selves from agents and commission men, raise hops, and have at times been com or me. In 1865 I sent down some hops to
Toronto, and went there to sell them; but they were delayed so upon the railways,
that I could not await their arrival; I there ore gave the matter into the charge of a sell them for me. In about six weeks he
sent me notice that he had offers of 20 or 21 cents for them, and asked me to telegraph
if I would sell. I wrote to him, saying not
well mixed in the mow. This may not look to
be the best way to an old Canadian farmer;
but try it before you condemn it. FARMER.
Deerham, April 14, 1874.
to sell under 25 cents, anyway, as he had
led me to believe, when in Toronto, that
they would bring 40 cents they would bring 40 cents. He wrote back in a few days, saying that he could give me
25 cents, as he might be able to sell them ont in small hots. The next year I was in oronto, and by accident I met one of the
parties who purchased my hops from the commission man, and foond oot that he had
sobl my hops before he had written to me, for $37 \frac{1}{2}$ cents. Of this knavery I could not
convince him for six years as the evidence I needed was his own clerk, and I was afraid
to note it; but six years afterward on note it; but six years afterwards the
clerk was out of his employment, and wrot to me, stating that he was willing to give
evidence. I entered the case into Chancery,
and granges which are being organized, I hope
that all danger of such robberies may be
done aw done away with, and we may dispense with
some of their middlemen. AnGus SuAw.

$$
\begin{gathered}
\text { E. R., } \\
\text { questions } \\
\text { What }
\end{gathered}
$$

What kind of land is best suited for
crop of Broom coun? How muck seed reauired per acre? What way should it be
cultivated? How cured and market? and how marketed?
[We should be pleased of our subscribers that have had experience
with it.-ED. F. A.] management of pasture and farm la
Sir, - Much has heen by men of letteters with manysoon on thints subject
writings but
praction practical knowledge than twenty years of theo
retical. The farmer that wants to live by the
field must make himself wacquainted with the feld must make himself accuainted with the
field, or he is sure to foil in its manazement,
so iar as my observations of Canadian farming has gone for the last five yeara, it is is possible to
improve it very much, the farmer cannot se
how it will how it will pay to take so much trouble t to
feed his land and if hoos not attend to this
matter he is wasting his time and money.
 place, but 1 also find. that the farmer has in
his farm his sest friend if he will only make use
of it. Now for my plan for pr curing a good
med meadow and permanent pasture I keed down
with barley in the spriug, and I find the
best pal best plan to adopt to get the land in good
order is to breakk the the sod early in the spring
g/w oats four bushlds to the acre. well worked in. As soon as the cr $p$ is of of T put in the
cultivator and get the stubble and weeds on the top; then put on the harrows and after that
letit lie the the sun for days or two Then
put on the chain harrow, this knocks all the dirt ff the stubble and weeds and drags the
stabble up in heaps, go wen cottect it in the
wabgon or cart. 1 prefer the latter, as it is the
 ploughed earth to e ch heap and cover all the
stubbles. Then fetch about twenty loads of man.
ure toeach hen on the top and sides. As soon as possible I Illow
the and and let it lie till I I get hrough seding.
But I make time to have all my loll Bet and mixed. to have all my heap well tur
need seed sing I turned to my fiel for rising roots, I now draw out my
compost heaps eveuly on the whole field
plow harrow and cultivate it until it pulverized,- - now it is fit for turnips, mangold
and potatoe, beets and carrotst Now it will b
well hoed and cropped soon after have the crops off I put in the cultivator and
stir the soil Ieave it now until spring. At the proper time
Iplow dep, work it well and sow barley, put-
ting it carefully in. $I$ take the olller and re the whole field, drawing a mark at every six
feet to sow my timothy and clover by. Aftcr
the seed is sown I take the teat seed harrow just half around or once a aroross.
the fiel. 1 have adapted this plan since 1865. and I am satisfied that it more than doubl
pay for the labor, the yield is from two
to four times more per acre to to ffour times more per acre according to
the seapon. By all means keep stock off till
late in the fall and I like to keep them off al. together if forssible. I Inke the keepp them off al.
the land is dry, feed the for $I$ would if two weeks and not feed too $c$ ean. The hay
would commence then about the time the old meadows are reedy, and the the came the old
well mixed in the mow. This may not look to
he the
-The first wheat sown in this country
 was in 1611 . Potatoes were first sown in
1629 . The first apoles were raised on Gover.
r's Island, in Buth or's Island, in Bustm Harbor, in 1639. T,
oair rippens were produced. The value
the fruit crop in 1870 was $\$ 48000,000$.

Petiscellameons.
item prom paris latter





coating for outside walls.
 Hef trom fikiting turovochal :





放
interest.
works all day and all night, in fair weather and in foul. It has no sound in its footstops, tance with invisible teeth. It binds in.
lustry with spider's web. Debts roll a man overer and
over, loinding him hand and foot, and letting him hang upon the fatal mesh antil the long-
egged interest devours him. There is but one thing on a farm or plantation like it,and
that is the Canada thistle, which hew plants every time you ubreak its rorms rats
whose blossoms are prolificand every flower an awl, every branch is a spear, and everry of them like an armed host; the whole plant
 thistles than attempt to be at ease upon in-
terest.

## swarm of locuste.

The following historical factis will give imes attained by migrating swarms of inretreating through Besserabia, Charles X11's
army was marching through a defile when uddenly the men and horses were brought
to a hall, being precipitated from a thick
loud which intercepted the righ sund. Which intercepted the light of the
sun. The eming of the locusts was horalded storm of wind, and the noise of their wings
and of their bodies as they clashed together was greater than the roar of breakers on the
sea
inore. General Levallian saw at Philppeville Algeria, a cloud of locusta twenty to
twenty-five miles in length, which when it an inch in thickness. Towards a layor over
1864 , Torme 1864, the ootton plantations of Senegal were over the country from mornang seen till night;
the rate at which it moved showed that it the vanguard, for when the sun went down
atill English traveller, Barrow, stang on. The sects covered the ground to the extent of two square miles, and that being driven by tho
wind toward the sea the the cost nearly four feet in depth, and fifty miiles long. After the wind changed, the
stench of their putrifying carcaseas was
recongized at the distance of a hundred and
tifty miles


 heavily on the stocks, and that both the de-
liveries of home grown grain and the imports
the of foreign, taken together, are lees than the
estimated consumption for the United king estim by soo, ,000 bushels. Hence the stock
dom
ore sumitted to a heavy draft. The Frencl are submitted to a heavy dratt. The Frencl
markets for flour and wheat, in 160 marketa
 In the majority of them a tendency to ad
vance is gtill prevalent. Some complainta vance is is till prevalent. Some complains
are made of the dry weather which has pre ree mad of the thentens to stop the worl
railed,and which thre
of mater of many of the water mills of that country,
and cause a short supply of flour in the de and cause a short supply of four in the de
partments. The crops are regarded as pro
 The arrivals of foreign wheat at Marseiles
Bordeaux, Havre, and Dunkirk are watched with much interest, and show that though

large they are noeded. - From Michigan | $\begin{array}{l}\text { large the } \\ \text { Farmer. }\end{array}$ |
| :--- |

the fanilu pruit garder,
It is to be hoped that the number of farm residenoes rapidly diminishhing, and will grow beautifuly loss, until a farmer shall no moro think of dispensiug with this important with a spring or well of water for drinking or culinary purposes. A good fruitg garden
is not only a luxury of the highest order,
 ment of a family. A family can exist on an
diet of bread and meat and potatoss; but to be nourishod as an to develop fully the entire nature, afiectional, intelietual and animal, the providence of Nature.
A family fruit garden may be so laid out
and planted, as to bo one of the
greatest
 front lawn, 1 shinoud be made of straigh
lines and parallelograms, to facilitate $i$ it lines and paral may bo exercised in selecting fine specimens of trees, in pruning then
into proper shape and in
Leeping the vinee into proper shape; and in kepping the evines
canes and bushes of the mandle r ruits prune cand trained in an attractive way. Trellised
and ripes and stakes for canes may be mad for grapes
neat and ren and and
nepelling.
of fruits, the taller growing should be planted in the rear, and the shorter in tront, so that
the whol granden may betaken in at a glance.
The walks and borders may me seeded
 horses turning zupon them when cultivating the garden OR add on the effect, graceful)
evergrens, or attractive low-growing decid vergreens, or attratetive low-growing decie
uous trees might be planted at the corners of plotses and abelt of evergreens along the
of man northern side of the garden. In many
other ways that will reailly suggest them
selves to the tasteful reader, the rrait gardel ay be made to minister to the esthetic The as to the sensuous nature of men the fruit garden shonld ood, deep, retentive, natutally or artificiall
 Compost of swamp muck, ashes and lime. Wowed in so as to come in contact with the rootsin their rrude state; but, anter the trees
should be applied as a mulch after the re planted.
In small In small places, where all the fruit is to pples, pearr and hereries may be admitted; sut on a farm, apples and cherries should be
remitted to the orchard. Peaches may be trained low and shartened in, thus occupyag but litille space. A fruit garden, then, the family, would contain apples, peaches,

 fierond spocies fresh fruit upon the table, every day in the year.
A family frit garden, filled with such
fren iruits, thriving and productive, would be
blessing to the whole family; and, with the
and exeception of the family sitting, rom
dearest phace on earth to the ohildren. It is surprising that intelligent, prosperous Carmers will live on from year to year, with such fuxuries within aess toanch, ghem. We cannot help regarding it asa a neglect of duty
to their families, and a lack of oppreciation of the bounties
ondowed them.
harvest prospects in britain. Two very calamitious years of bad harvests, which have caused heavy loses so former
nd to the country at large, are succeeded by ne promising, so far, a bright and more lifficult winters, we have been favored with dry and mild winter, rendering farmin Nerhation hase planted well, withont being too luxuriant, and the spring sowing, so far,
nas been all that could be desired. Of course as beon all that coode depend upon the future.
muive will stive
Live stock has been penerally healthy, and sivapidy increasing in numbers. Fat shoep ame period of last year. There is much less variation in the price of beof. The ques
tion is at present a very difficult and unpleas. ant one for the farmer, but must ultimately be governed by the inexorabbe law of supply
and demand. No doubt the present difiti. and demand. No doubt the present difí
and eulty and metus to the use of labor saving ma. chines, for which thero is abundant boopeling
agriculture. The agitation now exciting agriculture. The agitation now exicher
agriculturists on various questions indicates improvements, good, I hope, for agriouturr
and for the country at lange.-F. F. Mechi

> Agricultural produrss rxpor CANADA IN I

Of domestio animals and their produote Of this sum butter brought $\$ 2,806,979$
Chese brought $82,280,412$. Bacon and han brought $\$ 2,323,299$ into the country. Of the produce of the field, the exporta
tion amounted to co close upon fifteen millio
 $82,956,106$. Flour brought $82,90,454$, , and
wheat brought $86,023,876$ into the country Of these
or
purely agricultural products




 against 15,962 bls. and of wheat,
808 bush, ${ }^{\text {as }}$ ag agzinst 356,576 bush,

Prize Essay
to keep eggs over winter.
Whatever excludes the air prevents the
 palm of the left hand and turn the egg round
 in an oven (be sure you have the bran wrell
died, or it will rust). Then pack them rith the small ends down, a layer of bran
 milk and curd of n new laid egg for at least
eight or ten months, any iol will do, but
silt buter never becomes rancid, and a very salt butter never becomes rancid, and a very
small cuantity of butter will do a very large small quantity of butter will do a very largo
quantity of egss. To insure freshnoss I rub
.
 pack when there is a sunficiont quantity.

Three other essays deserve special men-
Mrss. Wm. Church sapy the best way she
finds is to it take a pot or pail, or anythin finds is to " "take a pot or pail, or anything
convenient, put about an inch or two meal or any kind of bran (I generally take shorts from fionr -being a farmer's wifes
have it on hand in in put a layer of eggs

 shake to fill well between the eggg. This

 Sedtas ber. The whole serete lies in oarc-
fully selecting fresh eggs, packing on end, nd keeping the ai
ny coon place,
J. B., Strathnairn, says
"I take a tub of any size and put a layer common salt about an inch ieep in the
bottom. Then groase the egg with butter, and place them in the salt with the small
end dow, som ond down, so that they will not touch the
wood of the tub nor each other; then fill the yacancies with salt and cover tnem again
bout an bout an inch deep, as before; then place anternately till the tub is filled; ;hen cover the they will top with salt, and have keptegss in this manner
not freezoterner till April as good as frosh
irom September from Septembor till April, as goon as iresh
eggs. The grease on the ehell keeps the salt
 fresh, while the saving, qualitites of the sal
keep them from becoming putrid
This re-


Emily Audinwood, Stanstead Plains, P.Q. says:
Ih have tried several experiments, but fin none to annwer so well ase aers, and found
Ihave kept tegg for two yeand
Two lbs tham perfectlyg good when ued. Two ibs
coares ealt boiled ten minutes in one gallon rain water; pour off into an a arthen jar.When nearly cold, stir in five tablespoons qualk-lime; let it tetand till next day; then
putin the egga and keep them tightly covered put in the eggs and ke,
until wanted for use.

## Provincial Prizes.

abdiel g. deadman vg. the board of agriculture.
hould products or men carry off the prizra?
Mr. Smart, of Hainilton, for defendants; . Meredith, London, for plaintiff. Die ion Court, Delaware.
At the last Provincial Extibition, Mr. Abdiel C. Deadman, of Delaware, was warieded the znd prize for the indes. The Committee on Hortculture, at the suggestion of some party, reversed the decision and awarded
the 2nd prize in that class to anwithout a prize. The prize ticket had re-
-
 last day ord he
man proved by that there were no just grounds for the jedgeses.
Mr.
Mr
been improperly treated, brought an action to recoorer the prize taken from him ; he
gained the case. The Board appealed for gained the case.
a new trial, hoping to come out better next time.
next The Rev'd Mr. Burnett was the person
The who had altered the award of the judges, council in this matter. He attended both the suits. This worthy stated before the Mr. Deadman's a apples were incorrectly named-that one was named the pear apple. This theo thrown him out of the
sufficient to have
 remarks before the Board, he also swore
that he had torn up Mr. Deadman's ticket on Thursday, and that he always destroyed the tickertese
Three witnesses distinctly swore that the ticket said to have been torn up on Thurs, day was remaiining on Mr. Deadman's
apples on Friday. Mr. Burnett also swore apples on Frialy. been given in aggainst that a protest had been given in agains
the award of the judges; the Secretary to the Board had the other protests that had been given in, but had not this one
nor did he remember having seen it. nor did he remember having seen it. had taken his ticket home, which Mr Burnett said had been destroyed. It has been our impression that the Board of Agriculture should consist o
men elected by farmers.
His Reverence men obtained a seat at that Board without the voice of the farmers placing him
there. Whatever may have been his there. Whatever may have been his
motive in trying to take the prize from Mr. Deadman is unknown to us. Many other fruit growers have been greatly annoyed by the withholding of the prizeet
that had been 'awarded to them, and felt they have been dishonorably dealt with. But this case may give the public a littors have said that because of tne injustice done them they would exhibit no more. In the above case the jury gave a verdict
for Mr. Deadman. The Buard has alrealy paid one prize of $\$ 8$ to another extibitor; $\$ 8$ also; the expenses, we presume, will come to \$50. It was not for the value of \$8 that Mr. Deadman brought this action, but to try and put a check to this prac-
tice, as many western fruit growers have tite, as many western fruilt
been much annoyed by it.

## Reciprocity.

It is said that there is a probability of a the Dominityn of Canala and the United
thates, to comprehend the following articles:
State 1 . The waiver of the money compenaated
the Unitad States for the fisheries under the Washington Treaty
Erie to Montreal, shall be enlargell within Erie to Montral,
three years, at the cost of Canada, so as
 llepth eq eq
harbors.
3. That during the continuance of the
treaty, all the Canadian canals, aunt the
Whit Whitehall, saulte Stan . Marie, and Lake St Clair Canal, shall be open to the vessels and
boats of both countries on the same condi tions and terms.
 r. That the navigation of the St. Clat lots sauntre maintained at the expense o
beree theres, in proportion to their com. 6. That the protucts of the farm, forest,

mplements, , manutactures of iron and steel,
and of wood, mineral oils, salt, and a few and or wood, mineral oils, salt, and a few
othher artices. There may bother things
which the contracting parties may consider which the contracting parties may consider
proper and just on inclue in this traty, and
vhich would be oqnally rhich would be equally satisfactory

Prize Essay
The essay for which we will award the prize
this month will be, "The Rearing of Calves Without Milk." Essays must be in by the
glgriulthual Items.
The Mark Lane Express of a rocent date
says that the weather of the past week, expected; but this further check of vegetation
 advancing, and we here of nothing adverse
as respecte the crops on the ground, and as respecte the orrop on the ergund, and
farmers seem as likely to be lucky with their spring time as they were in the antumn. In some localities rain begins to be wanted.
holiday week seldom shows any adrance in
 Chat Way, the late reduction of values having
been justified by the foreign arrivals; while
 f 1873 , and wo here from English factor
 armers, It is early yet to exhibit signs on
xhaustion ; but if we had little more than half a crop, we eortainly ought to begin to
heel it.
If the small farmers are gettin leared out, notwithatandingtherliberal a dii
received from abroad, and we are left to the conived Aroun airon, and we are left to the
consideration of those who have the powe
 are as likely to be telow the marl as abo 1 ne month forward, there may yet be
harp demand for whent, at atvanced rates arp demand for whent,
as we near the gatherings.
new gystem of rotato culture. At a recent moeting of the Society of Arts
in
England, Mr. Shirley Hibberl, a distinguishol authorityty in all rural affais, read a
 las been led to alopt, as the result of conhabitit of this inportantrans esulent, and long
contiuned
and giving the substauce of his views, we shall
omit altogether a somewhat lengthy dis cassion of the various theories which have preventinget he potato disease, the continued
prevalence of which in
Britain is the prevalence of which in Britain is the great
difficulty farmers and gardeners have to combat in their endeavors to grow the
potato. Suffice it to say, that Mr r. Hibberd traces the disease to excess of moisture ani
lack of heat. He supports his hypothesis bya description of the soil and climate of
those regions where the plant tis found grow those regions where the plant is found grow
ing in a state of nature, and also by a com ing in a state or nature, and ala oh a com-
parison or season, going to how that the
best crops have uniformly been obtained in those years when dry, hot weather has most
prevailect; and the poorest ones when there prevalen, anpecial humidity of atmosphere,
has ben
and a o ow waverage of summer heat.
He re and a aow average or summer heat. nate
fers to the eatet that the potato is a nate or
the warm, temperate regions of the Western continent, and that it is never fonnd growing
will, in cither a sulb-arctic or a tropical cli mate.
how to promote frutruliness The Pratirie Farmor says:-: "When it is
desirable to throw a tree or an orchard into fruiting, because of wood growth being very rigorous, wathout fruit-buls, remedirs may
be practisel. Ceasing cultivation and sow ing the ground to clover or rrasso often works
well but must not be continued too lon Root.-pruning, hacking the tress, and pincl
ing or shortening in the youns shoots havi ing or shortening in the younk, shoots hav
the same fefeet, but practicaly, we should
refer ceasing cultivation prefer eeasing cultivation and seeding down.
Severe sammer pruning would perhaps pro
duce such result duce such results, , but it is too severe upon
the vitality of the tree
That all often but earier than others."
reastre as a manvrn. A correspondent of the Main Farmer what plaster, as it is called by chemists, sulphate of lime, is, on some soils, an effici-1.
ent and chea, manee while seems to be of little or no value, as no difference can be detected in the crops following
its use. Now in order to tell the soil on which it will pay to use it, is a question
that we shall have to decide for ourselves
 by looking at the soil where it will pay to
use it, or where it will not pay. Therefore
 the fill, and the answer that you may get
till likely be a true one. After you have will likely be a true one. An ar you be well
found where
to say where that pay, that if the crops are all consumed to say here that if the crops are ala consumed
anon the farm, there neen be no fears ou ruining your farn!
dicious manner.
Hkavy.-To give our farmer friends some
idea of what can be done in the way of raising good stock, provided they take the
troubl we append the following weights of a lot of
stock whioh Col. Wm. Starratt had weighed on the ecales in this town on Monday last:-
1 bull, 22 months old, weighed 1520 bss.
 yearing heirer, ses ths. a hey ard gaid by
competent judges to be a splendid lot ot

Thi Wrartirg and prig Crops.- - During
the latter part of last week and beginning of this, we were visited with light thowers that one en moch hood to the grown crops; but
the weather keps rather too cold for much growth, but there is no reason for complaint st far as the spring corops are concerriec, as
they have been well put in, and are coming ap evenly over the ground. The weather
having been flue for a long time, $a$ great reaath of tand has been put under crop, be-
sides 8 re-sown.-Clinton New Eva.
pans vzrsus cans.

A correspondent in the Rural New Yorker,
seeing it that paper $a$ arat
statement
which seems to give the preference to slallow set-
 perime.
Ows.
This
This trial was made within the frist ten days of August,nnd designed to be a thorough
temet of the manner of setting milk. The morning milk was usea each time, the mike expperiment, $136 \%$ lbs. in the doep can, $17 \%$.
inches and $14 \frac{1}{2}$ bs. in the pan 3 inches deep. The water was staken from the same tank to
keep the temperature of the milk standing at adout $58 \circ$; ;t souring in the pans at 40 hours, and not changing in the can till 48
hours.
The cream was churned as
 of ozer a oond of litter rrom 241 lis. 6 or,
of milk, and the can a pound of butter from
of of milk, and
22 blis. 10 ozt
The
The next experiment gave precisely the
same result. The third experiment the pan same result. The third experiment, the pal
had 2 lles. more milk than the can, and the aame amount of Jutter. These gentlemen and are fully satisfied that the best manner of setting the milk is in deep cans, and that
the temperature of the milk may be kept as wanted.
TuF Chopt- Since the last fall of raiu
matters in the country have become mor cheorful. Grass grows greener and greener
nd the prospects for the meadows hav nd the prospects
vastly improvel. There are now kood chances for the spring crops, and most
he seel is sown. Fall wheat and the seed is sown. Fall wheat and cover
though, are wo foilures in most places er the will i, a loss to some farmers un

There is a way of preventing the gad-
aying its egrs in the backs of cattle bat Yy laying its egss in the eack durinat the bay
keeping the cattle in stablea during the days in Augus or septetmer, which is the sea.

son when the fly lays its egbs. | dark |
| :---: |
| form |
| The |
| The |

seos has notres

 ${ }^{\mathrm{N}} \mathrm{No}$, in their construction.
 Tihd number of humble bees in thit ootuntry can that bo ? Because the numbor of bees iif
 If the whole germs of humble-bees became
extioct, or very rare, the heartsease and red


 not visiot this flio wer. Humble beea alone vinit
red dolover, as other bees cannot reach the In a word--no bees, no sed ; no need no in-
 the seed.
Nearly all ourrorohidaceousplants aboolutely Foguire the visits of inneotate to remove their Tieldenty heade of upprotected Dutch olovern
 and the
 The rain of the past fow days has had an veviivying effect upon garden and firm, sugpension of operations. The unnsual
length of the winter meanos had rotarded vegetation, and the frost still romained deep
in the earth, but the late warm rain will
 fanadian summer.
-One poultry fancier oured chicken oholora by feeding every other day for two woekg
bran mash, in whioh was alberal doeo of
bre
 an out of the way spot. Ho sought hor,
ave her a whole pepper in does
 apat, kept her
few doyshe
fare of hersell.
-So long as dairymen travel through tho country, pick out the best milkers, and keep
them for milk till they grow old, without raising a single calf, no improve.
milking stock need be expected.

## Notice.

We expect to leave for a trip to Europe, mailed to you. We hope to gain information regarding seeds, stok, and other sabr.
jects that will be of value to our readers. Sur clerk and assistants will be able to ith the office. During our absence, if any. uing of a gipecial nature that requires our
personal attention is needed., it might remain ntil our return, or be marked on the envelope, ror w. Wel later par of of Jlly, any
return about the
communications addressed to us up to middle communications addressed to us up to middle
of June will find us by directing thus $-W$. Wkib, Tenterdden, Kent, England. Place a 6 cent tatamp on your letter.

The present season will be a busy one for Sarmers, the Grange movement will progress organization will then be at work. We regret that we shall not be able to attend
gatherings for some weeks on account of athence, however, if the exinting granngers
agree in a suitable basis before our return we shall be pleased to io id them in anything Ior the advancement of any measure or the
progress of the farmers.
We offer to nid
 Costabish our Canadian organization.

##  <br> TOCK \& DAIRY <br> yorkshire ant and whitrs

The Practical Farmer says:- One of our
correspendents and subscribers in Montgomery county enquires of ns about the propriety of crossing the pure Yorkshire swine with
our white Chesters. Since our first sight of our white Chesters. Since our first sight of
the Yorkshire, we felt satistied that was tars the change of blood that the White Ches. oers would be improved by, and we think in
kilful hands a greatly improved breed can established between thene, making bey yond competition a farmer's hog. Their main
points are not much at variance; the cross, n our opinion, will result in a better animal
than either is at present. than either is at presen
tre english cherse market At a recent meeting of the Northwestern
airymen's Association, C. H. Wilder, of Dairymen's Association, C. H. Wilder, of
Evansville, Wis. Who has just returned from
Wngland, where he went to dispose England, where he went to dispose of a a
large lot of cheese, addressed the meeting.
He seid Engand furnishes the best market arge lot of cheese, addressed the meeting.
He said England furnishes the best market
or cheese in the world. He went there to or cheese in the world. He went there to
find out what kindjof cheesemen wanted, who find out what kind, of cheesemen wanbed, woo
were the best men to sell them, what were
the best routes, and what would be the the best routes, and what would be the
freight. He visited sereral great market
towns. He found the standard to be the owns. He found the standard to be the ame. All wanted a mild cheese, is inches maller cheese of that proportion as to size,
would not be objectionable. The manner of veighing cheese, the standard of hundred weight, was different in these markets, as
were the terms on which they are sold Cheese is always sold by the hundred weight, which in some markets is 120 pounds, and in thers 112 pounds. In some, five or six one, and im still others one pound is thrown in at every weighing. Many of the cheese ealers have exce reputations. There are four routes to England, by Montreal,
Boston, New York and Philadelphia, by each of which there need be but one tran shipment to Liverpool. The texture of
cheese for the English market should be close and firm, and the flavor mild. High color is not required. In some markets uncolored
cheose sold best.
Cheese should be shipped when tolerably new
ferd for sheep here and in england. The Climate in Central New-York is such pure, different from what they do in England. and their foed tselter not confined to tornips and ilcake, as it is in England, and the conse quence is that the sheep undergo a "climatic
change." Blacklock, that most practical observer on the sheep husbandry, says: "No used food, an ancient locality, a peculiarity of clime and season, and the instinctive habits that have beer long nurtured in them, with-
out both it and its progeny suffering from the out both it and its progeny suffering from the
change." I have found that these observations are correct in regard to Lincoln sheep. For the frsst wo years after importation, 1 have done. This did not, in my opinion, proceed from the change of food as much as from the system of wintering uuder cover. eise as they had been accustomed to in the wweet turnips or mangolds in the State of weet turnips or mangolds in the state of
New- York are as good food for sheep in cold winter weather as oil meal, peas and oats.
In my judgement, peas are the best food for
breeding ewes, in the state of and Canada in cold weather, of any singld
 of any kindof sheep.-The C'ultivator mut
cherse hints
Weang York Merchant ant Butletin, in peaking of cheese prospects, says: home and export trade, and the market, home and export trade, and the market, supply has been steadily reduced, while th
fow arrivals of new have been wanted at fow arrivals of new have been wanted at
full prices for full cream, while skims are not foll prices for full cream, while skims are not
wanted, except at low prices. Shippers are
in want of good new, and paid 16 anc for full
cream, while they do not want skims at all and dairymen would find it to their inter
and to make the former, as they will not only
find much more ready sale at full prices during the spring, but they will not hurt the re covered at their cost later in the season, be sides depressing the English markets as well as this by unsaleable goods which no one
wants, while good stock will meet ready sale wants, while good stock will meet ready sale
and keep the market clean, and sustain prices
at a much higher at a much higher figure. Not only are our
markets, but the European, becoming more mard more in favor of the besto stock; and
ande there is a much more limited outline
while or poor stock there is never a glut of the
best stock; nor so low prices for it with poor, as to render it unprofitable to make the better goods.
There is praetically no limit to the con-
sumption, and hence to the production of
fime fine goods; for a market was never known
to be glutted with these goods, but always with undesirable stock, which always has
an effect to depress any market. If our but an effect to depress any market. If our but.
ter and cheese dairymen will keep this in
mind they will find the credit side of their edgers show a very satisfactory result at
the close of the season. The remarkable progress of the West in the past year should
stimulate ourStatedairymen torrenewedefforts o maintain their pre-eminence in these pro-
ductions; for if they are content to fall into ruts of their past achievements, instead of
keeping to the front of progress in the dair nterests, the West, with her vigor and en
terprise, will soon not overtake but distance them, and carry away the prestige of the Empire State to the Western lake-bounding
States, which are adapted to the production
of a fine butter and cheese.

Garder SMall cherse
Gardner B. Weeks gives the Country Gen
leman an account of a recent visit to severa Chautaugua country cheese factories. AA
three of these factories considerable attention hree of hese factories considerable attention
has been given to making mall cheese. One
of them was making no other kind than those of them was making no other kind than those
ten inches in diameter and weighing nearly
wenty pounds. Ofthese about 800 were on twenty pounds. Ofthese about 800 were on
hand, and their quality was sighly commended Two cents a pound over common price are ob-
tained for these. At the factory there were about twenty pounds and 1,000 seven inche about twenty pounds and elight peounds each.
in diameter and weighing
The latter were made for a firm in New York.
value of corn for hogs.
A writer in the Cincinnatti Cazette gives the
following account of the increased profit of feeding corn on the farm to swine inslead o
selling the grain in market.
His experienc
as follows :
In August, 187 I bought thirty-seven hea
on hogssat $\$ 4$ per cwt., the average weight be ng 126 liss. Cost of the lot, $\$ 186.48$. was. 270 ' lbs. or or a gain of frit lbe ave per er head.--
They ate twelve bushels of cors apiece. This, at twenty-five cents per bushel, would be thine
doliars. tened was, therefore, $\$ 267.48$. hog gold then fat
$\$ 4$ per cwt., amounting to $\$ 399.60$. in favor of feeding, \$101.12. By feeding my
corn it brought me nearly forty-eight cents per
bushel.

A form of the potato disease which has pre
vailed for several seas nns in certain depar ments of Frence, exhibits int ithelf in a a peculiar
weakness of growth in the shoots which out teakness or growth in the shoots, which attain
their usual length but are wanting in thick-
ness. The first leaves are also defective, bu the tubers do not appear to be diseased no affected in quality. A fungus is assigned a
the cause, but further investigation is neede on this point.

 Although fat cattle are atiow of travel:
long distances on foot, still exery travell ang distances on foot, still every man has n
a railway station at his dor, and fat catt
must, therefore, be travelled ingt the farm yare be before they can be put put
the railway wagkons. The distance may comparatively short or it may be several mile
but in any case thi cattle should be prepare
before hand for the journey. From negle of this precaution we have frenuently seen
batt horselseriously injured withinhalf after leaving the stalls; so withinh inf anhour
fact, as to be unable to pro mured, in ing it neccessary to sell them at heme und
values

When fat cattle are taken out of stalls
which they have been tied up for some month
they get excited and set of racing àong the
 ing so long in the house,
to endure travelling on a hard road, and the Boon get knocked up if good care has not bee
taken of them.
In former times, when fat stall-fed cattle ha to travel on foot seeveral days before they reached
the market, special preparation was essential,
and no prudent man would neglect it; but s snce
 preeaution seems to be very much overlooked
Hence, fat cattle reach the railway station
where they are to be trucked in an excited, fever ish state, and while steaming with perspiration
and hitak bing br their mad racing along th and shaking by their mad racing along the
roand with a number of equal by exaited driver
ohouting at their heel shouting at their heels, are packed as closely
as they can stand into trucks, and left to t tand conheling per haps for several hours before the
trucks are attached to the engine; or they are despatched at ance, when the cooling process
proceeds more rapidy, but followed by a chill
which is oertainly not conducive to their healith or to their comport.
Some days before it is intended to send fat
cattle away from the farm-yard they should b et out for an hour into a well-littered cout
yard or well feneed padock and allowed $t$ take exercise, being carefully watched all the
time, lest any iniury should befall them. Nex
day or the day after, the same course day or the day after, the same course shoul
be repeated, and they may then be left out gomewhat longer than the first; and by the
third or fourth day they will be quite stead
and real
cheesemaking in the west The Monroe (Wis.) Seritinel gives some in teresting statistics in regard to the extent
the cheese manufacture of Green county, in
that state. There are ten factories in the that state. There are ten factories in the
county, and their products for 1873 (includ ounty, and their prodncts for 1873 (incluc up as follows:-Total Swiss cheese...
$5: 34,000 \mathrm{lbs}$
$152,000 \mathrm{lbs}$
...... $450,000 \mathrm{lbs}$
It is estimated that the..... $1,936,000 \mathrm{lbs}$ consumed in this product of the Green
ounty cheese factories, and the Sentinel says-""Sieveral new factories are now build ing, and those that have been already in
operation, have increased their capacity and
number of cows full twenty-five per cent. for this year's business."
Upon this the Chicago Inter-Ocean re
marks:-"While the old country is deeply exercised over the question of the rates of
transportation on western products to the eaboard, the Green county farmers are partly having it produced into more valuable an less bulky substances. A great victory over
transportation is achieved by the farmer who converts fifty-six pounds of corn into three
ounds of cheese. The farmer who mild pounds of cheese. The farmer who milk
his cows several years and converts the lac eal fluid into cheese, gets more money fo
hem than the farmer who sends his thre year old cattle to market for beef, and, int
the bargain, not only still has his cows, but possesses a small herd of young cattle for thy
nuture. This is what the Green county Visconsin, farmers are doing to circumver
hie transportation companies," transportation com

For the last few lays, and especially on baturday, a curious sight lias Leen seen at the
bottom of Mount Pleasant, opposite the
Adelphi Hotel. There 1ave been crowd
隹 around the wholesa'e provision shop of Mr.
Wm. Bitan engag it inspecting the cut-
ting up of sides \& prime beef, and aiterwards in
On unchasing piecess for consumption.
On it was found that Mr. Britain had received by the Allan steamer "CCaspian,",
which arrived in liverpool last week, a very considerable consignment of fresh Canadian
eef, which was being disposed of at the mod rate prices of from 6 d to 7 d per pound for the
prime e part. This beef, amounting to twelve
Thns, formed tons, conmedingotherwise of six tons of salt
ada, consing ond
beef, one and a half tons of Foultry (geese and urkeys, and a hat ton of mutton. The
whole had been caref flly preked in rye straw,
which has the special quality of absorbing any noisture from the meat, and arrived in firstrate condtion. tunity of testing a piece of sith sioin, which was
in all respects equal to ordinary English sirin al respects equal to ordinary English sir
loin at eleven pence and oue ehiling per rlb.--
The poultry
consignment was forwarded to London, where it has realized good grorices
The packing of beef in this particular
ter will, of cours, The packing of beef in this particular man.
ner will, of course, only be available during




 haterul housekeepers hang up their meat at
his season of the year, for a time as long as
hat occupied by an Atlantic voyare to secur hat occupied by an Atlantic voyage, to secure
he tenderness which is so great a desideratum
t Eng ish dinner tables. That the Canadian resh beef is, at the same time, tender and
weet, ian be proved by experiment.-[Liver-
pool paper, 12th Feb.] N. E, Dayton, Ohio writing to the Live udicious y soil cows on a farm. There is no
other way by which so much aced on ag ven number of acres ${ }^{\text {When }}$ When you you
have put yurur land in proper condition, a cow ne acre for winter. Even tetter than and this.
nas been done. Starting this late, prepare the
round well, and sow one-eighth of an sere of ats thickly as early as you canchn of an or scre of three
eeks a atter sow the same amount of land to outs
fr late cutting. Then prepare the ground nd sow on four acres of corn for each cow.
This will probably leave a surplus for winter
feoding.

> rearing stock.

One thing must be borne in mind, that to One thing must be borne in mind, that to
be successful, a steady course must be pur-
sued and that course onward-towards sued and that course onward- towards
perfection. Will not say to perfection,
for that will not be attained by any person in his lifetime. The color and tyle of the herd should be a matter of study, dard of excellence, not only in color and
form, but also of health and hardihood; $a$ robust and vigorous constitution should, be one prominent object sought in establishing
and continuing a herd for profit, not only for the present but also for the coming gen-
eration, and so well should the male animal be selected, that no glaring lefects should
be disclosed in their produce, especially after the herd has been started on a permanent aasis, for any special purpose. If the pro-
prietor of such a herd should wish to change
his breeding, methinks he had better dis his breeding, methinks he had better dis-
pose of his herd to those who wish to keep pose of his herd to those who wish to keep
on in the line in which they were started,
nd the nd then begin anew for another purpose, if
that was thought more desirable to his future prosperity and capabilities of his farm, etc.
In this paper I have aidi nothing of the dif-
ferent breeds of cattle, or their adoption for erent breeds of cattle, or their adoption for
secial purposes, preferring each farmer pectial purposes, preferring each farmer
should make lis own selection, then breed
with with care
due tim
Farmer.
 Butter is actually brought from France and
Bold by the New York dealers. thus because there is an actual scarcity in the
market of good butter put up in attractive shape for sinall consumers. When we know
that one dairyman gets \$1.15 a pound for his
product, another $\$ 1$, and anotber 75 cents, the year round, at his dairy door, it is easily seen
yhat it will pay to bring butter across the
ocean from Yrance, if it is only good and ocean from France, if it is only, goosod and
shapely enough to suit the fastidious pur-
chasers who will have something nice whatever it may cost.
All this butt
All this butter is made from choice cows,
choicely fed on clean sweet food; the miking
is done in the cleanest manner is done in the cleanest manner. The milkin
handled as cerefull as thongh it was nectar
he cream is churned with the handled as carefully as though it was nectar
the cream is churned with the utmost care by
clock and thermometer; the butter is worke clock and thermometer; the butter is worke
with skill, and is made with skill, and is made up in shapely cakes
which do not revuire to be eut whem brought
to the tahle. Compare, then, this cake hard golden yellow, swect. fragrant, and tempting
to all the senses with an unsighty chunk
which is cut out of a greasy keg, and smells of which is cut out of a areasy keg, and smeniso
old age and ra cidity, and is made from cow
filthily lodged and carelessly milked, and fhithily lodged and carelessly milked, and in
churned anybow, and the difference is amply
accounted for. $N . Y$. $T$ ribune.

Rats can be banished by covering the floor caustic potach. When the rats walk on moisis
makest their feet sore. These they lick with
mase their tongues, which makes their mouths sore
and the resuit is that they not only shun thi
lucality, but appear to tell locality, but appear to tell all the neighboring
rats amout it, and eventually the house is en
irely abandoned rats about it, and eventuall
irely abandoned by them.observedince dhe
omer dis evrue of thill morehe summe
en feet in
ivers havOn the
On has hgerly the

FALUE of TREES.
Forest timber and oll vegetable productions
are active absorbents of radiant heat, but do are active absorbents of radiant heat, but do
not readily reflect it. This being th. "ase, it
is easily understood how, in the vicinity of a is easily understood how, in the vicinity of a
wooded country, the temperature is more moderate in summer, and for the same reason the that plants are furnisher with innumerable oreathing pores, not only on the uvder surface
of leaves, but likeewise in the green bask of the
stems and branches. It has been computed stems and branches. It has been computed pores exist to every quare inch of surface, and
from them a continued process of respiration
is going on.
This emitted veetable breath is going on. This emitted vegetable breath phere to a considerable extent. The moisture
thus arising, though imperceptible, graduall condenses as it reaches a cooler atmosphere, and
in time descends to the earth in the form of dew, rain, snow, \&c.
When the trees
moved, a serious decline in the supply of water is observed. This is the case in many parts of the New England States and also in Canada.
Since the forests of the Ohio Valley have become decimated, the volume of water in that
river is evidently diminishing and the same rue of the Hudson and other navigable rivers.
In the Old World this diminution of water is still more markee. . The Eibe, in 1837 , showe en feet in half a century. Some considerable
ivers have entirely disappeared, while many ${ }_{0}$ ' hers are shrunken to little streams. On the other hand, restoring trees by plant-
ing has had the most beneficial effects. For merly there were but five or six days of rain during the year in the Delta of Lo eer Egypt,
but since Mahomet Ali planted some twenty million trees, the number has increased to be-
tween forty and fifty. The vicinity of the
the ground became saturated with water, trees,
bushes and pl ints sprung up, and with, the ap-
pearance of vesetation came also a chance of pearance of vegetation came also a change of
climate. Another example is shown in Utah.
The conversion of that desert into che conversion by the industrious Mormons, has
raised the Salt Lake seven feet above its for mer level--New Dominion Monthly.

## ras.

Those of our readers who are preparing to
compete for the Esseays on Orchard Culture, propostd a few weeks since, mi hit derive some
facts worth making a note of by a trip up the Annapolis river next June.
the benefit of the following
soil explett trees will grow and thrive on on on one oondition be com.
oco.
plied with, that is, if the land receive annual cultivation. To obtain large crops of extra
con that fine fruit, extra cultivation is necessary. N
one should be deterred from planting apple trees hecause his land is poor; with good cul
ture he will succeed.
.${ }^{\text {W }}$ What is understond by only the art of knowing, and when and for what purpose to prune, but growing sime
kind of root crots between the rows. The manuring and culture that these crops require
keep the soil in good condition, and will gu far
in defraying the expense of the orchard. On in defraying the expense of the or hard.
dry soin fruit treese are much improved by a
dressing composed of peat mud. ashes and manure from the harn cellar. Aud ashes and lad
of this compost placed about the root of each of this compont placed about the root of each
tree in the fall io very effective. The scalby
aphis or bark louse can be removed by a-wash composed of one aud a half pound fof crude of June. This is as strong as young trees will
bear without inury," Some Fruit Trces.
There passod through the Custom Hous
at Horton, Iast spring, six thousand, seven
hundred and some odit trees; these with the hundred and some odid trees; these with the
quantity distributed from the nurseries of Ber
wick and Gaspereaux will exceed ten thousand This broad-casts scattering of trees has bee going on or some years, and there is ever
1rospect of an increase of the quantity." $-N$
fla $\operatorname{cts}$ in sleeping roons.
The question whether or not plants are un
Wholesome in a fleeping room lhas called fort
a curious diversity of on that by day they emit oxysen, and ara there fore eminently healthful, but it is grenerall
believed that ty nitht they give out carboni
acid and are consent


that the carhonic acid amounted on the aver-
age to 1.30 to 10,000 parts.
Hame then did the
game just bet ame just before sunnise. and found the aver-
age to be 3.94, thus, he thinks, clearly demonage to be 3.94, thus, he thinks, clearly demon-
strating that the accumulatoo oo onoxious gas
was greater in darkness than in inaylight. At was greater in darkness than in daylight. At
the same time, however, out door air conte ins four parts of acrobovicer, acid in 10,000. At the
worst, therefore, the air in the green-house worst, therefore, the air in the green-house,
was actually better than "pure country air,"
pnd the pnd the emission of carbonic acid gas was
parely sufficient to counterbalance the produc-
ion of tion of oxygen during daylight.
Professor Kedzie concludes ing the facts of the canse wherese 6,000, plantas be-
colleted,
be injuri, dozen or two in a bedroom cannot conected, ad
be ijuurious.
the calla lily.
We do not know or a more beantiful winter
blooming plant thant the old-fashioned Calla
Lily. It succeeds Lily. It succeeds sc well in the window, need-
ing very little care, excepting an abundance of
water ing very nittle care, excepting an abundance
water and an occaioional dusting of the leaves,
that we recommend every lover of thowers to that we recommend every lover of flowers to
try it.
very sensible writer in a a Detroit paper gives a try it. A writer in a Detroit paper gives a
very sensible summing up of the requisite
method of culture:
i. After bloming L. After
thoroughly.
2. Keep
entirel entirely during the theasoon of frem drying out
3. Start
water Start swly in light, rich soil, with little water at first, increasign as growth increases.
4til wlunge, if possible, in stagnant water
until wanted until wanted for the house, or there is danger
of frost. of frost.
5. Re-pot in rich mucky soil.
6. Give plenty of water whil are growing and blooming. while the
7. Give plenty of light and sunshine.
the fruit garden.
The apple is our standard fruit, and may al-
ways be relied on with reasonible wayt care is $\mathrm{S}^{\text {rod }}$ food. Some talk about tho
first
rich noil rich siol. We never saw the soil too rich for
the apple. Whhere any trouble arites in apple
culture, it will be safe to attribute it to culture. it will be safe to to attribute it to other
causes than rich soil. Ro ts are often forced
by peculin mid causes than rich soil. Ro to are often forced
by peculiar modesof culture to send their shoots
down deep into the ground fo for down deep into the ground for food, from in-
jury hy modes of surface working, which injure jury hy modes of surface working, which injure
the surface roots. The soil 1 n these deep
rooted instances may be rich but rooted instances may be rich, but the want o
atmospheric influence
"couse atmospheric influence prevents the proper
"cooking" of the food, and then we have what
is known as unripe wood. Some writers tell us
is is known as unripe wood. Some writers tell us
that in these rich soils we can cure the evil by
putting the trees "in grass." This simply
the means that the fibrous roots can then be neaa
the eurface undisturbed, where they ought al
ways to be ways to be.
We have
We hav no objection to trees growing in
grass, but it will lead to misfortune if people
do it beetin dows, but it will lead to misfortune if people
do ma'ter how rich the the soil may boil is too too rich.
No maple orchard, if it is put in grass, always to o rress
when you have the chance to do it cheaply.
It does not require cos It dots not require expensivé manureäto top
dress an apple orchard. Even ditch clpan dress an apple orchard. Gven ditch chane
ings makees grow beatifully when spread
under trees, the roots of which are near the under tree
sufface.
Kitchen Kor aphen ashes make excellent top dressing
ple trees tres when put close under the ap ple trees as far, or nearly, as the root exe extend
When there is grass to mow, ashes interfer with the edge of the scytbe. Asple trees ar
often tatarved in other ways than by neglect
manure often sta
manure
The apple borer leads to starvation oftener
than poor ooil. The supply of food is cut of the
by every move the borer makes, They work by every move the borer makes. They work
at the surface of the ground. Look for them
now. If yout now. If you have no time, set the boys and
girls Co work. Say they shall have no apple
for Christmas or birth-day present if thy for Christas or birth-day present if they do
not. However get he borers
if even by wire and jack-know
jacke. If not soo

 will keetl them out; some say it will not, hut
it will. There is no doubt about it. On
peppering will latt three years The peppering will last three years. The weakenin
of thit tree by the borer is why the fruit drop
off in somany cases and is small a nd
dcrubb off in so many cases, and is small and scrubby
in others. With these cases attended to, there
will be little left to worry one but the codling
and fet this art is foumed on $n$ a vary few wimple
prindiples










potato tubers.



 practioe to the contrary. We ehhould think,
however, that thewer, that the enormous yoild secured from
the various new sorts within the past few years and frequently referred to in the argricultural
journals, all of which have been produced from journale, all
cut seed, would beyin to awaken the stickler
for who For whole sed, and set th
ments in this direction.
No one will suppose for a moment the yields
reported in the case of the Bliss prizes for the reported in the case of the Bliss prizes for the
Early Verront and Compton Surprise could
have been secured by planting whole tubers. have been secured by planting whole tubers.are best for seed, should look at these figures
$5112,607,437$ and 456 pounds, raised by differ ent men in different localities, each having but
one pound for seed. We think these facts and figures are worth a dozen theories, a
worth remembering at planting time.

Onchaid grass of coorspoor.
 Chard Crass, For pasture Orohard d rased
 pasture as two of clover, and cattle will fat en faster on it. A very grave objection to
clover, and one which I have never known to happen with Orchard Grass, is that cattle
frequently eat too muoh of it and some requently eat too muoh of it, and some
times die from the effects thereof. For hay mes die from the effects thereof. For hay,
there is nothing that I know of that can as much by about one-third, and I have alclover hay, whereas, I have never had enough
Orchard Grass hay to supply the dill Orchard Grass hay to supply the demand,
the Orchard Grass al ways seling for from 10 to 20 cents per 100 pounds more than the By cutting Orchard Grass twice, it wil
al ways yield enough more than timothy t aways yiell enough more than timothy
pay you handsomely for your trouble, and Then leave the land in better condition than the timothy. In sowing for hay, I prefer to
mix a little clover with the Orchard Grass. Not because I think the Orchard Grass does people imagine, luut because I think a mixturp of grasses will always make more hay,
tud I think the hay is relished more by stock when mixed.
Some veople go so far as to say that or-
chard (Grass of of very little account unless
it is mixed with nent on a piece of ground in which there
 two , whels of orchard Grass seed to the
acre, by itself, bbltained a fine set, and in
18731 Ifirst cut a fine crop of seed from it, and then cut two good crops of hay, after If you wish to raise secd, youl must sow
it by itself. Orcharl frass and timuthy iby itself. Orcharl grass and timothy
shoulh never 1,e sown together, as there is
hearly a month's difiterence in their time of nearly a month's difiterence in their time of
maturity. To sum up the whole an a few
worls, my coperience and olservation on

 with it the tirst yyar. Like many of our
best grastes, it takus two or three years to

A correspondent of the Live Stock Journal
writing writing on the subject of soiling as practiced
on the celebrated Beacon Farm, Long Island, says :-
One of
One of the most important products raised Grass. I have done my best, both by precept and example, for the past thirty years
or more, to induce my brother farmers to cultivate, this highly valuable grass much I regret to say with very little effect. Pray now go and see what Mr. Crozier is doing He has about 170 acres of it, and although
it is not growing on his best cultivated fields,
yet on the day 1 examined it, June 13th, it stood from thirty-seven to fifty inches high and would make from two to twe-and-anaps
tons of well cured hay per arce-perhaps
some of it may turn out three tons. Re collect, this is an uncommonly late season, age. For days previous, Mr. Crozier had been cutting this for soiling; most of what for hay two or three days afterwards. Cut Orchard Grass just as soon as it begins to
blossom, and it is nearly equal to the timothy bossom, and it is nearly equal to the timothy
and far superior to oryen as is left growing
grow the 2 d till a aportion of its seed ripens. On the 2 d
On
of August Mr Crezier wrote me as follows " What should I have done were it not at it my barns would have been compara. tively empty, like those of neighbors and
riends. Then what could I do with my tock; it is not fit for beef, and $I$ should not ave half hay enough to winter it. Now,
ith the Orchard "rass, I have fodder ough and to spare.
The great merit of Orchard Grass is that
it comes forward very early and rapidly, and gets its growth before any drouth common o our climate can affect it. Thus it ensures till July, and hay through the winter. By his time clover is ready to be cut; then fol. low oats and white vetches grown unmixed,
and then Indian corn as soon as tasseled. do not repeat the other crops grown by Mr. Crozier, as they are more uncommon among dd that this whole system of soiling can be enerally done would add millions to the the country.
fahmers visitina mach other. Better, but not a substitute for the inter-
hange of experience through the papers by Grmers, is the practice of visiting and talking and methods of doing business, and exchang. ing suggestions on the farm and stock manage-
ment and rela, ive to devices for facilitating

Scarcely any farmer will consider his time
ost who year to this method of acquiring information or there are some things farmers must learn Which no amount of newspaper teaching will
lecribe
nothing but ac ual observation will is too much neglected by farmers. Experience as taught us how profitable it is, how much it
aves in the way of experiments, and how
 hathods, never reach the public, because so few armers ever write them. It is, therefore,
rged here that no po si le investment of time an give grater compensation than that ex-
ended in exchanging visits with the best far-
nerł of a township or county. ners of a township or county.

Mind Below will le found a statement showing nates so clesely to a general averape th nates so clesely to a general average that
hippers hereabouts will find it a great conAs a general rule 29,000 pounds or 70 bar-
elds of salt, 70 of lime, 90 of flour, 50 of che
whiskey, 200 sacks of tlour, 6 cords of hard
wood, 7 corls of soot wood, 18 to 20 head
 1 tad of sheep, 6,001 feet of solid boards,
17,000 feet on siding, 13,000 feet of flooring,
$10,100)$ shingles, one-half less of hard lum. $10,(1)$ shingles, one-half less of hard lum,
ler, oue fourth less green lumber, one-tenth
less joists, scantling and all other large less joists, scantling and all other large
timber, 340 bushels of wheat, 360 of corr,
580 of oats, 400 of barley 360 of flax seed, 350 of apples, 360 of Irish potat
fushels of bran, form a car load.

## suc Aptaxy．

## Summer Management of Bees．

Tail Prize Essay．－BY A．c．ATtwood． In order to give directions about the sum mer management of bees intelligently，it wil viz，spring，summer and fall managemen I wish to be considered as addressing those
only who use the movable comb hive，from only fact that nearly all intelligent apiarian are now using them，or intend to do
shortly．In this enlightened age of the world I consider it a waste of strength to
pay respect any more to the old box hive pay respect any more
ony the same as wo now to the reaping hook and the
of the past．

1st－spring managemen After the bees have hade few good flys，
hoose a nioe wainm day in Apri，provide yourseifs wour bees are in，lift the frames an bees out of the hive，one frame after ant and if you see brood you may be sure they have a queen，
eggs，ten chances to one they are queenless，
if you see a lead colored mark or strea you see a lead colored mark or streak wide，and it feels soft to the touch Pr appear with your knife，and you will be sure to find the．fellow at either one end or the other．－ f the combs are net exactly straight，now take them from the dirty hive，place them in the clean one．Notice the amount of as near the side of the hive as possible，or
as far as you can from where the queen is now depositing her eggs． Aity hive to the olean ransferred from the side of the dirty hive well with a knife； have a tub of hot water ready，and give it a
good washing inside and outside；do not good washing inside and outsise，Then go
gpare hot water and ellow grease
to another hive and transfer as before，and so on until you get over your entire apiary．
Should any be found queenless，unite them with a stock that have a queen．If any are found short of honey，exchange if you hity none that can spare any，mark the weak
stock for feeding．If it is found by the middue of May that some stocks have stini not require，choose a warm day and remove no with the Extractor，for it is occupying
it
valuable room which the queen requires for brood．
Your spring work is now over，and with summer management
If surplus boxes are used，turn them on， any more if they ever saw an extractor at work；at least fived under the same cir－ honey can be obtained under the same cor
cumstances by its use．June and up to the cumsances
6 th of July is the time to ran the extractor．
Go around your hives every fourth day dur－ Go around your and take all the honey you can get out up to the end of June，but in July be cautious．Watch the clover；if a
drouth sets in，as it frequently does，you drouth sets in，as it frequently does，you
must hold off，and in any case only empty ayt woo arads in e exh hive towartis the eate Ot that moith



 as you like，for the custom is like the doc－ cor＇s bread puls，
harm．
never knew a swarm to go to the woods without first lust ous have all clustered，fill your garden．waterng pot right down nopon them．This has the effect they will not be so apt to sting，and they they will not be so apt to sting，and the
will be easier hived and be more likely to re maia in．Be sure to get all or nearly all th bees in off the limb，for should the queen be
left out the bees will not remain in half an hour． But artificial swarming is far ahead o natural in many respects，and it is so simple
that any person can do it．There are variop．
ways of doing it．My plan is ten days be
fore the bulk of my bees are ready for
swarming I I take my the queen and place the card she is on，bees hive．Fill up on each side with empty close up the opening made in the other hive
by taking out the queen，and put in an by taking out the queen，and put in an on a block say ten yards off；they being now in a queenless state，will stamt a lot of royal
or queen cells．I have seen as many as 32
or one hive．Eleven days after，these cells one hive．rea days after， hen divide another stock as before，only in－ tead of leaving the one－half queenless，you
go to the hive now full of royal cells，cut out
ne with a piece of comb about two inches one with a piece of comb about two inches centre card of the newly divided hive，and queenless half a royal cell as before．
Just before your young queens begin to
lay，，mpty most of the honey out of the
entre cards with the extractor；it will give her room，which is very necessary．Have
 getting ahead too fast，after it is capped
over over，with my honey knife I shave about a
quarter of an inch off the to of their heads；
this is a wholesale decapitation，for hi one this is a wholesale decapitation，for at one
troke I can guillotine thousands．Place the stroke I can guillotine thousands．before th
card down in the hive again，and
day is over the bees will claan out the cell day is over the bees will claan out the cell
of the headless trunks，and in almost all
cases cases will fill them with honey next time
After the swarming is over and you that your young queens are all laying，it
may be said that the management for the summer is over．Let them fill up all they
will，and with September we begin our
fall managrment．
Provide yourself with or borrow a scale of some description；weigh every hive，and
take a note of the weight．If your empty hive weighs 30 lbs．，then allow 7 lbs．fo
bees and comb，and in September the stock
ought to turn the beam at 65 lbs．If yo ought to turn the beam at 65 lbs ．If yo
find any are over，you can exchange eard with some that，are not up to weight．If
any require feeding，now is the time to do it．A very ready way is by making a thick
molasses ort of No． $2 \frac{1}{2}$ coffee sugar；feed it

## $$
\begin{aligned} & \text { en } \\ & \text { en } \\ & \text { en } \\ & \hline \end{aligned}
$$ <br> 

 GRICULTURAL wheat reports． The Agricultural Depart－
ment，in its report for April
 eral States of the Union．It it saye seve－
tenths of the wheat harvested in the Unite tenths of the wheat harvested in the United
States is sown in the fall，the other six－ Senths in the spring．The four States of
Wisconsin，Misnesota，Iowa and Nebraska Wisconsin，Minnesota，Iowa and Nebraska
produce $90,000,000$ bushels，or about one－
third of the whole crop．The Department third of the whole crop．＂The Department
calls this＂one－fourth，＂but that would
make the whole crop of the United States make the whole crop of en it really is not
$360,000,000$ bushels，when
over $270,000,000$ bushels，if it actually reaches that amonnt．
The reports indicate that wheat in the
New England States is a good deal injured， New England states is a good deal injured， general result．One－third of the whole crop
of New York is grown in the counties of
Ontario，Livingston，Niagara and Genesee． Ontario，Livingston，Niagara and Genesee．
There，and in the rest of the State，wheat
She thawing．
From New Jersey，Pennsylvania，Mary． and and Delaware the crops are reported In Virginia the wheat is reported good．In the Southern States the crop is reported on
favorably．In Kentucky the wheat ha avorably．In Kentucky the whead han
come throwgh the winter in niece condition． come through
In Ohio two thirds of the counties have the
winter wheat promising well．The northern winter wheat promising well．The
counties have suffered from the winter． Of Michigan the report says： ＂Very few eounties in Michigan have any
canse to lament the condition of winter wheat．With the exception of returns from Newaygo and Cass，and those of Branch， Berrien and Lenawee，as to clay lands，all are promising，most of them to an unusual
degree．The opinion in St．Joseph is，，The degree．The opimion＇the best in twenty
best in ten years；＇
yers＇in Calhoun；and＇ never better＇ years＇in Calhoun；and＇＇ever better＇in
Barry and Jackson．In the latter＇the Barry and Jackson．In the latter the
foot－staks are very large，the leaf broad； Coot－staiks are sary re and firm．＇In Van
the stools stand
Buren timber lands make the best show．＂ Buren timber lands make the best show．＂．
This seems to us a more favorable show ing than an actual inspection at the present
time promises．
There are very many time promises．There are very many
counties，and in fact all the clay lands of counties，and in fact all the clay lands
such counties as Genesee，Macomb，St．Clair， Lenawee and others，in which，the wheat crop has been either wholly destroyed，or it
has been injured to such an extent that not has been if an average crop can be ex－ one－third o The light friable soils have done
pected．
well，and there the wheat is promising fairly． well，and there the wheat in promising fairly． the fall sown wheat are encouraging，but not without some drawbacks．In．
the wheat crop is reported as good． the wheat crop is reported as good．
From California the reports are conflict－
ing．Some are quite favorable and others ing．Some are quite favorable and others
are discouraging．It is yet too early to pro－ nounce upon the general crop of tar，we think
Summing up the returns so far the produce is equal to about seven－eighths
of a full crop of winter wheat，but as this of a full crop of winter wheat，but as this
is only one third of the whole crop，we will have to wait and，see how the spring wheat
will turn out before settling whether there will turn out before setting whe not．
will be an average production or
This report also gives the results of some This report also gives the ressults of some broad－casting wheat．So far the report in－
dicates that there is more success with the dicates that there is more success with the
drills，but the report has not exhansted all means of inquiry as yet，and we will look
this over more carefully and examine the re－ this over more carefully and examine the re－
turns made to the Department．－Michigan

The Chemical News ascribes the potato
Tro to a deficiency of lime and magnesia in rot to a．deficiency of lime and magnessia in
the soil．Different observers state the per－ centage of magnesia in the ash of sound
tubers at from five to ten per cent；in the tiseased tubers an analysis shows only 3．94 per cent．Analysis of sound tubers shows
over five per cent．of lime；but in the ash o over five per cent．of lime；but in the ash of
diseased tubers only 1.77 per cent was found． diseased tubers only
A similar observation was made some years
aro by Professor Thorpe，with regard to ago by Professor Thorpe，with regard
diseased and healthy orange trees；in th diseased and healthy orange treess in the
former there was a deficiency of lime and
turns marmer
Farme magnesia．
pect your joung queens to begin to lay，for
sometimes they are lost in their＂．bridal tour，＂and if taken in time they can be sup－
plied with brood，but if not attended to，they will be
sure either to get robbed or fall a prey to the sure either to get robbed or ail a prey to the
ever alert miller，whose name is used by un－
principled bee hive men as a bug－bear to principled bee hive men as a bug－bear to
frighten verdant bee－keepers into buying ne of their so－called miller proof hives．
If bees are at all strong and are never al lowed to become queenless，the millers are
no where．There in no such thing as a mil－
ner er－proof hive in existence；；wherever the
bee eango miller egg may go．The only miller－proof hive I know of is almost any
hive with a good stock of bees in and never allowed to become queenless．
During the swarming season a large num ber of drones are rased that are raised are ever required．These fellows all consume
each about a drop of honey every day．If we can destroy them in embryy it is bette
to do so than to allow them to mature and live on the wealth of the hive for three
nonths．My plan to get rid of them in months．My plan to get rid of them is
during June，whenever I see the drone brood

to them at night in a plate placed on the honey board，under the top corner．
them regularly until they turn the beam a
65 lbs． them re
65 lbs ．
As y
As you are looking over your hives fo tre winter passage；if you see some that
the none，have a small stick say half a inch in diameter in your hand，and with work is now over；you may let them stan until you fuarters．
winter quarter
－Lord George Manners，of England，form－ d an＂industrial partnership with ago．The experiment was a secret one，but
its complete success has led Lord Manner to complete success has led Lord won the good will of his tenantry and made more money than he had before．Half the proit ers．Their share for last year was abo
$\$ 184$ ．As their had．As their wages during the saidend on
hategated $\$ 3,377$, the＂dividend on
labor＂was a trifte more than five and one－half labor＂was a trifle more than five and one－half
magnesia.

NIGHT soils.
Night soil is a valuable and extremely powerful manure, richer in nitrogen than
horse or cow dung. It should be deodorized before using by sulphate of iron or powdered night soil is attended with peeuliar advantages, asititisof itself, from some cause notentirely ascertained, one of the best auxiliary mannares
known to agriculture. Wherever charcoal is present to a considerable amount in the sion, there grapes and all kunds of fruits
flourish luxuriantly, and mildew is unknown. Charcoal and gypsum are the best deodorizers of night soil, as they both fix the ammonia. Lime should never be used with
night soil, nor indeed in the composting of
any animal excrements, as it drives off the ammonia. As before stated, plants take up thition, which of itself, shows conclusively that the urine of all anim
shouldibe given to the soil.

British Columbia.
We herewith present our readers with a representation of some British Columbia scenery, and the ac-
companying description of the climate, soil, \&c.:
Pt. Meadows, Mar. 25, 1874.
To W. Well, Lowdon To W. Well, London. Dear Sir, - When I last, wrote to
you I was in a different part of the you I was in a different part of the
world than I am at present. I write to you to let you know a little about
the country, \&ce., and to subscribe for the country, \&c., and to subscribe for
the FARMRR'S ADVocATE (enclosed find \$2.) I am about twelve miles from New Westminster, British Columbia,
a few miles from the Fraser River a fow miles from the Fraser River. some places is very large, measuring
from eight to ten feet through, and from eight to ten feet through, and
over one hundred feet high; other over one hund are very easily cleared
pieces of land pieces of land are very easily cleared,
the timber being small--most all un-
der-brush. There are no Canada this-der-brush. There ars thing to get rid tles here, the worst thing to get ric
of is the fern, which grows very thick on the ground and about six feet high
It is pretty hard to kill on new It is pretty hard to kill on
ground, but there are no prickles. The people here say it has been a
very hard winter, but for my part I Canadian one is. We are planting potatoes now, and some plynt them in the fall, to get early ones; others
leave them in the ground all winter, and dig them when they want to use them. It is a very rapid growth for
timber. Apple trees will bear in four timber. Apple trees will bear in four
years from the seed, and an abudance in eight years. Turnips grow
terribly large here; they will average terribly large here; they will average
five to the hundred pounds through out the field, and some will weigh as high as 601 bs . The grain is the pret-
tiest and best I have ever seen, and in the fall if you wish I will send you a sample of things about the time of the
Fair. What we want here is the rail Fair. What we want here is ne op the
road and waggon roads to open up
country, and then it would be the country, and then it would be the
garden of the world, both for growth nd climates.
Parties wishing to come here, the
boat for Victoria sails from San Francisco every fifth and twentieth of each
month, except when that day comes on Sunday.
Yours truly,

Thomas Henderson
Late of North Oxford, Ontario
spring wheat and wheat culture. The subjoining article on a subject very
important to the farmers of Canada, as well important these of Michigan, for whom it was
as to those
written is especially valuable to us, now that we have before us the report of the winter and fall wheat of the last year. The very vince any one of the uncertainty of a emu-
nerative return from wheat when nerative return from wheat, when not sown
in the Fall. The editor of the Michigan wheat crops without intermission, and adm S .
the superiority of English Agriculture.
Spring wheat is but little grown in the the superiority of English Agriculture. -s.
Spring wheat is but little grown in the er the naked fallow system, we in truth
have the wheat crop occapying about, one-
State. It is only occasionally that we have half of the land in cultivations. But we will
met with it, and then it has been the Mediterranean variety that has been used. Ourseason
of growing is too short to make spring wheat
gofitehe profitable; as a crop of corn, barley or oats
pay better, and it is only sown as a catch crop. Besides, we can grow here wheatthatre-
quires totbe sown in the spring which is of no quires togbe sown in the spring which is of no
advantage to us and of erry yuestionable economy. The trouble is that our farming sys-
tem consists too much of growing as larye a tem consists too much of growing as large a
number of bushels of wheat as possible off the farm at any cost, and not of growing the
largest number of bushels off an acre largest number of bushels off an acre. If
spring wheat is grown as a regular crop, it spring wheat is grown as a regular crop, it
should have the ground prepared for its growth with just as much coare as for win-
tre wheat. Then, if it is to take the place ter wheat. Then, if it is to take the place
of winter wheat, we cannot see the economy of winter wheat, we cannot see the economy
of the change. The wheat grown in the
spring must only make more labor at that spring musto only make more labor at that
at that
profit- $\begin{aligned} & \text { The area in wheat of this is stated to be only } \\ & 3,490,380 \text { acres, or a little over eleven per }\end{aligned}$
not call it so much; we will let it go to 25
per cent.
Before us we have a table of the per cent. Before us we have a table of the
area and avereage under orops and grass in area and avereage under orops and grass in
Great Britain and in all the various countries of Europe, furnished by their statistical de-
partment. These statements are official and prepared with care. What do we find In that country, which has given the largest culture, and where more wheat is grown to the acre than in any other, what are the
proportions of cultivated land compared with he amount under wheat? the total area of
Greath Britain, not including Ireland, and excluding lakes and rivers, is $55,802,360$ under all kinds of crops including grass, pasures, meadows, fallows, and other areas used in agriculture, but not woods or forests.
british columbian scenery.
$\left|\begin{array}{l}\text { able to sell, it does not grow as heavy a crop } \\ \text { per acre, and is worth less money per bushel. } \\ \text { All these considerations make spring wheat }\end{array}\right|$ per acre, and is worth eess money per buheat
All these considerations make spring wheat
of slight value to the farmers in the State, of slight value to the farmers in the State,
and hence, it is but little cultivated. To
and force the farm to grow a crop of winter
wheat and a crop of spring wheat is certainly what and ab crop of springning wheat into the
wround" and not out of it. We now grow
grow ground and not out of it. We now grow
too many acres of wheat in proportion to our grass crop, and hence one of the great fanalts
of our system of agriculture. The total area of cultivated farms in Michigan so far as it
is made known by satisfactory inquiry is reckoned at five millions of acres, and of this
fully $1,250,000$ yields a crop of wheat every year, and as our system, owing in part to
climatic consideration, climatic consideration, requires occupancy
of the soil by the wheat rop for two y arss,
under the

-
ent. of the total cultivated area; of ofther
Train erops there is besidies an area of 5,968, 548 acres, or 19 per cent. Of grasses under
rotation, rotation, of grass meadows and permanent
pasture there are $17,582,747$, or fifty-five pasture there are 17,582, 747, or fifty-five
per cent. The amount of grass under rotaper cent. The amount of grass under rotasown with wheat, being 4,369,818 acres.
There are in Great Britain only 706,498 acres of bare fallow.
To sum up
of bare fallow. The matter and compare for
To sum up
the instruction of our readers and condition of the wheat culture in Michigan with that of Great Britain we may say:
Great Britain grows ey
Great Britain grows eleven per cent. of her
cultivated land in wheat, Michigan grow twenty-five per cent.
Great Britain grows from her 3,500,000
gres sown with wheat, 84 millions of bushels of grain. Michigan from 1,250,000 acres grows 16 millions of bushels.
Great Britain has 19 per cent. of her cul-
tivated land in other grain crops, while
Michigan has only about 15 per cont. in corn, Gichigan has only about 15 per cent. in corn,
oats, barley, and other crops, Great Britain has only of bare fallow one acre in 44; Michigan has of her cultivated area about one acre
n eight in fallow; for a good deal of wheat is sown in a corn crop, or on new
and. Wheal.
To int To introduce spring wheat with such a yystem as to that without a radical change,
it must take the place of the coarser grains, or be sown after a corn crop, if it is to be
rown at all. Would this be profitable? rown at all. Would this be proitabie?
Would it pay, when we have dificulty in
seeping our wheat at present up to the keeping our wheat at present up to the
standard, because we are running our lands to heavily to that orop now?
tand
sired sowisa.
I can easily understand why a large
quantity of seed sown never grows, and consequently haw a never growene, and couragement. The seedsman generally
is blamed; but this is a mistake, for bad is is the seed frequently sold, it mus
as is
be bornin mind thatif one-half germinate be bornin mind thatif one-half germinate
there is more than enough for one's use there is more than enough for ones use,
The oause of failure is sowing to deep,
and actually burying the and actually burying the seed. In a atate of nature all seeds germinate on the to of the ground, protected with a slight
covering of afilen leaves or blades o
grass. There is a good rule to guide grass. There is a good rule to guide ns
in sowing .eeed, and that is, never to cover it with a greater thiokness of soi
than the diameter of the seed itsolf There are, of course, exceptions; but in sowing radishes, for instance, the ground
should be forked or dug level. The seed should be sown, and if a shower of rain
falls, nothing more is required, as it will falls, nothing more is required, as it will
break down the rough ground sutticiently
to cover the seed. In the absence of rail to cover the seed. In the absenee of rait,
you may use an ordinary wooden hay fork you may nse an ordinary wooden hay fork
to chop the soil - not to rake it as a person world a turnpike road; nor must you confound the wooden rake with the
ordinary iron rakes The latter 1 consider one of the most dangerous tools in a yarden, and, as a six. tined fork is now eing mannfactured, the iron rake should
and amateurs suppose that rakes are for the purpose of cleaning the ground of stones,
the very pores of the soil by which light, the very pores of the soil by which light,
heat and moistare reach the roots of all plants. The consequence is, you have
a s surface washed flat by the rain and
rand ouk hard y is sown, and consequently cannot be disturbed
eyesore for months. " It , becomes an
But eyesore for months. But," my friends
say, "if I were to adopt your advice, and not cover ap the seeds, I would have no
crop at all, because the birds would crop at all, because the birds would
take them." Now there is only one effectual cure against small birds. You may build up dummies, put cross-lines
of feathers, stick feathers in oscillating of feathers, stick feathers in oscillating
turnips, resort to stuffed ferrete or cats $;$ turnins, resort to stuffer ferrets or cats;
and all to no purpose, as the birds, after a short consultation, will know that
neither of these experiments is any trap neither of these experiments is any trap
at all. But they will never approch
black cottoon, which must be tretched in black cotton, which must be strecteched in
lines across the part sown about two inlines across the part sown about two in.
ches from the ground, and with all the ches fo sparrows, they will never allow
arhemselves to get entangled in cotton. thelseevese to get
Colonial larmer.
tegting the vitality of hred cord. The Western Rural, m anticipation that in some sections of the country whereghthe
corn has not ripened as it ought to have corn has not ripened as it ought to have
one, there may be trouble in the germinadone, there may be trouble in the germina-
tion of the seed, gives the following opportune
dvise. Last season much of the corn nown advise. Last season much of the corn sortun
there was an entire or partial failure: there was an entire or partial failure:
To test the seed, therefore, we advi those in doubt shell from various ears more or less of the kernels. Mix them together
and, counting therefrom ten or and, counting therefrom ten or a a dozen o
the grains, plant them in a favorable plac the grains, plant Nome how many of the
for germination. Note
seeds planted grow readily. From the perseeds planted grow readily. From the per
centage which grow, an estimate may be made cen tage which grow, an estimate may be made
of the proper number to drop in each hill, in planting the field, to ensure a stand. Another plan for testing seed corn is to
examine the general appearance of the grai examine the general appearance of the grain.
If it break from the cob, presenting a black appearance at the point of attachment, and
if it leave the cover and filanient of the col it is probable, but not certaina, that the soed it is probable, , Jut not certinate slowly, or it
is not good. It may germinate
may not germinate at all, according to the

 a seed Catalogue for halt and hour, Jeave
his moneyo order the seeds shipel to
Washington as soon as ready, and then leave


 a word or two that we shall not print, ""
didn't kiow you kept guupowder exposed in

## a

 , house in London, special directions to "put the sed in papers as unlike those of Ameri
can seed dealers as possible," and to "be
 No special anxiety regarding the quality o
the seeds, but directions thrice repeater about the fashion of the bags, so that theatey
might have a foreign appearance. The
The Government not only parchased seds alroad
but have them put up in the common papet packages in London or Paris, at conisiderabele
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 scovered by foreigners,
reigners, to our shame
Since the Sincers, the Fo Frankhame.
Pout a year ago, there $h$ rs, and
rivilege
 nless somernment seeds throngh the mains of thats,
ine the postage, so the While writing this, we webserved have, sume berene. Bercht, hangressemanted, probably a discillof of congress of
propriating money to send these seeds apre. propriating money to send these seeds pre-
paid through the manils, and if the people are paid through the mails, and if the people are
willing to have this done, after a proper
understanding of the mater, we are nuch mistaken of the marestimate of their intelli[We copy the sense.
The copy the above from an American exment, in regard to their Political Gour Govern- form
has been worse than the above and of greater injury and injustice to the practical working
farmer, a mere bubble, a hot bed for non -pro. ducing incapable of writing or talking vapsels
a charitable institution to pay political friends either personally or for their sonst, a bad bed corruption a school for which the working
farmer has to be taken, even to hire scholng Down with such an injurious and expen-
sive constitution.-ED.

> Sheep and shekp husbandry.

Before proceeding with the subject mat-
ter of this article, I will give an outline of he agricultural aspects of the County of hacomshire, England. This county can loast of as good land and as good farmers as ur distinct classes of soils and systems of 1. The '"woods" on hills are situated in
the northern part of the county, and are
cultivated upon the four and five cours cultivated upon the four and five course
system, xiz. Ist, wheat; 2nd, turnips; ; rd,
oats and barley; 4 th, seeds-thatis, red clover oats and barley; thth, ,eeds- that is, red clover
and rye grass one or two years. 2. The "fens", are very extensive, but
brains have changet brains have changed their aspect and nature,
and they are "fens" no longer. their subsoil is salt or olue clay, covered with a gar-
den mold about or 10 inches deep. den mold about 8 or 10 inches deep.
These "fens", have been reclaimed dya sys.
tem of drainage which is perfect. Eight years ago they we were open commonot. Eight
grass, weels and bull tiontles six feet high in summer, and in winter were covered with
water, and flocked with countless flocks of water, and flocked with countless flocks of
wild fowl, affording a livelihood to a few




 which a crop of horse beans is made to
switch in, so that two crops arc raised in the six-course.
3. There are tracts of land bordering apon the sea coast, which are known by the

 and

 ond


mixel crasisfs. for pantures.
The value of a mealow consists in the
anount of any it will produc. Therefore,
since it it should be sown to such grasses as will ripen at a giren time or nearly so. With
pristures, the case is different. The greater pinstures, the case is simferent. The greater
numbler of good grasses you can get into the
pasture, the more valualle will it be, and it pasture, the more valualle will it be, and it
is not necessar yhat they mat ure at, or
nearly at, the same time, the pasture will is not necessark that they mature at, or
nearly at, the same time, the pasture will
be hetter if they do not, for this succession will give nore feed than if there was a Allush of grass turing one portic
a scarcity at other times.


If there were such a variety sown as to
give a constant succession of growth, the pasture would always be green, where there was sufficient to support growth. This is
not always the case in the United States, not always the case in the United States,
and especially in the West. Our annual
drouth.s of July and August are terribley and especially in the West. Our annual
droutt.s of July and August are terribley
severe on botht meadows and pastures. Nevertheless, we believe it will be possible,
with care in the selection of the proper grasses for sowing, to have pastures, if not
of English greenness, at least such as will
cont compare measureably therewith, exce
about a month in the heat of Summer.
As showing the great value of mixed grass
ses for pasture, it will not be out of place ses for pasture, it will not be out of place,
though this has been heretofore discussed in though this has seen herstofore discussed in single square foot of very rich natural pas.
ture in England has contained 1,000 plants, 640 of them being natural grasses, and sixty
of them clover and other plants, the whole of them clover and other plants, the whole
number including twenty varieties. Another meadow, irrigated and otherwise carefully
managed, contained, in a square foot of sod, 1,702 plants of natural grasses, and ninety
six of clover and other plants Again, of showing the necessit
Agan, of showing the necessity of thick
seeding, a mixture of twelve varieties of
grass, a, grass, aggregating forty pounds per acre,
gave according to
Flint, on ""Grasses and gave according to Flint, onl "Grasses and
Forage plants," the enormous number of
$54,000,000$ seeds, or about nine per square inch. Consequently, to produce the number of plants given in the case where 1,798 plants
were found per square foot, we should be
obliged to sow about 25 per cent. more seed than forty pounds per acre. Fert. Mom this seed it
safe to say, first; we sow too little seed for per manent pasture, and also, as a rule, we
sow too fow varieties The following is a it would be well to experiment with for per manent pasture in the West, which we give
in the order of their ripening, and with the in the orter of their ripening, and with the
number of pounds per acre to be sown in the
mixture. They are:- Sweet sented mixture. They are:- Sweet scented vernal
grass, one pound; Orchard grass, seven
sounds; Meadow foxtail, two puunds: Mea dow fescue, three pounds; Kentuekey Blue grass, five pounds; Redtop, four pounds;
Italian Rye wass, three pounds; Timothy six pounds, Med eled clover pounds; pounds; White
clover, three pounds. This would give fort clover, three pounds. This would give forty
pounds per acre, and the principal grases
sown are known to bo well in the TVest. If the object be to produce a
thick, matted sward as quickly as pos
tible the sincl, matted swarr as quickly as pos
sible, the red clover may heo omitted, al.
together it in posisle that this grass would
soon be crowded out inaty eve git soon be crowded out, in any event, and the
pasture would eventually consist of those
arasses most suitable to the soil grasses most suitable to the soil and climate,
If the pasture be much shaded with trees, Blue grass, Orchard grass, Rough-stakeesed
and Wood meadow grass and white clover should prelominate, with perhaps some Al-
sike clover. Whatever the kind sown, if a
five sod gets firm enough to hear the tramping of hoofs, it should be cosesly fed, and kept rich, and miry state as is the case early in Spring
and sometimes after long continued rains.

## -Western Rurci.

dence of the great power of this intellectual
force. It has been remarked by travellers
in other European countries, as well as by
Dres. in other European countries, as well as by by
Dr. Macauley in Ireland, that weeds prevail
to a much greater extent in 5 . to a much greater extent in Europe than in
America. Here we have in almost every America. Here we have in almost every
farmhouse, where there is any pretentions to intelligence, an agricultural paper, and in
almost every district there is a live agricul. almost every district there is a live agricu
tural society or farmer's club. Here, and in
this way, farmers learn in what consist this way, farmers learn in what consists
their trut interests, amang which they soon find out it is not the permission of weeds to
occupy their land Hence we see so much more clean fields than is usual in Europe and we think we may say that there is an
nually an increasing care taken in regard to
their extermination.
This is undoubtedly the best weed eradi-
cator. Let there be a continual a the subject. Let every one know how much they lose by weeds, and how easy they are
kept down by the "stitch in time" system, kept down by the "stitch in time" system,
and we shall do more to put down weeds in
ten years than any prohibitory law would and we shat ho more to put down weeds in
ten years than any prohilitory law would
do in a hundred. Forney's Weekly Press.

## vegetable manures.

"The importance vegetable moull to be
used in conjunction vith fertilizers was tested used follows: One row with enough mould
as form
from the woods to half fill the furrow, with ammoniated phosphate at the rate of 2201 lbs
per acre, made 990 lbs. of seed cotton, The fertilizer without the monld made 742 libs.
the natural soil, 432 lbs. The fertilizer with the natural soil, 432 los. The fertilizer wit
the vegetable moule, made 128 per cent. on production without it, only 71 per cent.
showing that the presence of organic matter showing that the presence of organic matter
in a soil adds much to its productions when
fertizers are used.
"The importance of husbanding the vege too often or too deeply on the cultrivatorsso
the soil. Where a good crop of grass, weeds or of pea- vines or other crop of grasts have deceeyed
in a soil, there is enough of all the substances left in an available condition, ex eept phosphoric acid, to make a fair crop on
any of the farm products. One thousand any of the farm products. ©ne thousan
lbs. of grass decomposed in the soil will fur
nish four los. of grass decomposed in othe soil wis be
nish for times as muob potas as will be
required to make one thousand pounds of corn or wheat, and half enough phosphoric
acid, with quite an overplus of all the other
mineral substances. The straw of the cereals mineral substances. The straw of the cereal
will furnish more than enough of every one
of them except magnesia and phosyhoric aciid; nearly enough of the former, ando one
fourth of the latter. To make peas there
are quite an overplus, except phosphoric acid;
just half enough of this, and double enough of pot-ash. Pea -vines furnish a superabon-
dance of potash and lime, to make both corn and peas, in fact of every mineral substance
except phosphoric acid. There is about
half enourd pf tris to half enough of this to supply the demand.
There is a sufficiency in grass to make the seed and filre of cotton, of all these substan
ces excent magnesia and phosphoric acid. ces except magnesia and phosphoric acid
The stalks of cotton will also furnish enough
of all the enineral fon of all the mineral food except potash, magne.
sia and phosphoric acid. These three are
fuite deficient. Thus allowing that the quite deficieit. Thus allowing that the
stalks of cotton left in a field weigh as much
as the sead talken from them for every as the seed taken from them, for every
thousand pounds there will be taken away
eight pounls of phosphoricacid in the seed, elght pounds of phosphoric acid in the seed
more than is left in the stalk; ten pounds of
potash and six pounds of magnesia. And Whien it is remembered under our system of
clean culture, the cotton stalk is about all the organic matter left in the field, and the cattle take off a good portion of this during
the winter, it is not wonderful that our lands deteriorate, our crops rust and purses re.
main empty. The inference is clear from
the aloc ve facts, that a goocl crop of grass and weelds or other vegetable matter covered in
the soil and properly lecomposed, will fur
nnsta suffic chey to make a good crop of corn, cotton,
 important to hushand the organic matter of
inhe soil as it is to apply fertilizers of any
to kind: That one of the most important pro
cesses for obtaining soluble mineral food for plants, is to furnish the land with vegetable
matter by a proper rotation of crops: That
the mineral substances of plants become, in the very process which dissolves thcm,
thailable for a succeeding generation of vepe.
avale table growth, hy the extreme mechanical
fineness to which they are reduced, and the
action upon, them of the ammonia and car-
bonic acid, especially from their albuminoids
during the process of decay.-Dr. Pendleton.

## lmag and clover.

Of all plants none seem more dependent
on lime than clover, and it will not grow on land destitute of lime. We find by analy zing the ash of clover that of its inorganc,
or earthy parts there is 25 per eent, of lime,
27 of potash and soda, 6 of magnesia, 3 of 27 of potash and soda, 6 of magnesia, 3 of
chlorine, 5 of silica, $25 \mathrm{o}^{2}$ : carbonic acid, 6 of phosphoric acid, and three per cent of sul.
phuric acid. Thas we see that lime, potash phuric acid. Thns we see that lime, potash
and soda predominate largely in the earthy
part of clover. The carbonic acid is supplit part of clover. The carbonic acid is supplied
by the atmosphere in adundance. From the
peculiar habit of the eloner peculiar habit of the clover plant, it draws
its nourishment from sources not available its nourishment from sources not available
to other plants. Its fibrous and deep pene-
trating roots search for food to a depth not attained by other plants, while its numer
ous and broad leaves drink in its organic ous and broad leaves drink in its organic
constituents from the atmosphere, shading
the ground from the decompsing the ground from the decomposing rays o
the sun and concentrating near the surface of a mass of those very elements
needed for the succeeding crops, and the
ner kind and quality more than sumfficient then
supply their wants.-A merican Farner.
THE FARM.

Experiments have recently tended to prove
that the roots and grains, by being planted that the roots and grains, by being planted
mach further apart than is usual, will actu-
ally yield larger crops than arenow obtained ally yield larger crops thanarenow obtainedd
This has been shown to be the case with potatoes, and more recently with wheat. I
has been found that the wheat plant increases above the ground in proportion as the roots develope without intererence with those oa
its neighbors. In our experiment wheat thus treated, furnished ears containing one
tundred and twenty grains. It was found hundred and twenty grains. It was found
in the course of the same experiment that on eve fully developed plant there is one ear
superior to the rest; and that each ear has one grain which, when planted will be mor
productive than any other. By selecting proerefore, the beet grains out of the best ear, and continuing this experiment through seve
ral generations, a point will be reached beral generations, a point will be reached be
yond which further improvement is impos yonde, and
result.
spring: ploughing
tumn will,all other things being equal, yield better than that broken in spring. This is pail is ossential to its fortilitry, partly be.
cause the frost has free action to break up
the the minute minerals and hasten their tisi
tegration and the consequent liberation of mineral elements of fertility and partly be
cause in the loosened carth the surplus wate cause in the loosencel carth the surphus wate
drains quicker away, and the warmth of the sun penetrates sooner and deeper. But
many fall ploughed fields are so situated that surface watcr collects in hollows, and thu
nullify all the rest; carefully drawn open furrows fors such placesshould be the subject of
first work in spring. In newly ploughed
land run the furrows in such diretion to facilitate drainage, and run the shove as deep (and no deeper) as is can go withont
turning up the colld, unfertilized and lumpy turning up the cold,
subsoil. It will pay.
condition of winter wheat.
From the Ag ' Report of April and May,
we gleam the following: Four-tenths of the wheat sown in the United states is winter
wheat. The crop is more promising this wheat. The crop is more promising this
spring than for several years past, at some season. In one fourth of the countries in
the Ohio Valley, an unpromising appearance is reported. The reports from Missouri and
Kansas are less unfavorable. New York reMansas are tesss unfavorable. New York re
ports a yood appearance and every county
in New Jorsey reports excellent. Pennsyl. vania reports but four counties unfavorable,
and Delaware says one-half better then les year. And so it grees over the states
but few localities reporting adversely. In summing up the evidence in favor of drilling
insteal of sowing, the former has it by the
lest least ten per cent. The proportion of spring
wheat sown is ahout 40 per cent of the whole crop. It is grown mainly in Wisconsin, Min
nesota, and lowa. One-third of the crop in
Hlinois is spring For Illinois is spring. Forty per cent. of the
whole crop in the United States is rilled in,
and nine-tenths of the testimony favors the
drill. Five million bnshels could be saved
annually, by the exclusive use of the drill annually, by the exclusive use of the drill

- National Agriculturist and Bee Journal.
Soot as a fertiluzer.

I have a considerable quantity of soot,
which I have saved. How should II apply it as a manure?- E. E. Delavan, Wis.
Soot is said to be an antidote for smut soot is largely consumed in carbon, and oon tains, also, a considerable quantity of nitro
gen, besides salt and lime, potash, soda and Smmonia. 10 Opounds of otaot have been
amtimated as equal to one ton of cow dung estimated as equal to one ton of cow dung
It is especially valuable as an application Tt is especialy valuable as an, apphication to
work oft the attacks of insects, and may be
sown with profit in the garden on sown with profit in the garden, or in fields
infested with these pests. It is an cious mixed in the proportion of six quarts of soot to a hogshead of water, for watering
flowers and other plants, enhancing their loom etc.
seed with clover.
Some timely hints relative to the sowing
clover were given at a meeting of a farm clover were given at a meeting of a farm-
ors'
club in
scotland. The speaker said rge owing to the small size of the seed
prontion of them are buried too deep and fail to germinate. It has been found
y experience that the greatest snecess with by experience that the greatest snocess with
rod oloveris attained when the seed is covere with only half an inch of soil; when covere
one and a half inches deep fify per cont. the seeds germinate, but at the depeth of tw inches not a single plant appeared. When
clover will show above the surface if the
seeds are covered one and a half inches deep and at three quarters of an inch only fifty
per eent. of the seed produced plants. It is ecessary therefore, to prepare carefully
soil for clover and to sow and cover discretion. Rolling helps to secure a fine
seed bed, and consequently an even distri-
bution bution.

About five oclock one fine summers morn sown the previous day, every grain of salt sown the previous day, every grain of salt
had attached to itself the dew, and formed
on the surface wet sin the surface a wet spot about the size of a
sixpence, the ground being generelly very xpence, the ground being generelly very
dry. On our light lands it consolidates them and makes them especially firm and accepta-
ble to the wheat plant, whose straw will bie to the whent plant, whose straw wil
stand firm adn erpect, although four and stand firm adn erect, although four and
half to five feet long. It is also unfavarable
to certain weeld by this consideration. It to certain weeds by this consideration. It
prevents the ravage of wire worm. It is erseneials the favarabe of wito salire worm. plants, such as
mpangolds, whose ashes conaiain fifty per cent Langolds, whose ashes conaiin fifty per cent.
of salt. I never sow guano, except mixed with its own weight of salt. Like every risen inprice. I observe that all crops seen to thrive well on land near salt water espe-
cially where the land is drained.- Western
Rural.
permanent serd corn.
John B. Sends, at the New York Farmers Club, said: I al ways soak my corn in tepic
warm water, in which I dissolve about one pound of sal tpetre to two gallons of water
for eight or twelve hours. I do this an trin the corn will taste of saltpetre; then draw it off and roll in land plaster. No wise crow or crow will pull up more than two or three grains before leaving it disgusted. I or thre
tried tried it for eight years. While two of my
neighbors had, last year, their corn pulled neightors had, last year, their corn pulled
badly, mine was not touched. Smoke is
next, next best thing to keep crows away, but
the crow and blackbird fo not care for it.

Immigrants ror Muskoka.- The steamer
Nipissing on her first trip to Bracebridge took up forty immirgrants, who intend to
settle in the township north of the


classify it as wool grease, cart grease, soan
 ooarding house breakfast inferior tab, com mon tub, medium roll, good roll, and gilt
edge roll. The terms are strictly technical

92



 any why gine iltitititome on sum
 with gnnpowle
yoo get lome

Clarence, May 7th, 1874.








Than followny distitich io ff freat antininity by. ${ }^{234 .}$
 Oakland Fan
Un Uncto
Ton
Ithonght yon would bp glad to hear that


Hatio Huriand eanh me mone nie plank
 sitater beapess:
camo from."

acks. How many duak.w were there mi.hi.
236. There was ama whio was not born


Dear Unulo Tom,





 Nivo
 goose than a bear, woultrity you, Uncele Tom


Cora ays she is a litile hamely pry hat




THE HARMER'S ADVOCATE.
member this in
copt the fotily
family
And now, to fonid. 1 wanto makea bar.




Magog, P. Q.
Thatt sill very well, Em bat yor ye an anful
品
237.-GEOGRAPHICAL PUZZLE.





 blew a (river in Montana), and then we wen
to dinner; the table was covered with a (sea to dinner; the table was covered with a (sea
north of Europe) colth, and furnishled with (a
country in Asiq) The (grou of Islands in
the country in Asia). The (group of Islands i
the Pacific) )erved as a (lake in Canada), whic
hat t too much (al arge lake of North America)
in it We had also (a sea south of Europe) in it. We had also (a sea south of Europe
bread, with an (harbbor of Now Jorsey each
For (an island of the State of Maine) bread, with an (harbor of New Jersey) each
For an inland of the State of Maine) we had
a province in France) and (a river in Africa Afrovince in (rrance) and (ariver in Africa.)
After dinner ( (two capes off the coast of Am-
erica), and I rode out wi ha span of (isl 1 nd
 span of (ar river in Scotland). As it was get
ting cold (the cape of the coast of Maine) put
 coat, trimmed with large brass (islands in th
North Pacific Ocean.)
-- of only three letter 238. I am a little word of only three letter

 imes be found. If spelled backwards I $I$ r
mind you of ship. building, but when thus $r$ mersed and my tail cut off, I become more
active and enervetic thun before. With head
and tail both off I utter a cry of pain, yet I
 239. Pl cee the letters contained in new down
in such ap sition as to make oue word out
of it. in suc,
of it.

## Dear Uncle Ton,

I hope you will accept me as one of your
nieces. I have often thinghtit of writing, but
netes leet it off from one min ho trite her, sor th, to
have made up my mind to write this mop
send a few puzzles and also a few selections for your scrap book, and I also senda few recipe
for Minnie Mays D Department.
MAgaie A. Cooke. Lansdowne.

## PUZZLES.

240. My first is in cat, but not in kitten, second in nlove, but not in mitten
third is in whole, but not in half,
fourth is in cry, but not in laugh; "fift is in drake, but not in ingooge,
whole is an article of great use.
241. My first is in glove, but not in hand, second in sea, but not nond;
third is in friends, but not in foes, fourth is in bud, but not in rose;
fifth is in summer, but not in fall sixth is in narrow, but not in tal seventh is in arch, but not in bower,
whole is the name of a favorite
flower.

 " wirtiti is in preceious metall.




Not much improved in my writing, am I ust like all the rest of the Canadians. Now,
Uncle Tom, I guess Ill rate you; why didn',
ou put more of my poems in, and why didn you put more of my procms in, and why didn,
you give me the priz? I flly expected it
Now, do a little better for me this time. I am a new niece, but you must excuse me for be
ing so bold. I do not think that you wel
Io com so bold. $\begin{aligned} & \text { I do so warmly as } \\ & \text { new nieces and nephews. }\end{aligned}$
not
P. S. -And unless you Mo walcome me next
me I guess I'll quarrel.
24. Ontaram.
244. Onhro nda ewaf fmor on dictionon eis
cat ewll yrou trap, heter lal het rohon iles.
M. M.
245. My first is cold and frozen,
if
second is seen on the grou
" whole, when the weather is frosty
Comes down with a pattering sound.
ADDIE G. BRAY.
246. There is something in
comes twice in a moment, on

Many thanks to Rose Widdifield for sending me plants and a very pleasant letter. Florence
A. Baxter says she will send her picture as on as she gets it taken. That is right; ant a photograph iromesery gone, and I must
all the old family pitures ane get
et up another one, and $I$ want all of $m y$ set up another one, and
nieces and nephews in it.
248. My first is in corn, but not in wheat, second in turnip, but not in bee
third is in ocdor, but not in smell third is in odor,
forth is in water, but not in d. B .
whole is a bird.
F. A.

Ingersoll, May 11, 1874. Dear Uncle Tom, I am going to tell you about a sleigh ride I
had last winter. I was staying a week with my grand tpapa at mae ta the 1 , ttle hand-sleighs
hitched the id mat
ind and wanted his brother and sister and I wo ge
in and have a ride, os we got ln, and away we
went. It was rather roush where we were. and we would go up and down, up an down
over the little hills; we thought it was fine fun,
but the it ver the old mare did not like it very well, so
but the
he kindly helped us out very suddenty, and
 joyed it very much afterwards.
Grandpapa sail that if he
Grandpapa sai. that if he was allowed to
vote he would vote for Cora, and he would also vite for her to come up to this part of the
country, for oh! it is so c , and and the snow so deep. No doubt she thinks she has gond times
down theere, but that should not stop her from
coming to where she might have better. Grandpapa came from away down there, agrea way below where she ives, and thoughthe hai
shlendid times, but experience has tagyht him
that we have better tiures, especially the big
 both face the keen wind Y
an tired of me, so gool bye.

## dur niece, Hatie havidand.

Come, come now ! Clear the track and give
us elbow ro m. You, Uncle Tom and Minnie
Mo ns elbow ro m. You, Uncle Tom and Minnie
May, just listen to me a minute. I don't
 chings tro themselver', (Is Ninnie Nay Mrs
Uncle Tom?) Jand going to tell you how
old, ugly, short or tall $I$ am, for fear you shove me out.
I wan
picture
we do th I want to know if y u all know how to make
picture frames out of straw. IM11 tell you how
we do them. We sel cot the straws as near o a size as possible; then some day when mother though she does sometimes say: co chilld, do op away with your straw, and don't spoil the
dye.") The The we take' two black and four or
fve white straws, and sew them tor ve white straws, and sew them toget her from
side to side with some fine cotton, being careful
to hide the stitches as much as to hide the stitches as much as possible. The
we cut them an inch or two longer. than the We cut them an inch or two longer. than the
picture, so that the sides and ends cross each
ther; then we take short pieces and corners. They make very pretty frames for corners. They make very prety frames for
photographs or small pictures, and are very
cheap, I am sure. pheap, , Iaks sure
We make mo
dowe which moss baskets. to hang in the win steel and form into any shaped baske tyou like,
then line with a good coating of nice green moss; fill in with earth and plant any running
vine in it poun like. This, suspended by cordy vine in it pon like. This, suspended by cords
from the ceiling or wind,wws, looks veay pretty.

Last summer we had one in wher Last summerwe had one in which we planted
morningglories to climb up the cord morningglories grew over the basket. The ingy do in the garden, and continued blossom-
ing late fall, You would not believe
ow pretty they look, unless you have seen the how pretty they loon, unless you have seen the
like, which I suppose the most of yo have,
and may not thank me for my old-fashioned notion.
Good bye, dear Uncle Tom, Minnie May Good bye, dear Uncle Tom, Minnie May
and cousins innumerable.
Your conntry cousin,

ANSWERS, TO MAY PUZZLES. 210 -When the spring opens out the blades.





## Uncle Tom's Scrap Book.

Farmer Downs waz out in his orchard tho Star day, and was thaten allataok by being
 o pause and reason with the beast, who had
nover made such an onset on any body before.
On the good man ran, or flew, to reach the ence, but the manemy, in his rear caught him
on his horns has heached tit, and gave him a
ooss that plumped him into the dirt on the toss that plumped him into the dirt on the
thher side. The bull was mad with rage at
having placed a barrier between him and his
 turned upon his foe, cried out, oh. you ras.
cal, you needn't stand there bowing and scrap ing and making apologies.
purpose; you know you did!"

Two Irishmen engaged in peddling packages
of linen bought an old mule to aid in carrying of linen bought an ond mule to aid in carrying
the bundees. Each would ride a while. or ride
and tio and tie," as the saying is. One day the Irish
man who waso foot got close to the heels of
his muleship when he received akick on one of his shins. To be revenged, he picked up stone and hurled it at the mule, but by acci-
dent struck his companion on the back of his
head. Seeing what he had done, he stopped and began to groan and ruab his shin. The man
on the mule turned and asked. "What's the matter?"' "The cratur's kicked mee,", was the
reply." "B reply. "Be jabers," said the other," "he,'s
that same to me on the back of my head."
A new Nephew, Charles Wetherspoon, sends
quite a collection of scraps, of which the follow-

## Mr. Gould. To which

A girl of nineteen may love Gould, it is trne.
But, helieve me, dear sir, it is yold without $\cup$.
Samuel Hammond sends scraps, of which
he followiny are a sample.
Josh. Billington has an entirely bald head
and it is relatede of him that once when he was
the zoological gardens in Paris the day at the zoological gardens in Paris, the day
being warm he lay down upon one of the bench. es, ind went to sleep. After a while he was
awakened by a feeling of suffocation and when he opened his eyes, he found that something
covered his acee he began to struggle tor elieve
himself and the next moment a gigantic ostrich limself and the next moment a gigantic ostrich
lepped up and began to prance down the path.
The outrich had onserved the top of Josh's. The ostrich had observed hit for one of his eggs
bald head and nistaking it
had began to set upon it for hatching purposes.

An Irish glazier was putting a pane of glass:
into a window when a groom began joking him into a window when a groom began joking him
saying, "Mind and put in plenty of putty,"
Paddy bore his torment for sometime when he put a stop to hil buy saying Arrat, sir, be off
wid you or Ill put a pain in your headwithout, wid you or
any putty."
 of the court endeavored to disperse the crowd
py exclaiming All ye.,.lackguards that isn't
awyers, leave the court,"
"I sux, my little son. where does the right
hand road go to." "Don't know sir; 'taint hand road go to"" "Don't know, sir; 'taint
been anywhere since we lived here."

June, 1874.


Take two cups of raisins, wash them and
set on to boil with enough water to well paste pretty rich; lay it on the plates you
intend to bake your pies in. When the raisins are nicely swelled, dredge amongst
them about two teaspoons flour to thicken them about two teaspoons flour to thicken
the water; add a attle sugar; spread them on the paste and cook in a moderate oven.
Have ready a whip made of the whites of Have ready a whip made of the whites of
three eggs, and about two tablespoons of
white sugar. When the pies are cooled, spread the whip nicely on top; if you top of
you may lay a few swelled raisins on top you may lay a few swe delicious pie and looks very tempting. Set the pies in a cool oven
to set the whip. couple of tablespoons of butter in a cup and
a half of sweet cream. Pour it boiling on a half of s.
the flour.

Mrs. McIntosh is informed that if she
will procure from a druggist an ounce will procure from a druggist an ounce of
tincture of myrrh, and use a few drops of in half a teacup of luke warm water, brush ing her teeth with it and rinsing the mout
well with it, it will help her greatly. hardens the gums, prevents decay an sweetens the breath. It will also stop tooth-
ache if applied at the very first. The teeth ache if applied at the very irst. Soft brush or cotton rag. I will add a recip good.
toothache remedy
Best alcohol, 1 oz.; laudanum, one-eighth
of an ounce; ehloroform, five-eighths of an ounce; gum camphor, half ounce; oil cloves
half drachm; sulphuric ether, three-quarter unce; oil lavender, one drachm. Half the uantity is sufficient to have made at once,
Keep tightly corked. Rub freely on fac and gums, but do not swallow it.

If any one has that grief of good house
keepers, sour bread, let them soak up some of it in boiling water, letting it stand two beat it up well, pouring off surplus water add sugar, a spoonful of soda, and flou makes delicious pancakes. Eat with maple syrup or preserve syrup.
the same way, adding sugar, soda, a cup of
and currants, or some siced apples, flour sufficient as before, and fry it
eggs and
ast ${ }_{\text {asf }}$ sritters. Your sour bread will go off like

Will some one give a good description starching and ironing collars, bosons, \&c.,
so as to have a good gloss and avoid sticking so as to have a good goss and avoid sticking
to the iron?
Dear Minnie, I have given you quantity, if
not quality; any way all the above recipes are in use in my family, and I know them to be good. With many thanks for your kind ness in trying (and daughters, and for the trouble you take to obtain information for them and render your department so inter
$\begin{array}{ll}\text { esting to them, } \\ \text { I remain yours, } \\ \text { \&..." } \\ \text { M. K. }\end{array}$
Brucefield, Ont., 1874.
Tilsonburg, April 15th, 1874. Tilson
Dear Minnie Ma
I like your colnmn greatly, and wish to
help by sending some recipes. Here is hep bod recipe for
ead pudurio.
One pound of stale bread soaked in on
quart of hot skim milk, two tablespoons of

THE FARRMER'S ADVOCATE.
ainced beef, dripping, two eggs, two hands
fall of currants; flavor with nutmeg. Boil wo hours.
will of curra
and
corn cake.
Six handsfull of corn meal, three of fflour ne of sugar, two small teaspoons of soda
three cups of thick milk, two eggs, a pin of salt, butt
quick oven.

## preserved apples.

Weigh equal quantities of good brown sugar and of appless peel, core and mince
them small. Boil the sugar, allowing to every 3 pounds a pint of water; add the
apples, the grated peel of one or two lemons and two or three pieees of white ginger; boil
till the apples fall, and look clear and yellow.

> OLD MadDs' CAKE.

A pound of flour, half pound of sugar, a quarter pound of butter or lard, four wine
glasses of sweet milk, half pound of raisins aquarter of pound of currants, the same of candied orange peel, a quarter of a nutmeg,
two teaspoons of ground ginger, one of cinnamon, and one of carbonate of sod
well, and bake slowly for two hours.

> APPLE PUDDING

Six best flavored sour apples, pared and
chopped; butter the pudding dish and strew chopped; butter the pudding dish and strew of fine bread crumbs, and a few small bits of butter; then a layer of apples, the least bit
of nutmeg, and a spoonful of sugar, and so of nutmeg, and a spoonful of sugar, and so
on till the dish is full. Pour over all a tea-
Bake thirty minutes. cup of cold water. B
Drop cakes.

One pint of flour, half lb . of butter, quar meg grated, a handful of currants, two eggs nd a a large pinch of carbonate of soda. To
he baked in a slack oven for ten minutes.The cakes are excellento ${ }_{\text {aggir Francis. }}$

Clarence, April 15th, 1874.
Dear Minnic May
As the old saying is "Better late than
never," I must try and write this month, as have long been wanting to, but thought helps me and I al ways sturn to it it first.
was interested in Jennie Jones' letter, for can sympathize with her by experience; but the only thing as it is the tork she has been given to do, and though I know it is so
wearisome sometimes, we would not lose the dear ones we labor for if it were twice as
hard. But I would just say- do not try
hat pudding that pudding again, and think it gives the
"blues," but Minnie's column will furnish simple ones. I will jast add one that if you think best to give, she may fancy it.
Hoping, dear Minnie, you may have plenty Hoping, dear Minnie, you may have plenty
of aid in your good work, I remain your
hope, friend and well-wisher, hope, friend and well-wisher,
A FARMRR's
queen of puddinas.
1 qt . milk, 1 pt. fine bread crumbs, $\frac{1}{\frac{1}{c} \text { cup }}$ sugar, yolks of 4 eggs, small piece of butter
and a little flivoring.
Bake but not boil this; spread jelly, apple sauce or preserves
over. Take the whites of the eggs and beat to a stiff froth; add 2 tablespoons white sugar and a little lemon. ppread this as an
iceing and return to the oven till a light
brown.
lemon cake.
Stir to a cream one cup of butter with two
f sugar; add the whites of six egys, beaten of sugar: add the whites of six eggs, beaten
to a stiff froth, 1 cup of milk, $\frac{t}{t}$ teaspoon-
full of soda dissolved in it, and tiour enough
. full of soda dissolved in it, and flour enough
to make it stiff as pound cake ; with the flourstir in 1 teaspoonful of cream of tar tar, 1 oz. of the essence of lemon or the
juice of 2 raw lemons. Beat a long time.
sally lum cake.

Rub a piece of butter as large ae an eg in a quas, three tablespoonsful of sugar, two
two easpons of cream of tartar, and one on
indian tra cake.
Three cups of Indian meal, 1 cup of flour,
1 pint of milk, 1 cup of molasses, 1 teaspoon
Mrs. E. Petch

$$
\text { Barton Rose Hill, April, } 1874 .
$$

Dear Minnie May,
I hope you will excuse me for not writing last month, as I was away from home and did not get back in time. Here is a recipe
for

Boil a pint of rich milk with a tablespoon of butter and one of tlour. Have respy in
a dish eight or ten slices of bread toast. a dish eight or ten slices of bread toast.
Pour the milk over them hot, and cover it until it goes to the table.

## kich man's puddino.

One cup beef drippings, 1 cup beiling
water, 1 cup syrup, 1 cup fruit, two teawater, 1 cup syrup, cup fruit, two tea
spoons soda, flour to make a stiff batter. spouns two hours.
for piciling pears.

To seven lbs. pears, one pint vinegar and
three libs. sugar. $\quad$ Peel the pears, stick the three lbs. sugar. Peel the
cloves in, and cook until soft.
for pickling green tomatoks.
To four quarts tomatoes, sliced, two lbs.
sugar, one qt. vinegar. Spice to tho taste: sugar, one qt. vinegar

## for makina flitters

Beat three eggs very light, add one quart
weet milk and a little soda; mix in a stif sweet milk and a little soda; mix in a stif
batter; fry them in fresh lard. To be eater batter; fry th
with syrup.
a btring
Beat three eggs; add a small bowl of sweet Knead stiff, roll out, cat in strings, boil som in milk and the rest in water; drain the water off, scorch a little butter and
over them. To be eaten while warm.
sago Puding.
Quarter lb. sago; boil in one pint sweet
milk until done; when cool add three eggs well beaten, 1 cup butter, 1 cup sugar; add milk enough to make it thin enough
baking. To be eaten with cream sauce.
plum pudding.
One and a half cups flour, two eggs, half
cup sugar, half cup butter, half cup creal cup sugar, half cup butter, half cup cream,
one teaspoon soda, quarter lb. raisins. Boil La E. Hess.
-Hemlock Hill, 1874
Dear Minnie May,
1 think Mr. Weld will soon have to devot every month it is better and more of it. I will send you a few recipes, \&c., now and
then, which, perhaps, will help to bring that then, which, perhaps, will het
good day along a little sooner

Two eggs, 1 cup sugar, $\frac{1}{2}$ cup butter, $\frac{1}{2}$ tea-
sponnul soda, 1 of ceream of tartar. spoonful soda, 1 of- cream.
stiff; bako in a quick oven.
jelly саке.
One cup sugar, 1 cup flour, 3 eggs, $\frac{1}{\frac{1}{2}}$ cup
cream, $\frac{1}{2}$ teaspoon soda.
pan-cakes.
One egg, two spoonfuls sugar, 1 cup swee
ilk, 3 cups flour, 1 teaspoon, soda, 2 teaspoons cream tartar.
ginger bread.
One pint molasses, 1 cup sugar, 1 cup butter, 1 cup sour milk, 3 egg, 2 teaspoon
soda, ginger to taste. Mix stiff.
milk gravy with fried pork.
Take out the meat from the frying pan or three spoonfuls. Wet up a large spoon
ful of flour with cold water, stir this int the fat while hot, and then add 2 cups milk
and stir well. Let it boil five minutes.
quas usefol hints. "، butter, ${ }^{\prime \prime}$ id 2 ounces. loaf sugar
best brow Ten eggs weigh brown sugar, lpound, 2 oz. sixteen large tablespoonfuls ?make a half-
pint, 8 a gill, 4 half a gill, \&c. M. W. Cayuga, April 7, 1874,
ear Minnie May,
I suppose you will receive me as one of your correspondents, as I wish to be usefu
o you. I will send you a recipe for making salt rising bread.
The night before you want to make your scalding hot; then stir in corn meal until it is as thick as mush, keep it by the fire at night. The next morring take a teacupful
of water as hot as you can bear your finger of water as hot as you can bear your finger
in it; pour it in the mush and thicken it with in it; Four ick as you can stir it; ; put it in a
Hour as thick
pot of water as wamm as you cab bear your niger in. In a sbort time it will be to the
top of your cup; then take as much water as you wish to make your bread with, and
have it warm; thicken with flour, and when
eool enough, stir your rising in it; it will b ool enough, stir your rising in it; it will be
ready to mix in an hour or less time; mix retty stiff; grease your pans well; als ight enough, put it in the ovend and bake it
Don't let it stand after it is light.

Here is another very good recipe a CURE FOR A bURN.
The white of an egg as a sure remedy for burns. of this substance soothes pain and effectually excludes the burned parts from
the air. This simple remedy seems preferthe air. This simple remedy

I will give you a recipe for making an
Fill a well buttered pudding dish with alloaf, and tart, juicy apples, peeled, cored and cut in slices. Sprinkle the apples thick-
ly with sugar, to which add a flavoring of y with sugar, to which add a davoring of
nutmeg.
Over each layer of bread crumbs throw small bits of fresh butter. The under layer should be bread crumbs, the top layer
apples, Bake half to threequarters on an
hat whites of throe egore it is io done, whisk the
wroth, with two
tablespoonfuls of powdered sugar, and a bit of lemon. Spread it lightly over the top, return to the oven to set, not color, and serve hot or cold.
This is all at $p$
This is all at present, but I will send you
nore some oth I ame. $\qquad$ Klma, April 18, 1874.
Dear-Minnie May
I hope you will
Thope you will receive me into your columns,
and as a prize was offered for letters, I will try my "luck" for your cookery Books
a recipet were in arecipe fr making wine jelly:- Dissolve one
lox gelatine in a pint of cold water add
pound of loat sugar and the juice and grated pound of loaf sugar and the juice and grated
rine of two lemons; then add a pint of boiling
water, and a pint of wine, some cinnamon and water, and a pint of wine, gome cinnamon an
cloves, let it all come to a scald; strain and put in moulds until wanted.
Two cupe of white exyar, half a cup of
water, one table-spoonful of vinegar, one-half water, one table-gpoonful of vinegar one onal
teanpoonful of cream of tartar;
will hard it will hard n by being dropped in cold water
when done add the flavoring then put it on
greased plate, must tir till it turns white then oh it. oheap pruit cake.
One, cup sugar, one cup butter, one and
a quarter Hour, three egk, one cup raisins,
ne cup currants, and a little eda ne cup currants, and a little
RIOE PuDDING.
To three quarts milk add one cup of rice
salt, spice, and sugar to taste. Bake three
four hours. This makes an excellent pudding. our hours.
Cut the meat into nice bits and warm a
little gravy; season with salt, sage and as ittle cayenne; thicken with flour and butter,
and a tittle anchovy auce. Dish up with
ippets of toast rund it. ippets of toast rcund it.
Beat six eggs, put in a quart of milk and
quarter ppund sugar, season with nutmeg, the dilk must be boiling. No more just now, Rebpectufully
Newry.l
Yours.
Cathebine Richmond

$\mathbb{C l}$ he 䩗0rse.
There are a great number of horses which
have the wastefful habit of Tave the wasteful habit of throwing the
eed out of the trough by means of a sit jerk with the nose. This is especially the andic is ind the search for the lose meat
which finds its way to the bottom of the trough, that the mischief is done.
have prevented the waste ely simply ave prevented the waste hy simply nailing
few bars across the feeding troungh. Thb horse then finds it imposible to throw his
feed out, and must take it as he finds it.

TTh | $\begin{array}{l}\text { feed out } \\ \text { Thh e ars } \\ \text { apart. }\end{array}$ |
| :--- |

swblitiva of legs
When the legs of a horse swell upon stand general or local. It would be well to increase
the food and quality. The following might Aso be of use-viz: Powdered sulp pate
ron one and one half ounces,
ant two ouncess; mixed and and divided, of pot potassia,
 powders. One of those given in cut feed a
intle moistened a opsible nigh and morn-
inround oats would be better feen tha
 Wollen cl.

Care of tram horsas.
The following good adviee to teansters
has been published in the form of a showy
 Siociety for the Prevention of Cruelty to to
aniumals.
It is sisigned by Daniel H. Blanch
 geons, agents of rail way and express com
panies, and by Chas. A. Currier, special Wha sciety :

A Cood Dricer: 1. A man who sees that good care is
taken of his horse ill stien stabe, by being
well fell with wholesome tood, of cracke corn and a ats, with plenty of goor hay.
Potatoes or

 fortalle, with plenty of bedding.
in thee mane of rock salt should always be left 2. He should see that his harness is kept
soft and cleaun, particularly the inside of the soft and clean, particularly y hho onnesside of thyt
collar, which ought always to be smooth as the perspiration, when dry, cumseoth, ir as
tion, and is is liable to produce gall on the The collar shoulk fit closely, with space
enough at the bottom to

 work horse be compelled tould to wear a mana, or any
Galie , as it
draww the gale, as it draws the head down, and pre-
vents
naturam roomo gotting into an easy auld natural position



 beariint,
bution should
not iuncluel





Keep the feet good and strong, by not al
lowing them to ge cut away too much by the OWwing them
blacksmith.
in

##  <br> 

$\underset{\substack{\text { and } \\ \text { sibly } \\ \text { w }}}{ }$

$$
=l_{\mathrm{cr}}^{\mathrm{ar}}
$$

hor
the be accoln
judgment
Remem
Rement.
prona, sensitive, nobse as a a very intelligent,
ul $k$, dreatest kindness. .
critical tine for couts.

It very often happens that in the third
year of a colt's life it falls off in condition stops growing, and becomes mysteriously poor and emaciated. Disease is suspeneted,
various nostrums and absurd suepicter
 apse of time that, a measure of impreve a
nent takes place, which, however ment takes pace, which, however, leaves
the ocol permanently injured and with an
inpared ocontitution inpaired constitution.
At this period of $t$.
At this period of the colt's existenee an
important tental change is going on.
 ceth in the front of its mouth are shed, and
the permanent teeth take their place. hhe permanent teeth take their place, If
the oott is at grass it is almost impossible
Cor tit to rraze and it suftes or it to graze and it suffers partial starva.
tiont.
This is is the whole secret of many Colt's sulferings. The trouble in such cases
would beavoided by occasionally examining
he the Houth, and when the temporary absence
of the niperss is observed, to supply cut
feed on ter teen of ten ent hay, with ground oats or soft
mashos en cut green fodder. This provision
would tide would tide over the neessarily occurring
period of of disalibitity and prevent the other-
wise inevitale fylu wise inevitithle fayyinanaway and and poverther of
condition, with its disastrous results. condition with
Yorkk $T$ ribune.
spolling - Horses' fe
It is almost imposible to get a horse shou
tetiout having the frog cut away. All ve terinary surgeons, all horsemen, all leading
blacelsmmiths agree that the frog should no be pared one particle, nor even trimmed. -
No mater how plialle aund soft the frog is, cut it away smooth on all sides, and in tw
days it will be lry midht as well cut ant and har heave as a chip. Yo
expect then
expen to
 spongy part oi the frog is to the foot what
levese are to the tree-the lungs.
lave
 is mechanio enough to level the foot withont
rell
rtilht iron, employ him.
lf you do not
 growth of that. There are many other ing
portant point in sin shoeing horses, but these
two are of
 foot; no toot, no horse."

One of the chery rive cur coustry farriers is that they have conplaints no sode by by
they are so so privileges os whithen, have none of the social
Piving in then might be theirs were the
 rented and the fanily move into town near a
church and school These reen
 employ their own rosourcess in social levelop-
ment.
There is no neighoothood col cesion Every max's hand is against the other man's
hand: every hand: every wonnan nurses scandal aganist
every other wornan. The ammenities of life
are neitere


ters. There are no reading
ters. There are no reading, singing, debat
ing, dramatics, or other olubs formed amon
the young folks ond the young folsk.s. There clabs formed among
for amusements or phave to go to towi Need we say that this
uneed we say that this is both wrong and
which conytry suppose the material out of which countrry sopiposese the it material ont of
erude and uncultivated to
Cult oomposed
is crude and uncultivated? Cultivate it. Here
is a fill for effor
intelligent. entron on the part of the more intelligent. Sfirt on the part of the more
in this directimulate
thiought and action in this direction and it winl be astonishon
how much the crudest and most tuntutored
will


 resources. Lrice and ald ambition, home talent and
don toung meet. Aban don formailies which ouly freeze out
natural accion and beget no warmth. Go in
fot for a good time in some way. Combine in struction whith amusement. Plan some pro-
joc which
of all. Thichall enlist the the active oo-operation oerery oneat no one as unimportant. Make
hary and and young, feel that he or she
has place, an las a place, can, and is expected to act a
part. Commend what is done well and kind ye and considerately; criticise whatever may This isolati

 ands should substitutute something else for it which shall meet the social wants and awaken at hucdred ways for improvement There are sure which will suggest themselves the mo.
ment
me ment the ico of reserve and self. distrust is
brolen
utilied these winter evenings should be atilized to get acquainted with each other-

> grts from canad.

hone total exp rts from Canada, being the
 The Mine, $86,471.162:$ Ti.heries, $84,779,{ }^{2}$






 export of domestic proficuts from Cannad
would be at the rate of sili.50 per head while al things included, the exports will be in value
what constrtutes a car hoad.
Blow will be found a statement showing
what constitutes a carr-load, and though may not exactly suit everywhere, it approximates so closely to the general average that
shiperss will tind it a great conven


 of hogs, 80 to 100 headd of sheep, 9,000 feee
of solid $h o a r l s, ~$ 17 heoo seet of solid boards, 17,000 feet of siding, 13,000
feet of tlooring, 40,000 shingles, one-half less
 one tenth less, joists, scantling and all other
large timber, 340 bushels
of wheat, 360 of corn, 680 of oats, 400 of barley 360 of thax
seed, 350 of apples, 360 of Irish potatoes, 1,000 bushels of bran.

> Where the cold has bern.

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in Nevana
Thin in its settlement by the whitest The








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do others will be sent for half price.
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them down to gather haovy hay
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Hiverpool Markets.


The Produce Market. Toronto, Friday, May 22.








 acar of No. 2 sold yesterday an 7 ac. .in atore.
of No. 1 buyers could be ound at 74 .

Merson Cheese Market. Ingersoll, May 21-Mrom all we can learn there May make. Buyers offer 12 ce or thet ct. As the Mat


Jan. 1, 13,506 boxes.-Chronicle.

## Montreal Markets.

FLoors-Receipts, 1,700 barrels. Markot stady and




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 hose or ose of a great many.
han thes then
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