Feb., 1874 Ebruary number.
he Hon, A. Mackenzie ex Agricultural Society, nent, 18 ; Politics, 18 nent, 18 ; Politics, 18;
duce, 18; Short-Horn at Cincinnatti, 19; The

1 Voice from the Backee of Wales' Prize, 21 ;
orn Cows, 22 ; Value of uernseys, 22 ; What is hing abount Jerseys, 22; Husbandry Abroad, 2 , Milk and Cream, 23;
hout Stock Raising on Dairy Farming, from View, 23; Sugar Beets 3 ; Origin of the Berk.
a Live Stock, 23 ; How a Bull for Breeding ashing Butter, 23; $\mathbb{E}_{x}$ Food for Oattle, 23. ers (illustrated), 24. 1strated), 24. (illustrated), 24.
 Lrricultucural Works, 25 ;
astrated), 25 .
 loration in the to North
lo Columbia Co., Wis,
as a Farming Country
 N, 28. RTMENT and Markets, , 32.

OOM'S EED CATALOCUE Tor 1894


or Tomato!



 RT, Martrobad. Mabs Mes


VOL. IX. $\left\{\begin{array}{c}\text { Willay weld } \\ \text { Editor \& }\end{array}\right.$
LONDON, ONT., MARCH, $1877^{\circ} 4$.


Prize Essay.
One of Vick's chromos is offered for the
best article on the manaseremer best article on the wanagement of farm
yard and stable manure. to be in this ofti'e by the 15 th of the present mouth.

## Barley.

One of our subscribers has forwarded a sample of barley raised rom seed brought than our barley, and said to be far more prolific. We have slown the sample to
our dealers here ; they cunsider we should


## The Rennie Pea.

Last season we disseminated a few of we have reports of their extra earliness no pea me have yet sold or heard of surpasses this variety in earlinuss. Marke
gardeners make yoney gardeners make money by them. They
gold in the Toronto market last summer soln in the Toronto market last summer
at ${ }_{\phi 4}$ per buslel in the pod.

## Spring Wheat.

We informed you previously that spring
wheat in this part of the country Whear in this part or the country was a poor crop last year, and that vur wheat is
shrunk ;
however, we have heard such complaints when we have sent purchased wheat out that we shall let those who re quire spring wheat have it, such as it is.
The Farrow wheat vielded the best with us, but is shrunk even more than the
Mccarling. We have had several highly satislactory letters from the north and but to the south and west we are con demned for swindling because they have not done well.
We will only
one bag or less to any one in quantities of one bag or less to any one; thus you can
not lose
much, and if it answers well with you much may be gained. We will not commend either more than we have
above stated above stated.
Our enquil
samples and accounts. F. W. Stone, of Guelph, the gentleman from whom, the Government purchased the Model Farm,
has honored us with a sample of the finest spring wheat we have ever seen ; $;$ it is white, looks like fall wheat, and is very plump. After having seen the sample we garding it, as we doubted its its being spring wheat. We went to Guelph and found out that Mr, Stone had procured
this wheat from a person in Utah. Mr. this sheat from a person in Utah. Mr.
Hood, of Guelph, and Mr. Stone were both well acquainted with the enentleman
from whom it was procured and both were fully satistied that it was spring
wheat. Mr. Stone had rnly what quan-
tity he intended to sow when we saw him tity he intended to sow when we san पinum,
and it was with dificulty we managed to secure a small quantity, and that at such ${ }^{2}$ a price as would scare most farmers. We intend to sow a little of it, if only four ounces, but will dispose of a few
ounces to such of our friendsas sand us one ounces to such of our friendsas s?nd us one
new subscriber. Mr. Stone didl not know the name of the wheat, therefore we have to give, it some name, and will call it it
SToNE'S WHTTE WHEAT. It has yield ell SToNES Whire WHE.AT. It has yiellel
as high as 60 bushels per acre ; it may be a most valuable variety for us, or it may not answer here This sis oue of the
chances of importing new

## Dairymen's Association.

 The annual meeting of the Canadian Bairy,yens Assciation was held inBelleville, on the 1th and 12 th of Febb'y The meeting was an interesting one. AI the number mereseng was well attended
 manifest the same interest as at Ingerroll, at least, there were not quarter as many
in athe addreseses of X. A. Willard and Mr. Arnold were of great interest. We may
ive them or extracts from them in future give them or extracts from them in future numbers.
There
There was an animated discussion on the coloring of cheese; some of the ven-
dors or agents of the different anattos dors or agents on the different anattoe
advocated the use of one kind, while others advocated that of adifferent stamp. advertised.
Some dealers considered high coloring he best to suit the market. It was no way improved the quality, flavoring or keeping qualities of the cheese, and it was also shown not to be injurious in any way, but aided in coverngn the defects of
inferior cheese. The white cheses wer shown to be quite equal in every respect to the colored. An inferior cheese could
be more easily detected if no color were be more easily detected if no color were
used, but consumers preferred the colored chease, thus the nuecessity of tuing int, as
Canada could not afford to be a teacher to Canada could not afford to be a teacher to

the consumers in Europe. Some dealers could sell the white cheese as woll as the | colored. $\begin{array}{l}\text { The question of color or } \\ \text { color must rest with purchasers. } \\ \text { If the }\end{array}$ |
| :--- | facts were really known by consumers that the white cheese was the best and most easily judged, and that coloring tended

to conceal defect, perhaps the coloring cheese might then be abandoned ; or if any well known factory was to abandon coloring, and once establish a name for
their celebrated white
cheese, other factories would soon follow the same plan.-
It costs some factories 850 .

Colloring. The coloring of chress, is some. thing like the painting of ladies' cheeks,
it may please the eye and eutrap the unway please the eye and entrap the unthan oue that does not paint.
It was shown that Canala can become he greatest Cheese explorting country in
the world.
Our grasses more suitable for dairying than Greater portion of the States. cheese has been gai ining a higher rank and year. ing dieculused, it marketing cheese bethat cheese should be sold early, one Inouth from the time of making being the ing it after hecoming ripe.
It was shown to be advantageous to skin tainted milk, as the impurity would
principally centre in the cream ;
other wise skiinming was objectel to, other We were pleaved to see so many friend there that took an interest in our undertaking.
Ploughing Under Green Crops.


Mr. Jus. H. Woolley, of Simcoe, send us a sketch of a plough with his attach ment for ploughing under green crops,aseful plans are, we have had a cut ' made We think of yoll can use it.
et seen. Below is Mr. Woolley's descrip ion and account of results. We think it eserving of your attention, when you
"Fasten
foasten one end of chain on furrow end he furrow; fasten the other end round the plough beam, as in cut, and give length o
hain according to heighth of grass plowed nder. Now, I thing you will understand y plan of doing it. I plowed under Ohio put it all out of sight, which would be im possible to do with a ball anll chain. A
cutter shear will work the best to plough under very long grass.
Jos. H. Woost to ploug

## Mushroom Growing.

As there is a good demand for mushasked for them being fabulous in com our farmers, gardeners them in Englan
robably make more by ruising them than ny other crop, where they have a suitAle piece of land.
the following mode of nay be of profit to some of our readers hat live within easy distance of a railfad station. He says :
"Take a piece of hlack muck and plogh
several times and harrow it then good ooat of hen and hot manure, and turn under.
urn up again it the for some time and
use the harrow again to tru ap again ; then use the harrow again tho turn under, drag the ground, and leave it
evel for the orop. The best time to fill in
Then
 enced farmers would try
tried it and it pays well.

## First Prize seed sower. <br> 

Mr. James Goward, of this city, is now manuarcuring a lot of these machines. ad made some improvements himself ; he made a few machines last year, and from he accounts will they will be in demand by those who have Mr. Tooley, M. P. for East Middlesex mong others, procured one last year, and ppears highy satisit. The ad. and is operated more easily than other hand machines. It being near the ground he wind can have but little effect on the ent the seed from falling direct on the round, as is the case with some hand sowing machines.
This machine took the First Prize at rass seed sower, and Sicoond Prize bs urnip seed sower. It will also sow wheat and other grain, as the operator may
choose, but its gratest utility is for sowg grass seeds.
It is worked by a series ot revolving rushes inside the seed box; regulators uantity per acre. 0 sow the required ot in use, can be so placed on'the barrow as to pass through a narrow gate. When at work it sows twelve feet or less at a time.
The
The price of the machine is $\$ 20$. We ave one at our wareroom, so that any small cost, us the sece box lifts off the parties wishing them.
34.

THE FARMER'S ADVOOATF-
March, 1874
jotat, we manimonaly make this delalatation or

 2nd Wo kearill endorese the monto., TIn nil things, hanarity

 and wamantod among oural vese to enhanco

 Sole

 taiating; to dviersify our crops and grow no
more than we can cultivate; to ocondense the
weight of our exports selling less in the bushel weight of our exports, senling 1ess in the bushiel
and more on hoof and in fleece; to systemize
our work and calculate intelligently on probabiliti+s, to discountenance the credit system,
the mortgage system, the enchion yystem and
the the mortgage system, the fashion system and
eevery other asyem tedingnt to prodirality and
bankrupter. We propose meeting together, bankruptcy. We propose meeting toge her,
talking together, working together, bying to.
ent talking together,
gether, selling together, and, in general, acting
together for our mutual protection and the ad. together for our mutual protection require. We
vancement the asoociation may
shall avoid liticigation as much as pussible by vancement the associa as much as pessible by
shall avoid lititation as much
arbitration in the grange. We shall constantly arbitration in the grange. We shall consbay
strive to secure entire harmony, good will and
vital brotherhood among ourselves and to vital hrotherhood among ourselves and to
make our order perpetual. We shall earnestly make our order perpet personal, social, sectional
endeavor to suppess
nd nation and national prejudices, Faith iful adherence to
all selfish ambition in in
these

## 

 bring producers and consumers, farmers and manuacturersinto. the most direct and friendly relations possible. Hence we must dispense
with a surplus of middlemen-not that we are unfriendly to them, but we do not need them,
Their surplus and their exactions diminish our Their surplus and their exactions diminish our
profits. We wage no aggressive warfare against any other interests whatever. On the econtrary,
all our acts and all our effirts, so far as busi-
ness is concerned are not only for benefit of pro. all our acts and all our efforts, so far as busi-
ness is concerned are not only for benefit of pro-
ducers and consumers, but also for all other ducers and consumers, but also for all othe
interests that tend to bring these two parties
into speedy and economical contact. Heties into speedy and tconomical contaci. He every
we hold that transportation companies of ever
kind are necessary to our successs: that their kind are necessary to our success: that their
interests are intimately connected with our interests, and harmonious acting is mutually
advantageous. Keeping in view the first sen advantageous. Keeping in view the irst sen
tence of our declaration of principes of attion,
that ind vidual happiness depends upon general
 prosperity, we shincease in every, practicable
every state the ine
way of all facilities for transporting cheaply $t$. way of all facilities for transporting cheaply $t$ to
the seaboard, or between home producers and the seaboard, or between home producers and
consumers all productions of our country. W
adopt it as our fixed purpose to open out the consumers. iar our fixed purpose to open out the
adoannels in nature's great arteries, that the
che channels in natur's great arteries, that th
life blood of commerce may flow freelyt
are not enemies of railroads, navigable and are not enemies of railroads, , avaigable and
irripating canals, nor of any corporations that
will will advance our industrial interests, nor o
any laboring class.
no any laboring class. Ln our nobie order there
no Communism and no aggrarianim. We are
opposed to such a spirit and management of opposed to such a spirit and management
any corporation or enterrise as tends ot op
press the people and rob them of their juust press the people and rob them of their just
profits. We are not enemies to capita, but
we we oppose the tyranny of monopolies. We long
to see antagonism between cappital and labo to see antagon sommon consent and by the
remooved by com
enlightened enlightened statesmanship of the nineteenth
century. We are opposed to exceessive, sala-
ries high rates of interest and exorbitant ries, high rates of interest and exorbitant
profits in trade, as they greatly increase
our expenses and do not bear a proper profits in trade, as they greatly increase
our expenses and do not bear a proper
proportion to the benefit of the producer
Went
 f red by legitimate transactions, legitimate
trade and legitimate profits. We shalad adrance
the cause of education among ourselves and
 power. We especially advocate for our agg
cultural and industrial colleges that practic
cutic agriculture, dome
which adorn the
courses of study.
5th- We emphatically and sincerely assert lhe oft-repeated truth taught in our organ dinate, is not a poitical or party organization,
No grange, if true to its obligations, can dis.
cuss No grange, if true to its obligations, can dis-
cuss political or religious questions, nor cal
political conventions, nor nominate candidates, nor even discouss theirionerits in int meetings;
yet the principles we teach underlie all true carried out will tend to purify the whole carried out will tend to puriy the who
political atmosphere of our country, for we seek the greatest good to the greatest number.
But we must always bear it in mind that no
Bue by becoming a grange member gives up
onat inalienable right and duty which belong

March,
to every Ame
terest in all th
contrary. it
in his power
the action of
belongs; it it in
belongs; it is
own party to
triekery, to se own party to
trikerery,
fut and hone
stand hone stand by ou
ted for all
ried out ried out the
characterize
office should office should
office. We
that difference that differenc
hold that progr rence of opin
nessof $\mathbf{n}$ antro
equity and ecuity and fai
restraint upon
tributing tributing b
power. It is
right as a fre
that that will best
6th. $-\cdots$ Ours tion we canno
are excluded
not because not because,
ontlabores,
ently direct ently direct in
soil, or may h
our purposes. our purposes.
zens for their
in for in our effort
eventially
vestige of vestige of tyra
the general de
able comprom able compro
an omen of ou
7 th. -It to relieve any
brotherroood Last, but n
our purposes
tion of the ab tion of the abi
indicated by a position in ou
assistance of
assistance of
in our work,
ful and harm return by our
justice, frater
forefathers.

Crop The Mark
the prospects
land, while su land, wh
seasons.
The The result
tural operatio
wheat croo tural operatio
wheat crap,
product of the product of
cerned, is all
farmers.
It farmers. It
partial, some
favored with thered with
the years 1871,
been far fro been far the fo
fair gnd anim fair and anim
at high prices
Nor is the a whole-30
w whld make it
whole a fair c mrice, , and th
likely to sell quite unequaa
With resp
mildness of $t$ the weather-
know whethe
able inftere abie inference
season in w
there was not ice strong en
vest of that
whe
$\qquad$
$\qquad$


The estimate of tht value of hand as the




now Laxd is mapr ix noums. D:

 within its meshes vast boidies of of naigight
waterer The mere outine of the country








 nalis shall have bean maid tor theo vivere
 verage depth of about ten feet. $A$ surve



## 

Gricultural.

The graat problem for ngri.








 $\substack{\text { animals } \\ \text { Potash }}$
Potash is foumd in grat abiudance in
Girman, thedeseposits are immense, over 30
 inst the
Farner
model farming.
It is unfortunate that the Local, as well a together ignore the cultivationtion of the soil al their campetition for premiums. As the suc-
cess of agriculture depends in a much greater
degree upon the excellence of caltivation of the farms than upon the size or beauty of th more conducive to the attainment of the end for which these associations are supposed to
have been instituted, that they should attiact attention to this especial feature by offering
premiums for the best plowed field, the best crops, and the best cuitivated, best managed
and best kept farm, as well as for the bes horse, cow, hog, or trio of poultry.
The description of the prize farm the most valuable and interesting parts o
the report of agricultural societies that come to usport of agricultural societies that come
to anope; and the plowing matche give rise to as much competition and pro-
duce as valuable results-if not more sce, upon the whole - then the strifes between stock
breeders as to who shall produce the choicest

Our plowing is something of which few
farmers will make a special source of pride and the general management of the farm
barn-yard, and stock-building barn-yard, and stock-buildings cannot be ac
cepted as at all approaching perfection, In
fact, our farming is susceptible of fact, our farming is susceptible of much im
provement as to its condition of efficiency little emulation among, farmers in this re spect while there is as to who shall have the fastest horse, the fattest hog or the best cow
or sheep ; the consequence is that the animal or sheep; ;he consequence is that the animal
which take prizes at the fairs sometime come from farms whioh are notable for ill-
kept fences, poorly-plowed fields light kept fences, poorly -plowed fields, light crops,
and dilapidated barns, but which yet offer conspicuously favourable contrast with those
of their less There is less enterprising neighbors There is nothing so "c catching" as im-
provement, and while our agricultural asso ciations have done an excellent work in cre
ating and fostering a taste for and are yearly causing a vast improvemen in the value of this class of agricultural pro ductions, yet there is a wide field for im
provement in our method provement in our method of caltivation, ou
modes of feeding or ways of raising crops,
our styles of buildings, our manner of dividing fields, fencing and in the general managemen
of the farm, which might be occupied of the farm, which might be occ
advantageously.--N. Y. Times.
cost of transportation affects both pro It is an established law of political eoono-
my that every penny saved in transportatio my that every penny saved in transportation
adds just as much to the value of corn, wheat, pork, beef, etc., where they are produceed,
Dr. O. W. Wight, in Western Journal of Agriculture.
The cost o
The cost of transit for a bushel of grain
between the foot of lake transportation and the head of seat transportation may doy doubtless
be reduced 75 per cent be reduced 75 per cent. [by the introductio
of steam on the Erie Canall, and by so much the Western Farmer's pocket will be enrioh ed. - American Agriculturist, It is an established law of political econ-
omy that the cost of an article depends upon the cost of production/and the cost of trans-
portation. Many circumstances portation. Many circumstances affect this
law, but in the vast majority of cases it holds true. Wheat sells at a higher price in New
York than in Chicago because it costs more to produce it there and costs money to get to produce it there and costs money to get
it transported. It sells for a higher prieo in
Liverpool than in New York for the same reasons.
If any man or community can seoure a special reduction in the cost of transporting
their grain, this saving will add to its valu where produced, just so much as is the sav
the dey marth syst Abundant experience has shown that earth
(not gravel or mand). when carefully dried
hatit has lost all hat it has lost all coherence or stickyness, an absorbing and reducing to an in inosedorous form the applied in quantities so as to co provied it


 ing off ony oftesenive odour. Similiarly, dry ash or
hardor anthracite may ben seed inteado earth
In densely populated cities and towne In densinty popule mated be ne need insteador eart and towne there
are difficulties inherent in this tystem whic are difficulties inherent in this system whic
will render its general use impracticable.
is, however, altogether different with countr is, however, altogether different with country
houses with land from which the earth
taken, and to which it may be pe profitably re taken, and to which it may be profitably re
turned. Here the wells will be protectei houses prevented, and the annoy unsece occasion
d by frost obviated. In prisons and lar ed by frost obviated. In prisons and larg
establishments where labor 18 oheap and poes ible in boarding schools, the system
en advantageously $y$ applied. $-E x x_{0}$
kerosene oil yor hen lice
Hen lice are among the greatest drawbacks
the pleasure and profit of the poult yard. They are especially troublesome in not have free access to green food and dry earth. We have tried various remedies, and and safe one. It is applied with very little trouble:-Pour it from the, can upon the perches where the fowls roost, and, when side of the box before the clean hay or straw is put in with the eggs. It is very much
less trouble to apply the oil than to use a wash of tobacco or to go through a proee an
of white-washing once a month, - American
Agriculuralist

THF FARMMER'S ADVOCATH.

Last year Earl Cathcart, President of the ed a prize of flua for thety best essay on the potato diseaspe and its prevention,
committe appointed to award the prize, aommed ninety-four assays, repexamining
twinenty-threof the nimber. They roort
that grat pains have evidently been talen twenty.three of the nimber. They report
thant great pains have ovidently been thane
with the preparation of these besays, with the preparation of these essays, and
thit the therores s ost frequently advanced

bhy the essuyiste mas be stated | Cause. May $\quad$ Prevention |
| :--- |

1. Dezeneration of the tuber.
2. Fungs on the
taber. aber.
3. Wet weather and generally supher.
abundant moisture.
4. Peronaspora in. fettants
foliage. Use of new sort
for plataning
drying or king
drying the tuber pro drying the tuber pr
viousto planting.
Uso of lime as Use of
manur.
Clum
Cla
景 the tubers. Thrying
hankes uright to
stakes, or growin of
sorts having erect
 ine duperior, chor-
atting oftops on
appearanace of disSowing
proof sorts
disease-
(either
 viry and very
Uigous sorstightni
conductors of tyario conductors of various
modes of construct ${ }_{\mathrm{io}}^{\mathrm{mo}}$
$\underset{\text { culent, or } \text { diseased }}{\text { c.Plethorico or sue }}$ condition of the plan
canase hy
specific manuuruses.
** * Among the 9+ essays abundant evi.
dence may be collected both in surpport and in contraatection of any of the foreggiut theo
ries, and it is sspocinlly noticerlle that the
 the potato disease, without giving any
gcientifioully yocurate theory of their $y$ ropos. ed remedy, or sufficient experimental Pron
of the ty
 therry particularly as the first con ition an at
 Like the thenriess of the cause of the disease,
the practical suggestions made with a view to practiar suggestions made with a vien
toits prevention do got beyoul those
with which agriculturists and horticultnrists were prviously familians and, ass regrid the contessed t,tant all the essanasist appear to be
infurrear of the present condition of scientiinfarrear of the
fic knowletce
The Judges have therefore, but with muel
regret, come to the conclusion, that in a acord regret, come to the conctusion, that inacorin
ance with one of the onditions on thich the
prize was offered, they mast recoum prize was offired, they mast recomnend
the Conacil noth ther it th the writer
any one of the essays that have cone before .any on
them
The

 cThic natural history of the potato fungus
fromt the tiute it attacks the foliage until the
 year, is at oresent entirely yuknown, and
thierofore offers a suitalle field for investisa-


 are other of the followink grounds:- $(a)$. That
the haulun dios out (and tilue potatoses arrive
 asthe resilt of experience, we bele lieveded capans,
 That a sum of money (say f100) be gran.
ted for the purpose of inducing a competent mycologist to undertake the investigation of
the life history of the potato fungus (Peronospora infestantss) in the interval between the
injury to the potat plat ance of the tungusio pin the following thearp.
That atuate


 produce of those
toresesisd iseaserence to $t$ in
keeping and cooking qualties.

The cultivation of the Ameatce



 one years crop, and this only the seond
year iop opration. From the report of the
manaver of the above company we extract year
mana
the
varie

 prefrred. The seed is sown by a machine
that we manufacture ourselves, which sows
to four rows ata time; the rows are 15 inches
apart and when the plant first comes up we hoe the rows to keep the weeds down, and
then thin out the plants, so as to loave the
the

 if the highest development of sacharine quali
tites is doserird. The ront of sugar-beet pene.
trates deeply into the
rround and always ties is desired. The root of sugar-beet pene-
trates doenply into the groud and always
flourishes best in deep, rioh, loose, mellow, Warm, and fertile soil, free from saline aud
alkaline constituents, not sour, and of a a natur
 yield per atre, on an anme cases it has boun
15 tons alt hough in som
as high as 20 tons. The best sugar business
 interests we have. At the present time we
are feeding 350 head of cante, from the pulp of the Sai Francisco marke
 stimulus to digestion. It gives tone to thi
tomach when imparied by ban excess of to



 or medicine, it shonld be administered it





 thorough digestiou of the food, but insure
perfece health
We have not the least llonbt of the elticiencey of salt in preventing manyy
of the diseases which have made such havoc
 of Ireland, it was reainued that the hoss fatt
tevect on aboutt one half that was renired



## the benefits that may be derived from the free une for salt among our domestic animals. One of the best known means, both as a

 One of the best kown means, both as apreventhive ond of foot-rot among
sheep is the santertering of salt over the affect sheep is
ed land. Salt for destroying insects.-It has long
been known प्रat salt operates fatally upon all

 destroyed by grubs, it had long been the
practice to mix salt with the seed in the
proportion of
 upen the tand inf theser bition vermin,
destroys them, and
ded bect applying salt upon growing crops, as too much
is sure to be injurious. One to five bushels is ar acre may ye spread broadeast upon mea-
po we in the spring or upon land at the time
do

 Pliny and columella. still it remained by
our soientific men to positively determine
outs value
det our soientinc men to positively eresults all
its salue in argielture, and the
tends to show that it is one of the most portant mineral substances known. The
ust on salt upon sheop pastures has been ob

gerved in Spain and Germany from a very | early period.. Its. efficaey against murrain |
| :--- |
| or rot |
| was $k n o w n ~ i n ~ E n g l a n d ~ i n ~ t h e ~ s i x t e n t h ~$ |

 long and almost obstinate indifiference of ou
farmers in the sue of satit is almost bevoun comprchension but the time must come whe
it will be extensively employed as a manure it will be extensively

- Nelv $Y$ York Sun.


## the decline of gratin farming in tile


 are farmers, This corn went to the supply
of fanilies in the villages, , livery stables


 thirty years. They do not raise their own
breasistuffor or provender. Wheat ceased to to
bea remunerative errop long ago, and the


 Almost every Hiere in thin bection ind icateen
the manufacturing int erest thrives, Smart towns have sprung up in the valeys of
of all the streams, and there is comparatively of ant hestreams, that is not utilized.
litle water power r
old homesteal is frequently sold to the neizhbor at a sacrifice, because the farmer's
interest io depressed
and the temand t interest is depressed any farms are sold
farmers is small. May
every year at a price that would not more every year at a price that woul too build
than pay orthe original oost of the bild
tings. When men think they can make more money in manufacturing industry than upon
the farm they will not tultivate the soil Grain farming which comesinto compenition
with then praries of the West neessariy
decines. A new class of people, Gesrmans declines. A A ew class of people, Giermans
and Irish are coming in
and cultivating fregal habits than Americans, are eager to
become land holders, and in a fow years owi secome land-hoiders, and ind
the farms. This doe ine in the grain products
to News England has in its compensations Fruits and vegetalles take the place of the

new agricuiturur maching
The English Mechanic says. Messrs. Mc
Donuel and Leenchan, of Dublin, have in vented a machine which performed the the
operation of rolling, sowing, and harrowing



Maroh, 1874
rapidy delivered, a atar wheel of four points
keeping the conductors in constant morion. eeping the condactors in constant motion,
AA the seed is strewed a harrant for row
of oblique teeth set in a central axis turns As he seed is strewed a harraww of four rows
of oblique teeth set in a entral
up the earth over thuns seen
The harrow is kept in motion by an endless chain or belt
which passes round the extreme end of

 circuiar harrow turns nearly five times, cans-
ing the teet to tear up the soin
twenty times at each of the revolution Mean while the seed cultivator and distributor rises and falls wenty times suring eacho
these revolutions and there is
 can be reguated. A lever is also connected
with the support of the harrow, and rest
pon the fulerim upon the tuperum placed at a suitable part
of the fram of the machine, by means of a
lever the harrow portion of the machine can be raised off the ground and the roller only used and the distributor or sower may
be worked simultaneously by moons of the
 low of seed stopped. The machines can be
tasily made to suit either the purpose of aasily made to suxt either the p $p$
owing corn or grass for pasturage.

The 筑0rse.

## Sand.crack or fissure in the hoof.



 areeted, while others contend for the orimin




 rotruaing not unfrequently in bad cases, a,
trip of , nryry looking or inflamed flesh, which daring motion is severly pressed, and the ree
sult is hleeding and lameneses. Fissure always becomes worse by
non-removal of the oriyinal cause. Fissure is never present in instrong, sounc an
nmutiluter hoofs.
The most common locality
 the front of the toe of the hind foot. Those
thimals having thin, shell $y$, weak $h$ hooss, more
 is pratisted, are the eommon subje ets, and the
liatility becomes
gratater as the work
is prose-
 terially to the occurrence of fissure as causes
of destruction, and these need only he applied

The immed
 the hoof, which insares
directions, and assure in ong opposite
a results tearing onen or diections, and as aressut, tearing open ort
geparation the substace of hoon at pornt
mid-way rrom the extremities of of other parts



 split and weak, and presure weight cannot all
whys be equall distributed over a level iron
shoe.
 in contrary directions so many torces pulling
posing surf
add
anf




 dice that
dibest
bearit
to ent

March, 1874 per shoeing," our pur,
Pttention to the ditention to to the ark
disease und
and con consid disease under consid
ceed to detail the oour emarks on the ado
vill be given. Fissure in the When a treach in on on
part at the coronet, part at the cornotet,
bot tor an the oor
to orm soond hoo
 arily practised, is to the breach and to pre
ing of it by the forma Horres that are ver
require rest, probably
litie ocoling medic
medi measures are being
junct in treatment is which is covered 3 or
dut
cosereret by by a a laye of of ouverdaby al layer of
nay decide; the boj
nat


 greater
meanse of cuilteies
Severe




 | or tear open, and sul |
| :--- |
| Ther ret or the tral |
| over the coronet, im | and the space of an

wards the brealth ordinary blistering
and
blister rory tut ter repe Bister may be repe
eral t timer until th

downaras in the | $\substack{\text { dititwan } \\ \text { inth } \\ \text { With }}$ |
| :---: |


 danted on on ariedin
dutit and or this pu
which the froz
 flat, and care must
sonn portions of h
to be driven to be driven.
Added
to




Nearly all anima
oper eating. In
 a majority of cases
An example of its
in with the ot in with the intelli
cows was very sic
posed the usual
puta posen the usual
ower being ill an
 placed in a junk
warrd, and the wat
 was in the paste
Another hntane
with a heifer wi eatian green apple

Lloat was so seve | most as arr as as as |
| :--- |
| - saleratus - was | correcting the aci

put it down alwa put tit down alway
litte goont
charconl was next charecal was nex
the eppeanco of
heifer was well.

## Take white pin honey, one ozz eaci




March, 1874
THE FARMMFR'S ADVOOATH.

 ceed
remarks on on the
will be given.
 bot an as the hoot grows, and no diapsosition
to form sound hoof at the top takes place

 the breach and to prevent the desirable shoe.
Heqres stat are very lame from fisure will
require rest, probably also fomentations and

 cust or tan. Whether this should be again
covered by a laye of straw or chanf, the owner
may decide, the object to be attan in that of providing such means that will conform to
the ehapeoo the under part of the hoof, and
thus produce, under the weight of the animal, thus produce, under the weight of the animal,
equal pressure on everv part. In this way the
desired amount of comfort and fredom from
pain will be afforded, and, at the same time pain will be affordeded and, at the same time
greater facilities will be added to the usual means of cure.
S.veral plans are adopted by veterinary
pratitioners for the core of fissure. WVe ivive
phe following as the most useful. If the crack prae following as the most useful. If the crack
is recent, slight, or casing no pain or lame-
ness the nimal mays. is recent, slight, or causing no pain or lame-
ness, the animal may probably b bekept tat work
and a cure effected. To do this the shoe should be properly fitted, and a strong piece of tar-
cord passed round the hoof at the top several
times. This will prevtno the liability to spring or tear open, and support the hoof very much.
The rett of the treatment consists of rubbing over the coronet, immediately above the crack
and the space of an inch upon each side-up-
wards the breadth of two fingers ordinary blistering ointment about the size of
a hickory a hickory nut. At the end of ten days the
blister may be repated, and if required, sev-
eral times, until the hoof is cased to grow
downwards in a sound and stronter condition.
With regard to the application of the shoe,
it may be explained that the same condition between it and the hocf shoul. b be established,
as that which is produced when the foot is
a as that which is irotuced when the foot
planted on a yelding surface of tan or saw-
dust, and for this purpose a bar shoe is best, by which the frog may take a share of weight,
that part beneath the crack being entirely re-
Heved. The nails used should be thin and flat, and care must be exercised in choosing
sonnd portions of hoof through which they are
to be driven. to be driven.
Added to
Added to this, subsequent shoeing should
Chbrace the major principles advocated by Chariier, so far as the treatment of the hoor
and the fitting of the iron armature is con-
ceined, and by these means sand-crack, so called, will not only disappear, lut the hoofs
may be may be restored to a properly strong
sound condition. - The Farmer.

Nearly all animals become sick from im propertion is wrong. Charcoal is the most
difestion
efficient efficieent and rapid corrective. It will cure
a majority of cases sf properly administered.
An example of its use:- The hired man came a majority or cases if properry aired manisceame
An example of is us:- The hire
in with the intelligence that one of the fincst cows was very sick, and a kind neighbor pro-
posed the usual drugs and poisons. The owner being ill and unable to examine the
cow, concluded the trouble came from some over-eating, and ordered a teacup of pulver
ized charcoal given in water. It was mixed placed in a junk bottle, the head held up-
ward, and the water with its charcoal poured downward. In five minutes an improvement
was visible and in a few hours the animal
was in the was in the pasture quietly eating grass.
Another instance of equal success occurred
with a heifer which was badly bloated by eating green apples after a high wind. The
bloat was so severe that the sides were almost as hard as a barrel. The old remed

- saleratus-was tried for the purpose
correcting the acidity, but the attempt to
put it down always caused coughing, and di
little good. put it down always caused coughing, and di
little goon. Half a teacupful of powdered
charcoal was next given. In six hours all the appearance of bloat had gone, and th
heifer was well.


The Use of absorbents in stables.
J Wilson writes to the Practical Farm J Wilson writes to the Practical Farmer
Condeming the use of absorbents in stable
We We copy the substance of the article:I have never used sand as an absorbant in
stables, though I have used a great variety of
other substances for that purpose, but not by other substances for that purpose, but not by
gues neither as to the eoonomy of the use of
bssorbents as bedding for animals, in minis. absorbents as bedding for animals, in minis-
tering to their comotort and health, , nor in aug.menting the stock of fertiliziziog materials on
the farm in their use; for $I$ kept a carful a a-
coun of the cost, also carefuly observed the coun'; of the cost, also carefuly observed the
effect on animals, and I lony since arrived at
he conclusion that their use as absorbents in the conclusion that their use as absorbents in
stables as bedding was a filthy, barbarous, and
uneconomical practice. uneconomical practice. well established I set
With this conviction whe
about with dilisicnce and determination to construct the floors of the stables that the
liquil excement would be removed from the stables by drainage, as effectually and as ra
pidly as possible. In this, I am happy to say I suceeded, so that I I am now able to keep both
horses and catile in the stables without the use
of bedding or absorbents of any kind and the horses and catilie in the stables without the use
of bedding or absorbents of any kind; and the
animals are more cleanly more keal animals are more cleanly, more healthy more
comfortable than they would be with any
amount of any kind of aboorbing bedding. A
clean, dry plank floor, without any beddring is clean, dry, plank floor, without any bedding, is
intinitely more comotorable than a bed of
straw or any other material saturated with straw or any other material saturated with
urine. The purity of the air of a stable in
which no absorbents or beddivg are used, is a delightful contrast with that of one under the
old system.
The animal heat of the bodies of animals in
 crement, eliminates the putrid gases with
sum rapidity that a colose stable is soon filled
with it and the air in it is rendered utterly unfit for respiration. Not one of all those
having in use any improved system of stable
drainage, could be induced to use drainage, could be induced to use absorbents
to retain the urine in the bedding. The great economy in dispensing with the
use of bedding, the errat purity of the air of the stable, and the dry and comfortable con
dition of the animals, compared with the old system, only neds to be practically tested to
effectually removed the prejudice in favour of
the use of abs rbent bedding, which universal custom has become so firmly rooted in the the
minds of all who plod oun in the practical
affairs of life, without thinking. afiairs of practice of of those who use bedding or
ahborbonts in stables, is usualy to cast the
straw, or other materials thus used, out into an open yard, where the heap is exposed to the
leeching effects of rain, by which a large por
 through openingatte and horsess pass directly
throw for it in the floor, int
cemented gutters, from whence it is soonducted cemented gutters, from whence it is conducted
throngh glazed terra cotta pipes to a urine
cistern or tank, from which it may be taken and all be utilized; either by applying it to the
land in the liquid form, or by using it to satu
rate substances to be composted, of which the rate substances to be composted, of which the
solid excrement from the stablesis
theneraily
thost valuable. When the urine of animals
is the is thus used, the compost heap should always
be under cover otherwise the liquid portion,
the most valuable, is liable to be disssipated.
AMATEUR Horse-breEdi
amateve horse-breedia
Tho subject of horse breeding resent time absorbing much interest, no Mone from people of agricultural pursuits as veathicer class engaged in mercantile and
professional employments, many of whom professional employments, many of whom
also indulye their fancy in amateur farming.
The study is so fascinating that its votaries The stuly is so fascinating that its votariee
frequently become absorbedjin it to that ex
rut that they are accused of being possesse a mania, and in truth the term is oft-time well applied.
The incent
he subject with some sis, the profit which
responds so bountifully to the por responds so bountifully to the most suceess
ful endeavors; with others, it is glory of the
uchievement; 2nd with still certory chievement, and with still certain others,
che quiet congratulation of watching the re
sults sults of well-considered selections and care-
fully-directed crosses, in varifying or disapproving acquired theories. There are all
rades of minds engaged in manipulating it and corresponding results variously follow
put so much is the element of chance or for tune interwoven with an unquestionable de
ree of science, in solving the breeding prob-
ems which present themselves to each indivi Cual breeder, that frequently the more carefuu
student is outdone by a mere haphazard ad student is outdone by a mere haphazard ad-
venturer. No breeder of intelligence in these days pretend that the production of trotters
or race-horses is a mere matter of clance. All experience goes to prove the contrary. On
the other hand, when certain well-known
conditions have been complied with in the conditions have been complied with in the
chice of hreeding animals, and the care of
the stud, there is beyond that an unexplained
variation in results, that for want of better
according is a scribed to chance, and this
variation acts so important a part in the genvariation acts so important a a part in the gen-
eral experience of breeding as to throw just sufficient uncertainty into the scale as to lend charm and excitement to the occupation.
In common experience it is safe to say th In common experience it is safe to say, that
of the colts annually bred for trotting and
racing purposes by 'acing purposes' by amateurs, not one intweny ever return a profit to his breeder if
etained until maturity; and yet from year
to year the number bred is constantly on the to year the number bred is constantly on the trife for pre-eminence is to greatly improve the standard of blood and value of the comimportance as a quustion, bearing mapon polit-
ical economy; and therefore, while the labor ical economy; and therefore, while the labor
of the amateur horse-breeder is but a "labor of love" in a majority of cases, so far as per-
onal prom sense altogether a fruitless one.
While we speak thus discouragingly of the by the antrage amateur, we are not blind to the fact that individuals among them ar-
rive at very different and more satisfactory results. This, too, appears to us to be in
some measure the legitimate fruits of welllaid plans, carefully conceived and carriee
out. The subject taken in all its bearings is too extensive for full discussion here, inass-
much as the usual mode of barely statmuch as the usual mode of barely stat-
ing theories, without citing facts and ingy theories, without citing facts and in
stances in abundance to sustain them, is a
round that has already been too thoroughly tramped over by enthusiastic writers for us footprints to the common mererely theoretical
What the more than anything of the for theseirentighthenment of past experience in coupling, rearing, break of past experience in coupling, rearing, bry
ng and handling. -Spirit of the Times.
management of a refractory horse. A beautiful and high-spirited horse would aller allow a shoe to be put on his to handle his feet. In on
altempt to sloo such a horse recenty attempt to shoe such a horse recently he re
sisted all efforts, kicked aside everythin but the anvil, and came near killing himsel
against that to the stable unshod. Tha defect wash back
on the eve of consigning him to the plow where he might work barefoot, when an
officer in our servie Mexico, took a cord about the size of a com mon bedcord, like a lititand tied it tightly o
the animal's head, passing its left ear unde the string, noad, painfally tigst, but tite tigh
nough to keep the ear down and the cord in its place. This done he patted the horrse
gently on the side of the head ani commanded him to follow; and instantly
the horse obeyed, perfectly sulblued, and a a
gentle and obedient as a well trained suffering his feet to be lifted with impunity,
acting in all respects like an old stacer. Th acting in all respects like an old stager. Th
genitleman who thusfurnished thisexceeding
simple men y simple means of subduinga verydangerous
propensity intinated that it is practiced in Mexico and South America in the manage
nent of wild horses. $-N . Y$. Commercia
Adverti ment of will
$A$ devertiser.
care of horses.
All horses must not be fed in the same
proportion, without regard to their ages priety of such a practice is -the self-evident disease of every kind.
Never use bad hay on account of its Never use bad hay on account of its
chapness, because there is no proper nour-
ishment Damaged corn is exceedingly injurious,
becanse it brings on inflammation of the bowels and skin diseases.
Chaff is better for old horses than hay,
because they can chew and digest it betty because they can chew and digest it better,
Hay or grass alone will not support a horse
under harl work, because there is not sufficient nutritive bolly in either. Whould be chiefly oats if not worked lhard
if
its fool shord supply more nourishment hay, because oats
material than any other tosh-making material than any other tood-hay not so
Mix chaff with corn or beans, and do not give the latter alone, because it makes the
Fors a hew his food more and digest tivetier
For horse chew his food more and digest tithetrer
Eor a sadde or coach horso hatel $\ddagger$ peck o
sound oats and cightecen pounds
uarterof a peck more oats. A horse which orks harder may have rather more of Rack feeding is wasteful. The better plan
is to feed with chopped hay from a manger, is to feed with chopped hay from a manger,
because the food is not then thrown about, Sprinkle the hay with water that has salt
dissolved in it, because it is pleasing' to the animal's taste, and is more easily
anderne A mablesponful of salt in a buc-
digested.
ket of water. water.
Oats should be bruised for an old horse,
but not for a young one, because the former, through age and defective teeth, cannot chew them property, the young horse can do so,
and they are thus properly mixed with saliva
and turned into wholesome nutriment and turned into wholesome nutriment
cure for scratches
Editors Western Rural:- Will yon give
me a remedy for scratehes through your Columns. Omaha , Neb.
-One of the simplest remedies for what is grease, is gunpowder mixed with sufficien when rubbed in. This is for cracked heels, which may or may not run into grease. A better remedy, however, when it oan be
obtained, is half a pint of animal glycerine; obtained, is half a pint of animal glycerine;
two dhrams of chloride of zine, and one pint
of a strong solution of a strong solution of oak bark. If the animal seems feverish, and out of condition, a
drink composed of half an ounce of liquor
and arsenalis, one ounce tincture or muriate of
iron, and half a pint of water, should be given iron, and half a pint of water, should be given
very night for three or four days. the foot of a horse.
The human hand has often been taken to
illustrate Divine wisdom, and well so. But ave you ever examined your horse's hoof?
It is hardly less curious in its way Its? parts are somewhat complicated, yet their
lesign is simple and obvious. The hoof is ot, as it appears to the careless eye, a mere
nomp of insensible bone fastened to the leg by a joint. It is made up of a series of thin
ayers or leaves of horn, about 500 in num. er, and nicely fitted to each other, and Chere are as many more layers belonging to
what is called the 'coffin bone,' and fitted and thase are elastic. Thake a quire
of ther and insert the leaves one by one into those of another quire and you will get
some idea of the arrangement of several lay-
ers. Now the weight of the as many elastic springs as there are layers in
his four feet--about 4,000 -and all this is ontrived, not only for the convenience of
is owu booty, but for whatever burden may be laid on him.- Rural Home.
effects of vegetable perfumby on healith An Italian professor has made some very
greeable medical researches, resulting in the iscovery that vegitable perfumes exercise
positively healthy influence on the positively healthy influence on the atmo-
sphere, coverting its oxygen into ozone, The thus increasing its oxydizining influence, The essenses found to develop the largest cloves, lavender, mint, juniper, lemon, fennel, and bergamot; those that give it in small
gaantities are anise, nutmeg, and thyme. The Howers of the narcissus, hyacinth, mignonette,
heliotrope, andlily of the valley, develop ozone in close vessels. Flowers destitute of perbut slight perfume develop it only in small
unantities. Reasoning from these fact Heantices. Reasoning from these facts
the proessor recommended the cultivation
of flowers iu marshy districts, places infested with animal emanations, on account of the powerful oxydizing influence
of ozone. The inhabitants of such region should, he says surround their houses with The traffic receipts on the is. T. Pairway
for the week ending Jan $£ 40,600$, against $\{\underset{\text { con }}{ } 1,6000$ in the correspon ding week of the last year, showing an in
crease of $+13,000$.

Iv eleaning tea-trays, bread-pans, candle-
sticks and other articles made of Japan-ware stict water should noticles be used, as as it will
hot water fractures and cracks ; lukewarm
produce facture
water is the best to use sound oats and eightech pounds of gool ha
are sufficient. If the hay is not good add

THE F'ARMVER'S ADVOCATH

TOCK \& DAIRY N. Dickey $E d$ aking good pork.
The Utica N.Y. Herald thus discourses There are many familiestinat raise their own pork, yet what a miserable articte do
wit eo often find flabby, grasy, running to
oil when cooked, and frequently rank, someoil when cooked, and drequentyly rank, some-
times hinting of the sty, and sometimes. of times hinting of the stye, and sometimes
worst thing. Now that then you meet with
sweet, white, solid pork, that will bear fry nge and is perfect tooked in any way
minding you of Elia's inimitable roas crackling. And such pork is healthy as
well as relishable., $\%$ Besides, it costs no nore $\underset{\substack{\text { to } \\ \text { stuff. }}}{ }$
Why this difference? Why should wo us

 trade or otherwise they use, and such feed
as they may have, often refused by the poorest, thay give withoun reeard to cleanil
neas or coutfort. And thus the one kind ess or coutort. And thus the one kind of


 titr. But experiene has long ago demonsound old corn to make solid, s. seet pork,
regularly given, never too much at a feel ,
 osy, woll aired, warnin in cold weather, coo
in hot
A ho, though he will wallow亚
 him -he will lake maniesten by unistakable
gqualle, and activity and an aceess of heat squalls, and activity, and an aceess of heat
will make him suffer. These are to be avoi led. Filth in
table into pork.
cows and clovel
Norman Sparr, in an address be fore the
Candian Dairmmens Association, at their
1,
 clover:
ment, producing quantity andi 'tuality milk in eeact proportions, to the quanytity
and quality of fool and water she consulte
 perform to obtain her living, the suffering,
she las to endure from excessive heat, collt, he has to endure from excessive heat, colv?
hunger, thirst or cruelt, from whatev source it comes. Her taste craves a variet of food of suitable qualities to produce, Yored, in order to sustain dean life, the eat
ond drink food and water so fillhy and un uited to her nature aud wants as to p 1 nir duce disease in her whole system, her miil foeling it as quick as anytuing else, it
believed, if left to choice, she neever woult
learn from halite learn from halit to drink impure, lul-
hoalthy water, nor ent eat sild Deaves, ,ulsh
or weeds of any descriptoun or wedd of any description, or rotten,
mouldy fodder, or decayed apples, pum-
 get all she desires of those articles in wild least she eats, everyy vile weel in her
 acquaintance with cows and milk, I lave no doubt of the ntilty of the largest kind of
clover on which to to lay the foundiation of the best pasture for dairy stock.
Ist.
Beccanso it takes the soil and leaves no chance fors weeds to of milk. Because it furrishes the largest diantity gool, now ins forl for stim Boil can proluce, when the overatero fully
understands the trade of maungying it pro3rd. Because clover is the only fertilizing
crop the farmer ever raises, and the larger
$\left\{\begin{array}{l}\text { the } \\ \text { acr } \\ \text { acr } \\ \text { 品 } \\ \text { de } \\ \text { ea }\end{array}\right.$ aere
ath
low
decid
equal
clove
clover Mistance ahead of any of the other grasses
ever raised.
evt outh. Because the land is so much easie
cutt ivate where elarge orop of
but reeren have but recently beere narge off
soil in any other manner
oth
 tured or cut for hay at the same time, which
removes a very great objection to the medium emovesal kirds of clover.
and shal
7 si long as any other red lover, and will
grow with proper care on the horest land
hat will grow any of the other frases that will grow any of the other grasses
grail enough to half pay for cultivating ti sth. Beause it gives the best. Held of of
seed for any term of years, furusishes the best whenthe seasono are un usasully dry, its roots
penetrating the soll so deep that a drought
petruts in the isturns.
Orest.
9th. Because, as the seed is generall sold, we can put the same number of seeds
on an acrea t tess sost for seed than of the
medium or small kinds of clover the seed being so much smaller that the price has al
ways been the lowest when estimated $b$ l. numbers of secas instead of by weight.
10th. Beeause the crop is so
iittle affect ed by dry seausonsu that the cows are sure
to have a good supply of good feed in sum
 woody to masticate than the same size stask
of any of the other kinds of clover or orther srasses. Because on any soil it branches
from the mall stalks five times as much as
 number of branches and heands oure every
stalk the root senls forth, and never dries unp beern fed off, as the medium clover
does, but keeps right on branching and yrowing from the main oll stock till late
in the season unless they are cut of thear the Nots.
ofth. Beanse clover is the richest food
of all the grasses for stock of any descrip.

 care is just as
In using corn.

## 

Lextract from the report of a di
hhe alvantayes of dairy farmins.
 interestel in a cheose factory) But, if peo thecir own gool will to please themselves,
perliuplys hlyey haul lexter keep out of it. Most

 supported. That would be the logical con-
clusion.
cut wo
cuthe that. For any class of people, whether rich or poor, there is is probaly no no cheaper food
than nilk if it can be oltained at fitst costi








moch better quality of butter, and there is
nothing which well that aviese so munh
ion price In price and quality is butter. II our large
cities it traires from ten to seventy- five cents
Git butter mostal ways commands a remunerative price- it would not pay to make a poor rar-
ticle. In the vicinity of chese factories,
where there Where there are large quantities or butt
made a demand sping an for it, larye tea.
lers in cities kno that and they are looking around for it. Adrian
 being kept in the country. The quality of the butter brought into market is yery much
better; or, in other words, there is more the first-class article. There 1 is yet to little
difference between the price of the good and
 any porifernee The good must sell the the
any rifire. Thinks it takes about three acres to
peep a cow one year-two tor the sum
 eeping a cow upon the proguce of two acres
in ashort time. Allowing three aeres for the keeping of his cows during the past year,
$t$ would give a return of eighteen dollars per acre. There is no grain crop except wheat
and corn that will compare at all with the profits of a dairy. Wheat is a very uncer-
tain crop. We frequently hear of crops that are not worth harvesting, also 4 bushels per
are. Have had it yield from five to ten acre. Have had yiet irom five to ten,
fifteen and sometimes twenty five bushels
per acre. A good crop of wheat pays, but
 eas per acre as much assit wian werage one
year with another.- - Trom the Michiggh $F$ cor-
mer?
$\underset{T}{\text { The pric }}$
The present winter is hard one on New
 fiven that it will addance. Corn is being hay at the going prices. Mr. Wiilard ad-
vanaes the opinion that the prouect from
zon cows was 40,000 pounds less during last

 cows were 850 to os io pr heal. Conside erable
losses have no doubt ocourred from the trans losses have no doubt ocanred from the
actions of the year.- Western Farmer.

At meeting at Jamestown,N.Y.Y. several
lairymen agreed that 150 opunds of butter
lier cow per year was about the averave pro per cow per year was about the averace pro-
duct of dairies gonerally. The largest yielid erported by any one present was 900 pound
from trece cous selected from 15 and 200
and lomuls per cow for his dairy. One with as
dairy of 29 cows had the follawing average

 The year 1873 has been marked by a very
large imporation of oleese to thas country.
The













in the past year, there are yet many dairy
farms which show no improvement in their









 danaged, or inferior chese are less \&aleable
even at reduced priees than they were $\&$ few
days lays ago."

We haye reeeived the following ciroular from a produce merchant in Montreal, and as
the directions are valuable we reprint it: The season havivig arrived for reill butter, I beg to offer the following directions to my
friends, which, if fully complied with, will triencts, which, if fully complea with, wit
enablethen to realize the highest market
Inotations for their butter, instead of the avest, as is most generally the case, which is not the fault of the consignee. There is
nothing so unsaleable as bally packed roll butter; buton the contrary, if packed nicely,
it sells readily, and generally from two to it sells readily, and generally from two to
ive ennts cents per pound more than the same quality packeded solid in in firkins.
Use none but the very best new barrels,
and be sure they are not burnt or dirty in aud be sure they are not burnt or dirty yin-
side
should te end you intend for the he ho you
show; then tale out the botom shand and cutt a a piece of fine white muzlin, the size of the head, and place it on the bot-
tom of the head of the barrel (which will be the head when opened.). Commence to pack
your finest and smallest rolls first, being your finest and smanlest roils irst, being
sure to park each roll on on to mallest
end. Be carefuland select rolls that will pack snug, so that therec will be
lor the rolls to shake alout. packing in this way until the barrel is almost
full then shake the barrel well (to settle
the
 on their ends if possible, , but if theref is not
roonn, 1 will not matter if they are packed on their siless, if they will pack snug and
fill the barrel full. The great obiect is to have the rolls packed dolose and tight, so that
they will not shake alout and break.
 have itlaryge enough to cover the soil entirely.
The muyl The muzzan should be soaked in strong brine
before unisg and put on the roll wet. It is
impesibe to imperesisile to soll rolls to market in good
order without wrapping them in muxin. and
and
 pricese then roils, thus saskeel, will bring.
Before heading th harrel
 luarts or strong pickle. Cover the last
layer with p pieco of muzin the same as you
do on your head. Nail up the barrel well, beeing sure to drive
three nails in each hoop. Then turn the barrel over two or three times. so an to let
the brine you have poured work in between the brine y
the rolls
Mark the Mark the top in plain letters "roll but-
ter,", also the gross weight, fare of the barrel, ant and thes initials of the shipper.

I have a little experiment I have tried on
ten ewes. The reason, my doing so, I have often been told by men that should de farm
ers, that sheep did not pay. Some time
end ers, that sheep did not pay. Some time ago
I purchased in the fall of the year ten useful eves partly of the Lincoln breed and also a
Lincoln ram laml which you will find in my Dri. and Cr. aceount.
They had nhthing bot what wes 1 st. of Oct.
ahoutt the phace and hle they got runcing about the place and plenty of peasstraw
untit the firist of Felbruary, when I gave them

 next tive weeks I gave them 4 quarts grain
aud one bushel of turnips with a litte clover hay daily Then har dow whambeld having six.
ten laubs salthough one was a crooked

March,


By ram la


March, 1874
THTH FARMMER'S ATVOQATH-

driven a long distanoe, and for several days
have had little better grazin than they conld picis up by the side of the drititwey.
When he gets them home he immediately When he gets them home he immediately
turns them int his best grase, and by this
impruent ant introducesf feerer or dysentery inprudent tact introduces fever or dysentery pawed days, their condition would have im
froved, and the tone of their stomachs and
pat bowels have gradually risen to the due
strength for the reception of rich food. "The farmer, on purchasing his stock
would do well to inuuire into the dseription of the soil to whioh his lot had been ace
customed, and also into their previous habits as whether they had d been folded, etc. If the the
sheep had been bred on land met to his own, he would be wise to reject them,
for they were unlikely to thrive on inferio soils he must be very careful in preparingthem by gradual indulgence for the richer feed
which they are about to be transferred. vill add but one more observation. A wise
farmer will never confide his flock to the exclusive and unwatched care of his shep-
herd, however clever or trustworthy that soietys Jourral

The following is from the North British
A griculturist of October 16 : on pleuro-pneumonia, contained in your im-
pression on the 3rd ult,, produced any article or comment. Having sustained much loss
from this cause, I consider the subject of
vind rital importance, and hope if Mr. Bruce ha
not left the country, he will publish any point. I would also like some detailed ex-
planation on the proper manner of taking and using the sort of virus, and properly
conduct the process of inoculation, for, whilst
forcibly dwelling on the ill effects of fimproperly performing the operation, Mr. Bruct
leaves us without much information as to
what is the real experiene the colonist
have so painfully acquired. -A Souther Farmer.
[Mr. Bruce will doubtless publish the inoculation for the mitigation and prevention for years pursued the plan of inoculatio can afford interesting factsand figures respect
ting it. The growing favor in which the
practice is regarded by intelligen dairym prace the more extended adoption even in th
country, afford practical evidence of its value On the Continent, the operation has alway monds, and also by late Professor Dick and n securing suitable matter for inoculatio The lymphy fluid or exudate should be
taken from the lungs of animals in the second stage of plearo; bsood and pus, and especiall mmediate use of lymph may the point rated with, it can be used as a seton. For
keeping for future use it may be stored in tubes, or between flat pieces of glass, , ilie
vaccine lymphy. Ten ort welve inches below ed for operation; a scratch is made through
the skin without drawing blood, and the lymph gently rubbing into the absorbing
connective tissue; or a seton soaked in the the inoculation takes, the wound usually
swells up a little. For a few days the animal is feverish, but soon gets all right. Occasion sometimes terminating in sloughing the end
of the tail. It is the risk of such degenerate inflammation extending into vital parts tha
justifies the tail being selected for inocula
tion."-

> The sales of Mr . J.R. Craig. of Edmonton an
of Simon Beatie, of Bong have been Ment to the Sta
highly satisfactory.
Donald Dinnie.
> stallion, that was exhe finted at the the
vincial exhibition, brought $\$ 5,000$.
J. R. CRAIG'S SALE or oows AND HRIFE
Dairymaid, imported.red and white. 5 yrs,
Gen. S. Meredith \& Son Con Gen. I. Meredith \& Son, Cambridge
City Ind. ....................

 ora, roan, 7 years, and calf Lady of
Green Grove, 2 mos., Benj. Summer,
Woodstock, Conn.......
Prince Inperial's Gem, red, 16 mos., R.
H. Austin.


$$
\text { Sady solway, red roan, } 5 \text { yrs., c. }
$$

$$
\begin{aligned}
& \text { Parks. } \\
& \text { Evangeline, ran, ir., i. . Parks..... } \\
& \text { Imperial Rose, roan, } 6 \text { mos., B. Summer }
\end{aligned}
$$

## rince Imperial, roan, 6 yrs., R. H. Aus- tin.




. manama
 $\overline{23}$ head, average, .... $8315.50-$ Total. . . $\$ 7,255$ 24 ewes, 20 ewe lambs, and 7 rams brough
83,295, realizing
nepwards of $\$ 64$ per head.

Mr . Beattie's imported draught horse th
took the first prize at the last Provincial took the first prize at the
bition, sold for $\$ 5,000$.
Mr. beatties sale of cows and heifers. Geo. Murray, Racine, Wis......... $\$ 2600$ Lady Gunter, imported, red, 3 yrs.,Geo. Lady Kuowlemere, roan, caif of Lady Ruberta, imported, roan, 7 years, Geo.
Meredith, Ind................... Malmsey, imported, roan, 4 years, C .
Royal Borks, Illinois, roan, calf of Malmsey C .

 5th Duchess of Sprinwood, white, 2
Her
 Royal Duke, imp., red,2 2 yrs., C.C. Parks,
Royal George, roan, 16 mos.,
do.

SUMMARY.
12 cows and heifers, average, $\$ 1,201.75$
Total. $\ldots \ldots \ldots \ldots \ldots \ldots$
$\substack{\text { Tots } \\ \text { bulls } \\ \text { Tot }}$
16 head, " $\$ 968.75$
Total.................. $\$ 15,50$
$\$ 61$ each. -
Irregularity in feeding actsistrina it Irreg Like ourselves, animals (not on pas-
stock. Li.
ture) ture) look for their food at the appointed
periods. We know practically that the omis periods. We know practically that the omis
sion of a meal at the usual time causes flatu lence, dyspepsia and uncomfortable feelings
An inattentive and irregular stockman should An inattentive and irregular stockman should
be got rid of without delay.
The proper qualities, पuantities and ad The proper qualities, quantities and ad
mixture of food have much to do with the
health and progress of animals The health and progress of animals. The car
bonaceous and nitrogenous should bear du proportion to cach other. Science has en agricultural chemists. Food may bo too rich too nitrogenous, too glutinots, too laxative,
or to astringent. horse, but if he eats it as it is grown, with the chaff and straw, no damage ensues.
neighbor lost five horses which ate freely
dressed wheat in a barn. Fank, young,
rapidly-grown grass will often kill animals so will too much bean meal, unaccompanie y more carbonaceous, succulent or oleagin
ous food. A certain plain farmer fed h cattle on bean meal mixed with linseed
made into balls in addition to other made into balls in addition to other
oil, food. He was a philosopher. The oil oil, food. He was a philosopher. The oil
was carbonaceous. and laxive, the beat
meal nitrogenous and astringnt. His beans were a picture.
I dare nat fold my limbs on your Italian
and rye egrass forced by dressing of Peruvianguano
washing in by our jet, but can safely do so
when the gid nanure from under the sparred floor, washing in by hose and jet. The Peruvian guano
was disproportionately nitrogenous. was disproportionately nitrogenous.
I sellom loose awe or lamb in parturi
tion, for they are fed mixed food principally and I have carefully avoided giving them mangel before lambing, and only a very
small quantity of turnips; but I much pre-
fer cabbage, both before and after lambing fer cabbage, both before and after lambing.
I otten hear of very heavy losses of eween and I often hear of very heavy losses of ewes and
lambs at lambing time, when they are fed
entirely on turnips, espewially if those turnips entirely on turnips, especially if those turnips
have been forced to a luxuriant growth by
superphosphate of lime guano. As turnips superphosphate of lime guano. As turnips
contain ninety per cent. of water, they are
clearly unsuited (as a sole food) to form in conarly unsuited (as a sole food) to form in
the breding animal a well developed lamb, the breding
calf or pig.
weight of cattle of several breeds. We have before us a statement of the
weight of some of the prize and prominent at cattle of the great Smithfield show. There is as usual much crititicim to the the
awards. The champion beast, as to the twards. The champion beast, as to the
best of all the cattle shown, was a Short-horn
heifer. The prize sing heifor. The prize sweepstakes ox was- also
a Short-horn this year. The weight of all a Short-horn this year. The weight of all
the cattle showed is given in a table pub.
lished in the lished
lows:
Hereford, 1st prize
rize. ......
Short-horn first prize. . ................ 2,665
(The same animal took butcher's prize
Devons, 1st prizs,.................736
do butcher's prize
Polled, ist prize.
do butchers prize
Scotch breeds; ${ }^{\text {Pat prize }}$............... 2,49 2,47 What is meant by the butcher's prize" is each breed, without regard to quality.
of other prizes are for the best animals, of each breed, without regard to qualty.
The other prizes are for the best animals,
taking proportion and quality into consider taking proportion and quality into considen
ation.
It will be seen that the weight of th Herefords, the Short-horns, the polled and
the Scoth cattle aproximate, while the the Scotch cattle approximate, while the
Devons differ very much. Another journal, commenting on these weights, says:
'The first prize Devon steer, three y yarrs old weighed 1,549 bos. Last year the same ani1,287 lbs gain 262. Another prize Devon
steer of the same age weighed 1,632 lbs last year, 1,516 -gain 116 lbs. The first prize year,, ,516-gain 16 ibs. The first prize
Hereford ox, age not given, weighed $2,338 \mathrm{lbs}$,
last year 1,958last year 1,958-gain 380. A Hereor, ateer,
3 years old, weighed 2,168; last year, two years old, 1708 - gain 460 A A Short-horn steer, four years old, weighed 2,491; last year
2,107-uain 384. A Short-horn heifer, same 2,107-gain 384. A Short-horn heifer, same
age, weighed 2,217 ; last year $1,985-$ gain 232. All those mentioned were prize ani-
mals at Smithield or Birmingham last year,
and all at Smithfield this year anticed that the egreatest gain was made by a
noterefd and the least by a Devon. One
Oer fact is very prominently brought out by thes figures. it is that at present prices for beef
neither in this country nor in nngland, does
it pay to keep an animal after it is well fatneither
it pay t,
tened;

Some of the cattle not awarded premiWe notice in the list a Hereford ox that weighed $2,538 \mathrm{lhs}$, and the Devon ox that
weighed 2,255 lbs. But these weights reall wean nothing. Each animal had been fed
ne or the show from one to two years all it
could be made to consume. The greatest question was left entiriely untonched -it is not referred to in any way. That question is, which of the several breeds put on the
nost meat at the least expense? Which of the animals made the best return for the
amount of food consumfed? That is the only tost. Of what service is it to see a great ox,
loaded down with fat=and flesh, if everyy
pound of meat on him has cost twice what

40
THIE FARMHETS ADVOOATH.
March, 1874
it will bring in the market when it is put
Here, for instance, are the on the block Hore, for instance, are the
Devons of which it is admitted the show was Devons of which The oxen of this breed, with
a very fine oneo Then
and asingle exception, ranged from 14 to 16 ciwt?
what was the oost of making this weight?
 range of the Short horns, Herefords, and
Polled cattle?
Here is the point, and smithPoliled cattle? Here is the point, and smith-
field don't attempt to settle it. When we ompare the three year old Devon with the three year old Hereford, we find the Here-
ford made 21 libs to the hundred during the Yord mate The Devon made at the rate of 3 libs,
Year, who can tell the difference in cost of
Now, who Now, who can tell the difference in cost on making thase weights.
there is hardy and difternee, yet we think
the tis possibl
Hereford.
Mr. Joseph Eddy of Granton, informs us
he has tried several of the different kinds of attre feeds, and says there is none to compare with the Yorkshire Cathile Feeder. Hee
can see an improvement in his stock in three or four days from the time he begins to use
or

Benjamin Reid, of Durham Township, Pro-
vince of Quebec, has a pair of srade Durhams theers four year ofd the :o, tha day of June
hast, weilhhing fix hundred pounds and girthing last, weizhing gix hundred pounds and girthing
cight feet four inchoses $-N E$. Farmer.
It in estimated there were $53,680,752$ sheep
 182477,710 pounds.

## Ram Palmer

Palmer, the Ootswwld Ram, shown in the acconpanying illus
tration, was imported by Juo. Snel $\&$ Sons, of Elmenton. Remark regardiuy bis appearance would be
unuceessary; he gained the 1 1st prize at our last Provincial Exhilitiou as the Best Shrarling Ram. We nlmost regret ts call the attention of our readers to the Execu
Cor's Sale of Messrs, Suell $\&$ Smis fine herd of Cattle, as it took Mr Snell, Sr., the mataried nart of his lifetime to establish such a name, he was one of the most surcessfful breeders and prize takers in Can. ada. This fine hrred is now to be disposed of, and the high reputia-
tion which he has gained, will tion which he has ganed, wild We hope that some of these ftne animals may he retained in our appear to think that we have no they come over and clean a man out if
stock is up to the mark. We are «lad stock is up to the mark. We are \&lad
that Canadians will have an opportunity of purchasing. See add. in another page.

## The Spring Care of Cows.

Written for the Farmer's Advocate. By Prof. L, B. Arnold, Secretary A watchful attention should be bestowed upon his cows at all times by the dairy
farmer, but the spring time demands his special care. I never saw the time that
anything could be gained by pinching and anything could be gained by pinhing and
neglecting a milch cow ; but if she must be be pinched at some time in the year, that time should not come in the spring, especially i
she is to come in at that season. The extra she is to come in at sthat season: sequired to bring forth her young in safety, calls for extra
feed to derive it from. Some farmers are in tie habit of waiting till the cow has come Thisis usuailv a little too late. A cow that and good water she $w$ 'ants will do well, if whe is allowed comfortanio quarters. She
will be abte to hofd her. flesi; and strength are fod in part or wholly on coarse fodder, as many farmers at times feel compelled to feed thair cows, or upon late cut hay, it will
ba matter of economy to feed extra and to
$\xrightarrow[\substack{\text { nat } \\ \text { fro }}]{ }$

## 

begin before the eows begin to give milk.
It often hapenen with thosewhoare ontege.
ciall cially watchfal of their herds, that the cow
get thin and weak, and that they do not do yell when comean, in -the after birth adheres
and remains till it rots away, sickening and
and


 the feet, and the end of the tail beomes
cold, advertising as plainly as could be done in capital letters that they are not receiving the supply of tood the waste of their bodies
demands, and that they are ranly perishing
with starvation. Such cases so offen occur that the phase 'spring poosis' has become a
 mon that projecting bones at that season of
the year are almost considered as a matter
 winter or spring must be be mastea in the the
summer. It will be taken out of what wenld otherwise hane gone to milk. what whe
milk of a cow thin in thesh in milk of a cow thin in flesh is por and
watery. The quantity will not vary so watery. The quantity will not vary so
mour an the unity on acount of harbeeng
moor. Its richness will constantly be below
 cheese in any way more effectually than by feeding, to keep up the strength, health
and flesh of his cows in the winter and spring One of the worst tractices aner farm
fan well fall into is to allow his cows to b
lat can well fall into is to allow his oows to b
falling away in flesh before and at the tim


- Cotswold ram palmer, the proprrty of john snell \& sons. hat they are unfitted for the the approaching
labor. For eand labor. For ease and safety in labor nature
requires the softening and expansion of the ports concerned in the expalsion of the foe tus. There is a natural determination of
blood to those parts, and an increased vit blood to those parts, and an increased vital activity in the tissues necessary to accomplish the requisite preparation. To meet
this demand the animal requires an increase of strength and blood. If the food happens at such a time to be so lacking in nutriment that there is not enough to support the
daily waste of the body without drawing daily waste of the body without drawing on
the flesh, the full preparation for labor will not be made, rendering that event both tifficult and dangerous, Cows that are
then running down will berpettysure to have a
retention of the aiter birth. That unfortu nate occurrence is pretty sure to happen in such a case. Indeed a falling away at thi
crisis is the usual cause of its retention. is not enough that a cow has, at the time,
fair amount of flesh. If her food is so de rair amount of flesh. If her food is so defi-
cient that her flesh is wasting, her blood will be porr and her vitality and strength will be wasting also, and the logitimate con.
steruences of delicient feeding will follow in
spite of a considerable stock of tlesh. It is site of a considerable stock of tlesh. It is vory high fleshl, but it is necessary that there
shoudd ho no lock of nutrition, nor any fall.
ing away of tienh amit strength. It is im-

edy, so as to enable us to escape the fate of
other once tlourishing but now barren and eppopulated oountries he effect of this drying up of the face of The people which the inhaitith thas nongevity of teceived safteient attention We are apt to look
or the solution of the causes in many ways
 sical degeneracy of our unproific Americica
people is asso attributed to many and diverse
 n all of its branches, 1 am convinioed that
this important factor has been entirely over-
For roeke. For a few moments $I$ desire to odidegeneracy of our.continent, and the conse-
quent physiaca (not mental nor mora) de-
generacy
 It is per haps unncecessary before this body of
scientists to dwell long upon the fact of the drying up of the whole of the country, the disappearance of syering and
brooks, the low state of the wells and the sinkking of streams, stivers, and lakes. Nor
is it perlaps necessary to recall the fact that
 tinent grow more rry and barren, and conse-
quenty less productive, year after year. The
effect to all effect of all this change, year anter year. The the nature of
the case, to give aless
gin the the the case, to give a less genereal and a greater
local humidity over strems, lakes, and lowlying portions of the country. As and result
there munstalso be a ess general precipitation,

tained by the surface goil, it runs away, is
absorbed by the fry stratabelow and is is ore readily and rapidly fraporated into the dry atmosphere. The vicisisitudes of the season are and must become more marked. The
lands are less productive, for the necessary surface moisture is not present, and there is not so much carbonic acid generated and retained within the reach of vegetation. The
products are markedy effected by this change, As a rule the grains are less plump than formerly, and the fruits lesss succulent,
except during a very wet season, when they are sodden and go easy to decay.
Theeffect of this great growing change of the face of the country, andits climatic and mete-
orological condition upon our people indus. tries, etc, is worthy of the attention and study of en ofscience The humidity of theatmosphere las a marked infuence upon the vigor and
fruitrulnesso of both animals and plants. Either extreme changes the whole flora and fauna of a country. For permanency we all recog-
dize a golden mean. The effect of too
 been ably pointed out by Dr. Nathan Allon,
of Lowell, Mass,, as tending to increase the mount of consumption. The other extreme The great infant mortality in this conntry Cads us to inguire into the causes, and chief
 hink is a ready explanation of the steady de-
crease of the per cent. of children for crease of the per cent. of ciildren for each de.
cade in the oder States, as demonstrated by
Dr. To Dr. Toner, of Wasshington, from the censue re-
ports.

The greatest mortality in children
is when they are taken from milk is when they are taken from milk
and put to the tathe and given the
dry tood of onr adde dry food of our adalt peoplee il
they survive they grow rapilly they survive they grow rapidy,
tall and thin, and mature early and prematurely. Is it any wonder, there-
fore, that families in America diministà in size and finally die out? We place the chief canse of all this apon the climatic surroundings of our peo-
ple, and thus remove a stigma that ple, anc thus remore a stign that
some writers have attemptec to fo fasten to our people. The American dis
ease, dyspepsia, is 1 am convinced not as much due to our manner of eating as to our climate and dietary. the enecessary yluiditity to suppplys. suff ces ; indigestion, cond intestinal ju aciation are the results. The rine reat
prevalence of biliousness in the West finds, It ithink, its most ready explan-
ations in this drying ap of the body. This constant and great a asstraduc $a$ nervous restlessess of mind and body that is markedly an American
trait of characoter. The farther West we go and the dryer the climate, the of a maroper humididy in the air muse of a proper humidity in the air must
and does effect the respiratory or
 of lany disease prodnced, and is the opposite
form of consumption arrising from local form of
dampnes.
die rem
The remedy sor this growing dryness of our country is evidenty ato nochease the aver
age humidity of the atmosphere over the whole eumtry. This might be cacomelished
in a degrea as is being done in in a degree, as is being done in France, Swit
zerland, and
Eyypt, by zer anct, and Egypt, by planting trees and
shrubery upon the dry, exposed highlands.
Tres. The cultivation of grass and the regular
seeding downo morel and by our agriculturist seeding downor morer result. In angreal of turist the
would give the same rem ground being teft dry and exposed after the
wheat and other greins wheat and other rrains are harvested, there might be a protecting cover, as of colover,
ete. The governent should encourage e the growth of timber in barren regions, and also prevent the clearing off of whole belts of tim-
ber where the face of the country would
be en where the face of the country would
materially hffecetel thereby. The importance of sinking artesian wells to irrigate the driest
regions, and the formation of al regions, anc the formation of lakes, ponds,
and other reservoirs to increase the humidity deser ese the study of scientists and the action of the government. The rainfall may perhaps
be still sufficient if this moisture was and retained. That these means would have the effect to maintain greater average humidit aud thus influence the productiveness of the
whole country, and olso the better health of
the ene whole eountry, and olso thie better health of
the epople, is self. verilent. The more equa.
ble io ply ble in all regards the atmosphere can be
maintained, the better the health oi plants maintained,
and animals,

## APPLE-TRER

 At the annuHorticultural S Alt the aralt
His, and repor olis, and repor
discussion took
dirst, as to the irst, as to the
rees and the ti rees and the ti,
neoss. It was
that many var that many var produce apples
akes and river
on the high pr on the high pr:
Winter on the tion one of gre
of fruit trees sl ffruit trees 8 b that his experi
tuch asthe Be
sextensive use such as the Be
extensive use
Minnesota cl frunesoutave
fruit we have
of hundreds o ted. Becauss
tiferent vari
diferen dine taken as $p$,
bible to test $\varepsilon$
sit

March, 1874
apple-trier planting in minnesota. At the annual meeting of the Minnesota
Horticultural Society held lately at MinneapHorticultural Society held lately at Minneap.
olis, and reported ty the Farmers
discussion took place about an ande.tree planting discussion took place aboat apple.-tree planting;
first, as to the best locality for planting apple-
trees and the time necessary to test their harditrees and the time necessary to test their hardi-
noss. It was asserted as an established fact, that many varieties of trees would grow and
produce apples on or near the borders of the
the pakesa and rivers when they would not flourish
on the high prairies. The severity of the last on the high prairies. The severity of the last
Winter on the fruit trees had made the ques.
tion one of great importance as to which of fruit trees should be recommended and what of fruit trees shoulf be recommended, and what
1eests should be applied. Mr.A.P. Jewell stated
that his experience that his experience proved that many varieties,
such ast the Ben Davi, which have come into
extensive use, had failed to stand the test of extenive use, hade. That all the samples o
Minnesota climate
fruit we have are but the growth of a remnant fruit we have are but the growth of a remnant
of hundreds of fruit treess that have been plan ted. Because one or two trees out of a dozen
different varieties stood the test, it should not
 ten years, growth.
riubarb.
The German Telegraph says a good word
for rhubarb:
There is a large class who are fond of this.

THIH HARIMHR'S ADVOOATH.
41

Rhabarb is very rapidly increased by cut-
Honor and honesty should be the
ting an old crown in pieces. If these are split downward, on a line with the growth of
the root, every piece of root will grow, they petitioned against it. The
checking of private enterprise by it will the root, every piece of root will grow,
though it be split inte a score of pieces; but
checking of private enterprise by it will
do more injury than the Farm or College pieces of root will not grow unless there is a
portion of the crown with it. the crown is
dill do good. If the Government would
will portion of the crown with it. the crown is
the upper portion of the leaf-bud, just under ground.
If very large stocks be desired, the plants
should not be set too close. A root to every
four square feet is enough-that is to say, four square feet is enough-that is to say,
the plants should grow two feet from one another every way. As the rhubarb is a
aross feeder, if they be but closer than this gross feeder, if they be but closer
they will likely starve one another.

## Government Agriculture.

LeSSON THE FOURTH - PRUNING.
We id rount Ming. Farm in February. We found the outside gates open and the hinge was broken. We saw tracks on the snow where stock
had been tramping through among the had been tramping through among the fine young plantations that Mr. Stnne had made. Many trees we saw had been
freshly pruned by stock having eaten the
will do good. If the Government would
give it to Guelph without further ex-
penditure, it might be the best for the penditure, it might be the best for the more than for
the country
We called at the College, or rather the house-the College, we presume, is to be one of the great structures of the country
in the course of time, when things run in the course of time, when things run
smooth enough. We were introduced to the Professor, who behaved in a courteous and gentlemanly manner to us and gave
us what information he could in regard to us what information he could in regard to the management, plans, \&c. He said it was a very poor farm and that it had been
very badly farmed, but, he added, by subsoiling and manuring, they would able to make good land of most of it. This institution may make a few rieh
men richer, it may afford a house men richer, it may afford a house of
refuge for political partizans or thei
years. The process of its production is
hown by the operator with his lens and struments. A figure is reflected by means
concave and convex mirrors to appear in concave and convex mirrors to appear in
room just as if a real person were there; room, just as if a real person were theres,
he spectator could not detect the refleoted eing from a real one. We have seen it and
re still astonished that this wonderful feat are still astonished that this wonderful feat
can be performed , there being no looking.
lass behind the reflected figure in the same can be periormed, there being no looking-
glass behind the reflected figure in the same
room, and yet the person is to be seen in oom, and yet the person is to be seen in
ny part of the room, moving, still, or in any part of the room, moving, sti, ${ }^{\text {ar }}$
ny way just like a real person. This we
have seen and still we wonder how it ts have seen and still we wonder how it ts done, -
After seeing the apparition you, would After seeing the apparition you, wound room, and the figure to move as you could
and no figure to be there,

## Free Trade.

This is a question that is at present yitated, and many appear in favor of it We should be if the term were correctiy
applied, but what people here call free trade is to open our ports to all nations and let them charge duties for what w export, that is, shutting their ports againstiour productions. We dispute the term as applied by our


PROF. PEPPER'S GHOST.

It is among the earliest green things and, of horticulture gifts, in the abstract, yet an account of its early growth it will always be
esteemed. Its earline Its ear iness being one of its valuable points,
a place should be selected for it where it will get all the advantages of early spring
suns.
Some people help it by putting barrels over the roots. This keeps out the cold; and as the rhubarb is stimulated to grow by
very light heat, the natural warmth of the veryd brings it up if the frost be kept out. Then the barrels help to branch it a little, nd it is not quite so sour as when left to
row naturally in its own way. Rhubarb is grow naturally in its own way. Rhubarb is
poor stuff when stringy, and it is the aim of good growers to have it as pulpy as possible.
Therefore the soil is to be made very rich herefore the soil is to be mace very rich When grown in this way, even the outside is tender and it may be cut up for use withvarieties are, however, more tender than others. There are however, four popular
kinds which, when well grown, are all of about equal value. These are, the Victoria,
Limnaeus, Magnum Ponum, and Prince
prove of the Government's method of $\mid$ their boys into that they do not know pruning fruit trees. We did not see the
stock actually onat to do with. The experiments and
utility of it may be lauded and upheld by work that had been done, and there was nothing to hinder a repetition of the same and foreign papers may be used te exal
process.
Perhaps it may teach some a lesson; it
will do no harm at any rate. We do not will do no harm at any rate. We do not say but that good may result from the
pruning or from the Goverument Farm, prut we do say that the Farm was estabbut wed for poy that the Farm was estabpositively intended to check private en-
terprise, that it was moved to Guelph for terprise, that it was moved to Guelph for
political purposes, and that the interest of pohtical purposes, and that the interest of view, but has merely got the name "agricultural," to gull you with.
fore your eyes ; the best talent may be employed to speak well of it at molitical
and other gatherings. the and other gatherings ; the Government
may attempt to strengthen itself by may attempt to strengthen itself by giv-
ing situations to friends and casting slurs on independent men, and our money may be spent by the quarter and half millio
on it. We shall have to pay for it.
, but the benefits to the working farmer cost him.
Tens of
$s$ of thousands of needy farmers' ons and daughters must feel the lack of cothing for the maintenance of this mon-
strous scandal. If this Government Farm is ever to be of any benefit to tarmers, if is for farmers, the voice of farmers
Pold have some might in its weight Politics should be second, agriculture first in its control.

## Pepper's Ghost.

Amusements are as essential to the health
d happiness of farmers as to other classes Still, in the cities, many more expensive amusements are to be seen. We give an
illustration of Pepper's Gihost, Prof. Pepper Illstration of Pepper's (Chost, Prof. Pepper
being the person whe first brought the plan to perfection. This is onc of the mont
pleasing scenes whave witnessed for many
egislators; we wonld willingly concede reat privileges, or even pay handsomely or free trade to entrance would be for our good and the good of other nations.
Our manufacturing interest is no Our manufacturing interest is now in a epressed state because the Americans the legitimate business of many of our manufacturers, who cannot send their goods to the States because of the almost prohibitory duty imposed. A greater acturing interests could this day be purchased at 50 per cent. less than cost. Our manufacturers are obliged to slacken business, stop work or break down ; many
firms have been crushed, $\quad$ Our manufacturing population is driven to the States. We should endeavor to make our country cultural. Live an
be looked after. Capital should be fairly dealt with in advocating the farmers' in
terests. sacrifice all other interests.

Correspondente．

## treadwell wheat．

Mr．B．Fawcett，of Arran，County of Bruce，informs us that the Treadwell
wheat has yielded well there．He raised 40 bushels per acre on 5 acres；his neigh
bor raised 500 bushels on 12 acres．
－GRUBS In SHEEPS＇heads Mr．M．Potter，of Chatham，informs us ing the head，found six grubs in it，and the brain all eaten away by them．He thinks long grass a preventive for the
grub fly；we think tar on the nose of the sheep is a good preventive．
serd report．
 In id some

 and



watering cart wanted．
I have often missed raising carrots and
arnips in consequence of dry weather set－ turnips in consequence of dry weather set－ eaders could inform me of a simple and drawn with one horse，and easy to be ad－ jasted in putting water on two drills at once， ping，you would confer a favor on me and
likewise on many other farmers Cannington，Ont．，Jan．，DANiel．King．

A watering cart might be needed tor
iquid manure，but for watering carrots to liquid manure，but for watering carrots to
cause them to come up，it is all nonsense． cause them to come up，it is all nonsense． early in the spring，before the drouth of summer sets in，or they need not expect a
crop of carrots．Half the loss on turnips crop of carrots．Half the loss on turnips is caused by preparing the land in dry
weather in summer．Turnip land should be prepared in August，instead of June or
July．

FEED FOR SHEEP．
There is a saying that＂necessity is the somewhat true．Being short of hay as well as pea straw，I was almost at a loss how to
feed twenty Leicester ewes that are
with lamb．To buy hay at $\$ 25$ per ton would not pay．
I had some good oat straw that had been and cut some very fine，gand，after oldamping
and I Imixed a little bran with it．The sheep
it soon began to eat it greedily．I now feed straw and eight quarts of bran，well mixed ap，three times a day，and the last thing in the evening，I give them a little straw．－ sheep are improving daily．I dont＇t suppose
I am alone in being short of foov，and any and any
this plau With a good result
gite as of ten dollurs per ton，which i 1 am feeding now cost twelve），and the daily allowance of bran as twenty－four quarts，the
whole cost will be seven and whole cost will be seven and a half cents with the exception of straw and labor，
which I think the manure will be adequate．
M．M．
P．S．－A bushel of bran woighs generally
twenty pounds，one hundrel of which makes ton，and that at $\$ 10$ makes 10 cents for
bushel of 32 quarts， 24 of which would be $7 \frac{1}{2}$ cents．
 bitors and
ED．F．A．］

## road fences．

I think H．C．Johnson＇s note，in the Janu stock should be kept off the road．Alawfu on the road while being driven－a very light fence that would not cause the road to fil
with snow．A wire fence，where roads fill
bad，would we the best spent in opening roads every winter，and the roads would be much better in spring if the
roads did not fill in so much in winter．If
 along the roads．
Clarke，22nd Jjan．， $\begin{aligned} & \text { Jimes McCullough．}\end{aligned}$
statute labor．
I think your remarks for the time of per－
orming statute labor，not suitable for thi octio it immediately after planting time besides，I think roads prepared at that sea，
son of the year will be in better order for public travel when the fall rains come，tha
roads newly prepared．There are mor heavy loads passing over the roads here from
the middle of September till the middre of
November than in any other two months in the year．Were the roads repaired at that fime it would be more an injury than a bene
fit to public travel． Coldsprings，31st Jan．， 1874 ．Eagleson．
lumbermen and farmers． Dear Sir，
One of
mers suffer gow is the state of the law
ffecting lumbermen affecting lumberren is and state of the lay
farmers in the new settlements is and they the nurserien of farmers，of a class of men
hardy，industrious，thrifty and perseverin hardy，industrious，thrifty and persevering，
who，if they will only realize the idea that
they are sonething they are something more than mere farming
machines，will soon make their mark in the country and be an excellent back－set to thei
older and more aftluent neighbors in the ront，when that time comes when farmers
will work together with a will as a united party．
By $t$
on any
l on any lot became the property of the party
located on such on any lot became the property of the party
located on such lot．No doubt this was









 newir setlers will have to ay as exoritan
prices
ore lumber as the
thobe represent




Cardiff，Feb．9th， 1874.
the prince of wales' prizg Mr．Editor，

$$
\text { Guelph, Jan'y 1st, } 1874
$$


 hatitiv ax faitly nat honestly won，A very











隹
 Weraill look aitile further into these four








 the pain Canadian famer wants These thooth，oily yong iod，kiat gioved gentlemen


 the fate of the money panic and the Be Berishirg









Wrserns
［As we ask for communications，and as our

March, 1874
THF FARMMR'S ADVOOATH.
 writer furnishies his name. We publish thi article although it may censure us.
would prefer giving useful information, but still discussions on the charges intimate
scott whea
I received 7 lbs. of the Stott wheat a year
ago last fall. This fall I threshed from the above grain, from the 7 lbs. I receive three bushees of good, plump, clean wheat; no
wheat yielded near like this in this part o the country. I am highly pleased with it
have this fall sown nearly two arres.
McGillivray, Dec. 25, 1873.
I bought some Scott wheat last fall and after a full trial 1 am satisfied that it is F
Glencoe, Dec. 24, 1873.
We very much doubt Mr N's report of his
anclusion. Some of you that know better, please take your pen and reply to the charg
we want you to discuss these subjects. I last fall derived much benefit from little
ost. I immediately after taking off my crop of crown peas, ploughed the ground and sowed on 4 los. of rape seed per acre,
dragged and rolled smooth. The latter part
of Oct. it was about one foot high when I of Oct. it was about one foot high, when I
urned in the horses and cows; all seemed to telish it equal to new clover. The cows are kept in their flow of milk. The young plant kept growing yielding, an excellent substance
or clover, until plowed down. The ground plowed up very nicely after. Grafton Dec.24, 1873.
cutting green grain
Gorrie, Ont., Jan., 1874. Please allow me to give my experience
ast year with my field of barley. I sowed it about the last of April, 1873 , and. only about ne-third of the seed grew on account of the drought, untii rain came in the seed grew, consequently
remainder of the
when I cut the barley the first when I cut the barley the first grown was
dead ripe, and the rest of the grain was no was just as green as ever. I cut it with the was just as green as ever. on the ground in
reaper, and left it lying on the
loose sheaves for some days, aul
thought it would be fit for nothingbut cattle feed. How
ever I threshed it, and found I had No. barley, which I sold for the highest market
price at that time 95 cts. I will try and cut my barley for the future while the straw i
a little green, as the grain of the past crop was the prettiest samples I ever raised.
Yours Truly
A FArmer.
remarks of an english reader. Your paper is here read by several partie it a highly useful and very satisfactory $\underset{\substack{\text { pution. } \\ \text { latic } \\ \text { Wis }}}{ }$

haen to prune frutt trees.












An tho
 horough, leaving nothing that in, after years
would require the amputating in the centre and find how many rods
every man must form his own judgment; but
each way, and add together, then divide by
eve f in early spring the pruning is is properily pur-
formed the amputating saw will never be required.
In a new country a piece of land may
anually be selected for fruit trees of the "'Vir-
gin soil," that is, which has never been cultiusualy be selected for fruit trees of the "Vir-
gin soil," that is, which has never been culti-
vated ated or turned over by the plough, and
which must never be done afterwards; the
grass to be kept from the trees a few feet grass to be kept from the trees a ew eree
about twice a year with a hoo- a bright
sandy loam, probably, is best-a side hill or natural sloping piece of ground must be
selected on whinh the water can never remain,
If the Iand is properly drained by nature, whether nce grew), and the trees properly pruned; the land never to be turned over with the
plough until which time the soil will have retained its light porous nature more congenial
to the luxuriant growth of the tree than all the operations of modern science upon old
plowed ground, the virgin soll will forever retain all its lightness and purity until
ploughed; nor will fruit on any other trees per exhaust it.
ever ERS' societies SIR,-I think much good might be done
by an agricultural society ${ }_{0}$ a body of far by an agricultural society on a body of far I would like to see some measure brought forward that would check the numerous agents that prey on us. We, as farmers,
might deal directly with manufacturers o
the United States. I think that system o the United States. I think that system $e$
exporting beef and mutton to the Europea market in a fresh state could be carried out to advantage, and think if farmers wer
alive to their interests and united, som means would be adopted to equalize prices
a little more. Fresh beef sells now in a little more. rresh beef sells
England at from 20 to 26 ceats per lb.
Perhaps you might insert this Perhaps you might insert this in you
paper.

George Axford, Tempo.
semb $\overline{\text { and }}$ agents.
The Farrow wheat you sent into this par
of the country has given the best satisfaction There is a grean nuisance in this part of the country-perhaps oll over the country-tha
is the swarms of travelling agents. It ap pears to me that some plan should be devise
to check the tlood of on on-producing, hindering
tand tahe ing persons. As you profess to advanc,
the interest of farmers, you might give this
E. D. subject some consideration.
Wingham, Feb'y 14, 1874 .

## seed report

Sir,-According to promise, I send you
report of our spring crops. The McCarreport of our spring crops. The McCar
ing wheat done the best; from $2 \frac{1}{2}$ bushels of seed we got 20 bushels. From 2 bushels
of. Baltic, 12 bushels. The two bushels. farrow wheat, as it was poor, black and
following up, as season not being favorable to spring wheat the Baltic. The McCarling has a straw much like the Rio Grande, but the grain is
better. The Baltic is like the Fife, short straw and plump, nice grain.
The packace of see The package of seeds you sent me by mail good, and beheve well here.
Your paper takemAs BeckToN, Strathburn.
Thomer
seed report.
Sie, -I am very much pleased with your
paper and the seeds I got from you last
spring. All did very well. The Victor pring. All did very well. The Victor
Tomato ripened, and it was the only kind that did in this part of the country
Hanson Lettuce beat all I ever saw.
sowing serd.
Sir,-I send you an easy metheq
measuring fields or parts of fields for seed : By reckoning yards or steps into rods or
 perches appears to be the trouble ; now, any
numbler of yards caab be made intor ods by
he following plan :-11 yards, 1 and 1 is the following plan :-11 yards, 1 and 1 is 2
rods; 22 yards, 2 and 2 is 4 rooss; 33 yards,
3 and 3 is six rods; 44 yards, 4 and 4 is 8

160, and you have the acres. If you wish to
sow a certain quantity to the acre on a field,
measure neasure off an acre or half an acre, and
measure the quantity of grain you wish to measure the quantity of grain you wish the
sow to the acre; divide that so as to sow the and measured, and it will guide you for the
remainder of the field. Supposing that a remainder
field is 20 rods long, then 22 steps across
four our rods, which will be half an acre.
PETER FISHER,
Yours,
, Reaboro, 1874. NamEs Wantrd. - A registered letter hat
been received from Colebrook, mailed Feb' 17, and one from Compton, mailed Jan'y 30 ,
but no signatures given.

20tistellameons.

Insects are everywhere; humming in the forest, sailing throug the air, crawing trough
the fill, basking in the sunt poring in the
water, revelling in the flowers, pparkling in the water, revelling in the flowers, sparkiling in the
night time, everywhere, and at all times, turn
our our eyes which way we will, they are with us
Out on the wide, burning, sandy desert where
nought can be seen but sky and sand insect are there, and away up in the frozen zones,
where life seems impossible, myriads of them where life seems impossible, myriads of the
dance in airy fight over frozen eaas, or alight
on the ice bound coasts, and hum cheerfully amid everlasting
They are the very embion.
ediment of vitality, activity and destruction. They ffy, crawl,
hum, work play, wim, fight, ove, steal, kill and devour with constant, unremitting zeaa,
seeming to know that their life is but for
tor day," "and
quickly.
Are the Are these tiny throngs useless in the econ thtion? Must we go through life, crushin them at every step, drinking them at every trion, moving amid them continually, and neve once stoo to ask why they are here, or to ex Their uses are most wonderful. They fer tilize the soil, purify the atmosphere, arrest the
too rapid growth of vegetation, furnish food too rapid growth or vegetation, furnish food
for birds and animals, lly up the daintiest food
or man, clothe him in costiest array, cure his maladies, furnish the richest colors for his ap
parel, and teach him the profoundest of les
It will not be deniel sons. It will not be denied that many are dee
structive and pestiferous, but in many cases structive and pest be "neccssary evils" whose
even these may
real utility in the economy of nature is not yet correctly understood.-Colonial Farmer.
grindstones and their care Every farmer, of course, should possess a
good grindstone. We mean by yood that there
a difference in the quality of these a difference in the quality of these imple wo hard, is the best. It whil no tast quite
ong, but the soft, sharp stone will cut faster. A grindstone should not be run in water, but
be wet from a pot with a mall hole in it it sus-
pended above it as water in a trough is not pended above it, as water in a trough is not nake soft places in the stone standing in it.-
It should not be allowed to get untrue, but $b$ kept round by being cut down by a piece of
iron placed on an stationary object near the
outer edge of the stone Clean off all greasy tools before sharpening,
oily substances saturate the stone.
The The blue Nova, Scotia stones are finer than the Berea stones, but ald difter much in qual.
ity
It obliged to order the stone from a dis.
tance, state distinctly the diameter, thickness
egas-traordinart.
We copy the following from the Ogdensburg
Republican :"Some idea of the demand made by Ameri-
cans upon Canadian hens may be found from the fact that since the opening of navigation
sixteen millions six hundred and thirty-seven thousand one hundred and twenty-four egg
have been brought in at this port."

Mr. Howell, whose advertisement appear business to the mannfacture of Horse Rake and appears to succeed quite as well as
manufacturers who make many implements.
He He commenced four years ago and manu-
factured 100 rakes, and he has doubled that number every year since. This speaks wel
of the satisfaction his Rakes are giving.
(bodo 鷘ealitb.
$\qquad$
disease. -The Houschold.
THE NERD OF GOOD YOOD.

Thongh man does not live by bread alone,
the bread portion of his sustenance is of very great importance Ignoring the bodyt is at
fruitful in mischievous reanlts as living for it alone. Body and soul aro so dependent on
each other that what affects one affects the other, and the more finely organized the bod
and soul of any person may be, the greate must be his care to keep the two in perfect
marmonyy
It makes a world of differencellwhat one Its make a class of people it so particular aboot
eateir food, the quality, the mode of oooking
and the manner of serving, as those who live their food, the qual serving, as those who live
and the manner of Ther
by their braiss. They know that the human animal who wo old keep in the highest working
order must be as carefully groomed as nicely
red fed, as perfectly appointed as !GoldsmithMaid
or Dexter, and they lay their plans according
ly. Th, 1y. of cooking a potato, the compounding
cup of coffee the broiling a steak, the making and baking a loaf of bread, are to them mat
ters of vital importance, as, indeed, they should be to everybouy
A great many A great many people never stop to inquire
what particular iet is hest for them, but, fol lowing the injunction of St. Paul in absenc
never intended by him, eat what is pet before
them, asking no questions for conscience' Bak them, asking no
or any other sake.
or the standard dish, they live on thhat; if h
Bodad buscuit and steak fried in lard are pro
vided, that must reinforce their vided, that must reinforce their strength an
content their appetites. It is a melanchol
fact that horses and cows and dogs are more in telligent feders than most human beings, and
by natural consequence, they rarely have dy pepsia, gout or humours, If men and women
would be governed in their diet by would be yoverned in their diet by reagon ae
rigidy as brutes are by instinct, a large por-
tion of the ills that flesh is heir to would never rigidy af the
tion oa the
be heard of
How many How many understand the chemistry of
food and know just what they must eat to make them warm, what foods build ap bone
and sinew and muscle, and what will best supply the nervous waste? How many unde stand the effect of diet on the temper and di
position of the mind, and avoid whatever wil position
make them irritable, stupid and melanchol children with reference to these results, and by so doing secure the tranquility of their entire
bouseholds? How many students are thire who, alive to the importance of proper diet,
wat only food

acid, two lbs white sugar, juo oz. of tartaric
lemon, three pints of water. Boil them together five minutes, and when nearly cold,
add the whites of three eggs, well beaten,
with half a a
essence of flour and one-half ounce essence of winter-green. Bottle and keep
in a cool place ; take two tablespoons of the syrup for a tumbler of water, and a quar Julia A., Charing Cr
costard cakes
One cup sugar, one tablespoonful butter aixed with sugar, three eggs, one table-soda-very fine, one teaspoonful cream tarins, and put the flour; batter four round tins, and put them in a quiek, oven; then spoon and a half of starch, wet, with a little
milk, and boil it with milk; beat one egg, weeten and flavor to taste; stir in the put one on the other, with the custard bc

Two cups sugar, one of cream, one-half
cup butter, one cup raisins; cook a little ;
one cup courrants, four eggys, oone cup mo-
lasses, half pound chopped almond kernels, lasses, half pound chopped almond kernels,
preserved lemon peel, half a nutmeg, one $\begin{array}{ll}\text { preserved lemon } & \text { peel, half a nutmeg, one } \\ \text { teaspoon allspice, one of cream tartar or } \\ \text { cook's friend. } & \text { BELLA E. HESS. }\end{array}$ molasses $\overline{\text { GINGER-bread. }}$
One cup molasses, two tablespoons melted
utter mixed with molasses water, one heaping teaspoon soda dissolved in the water. Let the water cool before add-
ing to the molasses;
teaspoon ginger.
potato pudding-very nice.
Six large potatoes boiled and mashed; add
piece of butter the size of an egg, and a piece of butter the size of an egg, and a
little salt; roll out with a little flour; make a layer of this crust, then a layer of apples.
Steam one hour. To be served with sance.
hickory nut cake.
One and a half cups sugar, half cup but-
ter, two cups flour, whites of four eugs, three-fourths cup sweet milk, one teaspoon cream tartar, half teaspoon soda, one cup of
meats of the hickory nut.
tins.
farmbrs' frutt calie
Two cups of dried apples, soaked over night; cups of molasses three hours; then cool and
add one cup of add one cup of brown sugar,, one cepp of but-
ter, two eggs, one cup of sour milk, one large ter, two eggs, one cup of sour mikk, one large
spoonful of cloves, four cups of flour, and one teaspoonful of soda.

$$
\overline{\text { MOLASSES CAKE }}
$$

Take two cups molasses and one-half cup of stir in; then add two cups of doiling water, in which you have
spoonful of saleratus.
quaking puding.

Lay slices of light bread, cut thin and ternating the layers of bread with raisins till quite near the top. Beat five eggs up well,
and add to them a quart of milk, saltell and spiced according to taste. Pour this liquid
over the contents of the dish. Bake half an over the contents of the dish. Bake half inn
hour, and eat with sauce. Boil the raisins
in a very little water so as to make them in a very little water so as to make then
fender, and add the water with the rest.
 ercise to promote circulation,
wear your gloves too tight.

Minnie M atmost skill of even the professional floris to assist in germinating properly, yet we
regret to say there are a few people who buy seeds and bury them in the ground, ofttimes
so deeply that they will never come so deeply that they will never come up,
however much they may struggle to reach
the surface, even through a hard, hale the surface, even through a hard, bakeed
soil or stif clod ; and when they fail to grow, pronounce the seedsman a humbug, jure his business more than their trade ever
benefitted it. Insten directions which we wive below. If you
give your seed sut give your seed sufficient care you will in all
probability reap rour rewald profanhlity reap Your reward; but if they
do fail, sce first if it is not your own fault do fall, sce first if it is not your own fault or
the fault of your soil, or perhays of the
weather, before you blame any one else. weather, before you blame any one else.
It las often been remarked of some
lady whe has. been particularly suc cessful in securing beautiful flowers and
successions of hloom, even in the with successions of bloom, even in the winter,
that "the tlowers seem to favor her." This
is a great mistake. The laly is a great mistake. The lady learns th
wants of her plants, and encourages then
to grow and make home to grow and make home beautiful. Flori.
colture is an exhaustless science, and who is
there that knows all there is to be learned

If a t.all,
sired,
Balsams,
Bant and wanted to bloom.
thoroughly watered haroughly watered before taking up the transplanting. The transplanting
hould be done if should be done, if posssible, in in showery
weather, or in the evening The they are to be set should be spaded wher the time of planting, to bring $\begin{aligned} & \text { the up moist } \\ & \text { earth to the surface }\end{aligned}$ earth to the surface, and, as before advised, should be thoroughly pulverized and made
fine. Lift the young plants with all the dirt possible attached to the roots; make a hole with the garden trowel, hand, or whatever
is convenient, set the plants in a little deeper is convenient, set the plants in a little deeper
than they stood before, and press the earth firmly about the roots; cover with a little
loose soil, and the job is done ; loose soil, and the job is done ; and if pro
perly done, no after watering will ber sary, except in very dry spots cr during
continued drouths.
annuals, biennials and perennials. Flowering plants are divided into An-
noals, Biennials and Perennials. Annuals are plants that are raised from the seed seed the same season, and then perish. $\quad \mathbf{B i}$ ennials are plants which do not, as a rule
survive the second winter. The Canterbury Bells, \&c., are among this class Hardy Herbaceous Perennials comprise great number on heaties of useful and y border plants.
"Samival, bevare of vidders!"-Mr Welle
There was some sound common sense, and not a little reason, in the philosophly of the
elder Mr. Weller. His advice to his inexperi theory. It was the result of any fallaciou learned in the sober school of experience Mr. Weller was widow-wed. He had mar
ried a widow. He had learned what was ried a. widow. He had learned what was
what. And it was not without a grain of pa-
rental anxiety that he regarded the future
 than he knows himself. They read mis char acter by intuitionself. They read his char perform just what he solemnly resolves no
to do. They pet him, they flatter his they coax him they make him promise, they
marry him, and they govern him, before he marry him, and they govern him, before he
wakes up to a comprehensive sense of his watuation.
situr
there is souncts fit them so becomingly, and there is something so touching in the sad,
melancholy took that they wear, and in the
tender way in which the tender way in which they wear, and in the
dear Will, when he the to "my dear Will, when he was allive," that it at
once enlists a man's sympathies once enlists a man's sympathies. And when
a widow makes a man feel sorry for her he is half in love with her already.
Widows are never he
Weassively bold, nor Widows are never excessively bold, nor
are they particularly bashfulu. They are eneve
too young and seldom too old too young and seldom too old. It is some
times remarkalle how young they grow, how
innocet they innocent they appear, how sweetand pretty
they look, and how becomingly their dom they look, and how becomingly their dress
fits them, after a short season of mourning for their late lamented husbands.
A widow willmarry half a maid is will garting halfadozen times while man's weak points and she directs the arrow of her affection directly at them, as Paris sent his slender, yet deadly shaft into th
vulnerable heel of the Styx-in and he is down in a twinkle. She storms
his citadel, he hauls down his colors an makes an unconditional surrens colors and I know an old bachelor who is timanhle man. He has a kind heart, a com tion to attend chuych, and the a disinclina He is a great almirer of Scott and Macaulay He will read Locke and Lecky by lamplight
far into the midnight hours, and he can dis course most charmingly upon the beauties of Bacon, the grandeur of Guizot, the magnifi
cence of Milton, and the sullimity of Shake speare. But thave seen a liack-cyed,
ing widow who would lead him limp church, looking as meek as Moses, and make
him talk of Temnyson and Tom Moore, all the way there. Why, a virgin could not have got within speaking distance of him, with all her proverbial philosoply
I do not meon to
whose lives are hopelessly saddened by those great loss. Thicir griefs are too sacred to bom made the subject of rude or unmanly publi comment. can. I am a true friend of the widows. I I almire their tact, their good judg m
ment and
proverbial common sense, and I like to take their children upon my knee and
talk to them, and make them happy, because
I feel that they are fatherless.--Eugene

March, 1874
THE FARMNER'S ADVOCATE. 45
188. Oh, how many tales of me could be $\begin{aligned} & \text { waiting for her husband to come in in the even- } \\ & \text { told, }\end{aligned}$ told,
By the young and the poor, the rich
and the old;
For I never do good wherever I am,
 man ;
No legs have $I$ got, yet how swift do
I go, And often I cause the blackest
woe; Woe ;
But if you transpose me a man's nam
I show, A scriptural one I would have you to
know. mary Jane Ferguson, Rose Widdifield says:
"I should have written to you before this, able to do anything. Did you ever have the
neasles, Uncle Tom? I can tell you they are
 Provore for the two snbscribers sent in, will
want to see the faceso my cousins.
send you my hototograph when I get able to want to see the
send you my ph
have it taken."
I wish all my nieces and nephews would
send me in their photos raphs for my mabum. Nelie
des.
183.

My $9,1,6$ is a horse My $3,8,6$ is a very useful
My $6,4,6$ is a hoy's nume My ${ }^{\text {M, } 4,6 \text { is a a light chaidese, }}$
190. My 1st is in Laura, but not in Jane,

Dan",
My 3rd inger, but not in (ink,
My 4th is in in (hapel., but $n$ t in kirk,
My 4th is in chapel. but $n$ t in kirk,
find
Athe eastward of Europe, bear this
in mind. Bella E. Mess.
191. A drover being asked how in ny
 192. Ii flour was $\$ 8$ per barrel, how met bur li.
wruld a enny loaf cust? 193. Wy positive is an insect,

My compara ive a liquor,
My superlative a qualurupel.
$\underset{\text { puzzles. }}{\text { Walter }}$
Stanstead. P. Q., Feb. 10, 15:4. Dear Uncle Thomas,-
I mean to be respectful as 1 am as young.
You were so very kind to print my insigni.
ficant letter. It nearly took away my breath
 out ! T'm prond to call her "Cousin." And
so you've handed me over to Harrtet.
me so you ve handed me over Ion I wonder how
me, is she fond of children?
he nill serve me up / Miss II aviland, I'm
 me such the hearad and ask me if $I$ go $t$ ) school
and what $I$ study. By the way, I want $t$ t tell you that we have
a perf.ctly yplendid rew college down here,
and if you want any of your young folks to and if you want any of your young folks
get as wise as Methusanono, Saupson, why,
no--Solomon is the man I mean just send
 'cause 1 haven't been there yet.
My arged relative, I will now introduce to
you my big sister. I hope she will nut dis you my big sister. I hope
grace your family or me either.

> ly or me elther remain yours rectfully, CoRA HIBBARD

$$
\text { Stanstead, P. Q., Feb'y 10, } 1874 .
$$

## Dear Uncle Tom,

And you, my bright, fun loving cousins, all
haiil Cora has son happily introt uce-l me that
there make my best bow and glide in amo gyou
provided that youlll allow me to do so. 1 mus
 to "serve up" Cora. I would just say, don'
deal gently with her on account of herext:emp
youth. However sou treat her case you maz youth. However you treat her case you may
be sure of my appryvall Whatever you say
her will be no more thau she deserves, be it her will be
good or bad
Ain't you sorry, uncle, that the holidays an gone? chicken pies, turkeys and plum pry
to the
dius the dings that abound so plentifully at X mas an
New Yerr's gatherings I I hope you gal had a
nit New Year's gatherings! I hope you all had a,
nied a time as I had. I was of a
ard some of our evening parties were equal , to
and


sently he came and greeted his wife affection-
ately. She flew to bring him his dressing
own and slippers, as all good wives always do. gown and slippers, as all good wiveso always do.
She devotes herself to him and is very agreehe devotes herself to him and is very garee
abl, he, , like a perfect brute, reads his paper,
awns and falls asleep, nods - and there
 and awk ward \& a lunch is prepared and the
napkins forgotten, for the whole word "nnp-
nop kapkns forgoten, for tho mon the 'girl,' whe
kiil." The lady must summo
will briug them with a flourish. Let
the wiil briug them with a flourish. Let the guests put them in their pockets, arou them.--
necks, and os onake a great fuss over them
The contrast between the city-bred people and The contrast between the city-bred pe.
the country cousins is quite amusing. he country eousins is quit mother w P. S - Cora it Cora's sistre. I must have Cora's and Cora's sister's pic
tures f r my album. tures $f r \mathrm{my}$ album.

$$
\text { Ingersoll, February, } 1874 .
$$

$$
\begin{aligned}
& \text { Dcar Cour in Cora, - } \\
& \text { You see I look on }
\end{aligned}
$$

You see I look on you as a cousin already.
Ion't think you will have any occasion to have the blues, because Uncle Tom is such a
dear old, uncle that he dont refuse any one
dad now, instead of being that sirl and now, instean of being a bad g grll, you can
smile and say "appreciat med mit." 1 wish smie and say apprecia ed ment that I wish
you were in the piture, Cora, othat I could
see what such a homely little puss as you
loukd like
It hink every one that takes the Advocath likes it. My graidpa is almost as eager to
set it an I an You asked. Uncle Tom if he
set any ren was any Y rlation to Uncle Tom's Cabin? I don't think he is, but we are all related by be
ing descendants of Adam and Eive. As for big bescendersers being humbung, I don't know
arything about them, for Ihave no brothers no 1 thing we will have to leave that question
for Und Uncle Tom to answer.

If Hattie has no big brothers, can't she tell
is what she thinks about some other girl's

Whele Tom's Scrap Book.
Ten little black boys went out to dine
One choked lis listle self, and then there were Nine litine black boys sat up very late,
One ov rylept himself, and then there were Eight ; ;
Eight lick boys travelling in Devon,
One said lied dstay there, aud then there were seven;
Seven little black boys chopping up sticks,
One chorped himself in halves and then there Six little black boys playing with a hive,
A bumble bee stung one, and then there Five little black boys going in for law,
One got in Chancery, and then there we One got in Chancery, and then there were four
Four little black boys onoig out to sea,
A red herring swallowed one, and then there we e three;
Three little black boys walking in the " Zoo,"
The black bear hugged one, and then there Two little black; boys sitting in the sun, One got frizzled up, and then there was on
One ilitte balack boy living all alone,
He got married and then there were none.
He got married and then there were none.
expense of a youth of weak intellect, accoste
him with
" John people say that you are a feol."
"John, people say that you are a fool."
On this.
am, sir." John, what do you know?"
"W Well,
"I know that millers always have fat hogs
"And what don't you know?"
"I don't know whose corn they eat, sir."
C. C.
When a woman will, she will,
You may depend on't
You may depend on't ;
And when the won't,
And that's the end 'n't.
The Granges are araiuno, so much power that
very politician wants to prove that he is every poiticic
farmer.
knowldege :
"The hickory berry vine entwines
The brown nuts of the turnup tree The cashmere heifer skips and plays
TT the tuneful bleat of the feathery be
竍 tall bonghs 'mid the buckwheat buds To the tuneful bleat of the feathery bee,
On tall bonghs mid the buck wheat buds
We hear the low of the finny plover, Whe hear the low of the finny plover,
"Ah, Pat," said a schoolmistress to a huckle-headed urchin, into whose muddy
brain she was attempting to beat the alpha-
bet, "I Iam afraid you will never leann anyhing; now, what is that letter, eh ?",
"Sure, don't you know, ma'am," replied Patrick.,
"I tho "I thought you would have recollected that, "Och, maus am, it mas a dot it over the top of it." well, but sure I
"Oouht it was a tly speck." thought it was a fly speck."
"Well, now, remember that it's $I$." You, nowam."
No, not U. but I
Not I but U, ho how is that?"
"Oh, yes; faith now I have it , ma'am,
"ou mean to say that not I am a blockhead." you mean to say, that not I Fool fool!" exclaimed the pedagoguess
"F almost bursting with rage. blockhead, you plaze, natter to me math "fool or
so long as ye are free to own it," which eare so long as ye are free to own
Mark Twain, a few months after his first
baby was born, was holding it on his knee
baby was born, was holding it on his knee
His wife said, "Now confess, Samuel, that you love the child." "I can't do that,"
replied the humorist, "but am willing to replied the humorist, "but am willing to
dmit I respect the little thing for its dimit I I respe,
ather's sake."
An eccentric old fellow, who lives alongside of a graveyard, was asked if it was not ever jined places in all my life with a set of neighbors that minded their business so Sdy as they do.
Scruples.-English tourist (having ar-
yived at Greenock on Sunday morning) : "My man, what's your charge for rowing e across the Frith ?", Boatman; "Weel, ir, I was jist thinkin' I camna' break the
Sawbath day for no less than f'fteen shulP'n's " fondness of the Scotch for meta-
The
physies was never more happily hit than by physies was never more hapily his han by of a young lady at a ball, in the midst of a
momentary lull in the music, saying to her rallant, "That may be "true, my lord, of gave in the aibstract-", And here the nusic began again, and he heard no more.
It uas an I ish coroner who when amked how he accounted for an, extraordinary mortality
in Limerick, replied
wadly, "I can not tell, There are peop
died before."
Punishing t
Punishing the parson.- Rector: "John I di
not see you at church
"N not see you at church last sunday, " ohn
"Noa zun, vather sent oito chapel, and sen of
you waant lend 'un the wheelbarrow, I beant you waant lend 'un the wheelbarrow, I bean
to go to church again, never no moar!" ANSWERS TO JANUARY PUZZLES 159-NINE.

161.-Quebec.
162.- Toronto. 163.-Cal
cutta. 164.-Bosto.
 GEOGRAPHICAL PUZZLE, As I was awakened one morning by
(Shanghea) and as the air was (Chili) laswran ped myself in my cloak, made of (Caeshmere)
and lined with (Sahte) Wen I Came down
and to breakfast a lot of (Pines) burned brightily
on the hearth. A (Canary greeted me wwith

 . $\begin{aligned} & \text { was } \\ & \text { was } \\ & \text { head } \\ & \text { diso } \\ & \text { sired } \\ & \text { sured }\end{aligned}$ $\underset{\text { sur }}{\text { s.i. }}$

## $\underset{\substack{\text { my } \\ \text { sho } \\ \text { mi } \\ \text { tai }}}{ }$

 and enjoyed a (Race), and after I returned,
finding that the children were making
(Noise) I sent them to bed after visiting (Noise) I sent them to bed
good deal of (wrath) on them
ANSWERS TO FEBRUARY PUZZLES, 174.--Key West. 175.-Eight. 176.-H. His
 180.- When it it sis grated. 18
ton, 182.- The postman.



March 1874

Oards inserted in this liet for one dollar $a$
line per year if paid in advance，$\$ 1.50$ ifin orrears BREEDERS DIRECTORY． WILLIAM TASTER，Breeder of Durham Cat
tle and Cotswold and Leicester Sheep．
$5-y$ R．S．O＇NEIL，breeder of Lincoln and Leicester
Sheep and Short Horn Cattle．Birr P．O．IV J．S．SMITH，McGillivray，Breder of Leiceste
Sheep and Durham Cattle，Ailsa Craig． JOHN EEDY，Granton P．O．．．London Town－
ship，Breeder of Leicester and cotswold Sheep． G．WELDRICK，Thornhill，Breeder of Cotswold
Sheep．
$11-\mathrm{u}$ GEO，JARDINE．Hamilton，Importer and
Breeder of Ayrshire Cattle and Leiciester Sheep． 11
 H．E．IRYING，Hamilton，Breeder of Galloway
Cattle，Southdown and Leicester Sheep and Berk－ N．BETHELL，Thorold，Ont．，Breeder of Short
Horns，Berrsbire and Yorkshire Pigs，Southdown and Leicester Sheep．
 J．PINKHAM，Westminster，Breeder of Devon
catile．
 JOHN CRAWFORD，Malvern P．0 ${ }^{\text {O }}$ Breeder ot
Heavy Draught Horses and Cotswold sheep． $1-5$ RICHARD RUNELSON，Galt，Breeder of Cots－

wold，Leicester，and SouthdownSheep． | W．LANG，St．Mary＇s，Breeder of Short Horns |
| :---: |
| and Berkshire Pigs． |
| Is | A．PARK，Ingersoll，breeder of Ayrshire cattle． J．FEATHERSTONE，Credit，breeder of Essex，

Suffolk，and Yorkshire Pigs，and Cotswold Sheep．

 GEORGE G．MANN，Bowmanville，Importer
and breeder of Thorough－bred Devon Cattie． $11-1 y$ JOHN SCOTT，Coldtrream，Breeder of Loices－
ter sheep and Short－Horn Cattle．
$11-1 y$



W．HOOD，Guelph，Breeder of Galloway Cattle， 11 －

 | R．LEAN，Coldsprings，Breeder of Leicester |
| :--- |
| Sheep and Berkshire Pigs． |
| $11-1 \mathrm{l}$ | G．MORTON，Morton P．O．，Breeder of Ayrshir

Catile．
Cily． Catte． JOHN SNELL \＆SONS，Edmonton，Breeder
 F．W．STONE，Morton Lodge Guelph，Importer
and Breeder of Cots wold and Southdown Sheep，and Borkshir
and Yorkhire Pigs and Suffolk Horses．
11 －tt

 A PIRST－CLASS BERKSHIRE BOAR
by J．POOLE，Lambeth．
1i $\mathrm{F}^{\text {OR SALE－Imported and Thoroughbred }}$ Catalogues furnishod on applieation． 8 N．W HITNE，Montrand．Canad ThREE YEAR OLD AYRSHIRE BULL FOR JOHN EEDY，Granton P．O．，Biddulph Township
Breeder of Lincoln，Leicoster and Cotswold Sheep． WM．ASH，Breeder of pure Leicester and South THOS，GUY，Sydenham Farm，Oshawan Breeder Prrer Cook，Thorold，Ont．，Breeder of Durham
Cattle．


THE HARMEFR＇S ADVOCATH．
47
TREES，ETC． Spring of 1894. We invite the attention of Planters and 1 our
our large and complete stock of Standard \＆Dwarf Frult Trees． Grape－vnes，Trees，shrubs，Roses． Newament Rare Fruit of Ornamentaltrees． Evergreens and hulbous Roots． New and Hare Green and Hot House Plants．
Small pareeld forvorddd by mail chen desired． Simall parectst forverarded by mail then desited．
Prompt Atentien given to all Enquilies． Prompt Alonden
Deser iptive and Ilustrated pricell Catalogues sen
prepaid on receipt of Stamps，as follows：



Mount Hope Nurseries，nochester，N．y
J．NATTRRASS ACCOUNTANT，INSURANCK．HOUSE，REAL
ESTATE \＆OCEAN STEAMSHIP AGENT．




Fottler＇s Early Drumhead． Farmers and Gardenera，you all need this Cab－
bage for two reasons： ones－good peodigrees，good color，mostly red．－
Come and \＆ee，or address for partioulars
 SETH HEACOCK， JAMES J．H．GREGORY，Marblehead，Mass．

ST．JAMES＇PARK NURSERIES LONDON－－－ONTARIO．

## PONT円彐 \＆TAYエOR

offer a full asorrtment of
Fruit and Ornamental Trees，Vines，Shrubs，Roses，\＆c．， Comprising all that is New and Desirable in
the Separate Departments．
－Send for a Descriptive Catalogue
P．O．Address－ST．JAMES＇PARK．


THE DAY RAKE



The Advantages Claimed for the Day Rake，are ： ist－The teeth are supported at a greater distance from the head or place of fastening，which is 2nd－The head is so attached that it permits the teeth to drop below the level of the bottom of the 3rd－The operator can raise the teth eight inches above the winrow in discharging the hay．
th－It will rake
－The operator hasger wintoow than any of the teeth to to make them pass lightly over the ground or pross
6th－The wheels ranning upon an eievation will not raige the teeth from the ground．
7 th－The teeth are so shaped and attached that they do not seratch or harrow the ground like most 8th It is easier worked than any other Rake．
Ioth It can be used to good adrantage for spreading hay．
11th－The seat can be raised or lowered，to suit size of person operating．
Agents Wanted．Send for Price List，\＆c
All orders addressed to the undersigned at Brantford will be promptly attended to
A．HOWELL． Manuractory：Brantrord

Short - horn cattle, cotswold sheep and berkshire swine, On Wednesday, April 8th, $18{ }^{184} 4$,

The Entirt Willow Lodge Herd of Short-Horns Belonging to the Estate of the Late John Snell
0 VER SIXTY HEAD, CONSISTING OF FIFTY COWS AND HEIFERS, AND TEN BULLS, INCLUDING THE FAMOUS large number of useful Cows and Heifers, about thirty of which will be in calf to

 of Troy," and the Pen of Ewes which won the First Prize at the Royal Show in England, 1873.
Also, the entire Herd of BERKSHIRES, including the fine Imported Boar "Sir Heber Humphrey," and several fine Imported Sows. TERMS.-All sums under $\$ 100$, Cash ; over that amount 7 months' credit on approved endorsed notes, bearing interest at the rate of six
per cent. A discount at the rate of 8 per cent. per annum allowed for cash on all sums over $\$ \$ 00$. Sale to commence at 12 ''clock, sharp. Lunch at 11. Willow Lodge is 4 miles from Brampton Station, G. T. R.; 4 trains each way stop
daily. Free conveyances from the Station to the Farm will be provided. (Catalogues sent on application to

JOHN SNELL \& SONS,
EDMONTON, ont

## EXTENSIVE AUCTION SALE

## Short - Horn Cattle and Imported Clydesdale Stallions.

I will offer my entire Herd of Short-horns, numbering about Twenty-five Head, and two Imported Clydesdale Stallions by Public Auction

$$
\text { ON THE NIN'TH OF APRIL, } 18 \gamma 4 .
$$

 other noted tribes. Most of the cows have heifer calves at foot-calves to go with dam. Most of the cows and heifers have been bred to im
ported "Scotsman
2nd", bred by the Duke f
The farm is situated 6 miles from St. Mary's, a Station on the Grand Trunk Railway. Tcams will m•et intending purchasers on the
arrival of trains the evening previous and the morning of the sale.
TERMS OF SALE.- Six months on furnishing approved joint notes; 7 per cent. off for cash.
HUGH THOMSON,
NOTE. - The Sale of John Snell \& Sons will take place on Arril sth, the day previous, so any person atter 134, ST. MARY'S ONT.

CONTENTS OF MARCH NUMBER. Editorial:Prize Essay, 33; The Rennie Pea, 33; Spring
Wheat, 33 ; Wheat, 33; Dairymen's Association, 33; Ploughing Under Green Crops, 33; Mushroom Growing, 33; First Prize Seed Sower, 33;
Apple Trees Dyins, 34 ; Lucerne, 34 ; SteamApple Trees Dyiň, 34; Lucerne, 34; Steam-
ing Food, 34; Naturalized Weeds-Distribu-
tion of Seeds, 34. The tion of Seeds, 34; The Grangers, 34; Cr.p.
Reports of 1874, 35; Review of the Brition Corn Trade, 35; How they Farm in other Countries, 35. Agrioultural:-
Potash as a Fertilizer, 35; Model Farming,
35; Cost of Trater 35; Cost of Transportation Affects both Pro.
ducer and Consumer, ducer and Consumer, 35; The Dry Earth
System, 35 ; The Potato Disease. 36; Cultiva.
tiin of Betts in An tiun of Bete is in America, 36; Salt, 36; The
10ecline of Grain Farming in
New Arricuitivual Machine 36 , the East, 36 ; The Horse:
Sand (rack or Fissure in the Hoof, 36. 7;
Charcoal for Sick Horse


 Eifects of Vigrt table Perfume on Health, 37.
Stock \& DAIRT :Making Good Pork, 38; Cows and Clover,
3:; The Advantage of the Dairy Business to


 Weiglt, f ("attle oi Several Breeds, 39 ; Ram
"'samer," (illustratel), $40 ;$ The Syring Care
of Cows, 40 . Garden, Orctard \& Forbst :-
Thimber and if ealth, 40; Apple.Tree Plant
ing in Minnessta, 41; Rhubarb, 41. G.,.vernme t A.priculture, 41; Pepper's Ghost
(illustrated), 41 ; Free Trade, 41. Correspondence:-
Treadwell Wheat Treadwell Wheat, 42; Grubs in Sheep's
Head, 42; Seed Report, $42 ;$ Watering Cart
Wanted, 42, Wanted, 42; Feed for Sheep, 42; Shall we
Show Ewes or Wethers 42 ; Road Fences, 42 ;
 Miscellaneous and Gjod Health, 43. Minnie May's Department, 44. Uncle Tom's Column, 45.. Advertisements, 47,48 . HEATH \& FINNEMORE, SEED MERCHANTS. SOLE AGENTS FOR McMASTER AND HODGSON'S CELEBRATED LIQUID anNatto.
Rennets, Scale Boards, Cherbe Bandagrs and gall other Cheese Factory requisites consting on hand.
Mar, Apr \& May
CRATIS, AND POST FREE
McBROOM'S ILLUSTRATED SEED CATALOCUE Amateurs' Guide for 18\%4. Sent to all who apply. Cazil seeds to all parts of the Dominion at AGE. Thise nables all to obtain fresh seeds cheaply as if bought personally in my store, -
carties sending me their orders will receive Parties sending me their orders will receive
the parcel in a few days at their Post Office the parcel in a few cays at
without further cost.
Send your aldress on a postal card for a Send your aldress on a postal
copy at once.


