for 1871 ad malleable
f Rake.
lf-Rake.
Mower.


LONDON, ONT., MARCH, 1872.


INDEX
Caiadian Dairymen's Convention The $\$^{2}, 00$
Patching
Ayrshires Ayrshires....
Cheap Money
 To Hon. Arch. McKellar. In Open Council.
The Mimico Farm
Last Kick of the Johnson Compact
Notes on En.lish Customa......... Monthly Cattle Fairs.


Breeters 'Column.
Ancie t Shorthorns...... Correspondenor

Apiary, Wintering Bees............
Building, To Build a Warm House. To Farmers' Sons.
Suggested Items..
Mmplements New Subsoiler
Does Farraing Pay?
Horses Putting Out Their Tongues
See:
Crown Yeas w.....
Mclarling Wheat.
The lotato... The Orchard.... The Fibld.

Forst and Agriculture
Timely Topics........ Stock.

Treatment of Breeding Sows
Sulphur for Alimals. .......
$\xrightarrow{T h r a p i n h}$ Ar.
Tar Grcilapt.



Datur Train a horse th Stan A Cumvenient Niilk Rack
Mikin' in silence.....
Miscridinfars.
Laty Farmers
Farininn Well


(ous
To the Lai Ies inilustrated).............
Value of Ash 3.
vention-1878. was not one jot behind its predecessors for useful information. We think it the best
meeting of farmers that has yet been asmeeting of farmers that has yet been as-
sembled. The most intelligent and most
enterprising enterprising attend it, coming from a hun-
dred miles. The useful information dred miles. The useful information
imparted there acts most beneficially on the cruntry. Everyone that attended must have been highly gratified and well
profited by it Although the attendprofited by it. Although the attend-
ance was good, there were not half as many there as ought to have been.
Mr. Willard delivered the annual ad dress, and a masterly, entertaining, usefu and instructive address it was, and alh
though long, it was listened to with breath less silence. We insert a considerable portion of it in another part of this
journal. The part that tickled the risible faculties most in the address was an at
tempt to encourage the dairymen, who have much to contend against in the ignorance and tardiness of the generality of
farmers. He desired to show the diff. armers. He desiredin them out of the
culty there was in getting them old beaten track and of improving them. He said that many of them had the hide of a rhinoceros and their cars were
ton long; how true the remark! The part that caused the greatest excitement were his remarks in regard to the condensing of milk, which business was shown to be far more lucrative. The demand forly increasing, and the profits were enormous. The morning after he had delivered his address parties were to be seen gathered in groups of twos and threes, themssing one dairyman of the close-fisted class particularly requested us nnt to give notice about this in our journal, as he wished to who have an intention of going into it and investing; we wish them success, hut would not ndvise all of you to
neple $t$ your rresent busine-s, which is a certainty.
Mr. Arnolid, of Ithica, N. Y., also gave an address, and showen a sainj, le of pishad cheese ; wo think we have seen sound, but harl a heated tasto whinh he
atributed to uncleanliness. Cleanliness in every particular was trated unno and

The 82000 Tomato.
The Coming Tonato; the Cituatian Victur. A gentleman in Canala has for man
yeare deroted his time to the propay atio
$\left\lvert\, \begin{array}{ll}\text { and now has a tomato that appears des- } \\ \text { tined to aurnaes all other varieties } & \text { He }\end{array}\right.$ laims that the fruit will ripen from eight to ten days earlier than any other variety, nd the fruit is superior. It is heavy, ll-meated and rich; of a large size and colour. The fruit hangs more evenly on The vines than in other varieties, and the seeds are not so numerous. Hee says no he never has parted with a seed, and has had it perfected and tried for three seasons, along with other varieties. He inends offering it to the leading seedsmen in the States, and will supply them with nosk one cent until they are satisfied with is superiority
Two thousand dollars appears to be a high price for a seed, but the rivalry on
the other side is so great to procure the he other side th to great to procieties that the gardene the pay a price that will not be out-bid by others having a crop on the market before
them. We do not wish to invest in this, though we have paid high prices enough for seeds ; we have paid 8.3 per 1b. for poatoes and 81 for 5 seeds. But we are going beyond that price this year; we
hall have some flower seeds that we will have to pay at the rate of 90 per oz. for. Some of our subscribers may want them But sent for a tomato is away, away byond our ideas.

## Patching.

The New Agricultural Bill has alrady heen patched, and we think it will require considerable more patching to give justice is to make the members of the Council of Agriculture and Arts elective every year
Patch the second is to make them elcetiv as they were before. The big patch is the up for certain parties that now have a
leather latch at the stern of the breech eather latch at the stern of the breech
The next consideration is, can it be patched up to be of real bencfit co farmers or not can it be made worth its cost, or would be better to put a black patch over it. 1 l
it is to exist, should members of Parlia ment have the management \{ It is a ques tion in our mind whether members of Parliament should even be eligible to take the Mimico establishment be cartied on would it not be art to give a partypolitical sway : Should it he coudiucted di
rectly liy members of Parliament or the buand Aqriculture? Our opinion
is that if this establishment is to be carried on, the Board of Agriculture should have the control over it. We also bedieve
sist of farmers, and that members of Pay-
iament should not be on the Board. We Wo ment should not be on the Board. We
are nn personal feeling against any Memser of Parliament that sits at the Board. We know they are very useful mem at the meetings, but step outside into the field, the barn or stock yards, and perhaps some of the farmers might have a year there may be another patch to the new Bill.
Since writing the foregoing, and just a the paper is going to press, we hear tha ed. Anico Farm is likely to be abandon
d. ed. An investigation having been ordered
by the Commissioner, the patching has only commenced.

## Ayrahtres.

We have had far more enquiries for this nilking class of animals during the past ew months than we have had for years
before. Many of the dairymen are en quiring for bulls of this class, as they car more for the milk than for the beef, and
wo have no doubt that the dairymen o Canada understand their business as well as any class of farmers in the country. It is with pleasure we notice that Mr.
Guy, of Oshawa has come to our relief by Guy, of Oshawa, has come to our relief by
inserting the bulls he has for sale, as we hardly knew to what breeder to send applications. Mr. Guy exhibited some very fine cows at the recent Exhibitiou, and
his bull "Leon," which appeared in the columns of this paper, was a very fine animal, we think the best owned in Ontario at that time. The representation of
the bull can now be seen by turning to he bull can now be seen by turning thal. It is of great advantage to purchasers and breeders to te able to turn to represennd we believe our king of breeders, F. W. Stone, has lost $\$ 20,000$ by neglectm Mr. Cochrane has made twice that great error in good engravings, aw baing made by Durham breeders. A truthful minjority of them, judging from the cuts ${ }_{\mathrm{a}} \mathrm{a}$ Herd Books.

## Monarch Cucumber

This cucumber is of a large size and mis; bright green; very even in size now not-bellied. Very early and very ron of $c$, her long varieties dof excellent (mality both for the table and for pick liog. This is the first year of the did

## FARMER'S ADVOCATE.


meed Report for March, 1882 :o-
the m'carling whea


A good Snring Wheat is what the coun-
ry needs as much as anythint. The Me-
 pequize:mut. It has now ween ch. wate
two years in this section of the cuatry
and has improved each year, surpas in and lias improved each year, surpasing
a spring wheat the States and turned to the parent stock and sown near the Georgian Bay. Its properties were heard of,
the stock purchased and brought to this county. It has invariably succeeded best wheall lots to various parts of the counntry
slast year, and all we have heard from who last year, and all we have heard from who
sowed early give very favorable reports sowed early give very favorable reports.
The reports from those who sowed late
have not bee so The reports from those who sowed im-
have not been so god. The great im
provement it has nade convinces us that it is the wheat to sow, the quality being exeellent, the grain large, and the straw
standing well. It is a bearded variety long in the head and the grains are wide apart, even wider than in the engraving
There is but very little of it yet in exist ence. It commanded \$10 per bushirl las year, and it will be many years befor
enough of it can be procured to suppl the demand. We have no doubt but that those who procure it will not only have a
large yield, but we believe the prices will be high for seed for a long time. It gained the 1st and 2nd prizesffor the best spring wheat this year at the exhibitions. We shall send out no other variety, as we
consider this the best and have confidence in recommending it We have but a small quantity, amd shal subscribers to procure a little each.

The Crown Peas have given satisfaction tolall good farmers who have sowed them in good, rich, clean lama, The yield has not wanted pear, far surpassing that of
been satisfactory,
the Golden Vine, Multiplus, or Marrow Fat varieties. They are now pretty genare not easily procured pure and free from bugs. O'Rourkes are now coming into cultivation. They yield well and any other field pea, which is a very im portant consideration when
clean our land for fall wheat.
The Excelsiors are long in
The Excelsiors are long in the pod, fre queutly having ten and eleven peas in a
pod. On light, poor or worn soils they will produce a larger crop than any other variety. They do well on any soil and their'nature. They are well liked and de serve attention. We are compelled to give this pea a name. They were raised
from a selection taken from other peas when growing and have been propagate for some time, but no one has yet bee
able to give us a name. We give thi

illustration which we have had made from descriptions, as we had not a pod at han
No pea that has yet come under our ob servation has such a long turn at the en of the ped as this variety. Perhaps some
may aid us in discovering the right name The above illustration will answer, a
the chevalier barley.
This barley has not given very gener satisfaction. Some like it very well, but,
on the whole, we do not think it will come into repute, therefore we shall not commend it as we fear it will injure the price
of our common barley. It is well known to us that some purchasers mix it and send it to the States, but if it is much practised it will give eur barley a
name, as they will not malt together name, as they will oats.
The various new kinds of oats have well seneral Back satisfaction. The West the best black oats, as far as appearance goes; they will take prizes at exhilitions
of and that will sell them, but they will not
ripen as quickly as other varieties by one
or two weeks. Many do not like them on ripen as quicks Many do not like them on
or two weeks. Man
that acount. The trost sometimes cuts them in the fall. They are a jet black them
oat, but
well.
The The Surprise oats shell more easily than the Emporiums. Many like them, still we prefer the Emporiums, which, we be-
lieve, are White Polands improved. For white heavy oat they are equal to any ; we straw stands well and they do not hhell like the Angus, Scott or Potato oats all the same variety, only known by
ifferent names in different places.) For a black oat it is our impression that the New Brunswick oats will take the lead. This variety stands well, yields largely, and has a thin hull; it grows in a branching man
tration :


## To the Ifon. Archiliald McKellar, Min

 ister of AgricultureWe would respectfully remind you that shed for the purpose of trampling out crivate enterprise ; to cuchain and enslav position. The plans have been dishonor ably taken from an individual who ha abored for years to bring them before the nd asain recommended to the consideration of the Lrg:slature. No remuneration has in any was been given, although aid was promised by the late Minister of $\mathrm{A}_{\mathrm{g}}$ It was withheld because the individual vould not support measures that he deemed injurious to the agricultural interests of the Dominion. We would also cal your attention to the immense numbe
migrating from our country, some which has been caused by improper treat ment of immigrants that have arrived. One dissatisfied persou causes mire. WA
re aware that both timber and land have re aware that both timber and lals by the
been taken from some individuals acts of the Government after the emigrants had paid their cash for the land and the timber on it. As there appear exchequer and plenty of land yet ummoc cupied, would it not be well to settle any really just claims the Government might have against them. Yours respectfuly, N. B.-We submit to you the following trasting that the former recommendation have fallen tuader your notice. The orig inals are now in the office of the Hnn. I.
Blake, President of the Council.-F. A.

Dille of the Agricultural of Ar Association of Ontario.

Torouto, Feb. 3rd, 1872. Dear Sir,-I berieave to forward you
the suljoined copy of a Rcsolution passed the sumjoting of the Council of the Asri-
dituralland Artsif Association on the 7tb ecember last, viz. :-
Moved by Mr. Shipley, seconded by Mr. White,- That this Couscil considers that the "That this Couscil considers that the
"Agricultural Emporium of Mr. William Weld, of London, for the sale of stock, the testing and sale of implements,
seeds, \&c., has been of much service to "the agricultural interests of the Province, and the Secretary is requested to Cand Mr. Weld a copy of this Resolution.' - Carried.
bedient servant
Wm. Weld, Esq., London.
Agricultural \&EAL, Arta Association.
In Open Conucil, 201h January, 1872
Moved by A. Seabrooke, seconded by
Brown, that -R. Brown, that,"Mers' Advocate, has for of the Faryears devoted his time and means to the interests of the agriculturists of Canada, and that much good has been done by the same, there the favorable consid tion of the Legislative Assembly and the Goverument of Ontario, trusting some substantial recognition of his services will be made."- Carried. I hereby certify that the above is a true County of Middlosex.

## The Mimico Farm.

We hope the Government will not the Mimico Opposition to private enterprise without enquiring into the title of the plans. It is said that stolen bread is sweet, but we do not think this Mimico
Farm is very sweet to them. They know Farm is very sweet to them. hey have a kind of an elephant on thelier
hands. There is a caing, and we beve
it is often quoted by lawyers, that "a it is often quoted by lawyers, that "a
receiver is worse than a thief." Still there receiver is worse than a thier. "honesty is the best policy," and we believe it
know it is too seldom practised.

Farmers'Interests.
Sir Stafford Northcote is reported to have said very recently in England :"It was perfectly true that members of ip when they had very little that they knew by those who were able to inform ther upon
bat by those who were able to inform thern upon
matters which teally affected the welfare of the country, as to what it was they ought to
say. Now there could be ne doubt that the say. Now there could be no doubt that the
agricultural interest was one of the most imagriculturanterestst was one of the nost im-
portant interests of the country, and one which was affected by almost every question
that affected every other nortion of the comthat affected every other nortion of the cous
munity, so that they could not raise the ques munity, so that they could not raise the ques-
tinn of pulice, poilitical economy, or the sanitary measure, which did not more or less-
and generally more so-affect the agricultural and generally more 50 -affect the agricuitura
interest. Nembers of Parliament who were connected with the agricultural interests of the country, were censcious when questions
came upon them suddenly that there must be an agricultural side to the question and that an agniunt to give every consideration to it if
they cornt
they only new what it was; they had learnt what they knew from some charnal acquaint-
what What they knew from some carnal acquan a
ance and they took a one-sided view of a
question which had a great many sides. What question which had a great many sides. What they required was that they should be in-
structed by those who were interested in it as structed by those who were interested in it as
to what their deliberate opinion upon them was, when all points had been fairly considered
and discerssed. They did not want these and discessed. They did not want these
questions to be rudely thrown down in the questions to be rudely thrown down in out
Heuse of Commons. but to be discussed out
of doors. of doors. * *
nne time a great prejudice raised against the
nariculturol interest nne time a great prejudice raised against the it
agricultural interest the Prarliment becuse
was supposcu that they trok a class view and Wriculturascu that they triok a class view
weas supponkiny to some sefish object of the
wer wn. He lioped hat time frassed EngThe above is an extract from an En lish paper.

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an

The Last Kick of the Johnson Compact.
This once powerful organization is now
on its last legs and scarcely has anything which can be called a leg to stand on. The voices of the citizens of London are now begianing to complain, and the voices
of the independent farmers of the county are now beginuing to be heard in a totally different tone than previously; the scales are heginning to fith from they loor with wonder, astonishment and disgust on the very party they have so long supported and allowed to rule over
them. This very party has, disregardless of the interest the railway interest for private purposes, and county property has been sold much against the interests of
the county by their power. But for the the county by their power. But for the
most audacious and barefaced pieces of downright deception and rascality we hrought to light will be found unsurpassed the history of the country
The County Arricultural Society purcity many years ago, and they have held city many years ago, and they have held
their exhibitions for years past, partly
under favor, on other lands, because the under favor, on other lands, because the
Provincial Exhibition buildings have been rected there. There mast, to get thi made, too, for some the hands of the Soeiety at a very low rate. At the last aunual meetvoice of the meeting was taken on it when it was decided that the land was not to be sold, but was to be leased. To pact the announcement is made that the $\$ 3000$ and $\$ 4000$, and attempts are being made by the said Compact to take thi money and devote en not sure that this cail humbug! We are not sure that this can a a legal sale after the de cision of the last meeting, which was
deeidedly opposed to it. At auy rate we decidedyy opposed to it. At auy rate we
shall enter our protest against the sale of ciety, they had no taxes to pay and a ren was obtained for it. It would have made a beautiful spot for experimenting and to some one for such a purpose. The annual value of it might have become far more than the whole money obtained for it. As for the proposition to expend thind
money to aid the Western Fair it would be using it for the very purpose of destroy-
ing the real interests of the farmers. Th Western Fair, as we have previously stated, was never originated for the far
mer's interest. The object of it has lee to destroy the Provincial Board because Johnson was rejected from it ; he was to have control of this human elephant ; the
Provincial Exhibition was to have been established; the local exhibitions were t have been subservient to the Provincial at
Mimico ; all friends to the clique were have been favored, and any one who dared from them was to be persccuted in every the laws were not of sufficient power to keep down an imdependent spirit or to has even beenl done. The press
of the country was to have been crushed to subserviency to this clique or
to have been annihilated. The darkest.
blackest to enforce the iron rule of subservience on all. The farmers of the country were to autocratic power. in this or any other agricultural journal of this Dominion; we only ask togive the
name and reply to this. Farmers should he treated as human beings and should be tuyal interest: we might and ought to be known if our money is to be expended for
our good. We should know if the Wes
tern Fair or Mimico Farm were ever in-
tended for the benefit of farmers. Now ended for the benelt of farmers. Now and grasp at it for the support of these institutions, that have done more injury already to the country than a hundred
times the price of the land sold. They are trying to make a big spread this year by offering $\$ 10,000$ in prizes. 0 ! how easily are we poor farmers caught by a
bait of a drivelling prize. The foundation bait of a drivelling prize. The foundation
of the Provincial Board was sound; was really intended for the good of
mers ; it has proved itself such despite a little mismanagement. We held up both hands for its support although we exposed and will do son again if we deem it neces
asary. This Western Fair must fall from its past position ; they will not have such a bloated sum to talk of next ycar. I
they had acted honorably and had given fariners fair play and their just dues, they might have had a better chance of success, yes, might have been an honor to our Do 0 o
minion, but now the country minion, but now the country generally
look on it in its true light and will be apt to despise rather than respect us.
We hope the East Middlesex farmers
will not consent to the sale will not consent to the sale of their pro perty, nor allow it to be frittered away in
a silly manner by supporting an institution that is opposed to the Provincial As sociation. Is our land to be sold against our wishes, and the money expended
against our interests? This is for the farmers of East Middlesex to answer Despite this act of selling the agricultural ground against the wishes of the members, they will stilliany and get some oh their party in Parlianent to represe
tarmers. Farmers, a wake, awake !

## votes on English Customs.

We extract the following from part of a series of letters that are being published
in The American Rural Ilome, an excelleut agrictultural paper published in Ro-chester:-
The social distinctions of England are more in any other cuntry of Eurupe. There are
he puor, middle, professional and a aistocratic he poor, middle, professional and anistocratic
classei, and each of these subdivided into three or more sections, or substratums. Comcompoed of beggars, paupers, laborers, and
 of mectianies, merchants and manufacturers; nd this class seenined to he more subdividen,
by reasin of wealth. intellivence, dc., than ny other, The projessional class counts the
doctors, lavyers, ministers, gentlenen of weans
nd leisure, officers of the army aud navy The aristocracy forms the top of the secial pyramid, enbracing all with rank and title, riuh up and alove all, alone, stands the Queen
of the British Empirc. These different elasses and divisions of classes do not ming'e socially,
and the effect is in in some respects, I think, n inserved a sign on one of the churc'es"Day schools for the middlue classess." This, suppose, might be called a classed if not a
classical schunl. I cannot but think thi,
systen system works ba ly in the schools, generally,
but 1 wbererd its effects particularly in the
abbat

 Spurgen's, they are hut glommy dens, with
convenience $r$ comsort
In bearly all che
schorls, the seats provicel are ling, narrow schorls, the seats previ? wel are ling, narrow
benches, witho tt a particle of paint, such
were common in courtiy
 from one to laif. a-dozen of the e benches are
sure tof fall over. I visi el the largest echoo
in an important city, in an important city, and inquiled for the
ninister. He did not often vsit the school
I asked for his chi dren, they did mot attend
the suprintendent the superintendent was of course present, but
when I inquired for his chilidiren, I found they
 This in the I chaveived on extressing surpiixe
thioughout England. The weabbath Sc. .ools
the even those merely cornfortably off, will not allow hei
neath them; and as the latter are the most
numerous, of course the Sabbath Schools are numerous, of course the Sabbath Schools are
mainly conposed of the lower classes. Per-
haps the effect of a union of all classes would haps the effect of a union of all classes would
be to drag down the ligh insted of elevating
the low but I think not I ain hapy thit the haw, few who think then selves very high
we have still less who ave willing to acknowledge
and and still less who are willing to acknowledge
anemes.
themselves. lowe have a happy cuntrys themselves, tow. We have a happy counter
worth allit cost. It it fouded one intell
gence and virtue of its citiz us. Its destiny in in the hands of the people, and it is fo
them to say whether in the future we have them to say whether in the fature we have
splentid country, the admiration of the civilized wor
nations.
I spoke of Spurycon, I heard this celeable circunstarnces. for I becane acquainted with a leading member of the church, and
secured good seats. When the preacher made his anpearance, and cominenced at once to read the hymn, I was disaspointed. He did ot look like the pictures h had seen of him here was a large frame. wat and and a feebeness of voice th betokened a wor, out luan. The sermnn wa-
plain, fresh, forcible ; but lual I heard the plain, fresh, forcible, but had I heard the
sanne in any country cliurch1 in Americ.
would not liave beenl astonished, or thmult Would not liave been astonished, or thnught ance Mr. Spurgeon conmencenced publishing his moining sermon in ract form, and the he
said was the one-thousandth sermon since the
commencement of their publication. I had commencement of their publication. I had eard much said of the congregational sin zing mere hum. The targe congregation of about ne thousand should have made the Taher-
nacle ring; but there was no organ or other
nstrument to lead the people, and the chorisnacle ring; but there was no ngan or velher
instrunent to lead the people and the choris-
ter had but a weak voice, so that he could not er had but a weak voice, so that he could not
lead or control the andience, and there were
all kinds of time and humming noises, and nothing like good, hearty congregational singing. I learned that Mr. Spurgeot had preached
noly once hefore for three noonths, having been
laid up with the gout. I rememtered then nuly once hefore for three nionths, having been
laid up with the quit. I rememtered then
some very silly remarks he had made on the emperance question, and which are uo doubt
auiliar to naany. So mulu') did I see of the evils of intenyperance in Eudand, that I have In doubt in my own mind that if the Rev.
Ir. Spurgeon, and every minister in England Mr. Spurgeon, and every minister in England,
some fine day, should be banished from the
country and the ligur and ber wit the country, and the liquore and bere with them, never to return, it would be a blessed day for
old England. I fear intemperance is doing more mischief than these munisters are doing
good, and yet very few seem, to know or care nything about the matter. Indeed, it is very
strange what notions good and ctherwise rea sonable people soem to lave about dimk.
They think stout or gle so n ceessary They think stout or gle as niceessary to healt
ful existence as food. After all, with the is not of driuking so general as it is, there would atiticipate. I do not believe there is a country in the world where people make such
fools of thembelves ly intoxicating liquors as in America; and that is one reascn, I sup,
pose, why decent peorle have becime dis-
gustel kitogether. as vulgar and wicked. The step
atw
between. bet ween slight tippling and hatitual drun
keminess is alorter in America than in any kemess is ahorter in America th
country in Europe, I veit'y beieve.
I was quite shocked at the remarks weca
sionally made respecting the Quen. I hav Anerica lut in ternis of the highest respect. In E.n' and she is often represented as avari-
cious and mivery, caring fir notiing but to
 do win tins; then I suppose they thir k they
have a right to speak as they plase ot her swn, but wouln the same principle, I suppose,
samne tems-on
hiat it is said a wan will rpeak ill of hus kife that it is said a man will tpeak ill of hus wife
and children, bitt will hot allow any onc else
to do so without fiercely resenting the insult I had some friends connected with the large
seed hovse of Waite, Burnel \& IIuggins, the youncer menber of the firm bavinys, spent
several davs with me in Rochester.
sound
stion several davs with me in Rochester. I found
the establishmentit in Southwark-street nev,
neat an d contveniently arranged. After neat ard cofveniently arranged. After spend-
ing an hour or more, I proposed to leave . it ing an hour or more. I proposed to leave; it
was afternom, and $I$ began to feel the need of luncheon, ard quite phainly ext ressed nced
feelings on the subject. We were press:d to main a iitte longer, and in about half an
lonr were invited into a veat dining room
onncotd with the establishment, and found everything on the tale that liea, t or appetite
conld desire. After luncheon visited the
kitehen, where I found the cook and every
onvenience for setting up a hasty lunch or a
pretty censiderable dinner. This practice 1 pretty cunsiderable dinner. This practice 1 nents in London.
The next day I had determined to take a
rip into the cornty of Essex. This is the reatest seed-givwing county in Eagland.-ngland was always supposed to be a great uit country, but fruit is not eaten there as riit at all remarkable except gooseberries, nd they were splenidid. You do not see any
hrge dishes of strawberries served as with us, large dishes of struwberries served as with us,
and covered with cream. Hall-a-dozen, if not
very laris, will be put very larise, will be put on a plate, each ono
avyiny its stem attached, and you can tako haviny its stem attached, and you can take This is a rreat aggravation to any one fond of Strawberies. This is not from any stinginess
ordisregard to your wishes or wants, but there cems to be the general idea that fruit is uncems ta be the general idea hisions of cholera
heilthy, and the people have vistly before them. On inguiry of a friend Mistantly before them. On inquiry of a friend ho had visited America and had seen us eat
strawberries in Roclester, why they did not use more fruit, especially strawberries, he de-
clared they would all die if they consumed lared they would all die it they consumed
fruit as Aurericans do; that it was necessary
隹 fruit as tumericans do ; that it was necessary
or thenento to very careful or they would be
upset." "Now," said he, "in England, if a "upset.' ""Now," said he, "in England, if a
cliild wants strawberries, the mother will give child wants strawberries, the mother will give
it one, but before it can have two there must be a grave consuntataion between father and
nother as to its safety ; but no prudent pareat will aliow a child to eat three writhout medical avice." This may be slightly exaggerated,
bbit there is a real dread of the results of a
rree nse of fruit ree nse of fruit. Whether the climate is at
fau:t or the habits of the people, I do not know.

WE NOTICE that the inhabitants of Mortisburgh, Dundas Co. are about to pethe Drainage Act.

## Mouthly Cattle Fairs.

Gue'ph-First, Wednesday in each month.
II arriston- Friday before Guelph Fair. Bosurorth - Solurdey before Guelph Fair iora -- The day before Guelph Fair In rayton- - The day before Elora Fair.
čitford - Thursday before Giuelph Fair Tectiotldale-Friday before Guelph Fair.
Nero Hamburg - First Tuesday in eac Month.
Berlin-First Thursday in each month.
Elmira-Second Monday in each montl. IVterloo-Second Tuesday in each month.
Mount Forest-Third Wednesday in each $\underset{\substack{\text { minth. } \\ \text { Dur }}}{\substack{\text { Min }}}$ Durham-Tuesday preceding the above.
Feryus-Thursday following Mt. Forest Orangeville - Second Thursday in January March. May. July, Sept. and Nov
Mono Mils - Third Wednesday in Jan., April, July and October.
Erin- First Monday and October. File-First Tuesday in Feb., May, Auyust and November.
Listoucl-First Friday aiter Guelph Fair. Stratrord.-Monthly Fairs are to he estal.
lished in this town, and will be held on tho lat lished in this town, and w.

Editorial Table.
The Transactions of the New York State奴 pages illustrated with handemen cuth of krasees, the best set of illustrations of the kind We have seen. It contains very unefula accounts
of the proceedings in agricultural affaise and a
\&reat anount of uselul information. The hrenological Journal and Life Illusirated, A



 Rarn 'Torontorp Report of Dairymens' co.d.
vention, Ingersoll, 1871. Griffin's Seed Cata-
logue, Londor.

Simpson's Cattle Splice.
e have nent out geveral lots of this Spice
it is well liked. Those who have proculed
ace come for more. Its beneficial results it once come for more. Its beneficial results.
astonish many that have tried it, and the re.
urts from some whom we have furnished with utts from some whom we have furnished with
tappear sloost incredible. The demand for

## FARMER'S ADVOCATE.



Farmers' Politics."
Sir,- -It is undoubtedly more congenial to the mind of an editor to have complimentary testimonials in his favour rather regard to the advocacy of particular measures or principles : Were it otherwise, he Would be scarcely human. At the same
time, a publisher who wishos to support time, a publisher who wishos journal will, from prudential motives, endeavor to advoeate the interests of his patrons, and
point out means and measures which, if coint out means out, will result in their mutua prosperity. Permit me to say that in my opinion there is more good, substantial common sense in the article in your Feb ruary number on "Farmers Politics interest of the farmers of Canada. It has the right ring, and in the main is true and I heartily rejoice that there is one
advocate of the farming class who can advocate of the farming class who can
speak freely of the disadvantages of our position without the fear of King Stree before his eyes.
It has been stated, and with a show of reason, that Canadian farmers were indiff ricultural paper. The cause of this indifforence has arisen in a great measure from the fact that our "Canadas" and "Ontarios" were faeetiously endeavoring to were designed for hewers of wood and drawers of water for the few professionals of our Province, that we had no rights in fact, we were not represented in the press or the legislative halls,--and when every other interest was attended to, and nothing else turning up, there might be a
possibility of an "openiug up of our possibility of an "opening up "of our
cause in the mist and fog of an indefinite future. The farmera have made Canalian interests by their muscle, energy and pereverance ; they hare taken the tree from forth; have contributed more than any other class, or all of them put together,
to make the country prosperom, and what to make the country prosperow, and what
we want is fair play, equal rights, and we shall be satisfied with nothing less. W want a paper to support our interests
boldy, fearlessly, with Canadian prosperity and progress as the basis, centre and
circumference. Do not be afraiid of that puerile and backueyed cry of "dislojalty," but stand square up for the Canadian farr mers' welfare, and 1 predict lir you a warm
and generous support. It is snid of a cerand generouss support. It is said of a cerfaith and was worse than an intidel. I it surprising that with no press, 110 repre sentation, with studied and persistent de
ception and missrepresentation of our ception and missrepresentation of our po
sition, that we, as a class,are not " posted " and indiffereat. We have the power; le
us wield it!
M. W. Browns. us wield it! $\quad$ Paris, Fcl. 22, 18? ?

## 

Greverers' Column.

WE ARe pleased to notice that Col. WEAR Dieased to notioe that Col Walcote \& Camplell, is prerchased from
 "10th Lady of Uxford," by "inth Duk ben in such demand that they have bee taken from the States to Europe.
Col it is laying the foundation of a find
Col Col. is
herd.
 howes, England, a elelebrated breater or
Short Horns, is now staying with Hon. David Christie on a visit to observe the agricultural interests of Canada.
Messis. Birrell \& Johnston, Pickering, have sold their 1st prize bull calf "Bel Dord," out of "Mara," by "the Priest,"
to Mr. Jeffrey, of Whitby, for $\$ 245$.
MANY breeders are much troubled at cattle. As a remedy, dust them ant over with wood-ashes, and then note that this
nformation is worth to you far more than your yearly subscription to our paper.
At the sale last year of part of the herd of Mr. Mecionsh, hav he had that day been offered 2000 guineas for the American bull "3rd Duke of Geneva," bred by Mr . Sheldon, of Geneva, N.Y. Mr.
McIntosh refused the tempting offer ! and as this is the highest price ever offered for a bull, we place it on record as an encouragement to Canadian breeders to perse vere. There is no reason why our breedof Short Horns, but to do this they must use bulls of fashionable pedigrees as well as animals that please the eye.
big heifer.
Mr. Wm. Humphries of the township of
Percy has a Durhain heifer that weighed 999 Percy has a Durhain heifer that weighed 993
pounds when 13 months and 2 days old. Who can beat that?
Live Srock.-Messrs. McKenzie \& Fisher Hyde Park, London, boughit last week fion
Mr. T. Baxter, Hamiton, a short-horn Dur ham bull, eightoen montlis o!d, and weighing wearly 1600 pounds.

## Nolice.

On Jau'y 24th, we received a letter from Jas. Gardener, with no post office mar
inside or out. The writor will please le us know where it cane from It is source of very great loss to us. that post-
masters do not stamp letters clearly ; masters do not stamp letters clearly semetimes they are not stamped at all
Papers are sent in without notices or eve the post mark. We have not as yet been able to move the Postal anthorities to act but still hope to do so. The inere naming
of a township is no particularly request parties to naine thei

## post office.

Another envelope came to us on the 1 s of February containing $\$ 1$ in four quar The post oftiee stamp secms to be Sum merston. We will be obiged if the party

will let us know who they are by Postal | merston. |
| :--- |
| $\begin{array}{l}\text { mill let } \\ \text { Card. }\end{array}$ |

## sittina hens.

By allowing the hens to sit in the nest in laying, they will be crowded by hens that resort whe nest for the purpose of depositiug
ther reggs ; and in a min rity of cas:s. cg Ls thar eggs; and in a mij rity of cass"s. egss
wilbe briken and their place supplied by
others laid a week or ten days atter the hin
 rhin need sererall days more hoen; and the the
whisult is, is suall brood of chickens, and a lot ver.t is, as ainall brood of chickens, and a lot
oworthiess eqgs.
Put the sititing hen into a separate apart-


ANCIENT"SHORTHORNS. A reprint of the Sale Catalogue of Mr Charles at Ketton, Co. of Durham, England, in the year 1810, appeared some time ayn. The "rise and progress" of the hreed may
be said to date from this event; it was thit be said to date from this event; Teeswater irst sale of any sed prices considerably beyond the ordinary market value, which al that time was ahout $£ 20$ for a gond com-
mon or dairy cow, while beef was qunted at mon ordairy market the day after the sule at from five to six shilling
ibs., exclusive of offal.
The lapse of time tells strongly azainst very accurate description being given of
he stock; as few persons then present are now living, recourse must be had to writ ten accounts, which will be submitted to corrected before pullication. Much of the information given is entirely new to the public, and every endeavor has been made
to render it trustworthy. A few observato render it trustworthy. A few observa-
tions concerning the cattle of the north previous to the present centurv, may not be uninteresting. One of the earliest
works published on live stock is called works published on live stock is callet
"Leonard Mascal's Government of Cat Lle," printed in black letters, 16:33. It te, printed
was the text book of several subsequent works, and many of its precepts and prac-
tices still hold good. The author, afte tices still hold good. The author, afte
mentioning that there are many diversi mentioning that there are many diversiof body, and of grcat courage,", gives, a the best descript,ons, quotations fron
Mago of Carthage, Columella, and Ste Mago of Carthage, Columella, and Ste
phanus, all of whon wrote most miunte particulars of cattle, prior to the Chris tian era. Mago says, "Bulls ought to by yontle, and of a micane age, with a quici
looke; his horns to be nore shorte, like looke; his horns to be more slorte, hi
wise his neck more fleshie than an ox " his forehead velvet, eyes great and large, mouzell blacke, noxtrils open and wide,
dewlappe great in hanging almost down to his knees, his breas rond and tigs wide and open, reins large, back straight and flat, with a little Lending toward the rumpe, thighes round. Regs straigh aud well trust, yather some what shor,
than long, his taii long and well hared,
and to be briefe , and to be briefe, has hody to lee thich
and shert. Columelha saiti, ' a cow of estimation ought t, he large aud long " bodied, gentle, having a large and drep
" belly, broad forehead and black open " eyes, legers short and thick, and her that, 'the browne collor mixt with white spots is good; great cleane horns,
somewhat crampled, thighes thick and
round her ucteren la ze and dice e, and round, her udderen ha
It is generally considered that cattle were imported into the North of Engiand hy the Danes, prior to the Normian Conecpecially in the Hoderness district, and bea observed betwreen the cattle in unrththern Europe and in the north of Eumland.
So recently as 1838 , M. Torr, while tra velling in Holland, visited U'tictech Fair, "resembling ordinary Shorthorns; they were rave milkers, had tolerahle forma "ion, a gooh skin, mellow handle, ani
"nice waxy horns, and witi every variety "mice waxy
of color."
The rich grazing land along the valley
of the T'ees would naturally be the home of good cattle. Mr. Bailey, the Durham historian, says, in 1810, "the cattle buth
"sides of the T'ees have been known by "the appellation of the Teeswater breed Abont 1740, their color was red and white, and white with a little red about the neck, or roan. This color being - broed of Shorthorns, makes it probable "that they are descendents of the same
race." Mr. John Wright, born at Low fields, uear Catterick, in 1784, a well-know
the author of the Herd Bonk, says, that hit earliest recollections of Shorthorns were large, massive, expansive corm
width and substance, hardy constitutions mostly red and white spotted, white bodies netks spotted with red or roan, ears red nod head white, frequently black nosen and rather long, waxy horns

Nature when left aloue generally reprodu es herself. There is now in existence a herd of nerigree Shrrthorns at watton
Hall, Staffordshire. which were originally Hall, Staffordshire. which were originally
obtained from Mr. Geo. Cowling of Rick nall Grange, Darlington, who bred from 'L eeswater rattle far back into the last cen-
tury and used in later years bulls of the tury, and used in later years bulls of the Colling's, Charge's, and, lastly, of the
"Princess" stock. His herd was sold in Princess stock. the stock eventually found its way bo Walton Hall, where it has been bred in and in for the last
twenty years. The owner of the herd twenty years. The owner of the herd
writes, "Farmers about here think white cows have delicate constitutions, but I an also convinced that they are nearly alwars good hreeders and good milkers.
The bulls that I have used have nearly The bulls that I have used have nearly
all been white ; my cattle are now mostly white, and so much alike, that it is difficult to tell one from another. I have a few with light roan and dark
roan necks, and a few white with red "roan ne
Some of the Tesswater cattle were
Cossed with a bull that came out of H oland. Cully in 1785, remarks, "I remember Mr. Michael Dobison, of the Isle, Se.lgefield, who went in the early part of " bis life into Holland, in order to buy
" bulls. Those be brought over, I have bulls. Those be brought over, I have
been told, did much service in improving " "the breed ; and this Mr. Dobison, and " his neighbors, even in my day. were not-
"ed for having the best breeds of hort"horned cattle, and sold their bulls and
"heifers for creat prices." Sir William "heifers for great prices." Sir William stock with this Dutch blood. Coates, in the fifth volume of the Herd Book, gives
the final cross of Rates' Wild Eves tribe the final cross of Rates Mr. Michael Dobi-thus:- - oescenied he purchased in Holland above a century ago. Other breeder itterwards imported lyery (bad colored, and hips: these did much harm; aud mos if the old Teeswater breeders endeavored on aroid this evil.
Culley says in 1803 " The great obstacle to impruvement was that no bull should three years: if kept longer, the breed - der diminutive stock liable to disorders. - Blakewell (born 1726, died 1795) was " one of the carlicst to upset these no-
6 tions. For more than twenty years he one fors. For more than twenty years he
tiad no cross, and the best stock was bred "from the closest affinities, neither were Thisy less hariy or liathe hred Leicester Sheep or "Biakewell's improved Dishleys," and in all probahility, the suceess of his
princuples induced others in the Nurth to try them. Culley goes on to say, "It has "becu the misfortune of Shorthorn breed"cirs to pursue the largest and higgestboned nues for best. Their ideas are
now enlarged, and I an glad to see nyy
non well founded. In a tew years hopes well founded. In a tew years
rapidimprovement has taken place in the breediug of Shorthorn cattle, and I "have reason to think they will surpass
"their rivals the Longhorns, which excel in hide, hair, and quality of beef, as
Shorthorns co in quantity of lieef.tallow, and milk." Mr. Bailey, in his account the Durnam cattle, writes, "The visi-
tants of Blakewell having seen what he had doue with the Longhorns by selection, and at how much earlier ages they got fattened, were induced to try what eould be done by similar means with the
Shorthorns and several selections were "Shorthorns, and several selections were " made foss."
(ro mix conclupy pix ouk nikir)

## X. A. Willard's Address

 Delivered at the Däirymens' Convention, held at Ingersoll, 1872. We leave out a large portion of statis-tics and other useful matter, as our space does not admit of the whole of the ad dress, at the present, at least.
The American system of dependence upon a foreign market, aud the furciug forward o one, and must always prove more or less dis-
astrous. Let ns reason up,n this matter without any
absurd theuries or speculations. I shall apppeal ouly to your conumun sense for a practical
sulution of the question. I affirm that the iny it in hot weather, sa a shameful waste of th hard earuings of dairymilen.
the facturies in the United states and in C. the factaries in conveniences for curing cheese pruperiy, and
The chese curing process is one requiring
skill aid attention tol details, second only t. the manipulation of the mik. The fundameutal principies un this dipartment aie aithis cuntinent. Frum the thme that the
cheere goes from the press to the market, it and is quasity when proluced fr.m good milh aries precisely as the we uhr happens appioxinate to a certan uniform temper
tue. We now know that the whole arc of c.tere-ma kuy cinusists iu the proper deve frum an, ther cluos of fungi more or less vic ous in chacater, which pets possession of the
mulk a id curds, or the chese np in then s.ell which are the cheese maker's real friend
Th action of the one clas of finvis is atoeet ier narmed and
 Nurs, the useful clase of funci must have a
$t$ mperature fav roble to their gruwth. Thi
 office-t, attack the of the chese, an! to break i $i$. dow
 tasie, fir the human stomach. Thus, unden
certa in conditions, it will pritrum with maihe matical prec sion and with certainty.
Yould know how piants aid animals are
 the s.urand bi tor crab into the large and lusci us app.e-yen ree how even ingnimate
nature has be no made bo dy our biditivthe great proq eliing power of the wor:d-inn lightning chained to the telegraph ha; be?n
made to taik. G hid has siven ut unbounds!
pawor
 Which they are governed. So this minute mi
cr sce pic fungu, muder the hands of human
intellivelice. will perf rum our bidd ing in the cheese vat and upon the slieives, if we but understant and appiy the law which the al
wi:. Creater has laid down for the guverument of its being.
nd develomment of thess results, the growth rords, fermentation of the cheese), must be mitorm and continuous. You cannot induce
excessive activity one day, followed by a cessia on or checking of the pr cerss the next day Cheese made from good milk, and with only (runinary skill in manufacture, when placed upan the shef a a well veniform temperatur of $70=$, will a most invariably cure down fine in flavour and in quality.
The action of these fungi (call it fermenta-
tion if you choose) is pecuiiar, and is not full tion if youn choose) is it ituar, and is not fully
underst-od. Certain it $i$ howerr, that they have the porwer of converting the caseine into
fat, or a substance similar to fat, and hence, fat, or a sabstance similar to fat, and hence,
by attention in curing, a cheese made from by attention in curing, a cheese made fron
niik partially skimmed may have as mellow and meaty an appearance and taste as who
milk cheese cared in variable temperature milk cheese cared in variable temperature
aud it has been fuily demonstrated by the
analysis of Voelcker. This peculiarity in the man.facture and
curing of chee.e was bronglit before ny notice别 1866 duing my examination of English dairies. Mr Harding. the distinguished exponent of Cueddar cheese-making in Engand, always incisted that the goodness and
delicate flaver of the cheese depeinded more upon the temperature and manner of curing han up, in any extra manipulation in makang.
He affirned that by keepliug the temperature He affirined that by keeping the temperature
of this curing room at $70^{\circ}$, without variation, he could remove a considerable portion of ream from the miik, and yet could be able to
nake a cheese that would sell in the London market for the highest price. It was his
usual custom to take the cream from the uight's milk, and l lave never seen the character:stics of what we term1 "fine cheese" than that which 1 ate at his table
His curing roon is surrounded with a nest of ron purpes, which are sspplied with hot water
rom the boiler beluw whenever the tempera ture of the riom falls below $70^{\circ}$. In the low even temperature of England, his curing
coom, buit in with heavy. Walls of hollow roon, buit in with hicavy wails of hollow
brick, and with anople provision for ventila-
tion, seldom variat in tenimerature from $70^{\circ}$. Ioll seldon varied in temperature from $70^{\circ}$
I have expurimented sufficiently in my own daily to know that wish good nill, and win good curing room kept at $70^{\circ}$, there is $n$.
a. cesssity for lad flaver, and that cheese can a cesssity fur lad flaver. and that chese can
be kept fron one year's end to the other, and Yet retain that wild, sich, nutty taste which he English so
I feel earnest about this matter of curinn
hecse for I am convinced that its naglect in lie great tanlt of American factories. Th onplaint is quite common that America
lueeve will not keep. The secret of lon ceping cheese is not so much in its manufac is caring.
Our dai Our dairymen complain that prices are low,
d are seeking a remedy. The remedy lie better milk and in larger and better curius In New Y.rk there is not a single factory
In vithin my knuwipdge that can hold chee: Even under our system of weekly sales, im-
nense quantities of $J$,ly and Angust chees re ovel-heated and taintod in flavor wher is not one factory in a hunded that can hoid
hise than six or eight weeks' make of cheese M"re than six or cight weeks' make of cheese.
You hear of immense shipmertits of cheee it wather. and at low prices. Nell "W. lare not krep it. fer it is hecinning to turn
flaver:' 'e ides, our rooms are full, and it must Nuw, is it any wonder that dealers huy low
and that dai ym $n$ are plact d disadvantagre Why, my friends, you and I. and every out Ase. will buy as cheaply as we can. Mas
 ing a large portion of the year. and England
knows it. But the dealers after purchaing are auxious t, get ri.t of the goods. espec:all
in hot weather They have an a ticle upol
their hand; which ther know is constantly $d^{-}$preceiating, and is liable to be 1 'st altoge
her, and so they shift the responsibilitity a son as may he, making what margin the
can. It is just so in Engiand. It is kunw that much of our cheese will not keep and the shippers are on nettles until they clear the
warehnures of stock as fast as it c, mes in. It is this over anxiety, this hot haste
have our pr duct change hands for fear of los that brings prices dar holds its own at $76^{\circ}$.
that English Cheddar 80 s . the cwt., year after year, and why? Be-
cause cause it ca
preciating.
improve curiva rooms. But your will a.k.-In what way cail curing
roums be improved, and in what way can buildnys already erected be utilized? In the first place, wherever pinsible,
would have a collar under the dry h. use. would have it six or eight inches below the or three feet, or of a height sufficient to give an abundance of sunlight throughout the or twelve feet high in the clear, and the bottom should bethoroughly underd rained. Then
the flor sauld be grouted and covered with cement or flagging, so that no leakage or ac-
cumailation of alope in pomibles Ventilator
with wickets should be arranged. leading to
the rooms above or to the roof. Such a base nent would add very much to the capacity o
a dry-house, and by attention to drainage and rentilation, may be kept at a low temperatur during hot weather. It may be provided wit hot water for heating if necessary, the pipes
connecting with the boiler so arranged that heat may be supplied at any time with little
expense. Ilere I would place at least a part expense. Here I would place at least a part
of the cheese made in hot weather, and all
such cheeee as could not be readily marketed such cheese as
at a good price.
Supposing every factory had a cool place for soring but 200 cheeses in hot weather, the
quantity in the aggregate would be very conquanterable. There are over a 1000 factories in the
State of New York alone-Ray that there are State of New York alone-ray that there are
1,500 in all-that can store 300 cheese each above present capacity, the gross amoun vould be $27,000,000$ pounds. This amoun
kept from the markets in hot weather, safely kept without fear of deterioration, but retaining Havour and growing better in quality,
would so relieve the trade that cood price Would so relieve the trade that good
wculd probably result on those shipped. I would not advise the keeping of cheese at
any time when fair prices can be obtained. Then I would addpt the Crosier plan of this plan twe conductors so down from the pper part of the ice-house. They are made woards 8 inches wide and an inch thick,
with holes bored in them. These holes allow the cold air to enter from the ice, and it pours
in a stream from the mouths of the tutes inIn a stream from the mouths of the the es in-
to the roona. The temperature of the air as it cemes from the tubes is about $35^{2}$; with
hick walls and higl windows he is able to Ower the mercury to $62^{\circ}$, and even lower in
the hottest weather of July. Sometimes he closes one tule; the draft is strongest in the
iottest weather. By this arrangement and hottest weather. By this arrangement and
he hot wa'or pipes, the desired tenmerature may be sccured throughout the season. I do wot pritend to give the best plan for
ecuring a uniform temperature. I give that vhich is comparatively inexpensive and which
has been found $t$ ) be practical, to show you has been tound t.t be practical, to show you
that such an arrangement is within the reach f every factory, and that this matter of conrolling the tenperature is not so difficult a
airymen have been led to imagine. By this inple arrangement, probathly the room imme liately over the basenent (if the out ?r wall
ve properly constructed), could also be made $v e$ propery const ructed,
cool enough in hot weather.
I would have every factory have store room unficient to to'd all the hot weather cheese
athat at no time to be forced to sell for want of room.
Now, 1 have tried to show you some of the avantages that would result from the proper
uning of cheese, and from having enough aning of cheese, and from having enough
to e rormi to hold a certain amount of hot Let me ill
Let me ill strate how this course would
thelv affect the narkets. In the first place he quality and flavor of the cheese would be mproved. In the serond place, by withholdug a portion of your stocks, and by not crowd-
ing the warket at a time when it is a fearful ark f. $r$ dealers to handle large quantitiea, you sill be ablie to maintain a decent price for
what youl do sell. This natural consequence what yon do sell.
is a law of trade.

$$
1 \text { have sa }
$$

1 have said that our great fault in American cheese naking to doy is in the curing of the
theese. I have said that with proper attentheese. I have said that with proper atten-
tin to curing, and with only ordinary skill in manipulating good milk, a first-ciass product can be made. I wish to call attention to that - Good milk.

We liave a great deal of talk in New York ahout fancy cheese and high skiil in cheese
making. Some factories have a great name in this respect. When an experienced cheese maker, who is attentive to his business, geti off he track. imperfect milk, unsuapected at the time of it
deliverv. I do not mean imperfect milk, re sulting froun want of cleanliness in dairy uten sils and the general care of milk after it is
drawn frcm the cow ; that matter has been drawn frcm the cow; inat maltor has con
discussed trom time to time at our diry con
ventions, and farmers ought to be pretty well ventions, and farmers ought to be pretty well
informed upon the evil effects of such fllthy informed upon the evil effects of such fllthy
practices. Dairymen, it is true, are not tup to
the mark in this respect for there are vat practices. Dairymen,
the mark in this respect, for there are vast
quantitities of chesese everf year injured by
these means. But you will understand that
Bet these means. But you will understand tha
am no the git--edged factories this matter of
cleaniliness is beconing more and more ripd aminness is beconing more and more rigidly
cleanilined ameng patrone.
onforje

Outside thrs, perraps the most prolific is water of ste rnant pools tramping through wales of mud which are alive with filthy oramisms of decomposing vegetable and animal 1 need ne need only refer you to a few facts by
which milk mayy be spoiled, while the dairy-
han suspects nothing wrong. man suspects nothing wrong.
XHALING BAD ODORS.

Experience and scientific investigation have
stablished the fact tlat milk taints in the ow's bag simply on aceount of the cow inhatng bad odors while at pasture. This taint way not be perceptible the moment it is mall pox in a person recently exposed to that disaase, but the seeds or germs of puitrefaction may be there, and in the case of the milk be-
ins to give trouble to the cheese maker before ins to give trouble to the cheese maker ber
his curds are ready for the press ; or if he eets the curds into press without difficulty
he cheese not unfrequently shows an early he cheese not unfrequently shows an early
taint, decays quickly, and turns out bad.
anted by dugt and by bad wate I have seen numerous cases in which the
milk las received taint from particles of
dust falling from the cows into the pail while dust falling from the cows into the pail while
milking. (The speaker here referred to two milking. (The speaker here referred to tw
notable instances of this cause of bad mill I alluded in my report upon English dair-
that had comer his panal obsran.) ies, made before the American Dairymen's
Convention in 1866 , to the character of Rng lish milk as cleaner than ours, and I attribu-
ted the fine flavoured cheese of England in great measure to this one cause.
concolumb NEx Moxtr

Sir-Where can 1 procure from fifty to
one hundred of what is known as the Siliverleaf or Abele tree ? B. D., Brant We cannot inform you. Perhaps at
Leslie, of Toronto, or Ellwanger \& Bairy of Rochester, may be able to supply them.
inportanct or thobovar cultbre. But very few farmers in our country roaliz
ne importance of thoroughly cultivating the wil ; yet the soil is one of special interest, and one deserving the atyention of eevery which in
turist. Under the system of feeding which
generally practiced lin this ountry the land
隹 vears out and the crops diminieh in quality and has f frunished man with a sill of virgin richnoes
and fortility, it cannot oontinue go while wo
draw from it yearly our vati resources of food araw from it yearly our vath resources of food
and colothing. The sil mut be renovated and
its fertility renewed, or it will cease to yiold its in fertility renewed, or it wil cease to yil Money
increase for the zupply of our wante. Mon
and labor muat be expended upon it, and in or and labor must be exponded upon it, and in or
der to develop the reourceet hat nature has in:
parted to it, it must te well tilled. TThere per to develop the resources thatled. There alo
parted tit it must be well till
farmers with but a few aerea of land, whicht farmers with but a fow aeren of land, whiolt
they thoroughly cultivate, and make whore
money than thooe with large farms cultivated
in the usual manner. And what ham been dune
 every farmer; as it is far more profitable to
thoroughly cultivate a emall farm, than to $g$ over in a moveny manner ar arger
is gnined by making eapital pay largely. Poorly cultivated boil may look au well to the
superfi.ial oberver as when the work is tho roughly done, but it toened sown in such land
the ends in viev. The see aprings up, but in case of drouth they soon
Fither away, becaue they have no deppeas of
earth, and a manall crop is the rewult. But where earth, and aimall croke ne and worked over
the ground is well rocken up and ond it in the best possible condition to
and over he and over, it is in the best possible condition
answer the ends of cuttivation. Heat, and air,
and moisture penetrate eauily through the looge answer hoisture penetrate easily through the loone
and marticles, and favor the aermination of the seed particies, and favor tho zermin the plant, while
as well as the after-growth of the plath his hardy
if drouth intervenos,vegetabe growt in checked by it, an the roots strike out wide and
diepp in the trenched soil, and are independent deep in
of the
ground.

$$
\begin{aligned}
& \text { The extreme high priee of farm produce dur- } \\
& \text { ing the past few years has induod many farme. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { very farmer, then, thenspringly and making it } \\
& \text { farm, uring mane ung } \\
& \text { nis im to get the largeet poesible crop froma } \\
& \text { overy acre cultivated. }
\end{aligned}
$$

## FARMER'A ADVOCATE.

## Correspondente.

## APIARY.

 MIrsERTNG BEEs.Much has been seid on the suject and lit-
le light offered to the obeekeepers of Conada. Ile ithe first place, what is the requiriements of a stock of bees to stand the changeable win.
ters of this country? We will sum it up in
 One word, "Strength; that is, plenty of beear
ond plent of toney, let thir house tee what
in will. We find bees living in trees in the
 at the north side of them, and tiving tron yeau ust thoo kept in houses, pampered and pun
shel for the $\begin{aligned} & \text { ant of tiberty. Bees whe }\end{aligned}$ (on-
 striving to get to the light. Put then where
 rround them there is danger whether thees are indoors or ort, but they cannot stand coid
wLere there is damp no more than any ( herer Where there hisere has been a great deal raid about bees going into a dormant state, Let
 the hive registered 23 ${ }^{\circ}$ below zero. I I.ave
kinown then to winter on their sumuer stand
 they are diy. Bees left on their summen
tands when winter sets in, throw off stamm which congeals around the walls of the hive
until the whole thing is liermeticilly 1 cosed. Care silould be taken in regard to (1penings in
the botom of the hive whlere sleet canno close up. Strong stocks sonuetimes perish f fur
want of air, when a warn day comes the heat of the bees and the sun sivt,ide the hive
 moved, then when cold sets in the tifos and
wind makes the whole hind
moy Mind makes the wiote tond to their sto es and
time the beesmve around
supply themselves, aud if quite warm thoy go out to discharge a necessity which, if de
prived, they $x i l l$
smeas the live. Sone say many bes are loast on the siow. II hees
are kept in doubl-walled hives and pliced in the open ground exposed to the rind very
few bees will heave thesive unhess it is very
warm. What few bees may fall son the sunow

 the hive. Weak stocks lose very few bees
when left out in tite winter. If bees are kep When rote they get no benefit of tha sun anf
wind, ensequently they ket damp and require closinz $u$, which makes them uneasy and con
sume more honey. It the cold pels at them shey caunot stand it when damp; if in a warm place the same amount of steaun arises which
molds and saturstes the whole apartument, and When set ont in the spring are not in a condi
tion for early breeding, and fail to throw oit
 Coberrg, Ont.

## BUILDING.

## To bulle a wakm notsk.

Sil, - Will youn allow me to tell fou how $t$ be cheaply kept warm, which is nuch desired in a cuntry where the cold is so severely felt
as in Canala, and where fire wood is is so small as in Canala, and where fil
Lee a frame house be built as nsual, with
this exception :- -Instead of studs of 4 -iuch scantiong, use f-inct bagrds frime 6 to 12
 rough-bardded, clap-bararied or or plasteree

 be closed dight as if the boards had dint then
sillit, being cart ful that the edge, of the
As ench

 the previous day in $a$ pile, with a littice water
thrown on to dissolve the sait. II cleapness
then is deiren, cheap cotton may be used to paste
on
 side ceilino and then papered it will be equal
to appastered wall in every way, and caulot

## The adrantage of this method are chand.




 ane sion isony in inaghnation hant bail



## Kinggton, 26th Jan., 1872

We prestime our correspondent intends he cracking or splitting of the boards to eason It is our belief that the plan would be very valuable in many places.

## GOOD WORDS

Complimentary, ETC.
Sir, -Please find enclosed $\$ 3$ for your
inghy -rstemed ADvoste. I fell as though
I and ny family could hardy get on without
it. I think that every farmer should perute its pages. I also udmire the stand you tale especting the Agricultural Farm about to be
established in Oltariu, and sincerely hope
bat the present Government will consider the question, and spend the money to a much gricultural Societies, and thus enable us to best cultivated frize list, and farrivards, and and othe mprovenents. You may hear from me again Beaverton, Feb. 3, 1872.
We touch on political questions affecting our agricultural interests, bit do not
wish to interfere in the strife between Re ormers and Conservatives. The political
olatform on which we stand, for which we atform on which we stand, for which we on, is Farmers' Rights! Our rights and interests have not been as well looked after or guarded as many other interests. pinions in. Should we retire from the field of publication we doubt if you will have an agricultural paper published in
Canada which is not supported by a political party and for political purposes. Use
the Farmers' Advocate while you have it the time may come when you will have it only in name.
to farmers' somb.
I say, boys, look here! Why should the
old hands monopolize the whole sp rit of the correspondents' space in this valuable journal!
We have here a paper specially devoted to the havicultural interest, and we gather from
the frank and earnest views of its Editor that the trank and earnest views of its Editor that any communication touching the progrias on
the agrieulturist is acceptable to its colunns
and will be courteously admitted and will be courteously admitted. The idea
has struck rue with mome force that we (the sons of farmers) might employ our latent
abilities and budung ideas for one another's advantage and improvement by entering on a
communicative correspoudence through its commumicative correspondence enrouble it
columns. The opportunity is seasonable and
should be should be turned
many-indeed, mast of us-who have spare
time tine upon our hands these long winter nights
which might be devoted to useful employ Whent to profitable occupation and in applying
me a practical use the theories inculcated at shon. What, hen, is better fur this purpose
th ant $t$, sit down and write a letter, embracing some practical idea that might have been sug-
gested to our mini ds during the work of the
day day I If we are in error or if we are correct
on any subject we know by bringing it inte public riotice that it in 111 attract attenticn, and produce a corrective or aftirmative result. I
we are at fanlt in conjecture upon any litlle
matter of ca'culation or detail, deatined may mater of caculation or detani, destined may
be for our future life, youth is the best period
to enquire. Store the young mind with fact to enquire. Store the young mind mith facts
that will carry conviction for usefulness. Let
us begin then and establish a character fur improvement by writing our current ideas for
the ADvocate. If we are not perfect in tymology, syntax or prosody, letter writing and its corrected form in print are the best incen-
tives to stimulation. The time will not lost if it only teaches uns where we committe
an error, and what to improve in future cor
respondence. What say you, Mr. Editor?
will you give us encouragement? That letter
riting will you give us encouragement? That lette
writing will stremgthen our ideas and bestow reasoning power at maturity is the firm con-
viction of one who is anxious to see the farmers' sons persevering and advancing with
the times, and that this ffitrt may be only the times, and that intel eigent correspondence
precursor to much int
is the aim and object which induced your
Believe nue Mr. is the aim and object which induced your
obedient servant to write. Believe mye, Mr
Editor, yours, \&c.,
ALPHA.
vagestrd Itrmg -no. 2
Farignd RDVocatr,-I am very much please
with your January number; it is far ahead your yourmer issuens number, thout thy were good. I
fact, your article on music is worth the year sact, your article Is an fact us farmers seem to
forget that man is a capable of unch high and
for forget that man is a capable of such high and
noble enjoyment as music will give to men
above that of the brute croation, and I believe no
ho
$m$ "


 $\pm$ $\because$
 to water, and I believe most cattle-breeders ad-
visato water twice a day I believe them to be right; but how many cattle get a good, quiet
drink once a day
Some suppose that in win
 take. The should not be out long, but should
have a good drink, for cattle are dry in winter as well as summer. Hatte your water in the
yard if possible. Catle ilike ppring water in
in winter, as it is not as cold, in fact spring water
is warm in winter. We did not let our cattle on the meadows last fall. but cut some of the
second crop for seed. $I$ have no
threshed it yet and do not know how it will yield, not bit
I think. The zad seemed full and plump, but
Ther rather smanll in size. I can get it threshed an
cleaned for 7 c . per bushel. We expect to hav as much as wili do ourselves to sow, and pay for
the threshing, besides the straw will be better than nothing this season when fred is so high
Since commencing these items it has frozen very hard, and the roads are very icy; even
about the yard it is dangerous for cattle, espe cially eows heavy in calve. Do not allow
young horses out when your eows nre out, a
they will run the cows and hurt them more or they will run the cows nd hurt them moro or
tess.
week, free scope atve salould be carded onder ace cover somewher in the frarc, nand one quart of of pa or corrn
in theal once day besides their uasal food. Thi
meal
will keep them in good trim, and you will get it back next summer.
You head my items
 Frite "What I Don't Know of Farming," and
wost of your readers will come under that
head too. I would like to ask a few anestion most of your readers will come under that
head too. I would like to ask z few questions
for my brother farmers to inform me Tor my brother farmers to inform me on. What
is the cheareat and best method of pulling. cleaning and putting into a fence, pine stum
from 20 to 50 inchee in diameter. Soil sand
loam. What is the best way to secure th loam. What is the best way to secure th
growth of young forest trees? Has any o
your readers ever fuly tried galt and plaster for turnips and other roots, and the best mode

of applying the same? I would like some | Your readers |
| :--- |
| these subjects. |
| Rould |
| Rockton, Feb. 13, | , 872.

## IMPLEMENTS

new gubsollma, bto.

$$
\begin{aligned}
& \text { Sir,-I would feel obliged if you would in } \\
& \text { form me through your valuable paper wha }
\end{aligned}
$$ form me through your raluable paper what

the cast of Lanb \& Warren's New Subsoi Attachments are; if they can be used on any
commou plough, and if there is any plong that works wittout a mould boord and plong a
haare in place of two cultivator teeth. Let share in place of two cultivator teeth. Let
me know if your McCarling wheat grows with squwre heads $1 \cdot k$ be barley. Why answering
these few simple questions. you will much
 Amhe
In answer to the above we moy state :-
st, the cost of Measra. Lamb \& Warren 1st, the cost of Measrr. Lamb \& Warrena
Combined Plow and Subsoil Attachment
nlow, both the wheel to lighten draugh ith any plow at present constructe 3rd, the advantages claimed for Lamb \& Warren's Subsoiler are that it is a complete pulverizer. and that with one tean urrow 6 inches deep and the Subsoiler 6 inches more, making a depth of 12 inches in all secured without any extra cost for vantaye over alt others of pulverizing the arth by the motion of the plow, causing he mould to pass through between the wo coulters, opening without and duly oil as a receptacle for the sirplus moisture and a storehouse to nourish the roots fubowing crops. 5th, there is a Halton Subsoiler occasionally seen in use which is
of heary draught and is used with from 2 to 4 horses. This Subsoiler has to follow after the plow; tears up the furrow to a
depth of 4 to 8 inches and from 7 to 9 depth of 4 to 8 inches and from 7 to 9 inches in wiath. It is inconvenient for
reueral use and has the additional objection that it closes the pores of the earth and prevents the moisture from filtering through. Messrs. Lamb \& Warner, the patentees of the Combined Plow and
Subsoil Attachment, will no doubt be happy to answer further inquiries on addressing them at Strathroy, Ont.

$$
\text { dominion } \overline{\text { bTUMP Extractor. }}
$$

SIR,--Plense inform me how that Stump Ex.
tractor worke, what is its gize and what they tractor worke, what is its gize and what they
are sold a.
at have a great many hemlock artumps scat tered all over my Ilice and I don't
think they pay. I think by the appearance of
 cout. Please send the terms as
getting something of that toot.
Molesworth, $J$ an., 18,187 .
The Machine is worked by a span of horses ; a double pulley is attached to the lever, the horses walk steadily off, and up
comes the stump if not a very large one. For very large stumps two levers are used the stump being hitched to several times and drawn up by degrees. It is the quickest and best machine we have seen if you procure one, indeed we have no yet heard of anyone being dissatisfied with them. The terms are generally cash but short credit is sometimes given,
part down and a longer time for the re part down
mainder.

## THE FARM.

owing rape.
Sre,-I wish to be informed as to the best ,ime to sow rape for summer pasture and if it will answer to sow it on summer fallow thal our readers will answer the above queries,
D. K. Will feef imuch ob inged. 15 th Feb., 1872.
"D. K." or any other person asking questions, should send their names to us,
as in such cases, the name should appear. What harm will it do you? It is different case he may be attacked, and it is well to have a shield. If you are 1gnorant about any subject, however trivial it may be, it
does not show your wisdom to ask and redoes not show your wisshoms that you are
main in darkness ; it shows tco haughty to learn, which is a bad fix to be in, and we have sometimes found it so to our loss. Sow the rape at turnip seeding time; you it you sow it summer fallow. As it grows late, like the turnip, perhaps
some of our readers can send us an article on its culture.
Wr received a registered letter containing \$1, with Kingston post mark, Feb. 15. order that.
amount.
does farming pay
Sir, -In the September number of your
paper there is an article with the above head
$\operatorname{lng}$. Now, I have read the article, and at
first I expect explain his $m$
gatisfied hims satisfied hims
best writer in
say that he is say that I wou
ship.
eyes and lool reckon one f
than he was than he was
are worth $a$
a on a little to
if as many with the sa
nowledge, one failure other busine
their busine in Canada w is a notoriou
know the other class i
obvious ; if make a livi to imakine
Far from it
as Far from it
as intelligee
which mak Which mak
keep up th
lizent men lizent men
don't know
for if they Yor if they
troduce enf
they would But if
subject.
induce " .
 World with
with, and
with定茄 good far
them so,
farm.
common
pays?
letter, constructed,
Or Lamb \&
O. is a com-
th one team h one team
ast make
Subsoiler of 12 inche ra cost lverizing the low, causing at and duly rplus moist sh the roots
8 is a Halton use which
with from has to follow errom 7 to tional objec ron filtering
Warner, he Plow and niries on a
Ont.
On hat S Ensex six ce and I don't
con
cappearance of
culd clear them am thinking
R. CATHES

## ttached to the

 ily off, and up evers are used,several times 8. It is the we have no zenerally cash mes given, or
das to the best
asture and how assture and he
acr a also if
ner fallow th $f$ fou or any
above queries,

D. K. | person asking |
| :--- |
| r names to | should appear

It is differen cle, for in tha Ignorant abou
it may be, vs that you are h is a bad fix to nes found it so $t$ half the good turnip, perhaps 1 letter containmark, reme, in number of your number obove headarticlo, and at
first I expected the writer to follow it up and
explain his meaning, but he appears to have explain his meaning, but he appears to hav
gatisfied himelf when he told that he was the best writer in the school. I will venture th
say that he is not the best farmer in his towu${ }^{\text {shipes }}$. I would recommend nim look around him, and see if he can reckon one farmer who is not better off now than he was ten years ago, for every ten who worth at that time. Perhaps I am laying it on a little too heavy, bnt I am certain thai if as many men go into any other business nowledge, as go into farming, where there is one failure in farming there will be ten in any
ther business. Let farners be educated heir business and there need not be a far in Canada which ooes not par for working. is a notorious fact that farmers as a class
now the least of their business than any ther class in the country, and the reason is obvious; if a man does not know enough to oue at farming. Now Ido not want anybody to imagine that I think all farmers ignorant rar intelligent men as are are any other class which makes it harder for the ignorant to keep up their heads as they have those intel-
igent men to compete with. ton't know but that thave madee a mistake, troduce sulperior stock, seeds and implements ; But if $I$ do nnt mind $I$ will get on to another siduce "Young Cauadian" to try and find out the reason why farming as a general thing is not made to pay, ans who anmenced the
hundreds of farmers who commen world with nothing but their hands to labor inderendent as far as having plenty of money, good farms, and good buildings will mak
them so, and who never done anything bu
farm. That such men exist all around us n one can deny. Then how in the name of
common dense can any one ask if farming pays?
We are much pleased with "Rustic's Young Canadian." The suhjeet is we hope "Young Canadian" will not let Six months for a reply is rather long, but fair space for argument.
horses putting out their tongers.
Sir,-In reading your paper I see that Mr.
McTavish, of Lebo, enquires what is the cause and how to prevent a horse from putting are breaking they get into the habit of getting the bit under their tongue, to prevent which
the bit must be made to bear against the roo tongues over the bit. a Farmers' Club in this We have started a Farmers' Club in thin
section, and $I$ think it will be of great benetit Ingersoll, Feb. 13th, This7.

SEEDS.
beeds, trees and planta Sir,- The garden seeds I received from
you in the spring have all done well. Bresee's King of the Early potatoes did not turn oul as well as they were represented; they grew
large but were quite soft and watery. The
Early Rose variety, planted in the same soil, is much better both in size and quality and
is quite 2.8 early. The Prolifics have turned is quite 28 early. The Prolifics have turned
out well both in size and quantity; they are out we wery dry.
also
I woald recommend James's Improved
Scarlet Carrots to all your readers who grow carrots in their gardens; they also answer
well for a field crop, being much before the Farrly Horn variety. And 1 must say that
farmers who have not a nice vegetable and lower garden located near their hacuses lose always had both, and I would be quite at a loss how to spend a spare hour it 1 had not
my flowers and cabbage plants to look after my flowers and cabbage plants to look ant more arduous
morning and eveniag, when the tasks of the farm does not interfere. My experience in apple trees has been very
little since I came to America. Four years
last fall I ordered two dozen and a hals of St. La
wood.
apple and pear trees from the Windsor nur-
sery, which were well packed and addressed carefully, but owing to the carelesiness of the agents of the "Lady Head " ${ }^{m}$ steamer, the) ofe Noft in Quebec for two weekg in the are
of November, and when I got them they were
if frozen hard. I laid them in a cellar and overed the roots with easth until the spring then planted them out, but only one pear and
fiye apple trees lived. I find that early apples are the only ones that do any goo be-
low Quebec. The late kinds do not ripen the young wood sufficiently to stand the frost in winter. In the spring of ' 70 I ordered from
Mr. James Dougail a few early kinds, which are doing very well, the frast has not injured
the young wood in any way. The late kinds
nake no advance, having to cut the young make no advance, having to cut the young
wood back so much every spring. Even the
St
W. M. Evans, Esq., of Montreal, advertises
afew kinds of apples in his catalogue, but a few kinds of apples in his catalogue, but
does not say whether they are standard or dos not say whether they are standard or
dwarf. With the excertion of three kinds they are all late and winter varieties. Had
they been early kinds, I would have advised those wishing to purchase apple trees below Quebec to have done so froun
the freight is always over double the first cose of the trees from
in forwarding it.
On the 12th of September we had frost
grain which was backward in ripening.
The potaties were not half a crop, having
been struck so very early with rust. Grain
 New Carstile, Q., Jan. 19, 1872.

## crown peas.

Sir, - The year bef(re last I tried a few of hem at that time, but last year I tried then gain, and threshed 35 bushels from onl
three-quarters three-quarters of an acre.
Vanneck, Feb., 1872.
m'carlina waeat, etc.
Sir,-I procured $\frac{1}{2}$ a pound of McCarling Wheat from you last sping which yielded me 3
prcksof clean wheat after threshing, and was of much better quality than the seed from
which it was sown. I think well of it, and expect it will be an acquisition to the farmers
of Canad. The New Brunswick oats received from you also did very well, yielding
more than any other variety I have sown. You are doing much good to the country by
the dissemination of seeds from your Emporium and the spreading of information so nany of the farmers do not subscribe for your paper and that many of them patronize
American papers in preference to their own American papers in preference to their own
independent Canadian paper which has done so nuch for their interesta. Do not be dis
couraged, Mr. Editor; you will yet have the country's acknowledgnent of the scrvices re
dered throngh the Enporium and A pvocate. East Nissouri, Feb. 1st, 1872.

 being $38 \pm$ bushels to the acre. . The othe
new seeds lave done well. ${ }^{\text {J. R. Todd. }}$ Kilsyth, Feb. 16, 1872.

## the putato.

Sis,- The selection, the cultivation, and the propagatian appears to be an absorbing opic of discussion in every agricultural pub-
lication. The vaunted qualities, their choice lication. The vaunted quarme come in for
perfection and varied special observation. Now, sir, I wish to raise
theory that seems, in my perusal of these a theory that seems, in my perusal of these
discussions, to have been omitted, and that discussions, to have been omitted, and that
is how long or how endurable are these qualities supposed to exist C Echo answers, yes
how long do these monitors for methods of planting and the selection of soil for plating imagine the standard quality is to endure Reason, pausing for a reply, insinuastes (a a act
apparentyy that it can only endure mo olong as
nature endures to feed this perfection, and no nature endures to feed this perfection, and no
longer ! Having fulfilled its mission to longer : Having fulfilled its mission to
given degree and maturity having brought its given degree and maturity having brought cellence, may there not be some reason for
the impression that it then falls into adown-
ward path of degeneracy and that when the
"sear and yellow leaf of its organization becomes enfeebled in its decliue, that the decay ensues; and hence the di-appearance
trom our midst of so many well-kriown selecrom our midst of so many well-known setec-
ious, whose approved choice for excellence and dotoriety were once as "fanuiliar as house-
hold words," but have now vanished fremय hold woras,
reality like a pleasing dream. In my humble
opinion-and I only write for the purpose of suggesting feasibe cause-science must fix
itsgrip to coufound the argument of the pocsato bip to couround he ang changeable in its
tato entire perfection. It must show it to be a
temporay shadow of imatination and a fallacy to suppose that any laws of cultivation
or careful selection of adapted soil will pre serve or prolong its dest ned agency. If this
is the cause canuot the remedy apply to a culis the cause capuot the remedy apply to a cul
ture by perseiverance and propagation from
the sedding? the by persing?
the
If these remarks, Mr. Editor, should affect
any instractive comnient for advancing the growing demand for this root, my aim will be again to the ana, if you wish it, may rever
Wine
We thank our correspondent "Wild
We thank our correspondent "Wild
Vine" for his contribution. The very principal he aims to establish appears to be the one that we have labored for the past seven years to bring before the public
that is, the actual necessity of having new varieties of seeds. We shall be pleased
vene to have more from the same pen.

SERD REPORT.
 6 Ins. and some ounces of it and it is beautiful
grain. It was sown near ome otherwheand and
had $n=$ extra chance or care. The Norway Oats Iat from rou two yeark ago are, in my esti-
I gation, a humbug. They yield no better than
other oats, nur can I wee any difference either in prou th or looks. The Surprise Oats appear
to bea arime article, good and heavy, but
do not think much of either the Norway or the New trunswick Oats.although the dry beason
and the soil may not have suited them. The
and


## Ver got. ${ }_{\text {Whitington, }}$ Feb. 16, 1872 .

## HORTICULTURE.

## THE OMCHABD.

Sir, - You will recollect when you paid $m$
$m$ visit last summer that, at your request,
promised to try and write short articles or or
Hoping you mill pardon mo he Avvoctre. Hoping you will pardon me or neglecting it to long, I will now give
some sketches from my Diary for 1872 : Jan. 5-'Took a trip $\begin{gathered}\text { kwelve miles to see a } \\ \text { friend and counted as } \\ \text { rode along 35 orchard }\end{gathered}$ composed mostly of young trees. Trenty of ces thrown dıun, so that cattle could roam in r less browsed, and one orchard had pigs alts and shecp in it. I counted eight trees abjut hive inches in diameter, with the barc
gnawed off three to five feet high. Such fruit-grower seems almost criminal, and 1 must say tligt I felt like getting out of my
sleigli and going in search of the owner aud giving him what sowe would term a good
hlon ing up. Only five orchards out of the 35 could be said to be in a prosperous condi-
tion, and I think I am not far astray in saying that not more than one tree in twenty that are planted out lives to produce a fair crop oi
fruit. There are in every section of the country
some careleas ones who fail in alinost every some careless ondes whe ; but such rarely ever have enterprise enoing even to attempt
grow an ordhard. There are farmers who grow an well in other respects who, neverthe less, utterly fail to raise a good fruit orchar Now, the question very naturally arises, why
is it that farmers should thus wate their time and munyer in planting fruit trees, and the carelessy allow tham to be thus deastroyed. will endeavor partially to answer the question
and point out what 1 believe to be some of the reasons.

1. Many plant orchards without first eount-
a the cost, and seem to think they should ing the cost, and seem to think they should
grow like the trees in the forest, without furrow like the trees in the forost, without hr-
ther care. But the should rentember that
carcely one in a thousand of the seeds that acarcely one in a thoouand of the seeds that gerninate in the woodp ever mature a large
tree. There is 2 proverb that "Eterial vigi-
ance is the price of good fruit, If the auprice of good fuit, trees,", he veruld not thave
eeen much astray, for he that hais tact and skill to raise and manate fruit trees properly and have them in the beestpo
will not fail to grow good fritit
2. Many fail tor want of a good fence. A
straight fence is' best as worm fences anford straight fence is best as worm fences and de-
stelter for mice, whitio ften girdte and de-
stroy the trees. The beit plan is to fence stroy the trees. The
well first and plant aftewards. 3. Man fait becaise thes do not protect their trees from mice in inter. The best plan and the cheapest is thatako four theet ath
cut it in two feet leggths oft on thir end
 quired, which fasten at the top and bottom by
lapping a pieco of fine wire anound give it a
twist to hold it in place, tait your treet will trist to
be safe.
3. M
4. Many make a mistake by phtting the
orchard where they will have to pass througk orchard where they will have to pass through
with-teame to get to the thensor bari; or perhaps they have ${ }^{2}$ narrow lane alongsice Which geta illed with snow, out, and in- की fow hours the labor of years is logt. The farmer's road to his buildings should be at laast 5. Mand failures are caused by playting in ot prosper with wet foet. Lastly Thete are many cages of failure plowing and to barking the trees or breaking off the roots. The beat time to plow and
harrow a young orchatd before the leaveen harrow a young orchard is before the leaves
are out in the spring or after they fall off in
the fall, as then the bark is set to the wood.
Every farmer should uniderstand how to Every farmer tor
prune. graft, ox.
St. Mary's, Feb., 1872.

Selected for the Farmar's Advooame.
You may as well resolve you'll never do it! I
am out of all patienee with these "bse-and bob" folks. "One hour of present tense is worth" Why, I know a ba for matrimonial felicity an every virtuo and
every every accomplishment can revier virim; but the the
has been putting off the happy time from on


 withered leave
Sphtember?

- Proen
I made an visit last winter to nee my
frimnd



 worth a peny and five minuten time would
have saved the life of old brindte, and the wilto
wheatinto the bargin. © Fimember a stitch in time savern nine.
Paseighn by ar neigh one day last apring I
saw that his wife had made a fine garden, and saw early peas were pringing luxuriantly above
tround. Neighbor, but there is a hole in
git ground. "Neighbor, but there is a hole the
Your fence which on had better mana, or the
hoks, will ruin your garden." "I will bye-and

 hogn came along, and while my ne neighbor who
taking a nap they had crawled through the broken fenee and dentroyed the labor of a wook

"Never put off till to-morrow what you con do | today.", |
| :---: |
| Bury |
| Green, Feb. 13, | 1872

The next will be a shortlecture for the month From careful experiments it has been disoften perish, and always become dwarfod; whereas a good soaking given twice a week almost invariably proved very beneficial.
Thorough soaking of the ground two or three times a week is much better than the yame
amount of water applied in driblets daily, only sufficient to wet the upper surface, , but
not the under strata of earth contiguous to the roots.

##  CORRECT ANSWERR.

 nidousiAlex. Rivers, Berlin; Sam. Wherry, Newry Maggie M. Potter, Berlin; U. L. Somba, beth MoKewan, Sutherlend's' Corner ulubatravid pozzLEs. C. I. Sitabeth MoKewen, Puthercriand' Corners; Bertich Somba,
 neth amodiaphical puzzhe.
 Thamenville; Magrie M. Potter, Berlin; Alex.
Riveri, Berlig.

| hlluapanted mages. <br> Alexander Rivers, Berlin; Samuel Wherry, Newry ; Maggie M. Potter, Berlia; C. L. Sutherland's Corners. <br> What is ringi <br> Elizabeth MeKewan, Sutherland's Cortiert ; Samuel Wherry, Newry. <br> what do you sien in this metuse? <br> Alex. Riveri, Berlin; C. L. Somba, Thanesville ; Eliz. McKewan, Sutherland's Cornert. <br> WHERE IS THE RNBMY? <br> Elizabeth McKewan, Sutherland'e Corners; C. L. Somba, Thameerville ; Maggic M. Pottet, Berlin ; Samuel Wherry, Newry ; Alex. Riverr, Berlin. <br> OOOD Abvicle <br> Alex. Rivers, Berlin, Maggie M. Potter, Berlin ; Eliz. MoKowan, Sutherland's Cornern. CRORS-WORD EMICMA. |
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ACROSTIC: BY S. WHERRY, JUN.
Farming for protit and farming for wentht
And farming just for the good of your healtut And farming just for the good of your health
Riches and plenty you soon will posseas
Might be ten thoutand or just a mite Mipht be ten thouzand or just a mite less.
II farming don't pay, 1 M tell how it will; Now listen to ime, and keep very still:-
Get the Advocats papet fur doe dullar bill: ENIGMAS.
My firtit may be madee of iron of wood, and
 be pomproesged into a second of time, or mayy
inelude cenluties ; tiny whole is a kind of tax Divide ant officer in our townalips, and leav
My firat is nomething cood to eat,
My firth is nomothing good it oat,
And relishod by the manyy;
My next is unadorned and baro-. M next is unadorned and baro. Scarce welcume tis to any;
Mhbolis is he diveraitied,
Whether 'tie natural or dyed.


A LESSON TO WOMAN HATERS.



the puzzled dutchman.

 You inank dinow my name, ory You rill not vonder den so mooch Mein and queer. Moin moder had two lid. lle twins,
Doy vas me und mein broder ; Ve lookt so ferry mooch alike,
No von kn w vich from toder Von or der boys was "Yawcup,",
Und "Hana" der oder' name; But den it made no tifferena, Vell! von or uas got toadBut vedder Hans or Yawcup
Mein moder sho ton't know
Und so I am in drouplen,
 Yound Polka,

Around it
This is real cosy
ietly fur once $-i$ quietly for ouce-f eading, sisters kni lovocate. I fini milting work abc
ndertook the deli neir took the ded
heir litle beds and four. Such
they are, to be sur hey are, they soul, Although it won't nust cuiness we h?
door. We weren' No sooner were gowns than they r a game of bo-pee I got them upstai of arms around ni
" I love oo, sister trotting alo,", by by
tited now !" tired now "', Ait me down to sleep
and both turned ald 1 On ! thuse
we do without th I was feeling forget all care chiidhood! and person be who
irrilis and gaml
I beg ten thou some of my frien such conimonpla
and fanily, but
and so they will have Now, ladies,
try and natke yo fortable iut the
a great amount fiuished lefure
pitted nabies w peted, tidy roun
warm, hard day?
theor their hard day
too. of setiug two. of seting
a cenu dress, a
I know it is h lok aud spa ak
dar over the
nothing bit
no firise, on 1 ther
beiler, sin that
the att-mpt, ta scat hard, dear sit 8 ipper, say thit
met $t$, keep a luoth cher iful
sonetinues ; bu have our rexal
balds a d bro bauds a d bro
aud they will
of our coolutur of our comiutur
bad company

[^0]Around the Hearthstonc. This is real cosy now. We are all sitting quating, sisters knitting, the little fulk gone to rocost, and I writing to my dear fricud the Advocate. I finished that tedious picce of
kniting work abont an hour ago, and then knitting work abo delightful task of or, putting in their little beds" two little sisters. aged two and four. Such misclievous litule monkeys to see if they could'nt tumble me on the floor: Although it won't add mucil to my dignity, 1 Hoor. We weren't very quiet then, I tell you. No sooner were they arayed in their nightgowns than thopeep as we lad under the table and round he chairs before I caught them: got them upstairs at ast, with oue lis le pair "I love oo, sister!" while the other little pet,
 ne down to sleep," one suad, "Datill lons. Oh ! thuse littl
we do without theu!
I was feeling weary and sad to-day, weary
of the world and its ways; but who does not forget all care in the presence of innucen chiidhood! and liard-hearted indeed must the
person be who cannot take pleasure in the person be who cannot take plean bati-s:I beg ten thousand parduns! I forgot tha such conmmonplace thungs as my own hom so they will have to forgive me as usual Now, ladies, and womenkind in yeneral, do
try and madke your homes antractive and confortable in the eveluing. Suppoing you have
 warn. tidy romm to sit in, in the evenilly, after
thear hard day's tuil. They are allo very y . thd,


 attran, to cead the white cotiing. Bit try
hard, dear int rs, and every even.ng, before

 bauds a d brothers preler hone to the cill,
and they will be kiuder and mu re thenghtult of vur comiurt if kept from th - nifl letic:
bad company and wh-key.
J. F. Inch,
beet bugar.

SIR,-In discussing or plamning the opera
tivis of the farm, we have tu c nisiler not vnly he best and every means to rase a crop, but blso dues it pay us for our inis, ing Now, sir, with regard to the grain crirs of this
country, wheat naturally stanis first, and it finds a pretty ready sale at a farl paying
iprice. As to the spring grans, barley, cals them in Conada to any extent ; our hot suanmers are nut well auapted to raising then
and they are seldom worth above oule cen and they are seldom worth above one celi
per Ib. I think most farmers will agree in pronourcing this a very poor busiless. Some
will probably say, GGuw nore rots. Well matton, which bring about five cents per 9 l. Not much money to be made in that line !Now, there is a root crop for which mean thin surgar beet. Kingston, says:-- In many parts of the contin if not quite driven cane sugar out
nearl the market." Why should it not be so capital woud s:art a few suriar tactories in the country, offering farmers a fair price pe or the roots, we should soon have a ne mense benefit alike to producers, manutio turers and consumers. Sugar is an article every-day use in every fanily in the Donamor and only a portion of tie millions of dolla annually sent out of the conutry to pu:chas it of the foreigner diverted into the han would
our farmers and home manafactureis, it would
bo a sering most important to $\&$ naw and
comparatively poor country like Canada. It
bas been started in England as been started in England, and is ging on ibelieve. one pound per ton for thecir roots,
ind delivered at the eactory. at 12s. per ton ; this.
I have ventured to make these remarks in the hope that some of sour correspondents,
more able to handle the sulject. night take


BALSAMS


DAHLIAS.
To the Ludier.

We often commend articles and sub-
acts to the attention of the gentlemen and in some things we guarantee them satisfactiou. We know the ladies are all ware what a beautiful, interesting and nstructive book Mr. Vick's Illustrated Catalogue and Floral Guide is. We would wivise every lady you cannot help being pleased and satisfied, as the illustrations are charming, and the instructions most complete. His price is only ten oents, but the duty, postage and carriage makes
them higher here. We will send them post paid for 20 cents. They are of no
phofit to ulis ; the actual cost of the book is about 40 cents, and sol 1 at in fact you cannot get such a handsomely illustrated work at any bookstore for any money. It is worth five times its price to any mother that wishes to have refine impressed on the minds of her family. Send for one ; we do not write this to make one cent from the book, as we have
to put a three cent etamp on each oile. It
is for your benefit, and if any one nourl have confidegce enough in our re should not be more than amply satisfie on the first glance at the book, we will return the money by the next mail if it is The engravings on this page are from his Catatogue which contains over 100 We bins of different flowerf. ble an Camelia Bu some beautiful Dotry hand some Dahlias ; we will send a Dahlia bulb or a package of choicest Double al
sams as a present to everv lady subscriber whose name is now on our list, or to any whose namies may be added to the list during this month.
sent as soon as the weather will permit. These beantiful pictures that we give as prizes for clazh lists, are such as will astonish every person who procures one. They are only $\$ 1.25$, sent to your post ooftice.
or one will he seant for five new subseribers, There is a very handsome pair which we will give for nine subscrlbers, one picture represearing a beautiful bopiquer Thes and th, other a besket
are 10 gest inctes ench
alue ur ashes.
It is a too common pracice even with go d
 for a mere tifle $10^{\circ}$ the s.ap-maket, who sends romid his ieam to cha chens Thers
 are sud for from tive to ten cents per bushel, cor soair


 the potush cuntanned in them thus extracted,
they are then olitio maturiur value, hough
mel still well worth the truthle f spreading on the soil, fur which sake to make haru clay uure friable
dueed, whin
ai.d light nand more compact. Mixed will aid light rand more comlact. Mixed wit
Plaster of Puris ac rate of a cuahel of mahes to


 tiie plaster alone. la fact, we coonsider the
addtition of unteached athes erphe cialiy if made trom hard-wood-to the plaster. griauly in-
creas sits manuri, ac ion,uy as.is ing decompaition, al.d, ant it mere, mikkis thier values
 ashes play mas 'mpoit thit 1 art, both in assisting ashes play ats inportont art, , hathe. wat gres to $m, k$ upa lar $_{5}$, ertion n thench cumpust,





 Unhas erare of litt vilu in $f$ o shald


 hiow away their ume and money upun.



 Giubuik. Paris. No. $11-\mathrm{L}$. E. suiply Fal-
kitk. No. $12-$ Stephen Wi ite, Charmg Cios. Proftrs of Pocithk. - ll well kept pou'try-
 ys the profit nill v.ry fr. $\mathbf{1} \mathbf{8} \mathbf{3}$ tin $\$ 5$ to each en ermined by vaicus reposta of-actual ex-
 ives the cessils , f 1 is poultry larm for 1871 . 4364 eggs ; and, if my arthmet ic is right, raised nixty clickens, worth 830. Thee eggs averaged twenty-four cents in r dozen, making nu have \$117.28. Of the cost of keeping I kept sc exact; but about 855 . The hens are Thixture of tevi ral hreeds, but none pure. The fecd has been conn and wheat screeniugs, with some hog-cheese and wheat middlings,

Tae Sonflower-The Dutch, who live only by dikink and dra ning their low lands,
pronounce sunflower culture a specific for intermittent fever, t e scourge of A lland.They ansert that the di eease has disappeared
ir $m$ every diatrict where the experinent has ir.m mevery
been tried.
A schoolmaater in Ohio advertises that he Troudayi mod Saturdayn,

## The dicild.

forest and agriculture. Lands cannot be spoiled. It is said of some
cultivators that they spoil their land. In this there is sone truth but more exaggeration.
No fool can so abuse an acre but that a wise
隹 No fool can so abuse an acre bur tit had been
farmer can make it better than it
ver before. He may damage soils for a time; nay lower their annuual value, but he cannot long hinder their natural recuperation; yor,
unless he should live longer than the patri-
archs; can he prevent wiser men having the uness can he prevent wiser men having the
archa, ccin
charge of them. If he attempt nore than a charge of them. If he attempt more than a
mere temporary deterioratiou of the soil, the
and meret physieal laws of the Creator oppose hima,
gereat will prexail. It is no more within human
and oower te thwart the operation of those laws,
wich promise an increased productiveness of the earth propoitioned to the increasing want of mankind, than it is to nullify the Divine
prouise, that "seed time and harvest shall not promise, that "seed time and
ceise " wile the earth remains."
If nen could in any way dipinish the pro-
ductive power of the soil, or prevent its increase to the extent of supplying food and
clothing to the increa-ing populations for long clothing to the increa -ng popuations for ong
period sto come it would be Dy destroying the
torests. This they could do for a time, by the combined force of axes and fires; but soon
within a generation or two at nust, the forest would grow up again in spi'e of them. The
first effect of striping a territory of its capakilities; a secondary effect would be to lossen the number and enfeeble the energie of that, in spite of a reduced and degraded people, either forests or prairie grass and
weeds would spring up, as the country might would, ere long, have regained all its former agricultural capability, in accordance with a
great recuperative law, stamped thy the Creator on all his works; but not till after great loss,
suffering, and degradation had followed the suffering, and
wrong-doing.
In order to obtain the best results from agricultural labor, any country must be fron
one-quarter to one-half (averaging about onethird) in forest, - more in a dry climate, les in a cimate naturally damp. In Englan sun dim with clouds or fog, one-quarter is enough. In New England, where the air is
dry and the sun scorching, and where much of the land is worth more for growing timber than anything else, one-half is not too much. Forests. to the extent above indicated, exert
important influences on climate. Multitudingether with fewer but not less important facts already gathered from the New, go the establish
beyond a doubt the foilowing trutbs. The beyond a doubt the following trutbs. The
facts we have neither the time nor the space facts we have neither the time nor the
to detail, but this may be done hhereaf
our conclusions are called in question.
Of two countries similarly situated and
equal in all respects, except that one is well equal in all respects, except that one is well
wooded, forests being preserved on each fiarm
adequate to a plentiful supply of fuel, buildin. adequate to a plentiinul supply of fuel, buildin,
timber, and fencing material, for the farme and the adjacent vilagee, the forests and oul-
tivated lands intelspacing each other rather
uniformly; while the other las been deprived uniformly; while the other lias been deprived
of nearry all its forests and lias ino new ones
growing to replace them; the first lias a very
different prospect ahead from the second. The different prospect ahead from the second. The
latter cannot, for llong years to come, imaintain as dense a population; it will fail to grow as
much farm, Farden, and orchard produce; its
farmers will be less thriving, less energetic, farmers will be less thriving, less energetic
less successful; ;its people will be less intelli
gent, less refined and less cintented-will be gent, less refined and less cuntented-will be
moving off nestward, tion. This is strong language, but the his
tory of forest destruction and its effects proves it true. On this point,
history repeats itself.
la a country once denuded of its forests, the it in a well-wocded country. The peopie are
suiprised with spring when it ought to be winter, and with winter when their seed waits to be put into the ground.
frequent and less violent than in a woodless region. In gone, the rains are so frequent, gentle, and refreshing, that the farmer, if he
cultivate his land to a reasonable depth, has
little occasion to dread the destruction of crops by drouth. In the other, excessive rains often follow killing drouths, producing freshets and
therghy deatroying much public and privato
property, in addition to losses just before suf-
fered by a lack of rain. The moral of all we have said may be indicated as follows: If we would leave to posterity a green an
fruitful country; if we would enjoy, and b fruitful country; if we would enjoy, and b
willing that our children after sus should enjoy, a climate characterized generally by ra n-ffalls
frequent, gentle, refreshing, such as agicul frequent, gentle, refreshing, such as agricu
ture delights in, seldom. dangerous, terrific, o
devastatiug and if deve delights in, seldom. if we would have on our
farms sufficient tinber lards 'to supply farms sufficient timber lands 'to supply out
selves and our non farming neighbors with selves and our non farming neighbors with
fuel, lumber, and fencing material, ,let us pre
serve our forests to the extent above intimated serve our forests to the extent above intimated
or, if we have already destroyed them. let us
begin to restore them at once. But if we prefer the brown and barren to the green and
fruitful; if we desire fewer gentle rain fall. and more freshets. interspacing long drouth,
damaging to crops by their excess when the come as well as destructive to property an
perilous to life; if we think enough to meet all the wants of country and
village life, will be a curse and not a blessin to posterity; if we really sigh for long, unbroken courses, of wind to sweep over ou sincerely believe that our winter grains will come out better in spring for having the suon
blown fronn them, than if leit where it fell for their protection, then down with the furests.
" Woodsnana, don't spare a single tree." Phrenological Journal.
But little real fimble work can be done by fa rss in this latitude in winter, but considerabl
planing may be profored which will have
reat influence ultimately on the profits of the tield crops. At this time of the year the farm
hicounts should be balanced if not done already -that is, , if you have kept any, and we believe
accounts are an important adjunct to good and accounts are an important adjunct to good and
progressive farming If ou made an inventory
last New Y earr's of your farnn stock, tools, seeds, last New Year's of your farn stock, tools, seeds,
and other loose capital required for Your buasi-
ness, and the kept an account with each ness, ald then yept an acw tell to a copper
animal and crop you con
whit your profits have been in the y yarrs busi.
ness. Yerhaps you will find that a great deal of ness. Perrape you will ind tarm, and but lit.
money has been made on the farm
tle remains in your pocket after all bills are
paid. You almost wonder where it has all gone paid. You almost wonder where it has all gone,
and without a system of accounts you really chnot tell. An inspection of these will show
where labor and capital have ben expended
with profit and without ;it will indicate what with profit and without, it will indicate what
crops and methods of culture make the best re tropss, and will give you a clue to the course o
farning you should follow. No farmer wil improve his farm so rapidly and well and swell
his bank account, or diminish his indebtedness so fast as the one who, by a corr"ct system
sccounts, is master at the end of each year accounts, is mastor ane snug farmers have a way
the situation. Some
of keeping the figures in their heands, and can
and always refer to them mentally, but this is no
to be ereommended for the complex operation
of most farm of most farms.



## Stock.

tinament of breeding bows.
The tinie for early pigs is very near at hand,
and the question of the treatuent of breeding sows one which should now receive attention,
with the view of getting them in the lest with the view of getting them in the Lest
possibie condition for farrowing. The course
feeding should be sutficieniy. of feeding should be sufticientiy generous to
keep the animals in good condition, but still keep the auimals in good condition, bing on of
not calcuated to encourage the laying
fat, or, what is of equal importance, create the iat, or what is of equal importance, create the
least disturbance of the digestive organs, to
which many Which many sows when approaching the far-
rowiug season are very prone. If the sow rowiug season are very prone. of the sowng
in two strong tlest at the time of farrowing,
she is ciunsy in her movemeuts, and extreme she is ciumsy in her movements, and extreme-
ly apt, in consequence, to trample or lie upom
some of her young, and besides is liabie to some or her yyung, and besides is liable t
numprous difticulties which may prove more or less serious in their consequences, the very
least of which is frequently sutticient to in-
duce a morbid and morose condition which duce a morbid and moose condition which
prompts her to deliberately destroy her ycung. If, too, the sow las been for a long
tine too fat, the pigs are liable to be weaked than they otherwise wuld be;and while it may
be true that they be.ome as vigorous and
tusity their dam been different, they are at the monent of birth relatively weaker, and sub
ject to contingencies from which nore active
pisy would entrely escape. piys would entirely escape. Her course on
feeding, too, should be ot a character to in uce a moderate degree of laxativeness. Con
stipation is greatly to be deplored, and will be guaded dgainst by all careful breeders who
are expecting a valuable litter of pigs. If the are expecting a valuable litter of pigs. If the
bowels cannot be kept open by changing the
diet of the sow, which can generally be done without difticulty, sone generally be don should be given, especially when it is appar
ent the time of farruwing is quite near ent the time (f farruwing is quite near a
hand, or resort had to injections. He foor,
too, for the last few days immediately pre wo, for the last few days immediately
ceding, should be cooling in its nature. During the whole time of pregnancy, slo
should have had abundant exercise week or so before farrowing shoull be assign od to her pern, fed there, and confined tiere e ness on that account whien the pigs come amount of litter for a bed, but not too nuch,
or she will make the bed so deep that the young rigs are liable to get injured between
the nother and the sides of he bed. Lhong to get under it, when their movements will
be of impeded as to prevert mat be so impeded as to prevent their getting.out
of the way, and avoiding being laid upon. II
lung straw is provided, however, it should be placed in the pen several days beforehand, in order to broken up. Sraw cut short, or a
good bed of leaves, are the best. It is agood
pian to puta a fender arvind the inside of the pian
pen,
each
each

$$
\begin{aligned}
& \text { fron } \\
& \text { the }
\end{aligned}
$$

Sulphrir for Animals.-I have used
sulphur for horse, catile and swine for over 22 years. It is only when I neglect to give it to
my animals for a number of months that they are ever troubled with vermin. When I have occasion to purchase animals, and find some of
them infested with lice, 1 soon rid them of them in this way; give them a small table-
seo nful of sulphur every other day for a weel. sio nut of sulphur every other day for a week,
and at the same tiue take very dry wood
and (if the vernin has all disappeared) I give them what they need in course fine salt two monthy
in spring and two months in the fall. for quart of salt add about 2 table-spoonsfuls of sulphur Cattle having free access to this pre paration not only will not be troubled with
vermin, but will be less liable to be troublet with skin
Gentleman
$\mathbb{C}$ be dypary.
Weight of Bees.-The American Be
Journal gives the following estinates of the Journal gives the following estimates of the
weight of bees according to various writers: Dumas and Milue Edwards give 86.00 millegrammes an the weight of a worker, being
about 4000 to the pound, but this is evidently an error.
Schmidt \& Kleine say that 5376 workers
weigh a pound, but do not appear to have made any experiments not appear to have accepting Beaumur's statement.
Berlepsch states that 177 found dead on the unce. This would give 5664 to the pound The usual estimate is, that of workers not gorged with honey or laden with pollen, 5,300
will weigh a pound; and this may be regarded as a fuir average. IBees, when prepared to
owarm, usually, fill themselves with honet and hence, when weighing a swarm, especially
if accompanied by many drones, a proper if accompanied by many drones, a proper
allowance must be made in estimating the
number of werkers emigrating.

The ©rtharo.
Thinning of Froir.-The Journal of
Agriculture says ${ }_{\mathrm{a}}$ medium-sized fruit, or even one of smaller size, may be more
economical for use, but until some decided change in the preferences of the majority off
purchasers shall take place, large fruit wilf sell purchasers shail take phace, large fruit wilt sel
better than small. TT produce this, the fruit better than smail. To produce this, the nut
nuust nuot only have good cultivation, nut nut
be thinned, and we agree with Mr. Meehan the " one-half the trees which beari fruit every
year w ould be benefited by having one-hall year wrould be benefitted by having one-hal
the fruit taken off as soon as it is well set, and that the overbearing of a tree will in a fer
years destrey it." We lay it down as a eeryears destrey it." We lay it down as a ser-
tain rule that excessive production is alway at the expense of both quantity and quality, if no in the same season then in succeeding
ones, for when branch is contending with
on ones, for when branch is contending writ, or
branch, leaf with leaff and fruit with frut
its supply of light and food, it would be indeed


FARMER'S ADVOCATE.

## 

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Country

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Hio estinates of
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found dead on the weighed half ant
64 to the pound. at of workers not
with pollen, 5,300 may be regarded
vhen prepared to elves with honery, swarm, especiaper
drones, a pron
in estimating the

The 笨ousebgold.
 the people who eat. potatoes to-day will find
theen cutting likea piece of hard soapan and
and them cutting like a piece of hard soap, and nut
much more agreable the taste. The fault,
according to a lady writer in the Household, is not in the tubers, but in the cook. She says
she never hase any but dry, mealy potatoes on sine never and this is her modus operandi of
her table, and
preparation: If old, I pare then and let liem
 time to cook I put them in a kettle of boiling
water "salt as bline. When they are boiled
sufficiently, I turn off the water and set the sufficiently, I turn off the water and set the
ketcle on fire till the steam has all dried out. kettle on fre till the steam hat are delicious
Prepared this way. oll potates are
and wholesome. New potatoes need hiot be Fared, nor need they remain in cold water.
Fash them thorcughly, and if there are any
rongh places cut them off. I place them in rough places cat whem, ond when done al ayays
boiing salted water, and
pour the water off and place them over the fire.
-Housewives nho are in the habit of using only steaks and roasts make a great mistake.
A capitals dish may be made out of the
"chuch," as the butchers call it, or the neck, when well prepared. Select a piece of meat as
large as the demand of your table may require;
wash it well to remcve all the blood or soil from the outside; have your cinner-pot per lay it in the bottom and cover it with water, boil it from two to three hours, or till it is
thoroughly tender; add half an onion, a sprinkle of saye, thyme, or summer-savory
If the meat is fat, let the water all ster vut half hour before it is put on the table, and side in the gravy, tulu rit over and brown the little flour thickening to the gravy, or if you gravy and brown it, then add boiling water, und you will have a dish equal and, to our
mind, superior to the conmmon roast beef upon oarding--house tables. Care must be used to
turn it and equally necessary is good judgenent
n laving it thoroughly well cooked.--Ohio Farme

## A Fremach Brothe--Select a spider or sauce- pan with a smooth, elean botoin, set it over

 \begin{tabular}{l} pan with a smooth, elesn bottoin, set it over <br>
she range or stove till really hot, then lay on <br>
\hline
\end{tabular} a good tenderion or sirlin steak; keep ond

spider very hot, and turn the steak as often as every twoy minuted-no longer; when hafi dont
sprint is orer salt and pepper to suit the taste
of those whe are to eat it: continue to turn the steak often, till sufficiently done, just as you
are ready to take up and dish the steak, dus a little flour over it, spread on a tablespsonful of butter, or if a large stealk, a little more
turn it vere, dust on more flour, and spread o
the the butcer as on the frist sue; hurn again, set
the saucepan back fromt he fire, take the steak on to the platter, and set in heater or
oven to keep hot, but not to cook any more;
shake more flour into the butter in the saucepan, set again over the fire and as soon as the
butter bubblex up throngh the flour smooth with a spoun, and pour in a few spoons
ful of boiling water, stir it constantly, and a soon as thick pour over the steak and servo
hot.

Washiva por Roors $\Delta$ and Bulidings.
Slack lime in a close box to pevent th escape of steam, and when slacked pass it
through a sieve. To every six quarts of this
lime add one quart of rock salt and one gallon of water. After this, boil and kkim clean.
To every five gallons of this, add, by slow do every five gallons of a pound of potash
degres, three-quarters of
and four quarts of fine sand. Coloring matter may be added if de.ired. Apply with a paint
or whitewash brush. This wash looks as well as paint, and is almost as durable as slate. It
will stop smail leaks in a roof, prevent the moss from growing over it, and render it in-
combustible from sparks falling upon it.
When When aplied to brickwork it renders the
Wrick utterly impervi ,ns th rain; it endures as
bis long as paint, and the expense is a

- Boston Journal of Chemistry.
Poupiniss mir inflammatory Rhecma
fism, -Ata recent meeting of the New York FisM, - At a recent meersondent wrote of the
Farmer, Club, a correspone the following invirtues of pumpkin, giving the following in-
stance of its value for inflammatory rheuma-
tiane tisul: A woman's saim was swoiled to an enor-
nous ise and painfully inflamed. A ponl ice
nas made of stewed pumpkins which was re Was made of stewed pumpkins which was re
nemed every fifteen minutes, and in a short newed every fifteen minutes, and an a shor
time produced a perfect cure. The fever draw
out by the poultice made them extremely
offensive as they $\begin{aligned} & \text { were taken off. I know } \\ & \text { an }\end{aligned}$
an man cured oind inflmmation of
the same kind of application.
$a$ cure for small-poz A correspondent of the Stockton (Cal.)
Herald gives the following as a cure for small? pox, and as that loathsome disease is performing its horrible work in our city, we e ive place to
the article, which may be of benefit to suffer-

I hereewith append a receipt which has boen
ised to my knowledge in hundreds of cases used to my knowledge in hundreds of cases. It
will prevent or cure the snall-pox, even thong!
the pittings are filling. When Jenner diswill prevent or cure the snalli-pox, even thong,
the pittings are filling. When Jenner dis-
covered the cow-pox in England the world ut covered the cow-pox in Rngland the world ut
science hurled an avalanche of fame on his science hurled an avalancte of fame on hit
head; but when the most scientific sclool of
niedicine in the world, hat of Paris, published this receint as a. pannacea for small-pox, it conquers in every instance. It is harmules when taken by a well person. It will also cure
warlet fever. Here is the receipt as I have carlet fever. Here is the receipt as I have
sed it and cured many children of the scarlet ever; here it is as I have used it to cur he small-pox, when learned physicians sail
the atient must die: "4sulphate of zinc, one grain; fox glove
(digitalis), one grain; half a tee-spoonful sugar;, mix with' two tabie-spoonfuls ol When the above has been thoroughly mixed,
add four ounces of water. Take a spoonful very hour. Either disease will disappear in
welve hours For a child, sms ller dosea acorring to age. II counties would compe physicians to use this, there would be no
need of pest-houses. If you value avyice and
experience, use this for that terrible and experience, us
dreaded scourge

Weterinaty,

## I is almost impossibie to $\begin{aligned} & \text { shoriva nors. }\end{aligned}$

withont liaving the frogs cut away. All veterinary surgeons, all horsemen, all leading
blacksmiths ayree that the frogs should not be pared one particle-not even trimmed. No
mater how soft and pliable the frog is eut it away smooth on all sides, and in wo days it away smooth on ail sides, auli . You might as
will be dry and hard as a clip. Yo.
well cut off all the leaves of trees and expect them to flourish as to pare away the frog and
have a healthy foct. The rough spongy part have a healthy toct. Tho rough leaves are to
of the frog is the fot what tove a red.hot
the tree-the lungs. Never have shoo put upon the foot to burn it level
Employ a blacksmith that is mehani
enough to level the foot without red-hot iron enough to level the foot without red-hot iron.
the buriung process deadens the hoof
The
and tends to contract it. If you de not think so, try the red-hot poker on your finger nail,
and see how it will affect the growth of that.
Thd There are many ouncr impritant points. portance than all the rest, level to the appre
hension of men not skilled in horses, and the Galled Shouldeng on Horges.-Wash
them well every night and morning with them well every night and morning with a
strong sollution of vak bark, nade by bioling
the bark in water; then rub them well with linsed cil. Annoint them every night an
morning with a salve made of three parts norning with a salve maue ockime. To make
livseed oil and one part quick
horsess shoulders tough, wash the shoulders horses' shoulders tough, wash the shoulders
well twice a day for a weck before working well $t$ wice a day for a
with oak bark solution.
 ing directions: "Thake your horse on the barn
floor and throw a strap over his back and fasten it to his fore foot; lead him along and say whoa; at the :ame tume puil down and make
which throws him on three feet and may
him stop suddenly. This is the best way to him stop suddenly. Shis is
teach whoa, though you can put on the war
Irill teach whoa, though you can put on the wan
Iritle and say whoa, giving a sharp jerk that
will stim lima alscut as sown as the strap to his fivt. Then put hi in in harness with a foot-
strap, as directed under the head of "training strap, as directed under hio up to the door
to harness," and drive hin
The moment he undertakes to start take hi The moment he undertakes to start take h
fout upand say whoa. Get in rur carriag fout up and say whoa. Get in your carriag
and get out again, rattle the thills, ,amee al
the noise in and out you can and give him and get out again, rathe can and give him t.
the noise in and out you can and
understand by snatching his foot each tim understand by snatching his foot eaoh tim
he moves, that he tuust stand until you tel him to go, and after a few times you can pu
the whole fanily in the carriage and he won' stir out of hin trackst

## B7airy 7henatment.

A Convenrest Miluk Rack. - Place a piece
of scantling perpendicilarly in any convenient, of canting perpendicularyy in any convenient,
airy place in your cellar, or milk room. Then
commence a foot or tio frem the botton of commence a noot or pieces of common lath,
the post and nil on
about two feet eight inches long, at tight angles with the post, and exactly yopposite each other, eo that the ends will reach out far enough each way to receive a pan of milk
The strips may be five or six inches apart; on alternate sides of the posts, and carried up
about six feet high. Forty gallons of milk in six quart pans may be placed on such a rack, and no pan in the way of any other pan.
Milining in Sllesces. - The London (Eng. Milk Journal says: Cows that are fed a
milking tine require their usual meal, on miliey niay beoome restless or dissatisfied, ind
tut a stop to their bounty. Many of then
put will only allow some special favorite to milk
thein. In those parts of the country where wounen are solely employed to milk, we fre
quently find one or two tuneful lassies singing at their work, and many cows beconese o pleas with the rustic harmony an to show eviden
igns of their approval of the loud sweet voice by giving their milk ouly by being sung to
Everything that distracts the attention of the cory and rugthes her placidity should be avoided when called upon to yield her milk. Her
nervous system should not be excited by nervous system should mo objects, or roug
strange neises, unwelcome
reatment, or the effect will be apparent in dininishhed supply in the milk pail. It woi no doubt be gocd advice on he whole to thel
those whio milk taht they should keep their
tongues and keep their tempers. The Conthose was and keep their tempers. The Con-
tongues
necticut farmer appears to have sufficient reasons indeed to kay
silence is golden.
afliscellancous.
LADY FARMERS.
Agitation does god, as thunder-storms
clear the air. One good from all this fuss about roman's rights 18 to show women that
they can earn their bread in other ways than by the needle or by teaching school. Many
have turned their at atention to gardening and
lita farming in a small way with excellent success
Many more have, I dare say, ried and failed but usually froun a want of resolution and per-
suverance in the face of difficulties. A lady in severance narned by a day's work enough to
Hartford ealf acre of land. Un this she has set
buy a hal a out and cultivates with her own hauds, twent pple trees, sixtendred grape vines, besides
treen, over a hunds
variety'of small fruit, as strawberries, currants aspberries, \&. ©. That this lady has lost noth work, we might judge from a note sent by hee
wo me editor, nccumpanying a gift of beautiful 0 an editor, nccumpanying a gift of beautín
fruit. She mentions the great enjoyment fruits and tlowers like angel voices, "Thave
cheered me on. In their presence I have cultivated a love for the beautiful in all things
and thoughts, with clearer views of the brighter
world above. I would recommend to all vord above.
ladies they give time and attention
horticulture; itimproves beth mind and body. Who will say that such a ife is not better
than drudging over her needle for a bare pittance, wearing out soul and body both in
the strugle to keep cof taninet A young lady in Mississippi, who had jew colored people,
came home and hired a fer
and undertook the experiment of woman and undertook the experiment of woman
farming. The result at the end of the year were -eight banks [ [7] of potatoes, six hundred
bushels of corn, and $\$ 969$ in casi, from the sale of cotton, after
Country Gentleman
$\underset{\text { Fabming Wres.-The great difficulty in }}{\text { the way of good fanining is too much land far }}$ the way of good fanning is too much land; far
mers are so hurried in the getting in and in the mers ast sy of their crops, that they have reall no time tot any one visit some of the ten-acre
soil. Let and
farms in the neighorod Cincinnati, and the truth will soon become apparent, tha more profit can be made from ten acres, prop-
erly tilled and manured, than can be realized from ene humdred acres run over in the usual
negligant manner. The occupants of .these
ten-gare farms are g1owing richer negligent manner.
ten-acre farms are gio wing richer every yee
while many who occupy large farms bare
hold theit own.-Ohio Volloy Farmer. pen the
ing. The
last The
to train a fuschla

When a slip has grown six or eight inches
high, nip out the top down to the enext set of
leaves fit will then throw out branches on leaves; it will then throw out branches on
each side. Let these grow eight or ten
inches, then nip out the top of each branch, each side. Let these now eut eight or the top of each branch,
inches,
when grown the out the height as the othena i
then procure a stick the size of your finger then procure a stick the size of your finge
eighteen inches in length; take hoop-rki
wire, twine back and forth alternate, throug hole, wade in the stick equal distancee apart
holes madis firuly in the pot back of the plant
tie branches to it, and you will have, when in cie branches to it, and you will have, whon
flower, a beautiful and very, graceful plant
Javing one trained in that way last seasoni Having one trained in that way last seasoni
was the admiration of all who saw it. - Small Fruit Recorder.

## Brieri-Here is a brief synopssis of a a con hee pointa which are essential in such a doeu 1. Namo of Club. 2. The Oub hhall 

 met is presiding over the meeting. 5, Secretary to sorve for six mienthe isolected. He is expected to furnish the proceedings of the club to the country newspaper. 6. Members inay propose candidatas for
membersthp, who are elected by a najority of
the votes cast. the vates cast.
7. All other matters are left to be managed
at option of the Club "for the time being.

Grassuoprers in Maine.- The Maine
Farmer, in review of the past meason, suys Farmer, in review of the past season, says: by the farmers of Maine as the 'grasshopper
year.' No such ravages by insects were ever year. No such ravages by insects, were ever
before known Cn our state ; no one insect was
mater ver so wumerous, cused so much destruction
vast number, or caused
to crops. The reports of their ravages are to crops. The reports of their ravages are
often almost incredibbe, and the crops in entire district, towns and even counties were
completely devoured. Generally throughout the state they caused more injury to grain, grasa, coru, potatoes anil garden vegeatabiea
than droupht, frost, rot and all other adverse causes combined.
We have previously commended the sowing of Larkspur as a poison for grass
hopera. It may be well to have some of it about gardens and plots of land. Our turu may come next. We have suffered considerably from these depredations, and
it is a question yet to be decided to what extent and what expense we should put a Woman Farmer. - The Royal Agricularal sociely of England having placel $£ 50$ the two noost highly commended farms, they awarded ete to Mr. Brewster, for the success-
ful management of good hand Mrs. Eliza-
beth Stankley's farm was highly commed ful management or good land hing comn.ended
beth Stankley's farm was hight
and a warded a prize of $£ 25$ in recoguition of and a warded a prize of $£ 25$ in recognition of
her profitable management. $\begin{gathered}\text { Here } \\ \text { We see }\end{gathered}$
Hat a woman comes to us with the key to that a woman conies to us with the key to
success in rural pursuits-profitable managesuccess in
ment.
Godericia Stak. -We are pleased to see
this deseving journal resume its presence. this deser ving journal resune its presence.
About three months sincr it pased through Abour ordeal which destroyed all its working
a fieterials. In its present enlarged form and
mater materials. In its present enlarged form and ing received with an appreaiative support, not only in its immediate vicin
the Dominion at large.

A Cubious Puesomexon occurred on the Ottawa river between the city and hull were
Saturday evening. As some parties wither Saturday evening. As soine parties were
crosing on the cee they were starthed by a crossing on the which shook the whole mass
loud exlouion whic
on which they were travelling. Upon lcoking On which they were traveling.
for the cause they saw a shower of ice, water,
wdust and slabs falling over a space of open sawdust and slabs faling over a space orich the water about an acre in by aubmarine forcen,
ice had been blown by
hought to have been compressed air or
$\qquad$
A crowd of disorderty women, who were
being tried before 2 Salt Lake (Vity police
our


## FARMER'S ADVOCATE.

NEW SEEDS FOR 1872. $\mathrm{W}^{\mathrm{E}}$ hays now recived our NEw TmportaGARDEN \& FIEID SEEDS,

 Abing in Large Drumbead Early and Large
 UUNIP- Early sione dikitiniti Parplo Thp CLofve de trapthy, Tareo, Fhax Seed, Hun-
ROWLAND \& JEWELL, $7_{72-9-3}^{\text {Corber Dundas and Richmond-tas, }}$ LONDON, ONT. GEO. J. GRIFFIN, Seed Mrerchant,
anid metail dealer in
Fiild, Garden and Flower Scelds,
ENCISH, FRENCH \& AMERICAN SEEDS dTCI FLowering bulbs. do Sole $A_{\varepsilon}$ ent for London for the Toronto Tea Company's TEAS\&COFFEES \#STAE工ISTIEI 1855. fice di Warehonse-City Hall Buiatings, RICHMONH STREET, LONDON, OVT $\frac{\text { London. Frb.. 188. }}{\text { POUISLIY }}$
EGGS FOR HATCHENG $H^{\text {AVING epared peither pinins nor expense }}$


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H. Railey, 205, Yonge-st. Toronto Toronto, Ont.. Fob. 27. 1872.

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Mills On Horres Sed Drille

 Volon Crevent, Gaolph. ${ }^{\text {1.EVI }}{ }^{\text {Cossitr. }}$ IMPORTANTT

Farmers, Gardeners, Florists, Seedsmen, \&c. Bone Snper-Phospate Manne, quality Guaranteed. Analysis by the Highest Authority. In good barrele, containing 200 lbr. each, and No charge for Bays or Barrels. best and oheapest fertilizer Tru it. and you will nlways use it.
if actured b) WWETERN OF CANADA super-Plousphate Works. Lou,don fier All orders ndidessed will secuie prompt Luntwn, Feh., 1872.
WATUD with five miler of Inseraoth FIFT

 - DURHAM BDLC, AGED TWO YEARS-


SEED OATH FQR SALE. $100)^{\text {BUS EELLS O F EMPORIUM OATS. of ox }}$

Wauetend P.O $\quad 3-2$ D. S. ROBERTSON. WHLSON A HASKEIT, PRODUCE DEALERS AND COMMISEION JAs. M WILEUA. । JUO. HASKETT. 3-tf Jonn mectanan, sr.. thames street, - - ivgersoll


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 IT $+{ }^{\circ}$ Cash must acconpany ail orders.
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RICHARD RUNELSON, Galt, Breeder of Cots
亚 H. M. COCHRAN, Compton, P. Q. Importer and
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 $\underset{\text { and Berkstire PLES. }}{\text { W. Mary's, Breeder of Short Hornk }}$ Iy A. PARK, Ingersoll, breeder of Ayrshire oattle. JOHN CURRIL, Verschoyle, breeder of Berk-
bire Pigs. J. FEATHERSTONE. Crorit. bredere of Esgex.
Juffolk, and Yorkuhire Pige, and Cutwold Sheep.
 J. B. TAYLOK, Liv. don, Ont.. broeder of pure
12
bred Siort llorns. J. MA1N, Buyne. importer and breeder of Cots-
wold sheep and suffulk wine.
12 GEURGE MILLER, Inportor and Breeder of Ur
 GEOKGE G: MANA. Bowmanville. Inporte JoHN SCUTT. Coldtarana, Breeder of Leicer.
ili-1

 W. HUOD. Gualph. Breoder of Galloway Cattle







 JAME, Cowan Cluckuma, Gath P. O.
$\frac{1}{8}$


 J. R. HU, TER, Alma, Breeaer of short Horn
Catle. D. . R.MERTEON, Wanstend, brecer of pure
beed Berkbliie pigs




 Apply to J. BEETON. Strathba


## Hontreal Marketa.

 Montreal, Feb. 26, 1872. Flour: no change to note in demand orvalues; small sales of the several grades for Weal use at une anged rates. Wheat: buyers more cisposed to awnit
urther ances, and in the meantime have Cered their purchases,
Nothing doing in Peas. Provisions quiet, at late ral
Hogs quiet. with sales at Hogs quiet. with saies at
lighto medium averages.
Akh s quiet, at former rates.

## New York Marheta.

New York, Feb. 26.-Cotton is 22\%e for
 quutations unchange
Rye Flour steady.
Wheat is dull ant nnminal; reptst 5,000
Wushels; sales 15,000 bushels; $\$ 1.14$ a $\$ 1.5$ for



 Barley istern mixed af nial
a, dunchanced; rectipto
 Or westrin $n$
whilethio. Pork is dull, at $\$ 14.05$ a $\$ 14.10$ for nem
mes; $\$ 3.37$ a $\$ 13.37$ for old.
Lard is unchang d at y y a a ? for sterm; Qid for kettle rendered.


## 2:2ct.

## Burlington.

Leaving the East and arri ing at Chicago or
Iudianapu is huw s all ne reach the West: The est Line is acknowledge. to be the C., B. $Q$ Q.
esned toe $e$ hicr with the B. \& M. Rairond by


 Platt-m.uth, passe terough Lincoln, the that



 Lovers of fine views should rem mber the Bur.
in, ton Rouit, for its towus "high- $\alpha$ eamins
 wer the prisiris furti.r than eve can reach,



VEJILY IT HaTH Mo Rodal. CONSUMPTIVES, READ!
Would you enre that distress:ng Con ? h and bring back that healthy vig , till lately $p$ anted
in your cheek? If you would do not delay. fur ere you are aware it will be too late! Alien's Lung Balsan is your hrpe; it has been tried by thusads such as you, uho have
been cured; many, in their gratitude, have lent their names t) us that suffering bumanity can read their evidence and believe. Don't experiment with ncw and untried mixtores, you cannot, afforil it, but $\operatorname{trs}$ at once this in valuable article; it can be found in any drug store and at moet general stores, It is war-
ranted to break up the mokt trubblesome Cough in a few $h$ urs, if not of too long standing. I is warrant d to give entire satiefaction in all $0: 8-8$ of Lung and Throat difficultion

## rice $\$ 1$ per botile.

PERRY DAVIS \& SON,
GENERAL AGENTS,

THE DO
 Short hient, stron Iold Baar.; ; 1 TO


 JOHN MA M Nivafti
 ${ }_{3-2}{ }^{470,10}$ Toron
J. \&

## fire an

$\Delta$ ddress J . $\&$ the framer
old Barri; ;
$\xrightarrow{\text { TO }}$ JOHN MA

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Will take out 20 to 50 strmps per day, depending on size. Three sizes. No. 1, , capabble of
drawine any stump $\$ 120$ No. 2, for stumps 2 feet 6 inches. $\$ 90$. No. 3 , for 18 inch stup nps. \$70. The largest sizes will take out the smalle t stumps, but they are constructed much str ngion,
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orthy of their attention.







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Cattes pany's Condiment is being ued in oor stabes
and the emen inform me the horses retish tit, and are much improved under the new regimen.

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in affected on the onst of feeding and the anti-
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THE REAL OBJECT OF PLOWING, Immense quantity of soil withot wot disintegration, but 1ather to change fhet well known to every
particles. It is an
ractical and intelligent farmer that Plowing practical and inteligent farmer that Plowing
rom 5 to 8 inches in depth, year after year, has
and rom the effect of closing the pores of the earth, and
form
forms a hard pan under the surface, on which forms a hard pan under the surface, on which
the water eethler stands in pools until evapora-
tion takes place, or runs off into creeks without filtering into the ground, and thus afford nour-
ishrent to the roots of growing plants in the heat of summer. Barrenness of suil and ex-
haustion of tie grain bearing qualitites of land resthe result of this system of li hht Plowing.
ro obviate this difficulty of light Plowing- to get a proper depth of pulverization without
entailtng the expense of purchasing and workentainne the expense of purchasing and work-
ing the heary subsiling Plow, we have intro
duced what we call duced what we call our COMBINED PLONW This
AN I, SUBSOIL ATTACHMENT. This can be used on a common Plow, and is com-
posed of an anti-friction wheel llaced betwen
the laad side and mould board of the Plow, and a Subsoiler formed of two coulters, set inte an iron frame immediately in rear of the wheel,
and talling from 6 to 8 inche 8 below the bottom of the furrow. The wheel is thactd about
three-quarters of an inch below the land side three-quarters of an inch below the land side
of the Plow, and by resting on the furrow les.
gens the draft on an ordinary Plow about 200 pounds, as has been proved by actual experi-
ment. $B y$ this means it makes up for the re gistance of the subsoiler, so that the whole is
no heavier in draught than an ordinary Plow
The are placed about the width of the furrow apart
and by and by so tearing up the earth under the furrou
that it is completely pulverized. One stand advantage in these attachments is that they can
oe used with a comnon Plow, while by their
use $\mathbf{a}$ common Plow is made $a$ tubsoiler and use a common Plow is made a subsoiler, an
yet can be drawn wy an ordinary team withou more difficy
plowing.
The great advantage of subsoiling is now fully recogyized, and in this country, where th
average of dry weather is greater than in Eur average osing is a necessity to good crops. It
ope, subsiling
prevents ilants from sufferin. in try seanons by enabling their roots to spreald in the soil. In
wet eseasons the pulverization of the soil cause
the excess of moisture to pass of helo the excess of moisture to pass off below the sur-
face, and in stiff, clayey or other tenacious soils,
by the use of the atrachment the hard stiff under soil which is formed by repeated plowingsto the one depth is epened and pulver
ized, allowing freer circulation to moisture, and a greater radius to the roots. Those who are now using the Combined
Plow'and subsoil Attachm nt with acommon
teand tean, can almost say thant they have dismovered
another farm beneath that represented on thit ir map.
Strat
W Warr Strathroy, Jan. 10th, 1872.-I have tested Lamb
d Warrens S Subsoin Attachment and Light Draft or
Dlow,






 pronounce it a prffect sucecess and believesitating ides-
tined tob of treat benefit to every agriculturist


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Among its many adrantages we call attention to the following:-
It has no Gears on the Driving Wheels,
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In
New Patent Tilting Table for Picking up Lodged Grain. This is the only really valuable Tilting Table offiered on any combined Reaper and Mower.The Tabe can be very easily raised or lowered by the Driver in his Seat without stopping his Team.
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Any one or all of the Arms of the Reel
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The Table is attached to the Machine both in front and rear of the Yriving Wheel, which enables it to pass over rough ground with much greater ease and less injury to the Table. The Grain Wheel Axis is on a line with the axle of the Drive Wheel, which enables it to turn the
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The Rakex are driven by Gearing instead of Chains, and therefore have a steady uniform mothon,
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