
ery respect. Onm
n the Jun. Mowe sample machinee
portunity of exam ason shall be our Agents. an opportunity 0
her Machines ever
for 1871 nd malleable

If Rake.
olf-Rake.
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ay Tedder.
IRATOR
Hallis 8 or 10 H Ior
HULLER,
our Machines
tion, and puroth in Mowing y conclude the

## EN,

president,
WA, OHTAEID.

LONDON, ONT., APRIL, 1872.

city, but if they were erroneous they were city, but if they were, erroneous they were
not intentionally so. What advantage
could it be to us, in apy way Uther recouls state that the price received was
por
from $\$ 3000$ to $84000 ;$ wo do not know from $\$ 3000$ to $\$ 4000$; we do not know which is right. In regard to the right to sell we don't de. ny it, but our impression has been that $i$ would bea wrong step to sell the land, anc our opinion has always been opposed to
the sale. From remarks of the President the sale. From the of the members at the annual meeting in 1872 we were impressed that the members of the Societydid not wish it to be sold. We have considered that something
has been quietly moving in regard to the land and other things for years, past,
and have said nothing, having had and have said nothing, having had
so many other things which we considered so many other things which we considered.
of more importance to the country to ator more. No one would be more willing
tend to
to aid the Western Fair than your humble to aid the Western Fair than your humble servant if we were convinced that it was not for political parposes and the per-
tary, Mr. H. Anderson, was tary, Mat. Eave us the information that the proceds rom the sale of the agricultural
land were, if possible, to be used for the and were, if possible, to be used for the
Wastern Fair. We hove great respect for the majority
the directors of the East Middlesex Agricultural Society, and also for Mr. Anerson, the secretant as the one sent in, it is right that every member of the Board should know of its contents, and have an opportunity of giving their ganction or having waited till the last day we can having, waited 26 th, and still have no reply from the President or Secretary,
their reply before publishing it.
The whole thing amounts to this: Can an agricultural paper be conducted independent of party politics preferred independen and rejected the politicai offers made. We have spoken openly what we believe to be correct,
Have we done our duty as the farmers advocate or not?
We have received a communication from Amaranth, signed "Oymro." It contains farmers, but at the same time it is an attack on the manufacturers. Now we cannot place our columns open for disent send their proper name and address and authorize us to publish them.
Mr. R. T. Dean, of Nissouri, informs S that he bought $\frac{1}{2}$ lbs. of Bresee's Proave two away. He planted one eye to ach bill, on good ground, but did not use manure. The y.id far oxcoeded his most

INDEX
grarbal Editorial
Test of Seds.....i.i.i. Midoceies

Seadr. H of Hubianary:
Patron
National Agris Conventio

${ }^{\text {Ancient Shurt, }}$ Horns (conclu
We estern Corn.

Hogriculitreal.

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The Fary.
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What Yaruers Neol.
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In. andin Breding
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A farmer in Pemusylraniz who thoroughy
 bonda, or bank, or raily way it doubled every five yewres

Test of seodis.
"perbevere and scocordd!" That is our motto.
That compurgothotto. bout the acts of the
late Minister of Abriculture, which maxy late
result in profit to the country, but it has ot to us. We really hoped. A Minister of Agriculture should not
be ignorant of what has been done or is doing towards the advancement of the
interests of agriculturists. Wo well know that it requires a little time to duly consider and make arrangementa, and no doubt the present. Minister has had a great am-
ount of additional labour and care sinee his accession to office, and many weighty his accession to obec, ansidered before dematters save tho practical test of seeds and
sonding to the proticing the tillers of the soil.
note Farmers, we will have patience and for-
low our motto, despite this procrastination or evasion ; more, it is not our intent to attempt to lead our readers to believe or place their whole trust in either political
party. We have not bowed down to that idol yet, and it is not our intention to do so. We are waiting patiently and noticing what is transpiring ; we will allow due opiuion unbiassed, when the proper time arrives. We had a few moments' conver satiou with the Minister of Agriculture, the sesults of which we have not yet pub-
lished We forwarded the following letter to the Minister of Agriculture :-
London, March 11th, 1872. To the Hon. A. McKellar, Minister Agriculture:-
Deuld you in any way aid me in testing seeds? During the last session of Parlia ment I forwarded to the Hon. E. Blake comineinds from the Board of Agriculture
and Arts, and also from the County Ooun and Arts, and also from the should be happy to wait upon you at almost any time yo
may appoint, aud explain my viewe. Yours respectfuliy,
W. WeLD.
This is the reply :-
Dep't of Public Works, Ont., Dep't of Public Works, Ont.,
Toronto, Mar. 12, 1872 .
SIR, have been instructed by the Commissioner to acknowledge the receipt of your communication of the 11th inst., and to say in reply that he cannot do anything
in regard to testing seeds this season. in regard to testing seeds this seasor obedient hervant, honor to be, sir, Mourn, MAcLawrin,
Prov. Sec. W. Weld, Esq., London.
notice to our subscribers. Bein, umable to teat secds as fully as ments in regard to the price received fo wo would wish, we have sometimes becial $)_{\text {the sale of the agricultural ground in th }}$
obliged to disseminate them without testing We are receiving imported grasses
and cereals, and some that have been sised in our own country. We ask you o aid us; one at Kingston, one at Newmarket, one at Owen, Sound one near Montreal, and one or two in Middiesex, ly some of our seeds at half their cost, nd if there is any profit from the result we will divide it, after allowing necessary
expenses. We have not time or means to test all we would wish on our farm. Let us be united, and we can have our prac tax of $\$ 95,000$ or $\$ 500,000$ annually. tax of $\$ 95,000$ or $\$ 500,000$ annualy. be allowed to be disseminated as cheaply as novels and political advertisement

East Middlesex Agr'I Soclety
a political rumpus brewing. On Wednesday, the 20th of March, prr assistants a letter addressed to you humble servant. We opened it and found that it contained eight pages of well writ nderson, Sec'y East Middlesex Agricul nderson, Sec'y
Having perused the document wo foun to contain much condemuation of our ive, deceitful insane liar! and a lauda ory account of the Western Fair and Jas ohnson. It shows that the Board ha authority given to it in 1870 to dispose the Board sold it for $\$ 5000$; that the oard had no intention of using the money sharp rap at the Provincial Board, then indly invites it here, and promises to a success. It endeavors to show that the Western Fair was not intended to injure the Provincial Exhibition. It is high to your humble servant-woe betide him ! We at once directed our clerk to write to the Secretary and enquire if it was from himself or from the Board.
also wrote to the President to ascertain if he was aware of such a document, and if it was the desire of the Board that we should publish it, offering to do so if they ately on receipt of the document, we have not yet had a reply from either the President or the Secretary. Therefore we do not know whether the thing is a hoax or nut, having seen two of the

FARMER'S ADVOCATE.

stances offiers of kfindness and accommodation
were ovountarily tendered before the adjoun n,
ment of the meeting, showing that the tide had ment of the raeeting, showing that the tide had
already commeneed runnirg the other way.
Brother Smedley, Overseer of the State Ste Brother Smodley, Overseeer of the State Grange, wholappeneos, and in his husual elo-
the assempled Patrons and
quent and hapy manner gave us a chatter
and exprence of the Patrons in the quent an: happy manner gave us a chapter
from the experience of the Patrons in the
northern part of the State and some sound ad
net northern part of the State, and some sound ad
vice to the new Granges in this part of the
State, as well as solid instruction in the princi ples and work of the Order. He the way listenene
to throughout with marked attention, and long and frequently applauded.
 ing to a permanent and local organization in this part of the State, the metang adjourned to
meet $t$ Th Toleo on Tuesday, March $19 t h$, 1872
A cordial invitation is extended to A cordial invitation is extended to.the Grangee in Benton, Poweshiek and Marshall counties,
to meet with us in council at that time, to de
vise and carry out mesures vise and carry out measures for the commo
good in this part of the State.
The thanks of the members of the Order ar The thanks of the members of the Order are
hereby tendered to M . Merchant, of this place,
for the free use of his hall on this and other oc for the f
casions.
The
The meeting was in every way a decided suc
cess, and will long be remembered by those wh
participated. The unanimity of feeling maniparticipat, and the determination evinced to pro
forte the purposes of the Order, augur woll fo
mote mote the purposes of the Order, augur woll for
the future of the Patrons of Husbandry in
Central Tama City, Feb. 24, 1872.
We insert the above extracts from the plans are, in a measure, already at work across the lines, in a different form and
under a different name. We will strike hands with them, and hoist your banner, the FARMER' ${ }^{2}$ ADVOCATE; we wish
tronger fraternal unity among ourselves stronger fraternal unit
and with our cousins.
Let us unite in the one great cause-
dvancement of
agricultural interests. We have much to contend arainst, but we have right on our side. Let us be united aur just, fair, and honorable rights !

## National Agr'i Convention.

 A National Agricultural Convention has sembled the Presidents of all the Agricul-tural Colleges, and the leading agriculturists. We quote the tollowing remark Stock Journal: "This is the efirst body of men ever con
vened to represent the united agricultural inthe Cummissimer for consultation and with ty hope of establishing closer relations between
the Department and the Agricultural Colleges and Societies. The Commissioner has don
the country more service in convening this the country more the Department had ac
body of men than the
complished for many years. He possibly had
Hen some pet scheme to carry out, the antitude
Convention to assist him in the
pupils ; but he found their views too broa and comprehenstve t. suit the narrow scope o
his nind. After receiving his first lesson they
became restive, and in liorse parlance, 'took became rest ive, and in horse pariance, 'to
the bit' and ran away with the driver."
But they appear to have been broug to time again.
This Convention is the first step tha has been taken to unite the for progress, and the object appears to be to gain and give
information. A greater extent of land for the Colleges was desired by the Directors.
It appears that the Germans have forty tions relating to the cultivation of the soil, manures and their effects, hreeding,
rearing aud management of farm stock, rearing and management of farm stock,
the dairy -effeet of quantity and quality
of food upon milk, the yield of different of food upon milk, the yied of milk from a
breeds of cows, the yield of
given quantity of food by the various breeds; the value of different foods in the production of milk, beef, pork, mutton
and wool, are all carefully worked out and Tiese experiments of the Germans, as those of the French, have been going nin
for many years, and present an accumulafor many years, and the greatest value l, ,ng they lave never been transiated into el
lish, and are not, therefore, avaiable to
the American farmer.

## Ancient Short Horns.

 Concluded.)During the next thirty years there are nu
Derous cases of animals being fed at a y youn age to a great weight. Charles, Golling's Dur nimals. He was calved in 1796 , yoo bey fa ourite 252 out of a common iblack and whit cow, bought for Charles. Golling by Jo
Simpson at Durham Fair for \&14. His firm
and nice handling indicated every to fatten at an early age, and at five year old his whole carcass was loaded with thich
fat. Being thought so wonderful an and far exceeding what had been seen before of Haruby, in February, 1801, for $£ 140$, hi
ive weight being 3024 lbs. Bulmer had live weight being 3024 lbs . Bulmer had
carriage made to convey him, and after tra velling five weeks, sold the van and the ox a
Rotherham to John Day for $£ 250$. On July he 8th, Day refused ahe principal parts of England and Scotland
the tiondon, tg7 was taken in one day. A
In In London, $£ 97$ was taken in one day. At
Oxford, in Yebruary, 1807 , he dislocated bis
hip bone, and was killed on the 15 th April, weighing 4 qres. 165 st. 121 lbs. ; tallow, 11 st
12 lb . hide, 10 st. 2 lbs. Day states his five 12 lb . ; hide, 10 st. 2 ibs. Day states his 3800
weight at ten years as 34 cwt., or about 3800
bs. His measurement at five years old was length, horns to runlp, 8ft. 4in'; Height at loin
 0 x at seven years old was the largest; lengt att. 8in.; height, 5 ft .
and breadth, 2 ft . 1 lin.
Chate
Charles and Robert Colling were orivinally going to Brampton and Charles to Ketton, in Th3. Gabriel Thornton, father of Rober
Thornton, of Stapleton, Yorkshire, went with Mr. Charles as farm manager. having pre
viously lived since 1774 with Mr. Maypard at Eryholme. Sonne remarks, of Thornton'
concerning Mr. Maynard's cattle led Mr. and concerning Mr. Maynaru's cattue led Nime. ana
Mris. Oolling to ride over to Eryholme tha
same year. When they arrived a handsome cow that Miss Maynard was miking attracted their notice. ard Mr. Colling offered to buy
the Bow and her heifer. After some haggling on each side the purchase was made, and
Favourite, by R. Alcock's Bull 19 and her danghtcr. Young Strawberry, went to Ketton
Mr. . . Clling told Mr. Wiley that his bro-
ther's and his own catte were never better that anybody else's until they got Maynard'
two cows ; and Mr. Bates wrote that M two cows; and Mr. Bates wrote that Mr.
Maynard gave him a long predigee of the
cow Favorite, going hack to the time of the Murrain (1745). The great grand dam o
Cherry, Int 1, was bought at Yarm Fair by
Mr. C. Colling's father. Daisy, lot 11 , originally came from Mr. Waistell, of Great Bur
don. Haughton, the daan of Foijanke, 263
Hane fron Mtr, Alexander Hall, of Houshtu came from Mr. Alexander Hall, of Houghton,
liear Daringtin; her great grand dam Tripe
 thumberland's agent in 1784, who aftirm
that tho tribe had been in the Duke's famil that the tribe had been in the Dukes Colling
over two hundred years. Mr. Rabert Cllig
and his brother also bought stock. from which their berds came, of Mr. Millhank, of Barn
ingham, Mr. Hill, of Blackwell, Mr. Best Watson, and Whright, of Manfield, and Sir W.
St. Quintin, of Scampston. All these were St. Quintin, of Scamnstin. All these wer
colebrated breeders of Teeswater cattle.
Hublack 319 was undoubtedly one of if not Hubback 319 was undountedy one osed at
the first bunl that Charles Colling use
Ketton. The mass of cortlicting evidence for and against this huil, published in the Farm-
er's, Journal, abont P8on-1, would fill a smail lis listory. Mr. Wrizht says that Charles
C, Jling, $p$ ing into Darington Market weekly used to notice sonne excelient veal, and upon enquiry ascertained that the calves were go
hy a bull belonging to Mr. Fawcett, of H Hegh
ton Hill. This bull was Hubback 319, wh was then serving cows at a shilling each, Mr
Waistell and R Rhert Colling bonght the bu together for 10 guineas, in the spring, and i
in the Otaber or November following (ac-
counts yary as to counts vary as to 1783 or 1785). Charles Col
ling gave guaineas for lin. At the end o
two years the hull was sold to Mr. Hubback
Nather

 from IIr. Stephenson, of Ketton, frem whose
$\left\{\begin{array}{l}\text { stock Foljambe's dam oame. The sire of } \\ \text { Snowdon's bull came from Mr. Waistelps } \\ \text { stoek of Great Burdon, and his dam, a hand- }\end{array}\right.$ stoek of Great Burdon, and his dam, a hand-
some oow, remarkabie for her wide hip, from
Sir James Pennyman's sir James Pennyman's. Hubback's dam was
said to be a beautiful little shorthorned cow which was kept after Hunter had given up his farm, and ran in the lanes. She was by
Banks' bull of Hurworth, "a bull with a great bely;" after oal ving she Was taken to Darlington and soddrawtith hese calit to Mr. Basnet; and

 white, headgood, hopns smatl and fine breast ght, girth good, foins, body, and sidess fair, onderfuy"
Foljambe 263 succeeded Hubback. He was
by Richard Butleers'butt 52, , ibed and white by Riehard Butier on buthed 5 , size redt and white al, rather a hard hawdler, the winner of a
remium as a calf in 1784 at Davingtom, and
 on, before mentioued, and Cliarles Colling

 big boiny beast of great substance.
 nard's cow Favourite. Mr, Coatess though
him a large beast, light, foan in color with
 was a graud beast, very larige and open, had
fine brisket, with a good coat and was as con a handler as ever was felt. His dam Phopis.
was a large ppen-bged cow, and coarser than
 her more of her ccharacter, and "posseased
remarkably good loins, Ing level hind, quart era, his shoulder points stood wide , gnd yer
somewhat eoarse and too forward in the neck and his horns in comparison with Hrubback were long and strong, His sire Bolling brok
86 was by Foljambe out of Young Strawberry 66 was by Foljambe ont of Young Strawberry,
the heifer bought of Mr. Maynard, in color he was a hlood red with a. hitle white, and til best bull Geo. Coates ever saw. Favourite
252 (born in 1795 , died in 1809 ) was ased in
2 in discriminately upon his own offspring even
be third generation. It is necessary here to give some accoun
of what is called the alloy blood. Col. O'Cal aghan lived close to Chas. Goiling at Ketton. Mr. Cuates bought two red-poiled Galloway and these cows were allowed to be served by Chas. Colling's bulls upen condition that he
had aul the bull calves as rayment. In 1792 Bolling hreke a red and white brindled bull by a year old. Johanna, a indederate red cow, by the Lame buh, hothan buil and in due course gave virth to a red and white bull calf, called Grandson of Bollinglroke 280. Pheenix, afte
prodncing Favourite 252, was barren for a length of time; as a last resource she was pu1 produced the red and white cow Lady, lot 7 There is no accaunt af
used to any other stock
The importance of this subject, and the re search and enquiry necessary to make a com
plete report of those early Shorthorns, requir plete report
more than the present writer is able to bestow For the eurious, a measurement is subjoined
of the cow Phoenix. Lady Fragrant, the frst prize cow a reduced state, is, in nearly every poin a larger animal, whilst the 850 gs. Gran
Duchess 17 th, in breeding condition, is nearl the same size as possible. Phenix's height, 56 ins., length quaiter, 2
ins., girth at cline, 85 ins., width of hook ins, , ins,. length of back, 61/ ins, "girth a
26 and
neck, 38 ins width of loin, 191 ins., lengt neck, 384 ins., width of loin, 194 ins. len
of space, $15 \ddagger$ ins., girth at shark, $i \frac{1}{\text { ins. }}$
Good temper with the majority of mankin
del/'ndent npon good health; good health upon go.d digestion; good digestion upen wi:loceome, well-prepared food, eaten in peace
and plea antness. Ill-cooked, untidy meals are a great cause of bad temper and many
moral worng; and a persou of sensitive physipue way be nursed into settled lyypochondria and the foul ais as determinedly shat in.

## ), - <br> The Truit Crewere Assciation of ontario.

The winter meeting of this Association as held in, thie City Hall, Hamillon, on bers being in attendance.
freit in manitora
Mr . Spencer, recently returned from
fanitoba; where he had been laryely inanitoba; where he had been largely in Sociéty being present, the ohairman cealied the atteitition of the meeting to the faet, and renuested him to take part in the dis
cussions. Mr. Spencer very graceffily acknowledged the compliment, and being requested to give some account of the con sonow yery interesting gtatements. He Baic
that tooncely any fruit was oultivated theer thatsogarcely any fruit was cuilivated them
hut there was an, apundant supply of cam of the small fruits found growing ina wild state The apple trees that had beea in
trodyced into 1 anitobofron more sotitherm latitudes had gll fiiled, and ho belleved the
only way to secure treas, unficient ty har
and
 apple found growing there but it itinto absound there, apparently of several varieties, and many of these are quito goo
much better than the tila plumis found much better thag the pla plumi Cound herries are found groying wid in ive the
 here, and twon rapietion af cranpexy abundance. Ther ive also a speciesoof tap ound in a wild rater whicer itwory ner of The vegetables thiat ard raiged themo xcellent quatity and would comparo
favarably with thoses of Ontaition attle were also very fing the geruce of f the oountry wera . .
Some of the members magegestid thatea blished in Manitoka, to whom this Society night send scions of the moth biardy varo ies of apple, sc., and expremed the дove
hat Manitoba might be in this way boon supplied with many ivaluable fruitas.
QVEBSTOCKING THE TRUTF, MAREST.
Mr. A. M. Smith read a papers an-the danger of overatocling the fruit mante
for which he received the thaskosefith Ansociation, and the meeeting
the diseussion of that mubject.
$\qquad$ which many had met with this seman in sending fruit to England, in mome capeng. na realizing enough to pay expencee od ontap
ment and sale. This he believed to bo owing to improper management, and remarked that good paying prices had been
raalized by those who put up their ffuit realized by those who put up their fruit in a proper manner, sorting it wen, pactly The fruit of Ontario was not excelled by that of any part of the apple-producing region. Durand believed that the produc-
Mr. tion of a large supply of good fruit in any
part of the country would turn the attention of dealers to us, and so increase the number of purchasers that there would be competition among the buyers cure to the grower good prices.
Mr. Clemens believed there way go largo a part of the country, hut poondy adapted
to the raising of fruit that xisting there would consume all the fayplus fruit that c
raising districts.
Mr. Watson thought that his experience did not indicate any lack of demand, for when he was a boy good snow appes any
sold for 12 c c., which now readily brought $\$ 1.50$; and, reasoning from past experience
he believed that the demand would fully keep pace with the supply.
Mr. D. Hammond quality of the fruit raised was that the improving, 'and that this had a teadenc to keep up the demand. In his locality there was a good fruit market.

## FARMER'S ADVOCATE.

Mr. Spencer, of Manitobs, remarked that
fruit can now be sent to Winnipeg, wia Duluth, fruit can now be sent to Winnipeg, via Duluth,
without any land carriaze. If gentlemen present thought the price obtained for apples in
Glasgow to be remunerative, he would tell Glasem that at Winnipeg, instead of selling for
twenty-seven shillings and six pence, ordinary twenty- seven shillings and six pence, ordanary
apples found ready sale at twenty dollars per that.
Sheriff Davidson stated that there was a
time when at Berlin there was no sale at all for what little fruit was then raised there, but now the best prices were paid or hod found dry leaves
Mr. Haskins complained that the Hamilton market was very poorly supplied with good fruit. that in fact the most ot it looked as though other market, and expressed the hope that fruit raisers would at least be able
ton with what frut it needed.
Mr. Osborve exhibited to the meeting some remarking that a considerable quantity of these grapes conld be sold
ng from fifteen tot twenty five cents prer pound
puld and said that if frait-raisers wouls were abun dant in the autumn, until this season of the year, they would secure good pirins asked how
repaid for their trouble. On being ask he had preserved these grapes in such fine con
dition, he stated that he allowed the grapes to dition, he stated that ho the vine until they were perfectly remain on the vine until they were pertectly from the vine, handling the ecusters carefnill
by the stem, and laid them in shailow boxes, by the stem, and laid them in shailow boxes,
first placing in the obtom a layer of dry leaves,
arrd apon these a layet of grapes. In this way he filled the box with alternate layers of grapes
and leaves, closing with a layer of leaves.
The boxes were then nailed up tight, and The boxes were then nailed up sight, an garden not sinking them very deep, but ridging
the earth up over them. This morning he had dug them out with a pick, the ground being
frozen, and found the grapes to be all in as
perfect a state of preservation as those he perfect a state of preservation as those he
now exhibited. He had been led to try thi
method from finding Igrapes on the ground in apring, Twhich had boen covered during th
Winter with leaves, in a very fair state of
preservation, and thought ho would try the presorvation, and thought ho would ,try th
method he had just now described, and which
in this instance had bean so very successful.
Mr. Grey stated that one fruit dealer in of grapes, which be thought might as well be
grown in Canala. For the past thirty year ar the thas market, and he Mr. Woolyerto continue so. Mr. Woolverton thonght it. might be pos
sible to exceed the demand for summer apples,
but in winter fruits there was no danger. but in winter fruits thero wo danger.
Dr. Cross thought there was danger of grow-
ing too many of the small fraits. He had sent ing tow many of to Toronto for which he realized nothing, and last yoar wis u:able to sell his Bartlett pears, the dealer in
ing to him not to send them.
Mr. Caldwell thought the demand for first class fruits was continually on the increase; $;$ these the supply would never be too great. Mr. Graham raid that at Fort Erie there
was a constant demand for iruit, especially for Wasples, poars, \&ec, the Buffilo market
taking everythin, they could raise. Cider apples were bought up, at vat.
the manufacture of vinegar.
Mr. Allen, of Kingston, would discourage the production of any but the choicest varieties of
fruit, and the sending to markst of any but fruit, and the sending to market of any but
choice samples. A gentleman near Poughkeepsie, N. Y., sent a anuually to Europe several
thousand barrels of apples, each apple very nicely wrapped in silver piper, aut for these he
obtains high prices. The wrapping of each apple seccrose a careful examination of each.
and the rejection of all thit are imperfect. He and the reiection of all that are imperfect. He
believed that the very pratuction and sending believed that the veiy protuction and sendiug
to market of chivice fruit of itself created a de-
mand, and tilat the more abundantly consummand, and tiat the more abundantly consum-
ers were supplied with good fruit the wore they ers were supplie
would consume.

## -

The second question was taken up after re-
cess - At what distance apart shiculd applc and pear trees be planted


reet each way was quite sufficient for standard
pear trees. feet each wa
pear trees.
Some of Some of the members thought that some
varieties of apple, those that did not make rreat, spreading heads. such hai the Early
Harvest, Duchess of Oldenbutgh. Northern Spy, \&c., night w Mr. Caldwel
to be desirable
vether in the to be desirable to plant trees mneh celoser to Minto, Garairaxs, \&c.- than in the Niagara district. The trees in the northern sections sary to plant with reference to the peculiari-
sies of that climate ties of that climate. When planted close to gether, and trained low, the trees protecter
each other, so that white $\alpha$ distance of forty
feet each way would feet each way would be very suitable in the
warmer and mure sonthern parts, in the north warmer and more sonthern parts, in the nort
ward he would advise planting apple trees
not more than 25 feet apart each way. Fron not more than 25 feet apart each way. Fron
his own observation he could say that long his own observation he could cay the country
stemmed trees in that part of the
were not the thing, and that those who had were not the thing, and that those who ha
tried the experiment of low training, and clos
planting had been much more successful.
Mr. Grey, of Toronto, fully coincided wit Mr. Grey, of Toronto. fully coincided with sections were enquiring for low-headediority of such trees for their locality over the old-
fashioned style of long trunks. It might also be well, he thought, to plan
between the rows of apples.
Mr . Morden advocated planting, the trees iurther apart than the distance recominended
by Mr. Caldwell, on the ground that when planted so near together. the roots of the trees the requisite fertility. On this accecunt he
the advocated planting trees at considerable wis-
tance apart. He spoke of an orchard which
he had grown in the county of Hastings, he had grown in the county of Hastings, ing and high training, and believed the ably with any.
Mr. Morse was partial tn the quincunx form,叐t apart each way, and then planting an inCervening row by placing a tree in the centre of each square firmed by fcur trees. He
thought that in this way the desired protection was secured, while at the same time the
tinceased between the in-
distance was so istance was so nincreavil effects would
ividual trees that no evid
irom interlacing of roots or branches.
Some remarks were made upon the corres pondence oxisting between the form of the top
and the form of the root, some maintaining top also threw out wide-spreading roots; while those laving a fastigiate top sent their roots more perpendiculariy into the earth. To this
it was replied that as our trees were grafted upon some seedling stock, it was probable that the roots would assunue the style of growth
natural to the peedling stock, and not that of natural to the seeding stock, and not that of
the inserted grafls. This ted to some discussion upon the infliuence which the scion ex erted upun the growth of lheesticck. Some in-
stances were mentioned where it was manifest stant the root growth was affected by the sciou,
that
but the instaices that are well authenticated but the instaicess that are weil authenticate
did not seem to be sufficiently numerous to did not seem to be sufficiently numurous to
admit of any general conclusions on this point.
plasts for distributios

The meeting having heen asked to stat should be sent out for trial, it was suggested by Mr. Ball, of Niagara, that it wonld be we.
to give some nut-baariag trees a trial, such a to give some nut-beariag trees a trial, such a
the Filbert, which he belisved liad done well in some localities.
The Prerilent remariked that he had suc
ceeded in raising them ia Hanilton. Leeded Mr Arnold, of Paris, stated that he hal
Mr. C. Arow English walnut (Jul nns Regia)
grow that last year they ripened nicely. and that last year they ripened nicely. Other members remarked that they had
succecded in growing the tree, but not the nuts: The President then announced that any
suggestions with regard to the kind of tree to sugestributed hervafter would bo ncceeptat
 - Meethas.
tion of officers, \&e., will be 'held in the city Hamilton d
Exhibition.
porming heads yor orchard frees. The third question was taken up-At what distance from the gro
Mr. Martin favored low heads. He thougg t these shielded the trunks of the trees from th heanily the fruit
Mr. R. N. Ball thought that six feet from Mr. R. N. Ball thought that sis
the gronnd was a very suitathe eheight. answer.
ing well fir all purposes. The ground conld ing well for all purposes. The ground conl/
he cultivated uder sncl trees, the fruit conld he cultivated under such trees, the frite trees
be convenvently eatherdd. and when the ther acquired
ciently.
Mr. Caldwell advocated low hears as necess
sary in the pary in the colder sectuns, and thing and deep cultivating in the orchar. was very injurinus to the roots; also are un-
when the trees branch iow the needs are when the trees branch low the needs are
able to make any livuriant growth, being too densely shaded by the tree tops.
Mr. Morden was opposed to low heads:"he be
lievefl that in practice it only amounted to hieved that in practice it only amounted
growing turee or mrre trunks instead of one. He thught. from his own experience in the
He thatings, that there was nothing county of Hastings, that
gained by training trees low.
gained ther gentiemen stated their views, the
Other favour of forming Other gentiemen seated favour of forming
majority of whom were in
the head at about six feet from the ground. It the head at about six feet from the ground.
the branches came out lower than this, the weight of fruit and leaf soon bent thee was ex
ground, so that great inconvenience perienced from these pendant branches sweep
ing the ground. There is a yust meaning in
this matter, which may be v vried by the habit ing the ground. There is a vust meani habit
this matter, which may beviried by the habit
of growth of the particular variety, or by the of growth of the particular
peculiarities of climate and exposure to winds. The discussion was eulivened at this stage
by the reading of a carefully-propared papert
by A. Macallum, M.A., on "Some of the by A Macallum, M.A., on "Some of the
meteorological conditions that obtain a
Hamil meteorological His essay was received with
Hamiton."
thanks, and referred to the Committee on thanks, and
Publication.
cropping orcimards
The fourth question was then considered
namely-SLould any crops be grown in the namely-Stould any crops be grown in the
orchard? Mr. R. N. Ball thought it was well to cultivate the orchard while young with e'p phe which
did not exhaust the soil, as peas, beuns, did not exhaust the soil, as peas, beans,
but that after the trees liave coune fairly in but that atter the trees liave coune fairly in
bearing, no crop whatever should be growa bearing, no cr
A large number of mambers expressed
their opinions, but the prevalent opinion wad strongly in favour of growing ouly such crops as thase mentioned by Mr. Bull, or other
hoed erops, as turnips, \&c., while the trees are young; and that ut no case should crops of
grain, as rye, wheat, \&c., be grown in the or grain, at
Tarietirs of apple - what proportion? The fifth subject was-In planting orcciarts,
what should be the pruportion of sulumer, full, and winter apples, in every hundred trees
Mr. R. N. B.all would plant aill winter if planting for narket. Would plant no nore
use. ${ }^{\text {M }}$ thent
Mr. Arnold thought that sone summer fruit
might be safely planted for market such as tiue Benoni and Summer Strawberry. There was but little demand for fali apples. At that time grapes, pears, and sometimes peaches,
filled the markets, and when these could be had in abun
light.
Mr. Allen thought that by far the larger part
should be winter surts. shouid be winter surts.
Mr. Caldwell advised that two-thirds of the
apple orthard bs of wiuter varieties, the other phird to be made up of summer ind fall sorts. ed for fanimity use, aud would meet the requirer ments of the market.
Mr. Watson remarked that for sis weeks in
the fith, after the eariy apples were gone, there were no groud table apules to be had in the T T ,
ronto market at sert apples wuald there e command a ready sale Mr. miath thought that orchardists hat made exinhively to winter varieties; that there was
consideravie demand for summer apples, muc Mr. Mu Gin pestent supply. Mr . McGill would plant one quirter of his
orchard with gummer apgites
dicat of bakr on applit frezs.
 he lonsening and decay of che bark on apple
rees! He said that this decay of the bark oc. curred on the trunk and main branches, and enerally on the sonth-west side of them. It ometimes eatended for a considerable elength
on the trunk of tlie tree, and even below the now line. After a timee the bark becomen dis3lored at the affecter place, gradually becom-
iy dry, dead and black, quite down to the wood. ng dry, dead and black, quite down th the wood.
Mr. Beadle venarkei that he had noticed
nice pears and
table. The Co
ful examination ful examination.
to the meeeting.
in the annual in the annual th evering. Due
by circular, of by circular,
meeting at Gu
$\underset{\text { ed }}{\mathbf{W}}$
No seed th appears to h amount of re person that ${ }^{\text {it once, has }}$ it once, has
few farmers few farmers
We have a it at a lowe have purchas
you send fo you send fo
should it oul rich land at els per acre,
and cat it Sow about
spring frost.
give it to yo

## ,

We since
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thine our un
think we ha
disrespect or
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say that as
letters dail
letters dail
derable tim
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will do ou
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for the pap
our best t
Kinds of $n$
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seeds, roo
are redily
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and bulbs
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catalogue
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ducks,
Hallone

## FARMER'S ADVOCATE.!

nice pears and well kept grapes, laid upon the
table. The Committee on Fruits made a carethe meeting. This report will be published
in the annual transan of a The meeting broke up be yiven to members, circular, of the time of holding the sum meeting at Guelph

## Western Corn.

No seed that we have yet sent out ppears to have given greater satisfaction han this. It yields such an enormous person that we have heard of, after tryiug $t$ once, has seut again for it. But very We have a good quality, and can supply $t$ at a lower rate than formerly, as we have purchased more extensively, for seeds, take a little of it hould it ouly be a peck. Sow it on good tich land at the rate of about three bushels per acre, either ind cnt it just before the frost nips it Sow about planting time, so as to avoi spring frost.

Our Friends. We sincerely thank you tor your con
tinued aid and encouragement, and kind inued aid tinue our undertaiking. Sone of you may think we have slighted or used you wit disrespect or meanuess. rece have so many letters daily, some of them taking const derable time to real, and ene to atterd to besides the paper, we hope you will -let us will do our best to satisfy every one of you. State your complant if you feel in any way aggrieved. for the paper, let us know, and we will do our best to satisty all hy sending
kinds of new and approved seeus.
We have a yood supply of cereals-field reeds, reaty, hall willing to supply you. No are ready and willing to supply you. No gaainst is it we can possibly avoid it. We
ave the best cereals Caniala las proluced. Our field seeds have just arrived reak per steansup cice supply' of flower seed from Vick, of Rochester. Our hllies See our next issue, and refer also to last catalogue, make
what you desire.

## Caution.

There was a recipe for botts publishe in a previous number of this journal clipped from Chase's Recipes. One of our and the result was the most disastrous,
We are unable to test every recipe we may publish

Live Stock Journals.
The Live Stock Journal, published in Journal, published in Chicago, are two excellent and handsome journals. They are well deserving of the attention of our
Canadian lireeders. The price of the Canadian ireeders. second is $\$ 2$ per annum. They, are both in their third volume, and we think the
last numbers are about the best that have last numbers are
yet been issued.
Those persons who gained egrs by get ting up clubs for the A. of this month or ater, as they desire. State whether you wish them sent with seeds or by express, and whether you want Dormings, Rouen Spanish, Brahmas, or Ay.
ducks, from choice stock.
in moneae is bettor.

To Advertisers \& Correspond'ts.
s seaverineernent, anond bosmumicicationt
 they may toolde.
Notice !-The $\$ 13$ per pound turnip paper is an error, on account of our aid reading the invoice errouneously. Conse
quently, that seed will not be sent out. quently, that seed will not be sent out. Y., employ 250 men in their establish ment. They have 650 acres devoted to
the nursery business. e nursery business.
From exchange papers we see that from 35 to 40 per cent. of the stork in many
parts of Texas have died from cold and parts of Texas have died finter.
hints for the month ôr april. Sir, - Do not expect to find here a moni
tor for the whole routine of business for this seascn. 'Perhaps thou art unacquainted with it; observe thy industrious neighbor, or let the fields and meadows be thy monitors,' when I have collected the betore you that they might not grow to a heavy burden if suffered to lag behind.-
While the ground is soft and the grass tender do not let your cattle tread up th grazing. Give your pastures several
weeks' credit in the spring; they will pay vou interest and principal in the summe repair the old and put new where they are wanted. Good fences are the Magna
Charta of farmers' rights. And when you are employed in this business remember hat a piece of work well finished once Poor fences and short feed make lean catthe and ill-natured neighors-graft scions of the best fruit into tbose trees that produce bad, and the trouble and expense will be small compared with the utility. Whe you set your trees remember it is wore to rear a good one than a bad one. If you
wish for plenty of apples in the fall and winter, spare no pains in keeping of worms and cater, illars in the spring after their flowers and seeds. If any of perhaps not the kinds they wours or som pernaps some or
other young man, I won't say who, wil get them
Bury's
green,
bow to draik wupat rields. A correspondent of the Cointry Gentleman
tellu how a farmer urface-drain hie whean
 way, which are so arranged that The he gives
leaves an open or dead furrow. The haking all
hose fy those furrows a thornugh arrone partly fille up
fine and smoth, this of curn
te dead furrow. which is then cleaned out by a the dead furrow. which is then cleared out by
plank furrow cleantre, hat takea a sweep of
ond mome six feet-three each way- and spread
and smouthno of ar taken from the dead fur-
Tow. This is done before the wheat is drilled This is done befor
ow.- Carolina Farmer.

RBCIPR
To Cook a Beef. Steak or Mutton-Chop.-Cut stove or in the oven. The upper plate keeps in
seat
to steam and the meat is more juicy than the steam and the meat in more juicy than
when cooked in a frying pan. Thin mode is ea phen cooked in suited for venioson, as it preserves the
per
ine game lavour. Salt herrings may be cooked pene game flavour. Salt herrings may be cooked
in the same way but the should be steeper in
in the in the same way. but tey
fresh water $a$ couple of days to draw the sall
out of them. out of them Red Herrings. - Pour wome proot
whiskey into a soup plate ; lay two or three slips of wood acroses, place your herrings upo
them, and net fire to the whiker. Turn them once, and by the time the whiskey is all burn they will be done. two contributed recipes br
[The above are tor
one of our readers, and we insert them hopin one of our readers, and we insert them hoping
others may send us mome. We think the her-
ring cooking w uld be a rather expensive and dangerous operation in some instances, as th
fino might be consumed before the dinner w
wooked and evil consequances might follow.]
 nod the
rumber
and yas













 a difference, as in buls the nostrils are expanded,
the breathing fast and hard, and the extremi-: ane breathing fast and hard, nostrils are contracted
ties warm. In clic the extremities cold. - "B.," in Southern
and the






















## 数orticultural.

## a

It eems. very simple thing to plantat trea


 pendent apond. corner-stone of all successful hor
dation and
ticulture for if a man cominences his life and ticulture ; for if a man cominences his infe an
experiences by building up from this mall experiences by buiduing up from he will be
elenent, the probabilities are that he wist sure to understand and masser thoroughily Knowledge of all the subsequent arts to pro
dince the vigurous trees and abundance of
ruit. has seemed to me reasonable to throw It has seemed to me reasonable to throw
out a few hints in a condensel form, which out a few hints in a condensel form, which many every year, and also to asi
are am.ng the afflicted already.

1. Plant young trees, both in your orchard 1. Plant young trees, both in your orchards
and your gardeus. They cost less in actual pice, in freight, and in planting, than olde
trees. Thy are surer to grow have more and
better small tibrous roots, will adapt them

with equal watching and care wil $-{ }^{30}$ min
 ot bearing. Nevere chooses statadard apples,

2. Be careful, whereie choice isallowd you,




 liant there ther id the reometat chance for Mater toetetio and stand near the suraco. It tor fruit
 Ne foot, atripixix feet or nore wide tept Let
 tir to the depptho ofto feet inowsilow in
 lineter; place the tree et the pamod eleth as

 ootes, Many inexpereienced perions lose their best lowere in the exearth than its origizal poo bition Whate the oround has not beer puly die his holes two feet doep and four or
morex Mix id ochen eole and is. placeed around the roots o
 Yether. Leaf moulud, muck, and ime may ail Iot the $\mathbf{y}$ contact wtita the roctas of the theree, and the re. minder on the surface of the triund, to act ng to the izzoo the theree from an hailil husuld upwarl:
 rivent deayy cut hack on ind undeer sidid that tee tait come from the nurgeries have
 At the tive of platin, pruno all branches nack to three or
${ }_{7}$ Ti,
 mulch two inchect deep of hay, half decom.





## 

Convering s ith an olid farmen $a$ tor year Azo on tive thaking inis beed corn in troum boine -mat pickio would anyer -and thill corn thut reated was never injured by morime








 It som pacach rrees ho onco had itid hili yacd

 mould appeat trom thit that the salino opati-




## FARMFR'S ADVOCATE

## Correspumence.

wayza foom anamp.


## nabmars ojed

Our farmers' club is gettiag on yery well.
We-hold meetings every week, and every two weiks we have a debebte on some subjects pripcipaly about agriculture, and every sec-
ond weekk we have a general discussion on farm subjeets. We thought it best to alter
nate: the subjects, as the debate keeps up the
 discussion the other evening on the subjeet of
manures, and 1 for one learnt many things 1
 anioge whom are some of the best and most successful farmers in this a meighborhood, think
that. thie manure trom the cattle stable, pretty
 weilst materes for the general purpooses of a
bearm
farme
They ploughed in too deep, and sone advecated not
covering more than two inches, others frol three to five, aceording to the nature of the
soils on light sion not more than two inches,
ond and increase the depth as than sowil incromeses
 got, soniag going so far as to say that itit in
creased the clover crop fully a half. Salt as a manure was aliso brought up, and received the
favorable opinion of most of the members. Salt has not been used on account of the cost,
but now when we can get the ref use trow the bells in the west at $\$$ t per ton, thin thiuk it will
will come into more general favor. This was sthe
opinion of the majority of the members. The sumperphosphates of time was tried bers. bone of
the gentlemen, but they agreed that it did not the gentlemen, but they agreed that it ded not
pay. One nember who sed a pood deal one
year on turnips year on turnips, potatoes and other crops, con-
sidored that it did not pay hium for the labor of applyinin it, without taking the first cost on the clovert crop and plad and, the best bistion
and the best crop to seed with, the amount of
and seed per acre ind al aloethe difiticalty of raising principatily on account of hating out in the
winter. Most of the members advecated putting on asout two bushels of mixed seeds colover, one peck of Alsikike of olver, and three
pecks of timothy. The add vantage claimed by mixing the seeds is that there is nore surety fail, or it , one fails there will be enough of the other two te make ar crop. Again, we all
agreed that bartey or spring wheat were the more chance of the seed germinating than if
 summer most of the grass crops that were
somed in this vicinity fatted, andid nearly all the feidds have to be broken wagain. The plants
seemued to grow until the dry weather we had seemed 0 grow untit the dry weathor we had
aboat May, and some of the fields were pretty "od catch till tho grain crops were
taken off, then the dry, hot weather killed nearty every field about here. $I$ only know of
two ort turee pieces that will be feft for a crop.

$\left\lvert\, \begin{aligned} & \text { lose my wheat crop as, when the clover fails, } \\ & \text { it throws the whole farm ont of rotation of } \\ & \text { and }\end{aligned}\right.$ crops, besides sholewn a poor chance for the
uext winters feed. Now, my dear sir, I will have to close this
letter, as it is guite long enough, and if you


 Please acknowledge receipt, and let me kk.
about the wheat. about the wheat.
Brantiford, March $\mathrm{s}, 1872$. 18 .
planting tree
Sir,-As you invite communtications on any
sabject pertaining to agricultural interest, I venture to write a fow lines about planting Corest trees. $I$ saw an enquiry in the hast
Avvoca $T$ E
to to the best plan of transplanting them, soI will pive my ylan, as it does first
nate. I have planted somewhere in the vicinity of one hunared. somewhere ithe hist inici-

 off from ten to fifteen feet tight teaxing, only
a few it down on the other side, when the roots are
all loosened 1 tie $A$ rope to some of the

 crowding the roots; nougre a pail of water at

 the tree up and dowit as lithle ; trample the
siil down solid, and it is done. It it is best to
 nalf inches to three inches thick, and they
lame done well.
Sugar maple are to be prelare don
It is wonderful how w few nice trees inprove
the appearance of a place. I Inve heard the remark passed on orere thace. once that mat place
mate would sell for th thousand dollars more since I
planted my trees. If any person would offer me five dollars a-piece to have them renoved
I would not take it. Leet every reader of the ADvocany plant a fee trees thiss spring and
you will be well pleased that you did so, it you lo it well. If the summer be dry it will be necessary to water them sonetimes. I have
some that have made shootot over two feet long

timeiz hint.
See to it that your implenents are alt
mended if they require it, before they are
needed
det ureded. Get a stock of firewood clut ready
for summer, so as not to have to do it whei
 sour work ; don' let your work
The peck of McCarling Wheat which I got irom you did very yelling it yiededed sevenen buluh-
els of good, plump wheat. I like it very well
gEED hopper.
I have had a a owing Hopper made this win-
ter, which is a thing a great many farners have not got. It is made of the best tin, and cost one dollar and a hall. The bytom it tein
inches wide by two feet long, rounded at the
ould euds. The sides are ten inchess eeep and good dtiff mire is put in the top, and the side
that is dished is bent inwards so as to make rounding hollow to lie against the belly.
piece is put across the ceitre to strengti
 half way between the middle and ends, to fas
ten the strap to, which should be crossed be hind the shoulders.
This is my firt attempt to write for the
press. If
If waste basket. I Ilike your paper much, and
wish yon every succers?
Proonkssiox wish yon evely sincecs8\%
Rothasy, March, 1872 .
No, sir! Such communications as this is really useful and practical information,
just the kind we are in search just the kind we are in search of. Neve
mind about the polish, the facts are here The above article will do more good to the farmers of the country than the $\$ 95,000$ already expended at Mimicco, or tell times
that sum expended in issuing blue books hile sum expended in issuing bue books
filled with asstruse, long-drawn, technical ared
orations. We say this article is worth
hundreds of thouasds of dollara to the
country. What nonsense ! some will be
saying.
yein
 you can. First, a rractical farmer com-
mences by noticing that the real requiremences by noticing that the real require-
ments of farmers are oppressed by both
 ance, which induces the really practical
men to give their experience and publish to the world their practice without gid.But the reverse shows the great advance
in the value of property by the mert in the value op propert Our correspond-
planting of a few trees
ent ent has increased thae value of 100 acre slono, and how many hundred acres cam
be similarly increased in value. Is rain
bo bine to be obtained for our crops; is shade to
be had for our stock; is beauty, harmony and pleasantness to adorn uor country Where is comfort, refinement and pros
perity 3 where trees are, or where they perity ${ }^{\text {and }}$ Where trees ase or where the hat has been done by our
are Government to encourage the protection
of our trees, and what has been done t of our trees, and what , has been done t
have the poor settlers land denuded or have the poor settiers land denuded
timber W We speak with knowledge, feel timber No seak on timber taken from
ing heavily the loss of this article by "Progression". is
us. right ; it is what the coutry requires. The Government robbed us of our timber that we had nurtured and proteeted for our life, and from the immense surplus
they now have on hand derived from this they now have on hand, derived from thit
kind of robbery, they have not yet had kind honor to pay the settler his just and
the norable dues. Never mind ; the day will come, and that before long, when the farmers will be heard, when the destruc
tion of timber must cease, when planting trees must be done, not only in a small way for ornament, but to save our country fron famine, occasioned by lack of moist
ure for our crops
Go throuk our deso ure for our crops. Go through our deso
late tracts of country where once nothle late tracts of country where once nohie
forests stood, where settlers could raise crops, if protected by trees. See the poor sheep seeking in vain for shade; the parched, witted, staratation crops, not hal
the average they were. Still the trees are destroyed, and who plants or protects
dhem | Is it our laws? no ! it is progress hat hast to do it.
Write again; you have caused us to
nake this comment on your short letter-The ADVOCATE is open to you or to any
one else. Let our voices be heard ; the country in reality belongs to us. Let us rule it !
young cavadian" spraks.
Sir,-Your correspondent ", Rustic, pitches into "Young Canadian" for not
tollowing up his prelude, and showing the reason why "farming as a general thing Well, I suppose
Well, I suppose $h e$ will admit that the greater number of those engaged in agri-
cultural pursuits do not realize six per cent. on the capital invested, besides pay-
ins for themselves.
They may have done ing for themselves. They may have done
it in years gone by, when the land was new and in good heart, and when they
took no though the future, but the question is : is it done now?
They have ne regular system or proper
rotation of cropping, but keep on in the same ruts that their fathers made. If a field raised a good crop of wheat this
year, there is ne reason why it will not do the esame next, and so raising the save
crop year after year till their land is so crop year after year till their land is se
run out that it will not raise half what it used to and of poor quality at that. Then
they raise the cry that the grain is run nut, when in reality it is the soil. They try some of the new varieties, with little
or
or difference in the yield, and then the Agricutural Emporium , its seeds
re pronounced a humbug. They neve lover any except what is used for mealow, which is mowed as long as any can
be taken off, none being pastured except be taken off, none being pastured except
what cannot be put under, the plough Cattle are turned on the highways to do or die, and in the winter they are required to yo nearly a mile after water, where the
best part of the poor manue is lost. Im-
plements plements are left where they were
used ; a plough is left where it will necessary to have a winter road, and
the spring it is minus a handle; a harrow
is left in the same path, and the beat rendered useless by the teeth best horse not necessary to enlarye on this, for it has neen seen over and over again, and none
of those will see this for they do not read of those will see this

## gricultural papers. Here is another pro <br> un of farmers do not that the general

 Not one-fifth of the farmers of Canada ver see an agricultural paper. If you ask them to subscribe, they refinse, beingpenny wise and pound foolish," and they penny wise and pound foolsh,", and they
hink you are going to make a fortune if ou manage to squeeze a dollar out of hem. Of oourse there are honorable ex-
heptions to all this, such as "Rustic" but eeptions to all this, such as "Rustic", but
here is also vast room for improvement here is also vast room for improvement,
nd a great many more, like him, must nake up their minds to be the "best farhers in their respective townships," before pay,", as as ought our on . pay," as it ought to." will give practical
Perhaps "Rustio"
deas that will be of beeneit to others be. deas that will be of benefit on others be-
Young CANADIN.
dides ${ }_{\text {Mareh, }} 1872$.

BoRRowiNq MoNEY, ETCC
SIR,- Your number for March has just
reached me, and perhaps you will allow reached me, and perhaps you will allow
me space for a few remarks. First, with ne space for a few remarks. First, with
regard to your article headed "Cheap Mone" "I cannot quite agree with you. As a rule, a steady, industrious, baving ot so fast, without borrowing, and a man who does not possess these
pretty sure to loulities ise his farm. In
In some instances san active man might gaiu inde-
pendenc sooner by borrowing at a low pendence sooner by borrowing at a low
rate of interest for a few years, but an rate of interest for a few years, but an
unfavorabhl season or two might render him unable to meet his payments, and unlose his arr. The ouly two things which would justify a farmer in borrowiny money
for are draining and manure.
Building and rlanting trees yield do odirect return,
andess in the case of fruit trees, and then and
noless in the the case of fruit trees, and then
you must wait several years for your you must wait several years for four
money and an unusually severe winter or money, and an unusually severe winter or
the attacks of mice would nip your expec-
 satenst way is not to borrow at all; ; besides
a borrower might he tempted to speculate a borrower might he
and perhapss lose all.
I was rather surprised at Mr. Vick's remarks respectiny the constuption of fruit
in England. The climate has nothing to do with it, for up to the time I left, in
1830 , we always used fruit ad libitum 1830 , we always used fruit ad libitum,
when we could get it, strawberries and apples especially. However; the cholera
did not appear in England till 1832 , and I ackno wledge that a prejudice against fruit
was manifested at that time, and I supwas manifested at that, time, and 1 sup-
pose has hantinued since.
I would like to know the cause of smut in wheat. Smutty seed may sometimes cause it, but not always. I have know fall wheat to be sownh here so late, owing
to continued wet weather, that the ground was covered with snow before it was all up; it escaped winter-killing, and in the
month of June following looked as well as any wheat in the county, but when it headed out the smut appeared and de
stroyed about a third of the crop. The stroyed about a third of the crop. The
Inan who sowed the wheat used smutty
seed and treated it sed, and treated it with pickle, but no
lime. On the other hand lime. On the other hand, a few years
afterwards my next neighbor summer fal. afterwards my next neighbor summer fal
lowed a 22 acre field, part of which had lowed anen broken up for about 15 years.-
not be used smutty seed, but having no faith He e sued smutty seed, but having no faith
in steeps, sowed it dry about the 2oth of September. The fall was favorable, and came; it stood the winter well, and he had a good crop with no smut in it. I and liming both fall and spring wheat and
barley, althougb 1 believe the Glasgow barley, althougb I believe the Glasgow
wheat is not liable to smut. But the steeping makes the wheat swell and it comes up sooner. The fall before last I
used perfectly clean seed pickled and used perfectly clean sed, pickled and
limed, but, nevertheless, last harvest we found a few earrs of smut in one corner,
although the ground was aw dry and clean

| there as anywh |
| :--- |
| whom I sodilw | yhom I soil so

about the same ahout mer samet | mine. Some |
| :--- |
| tend |
| to o produc | tend to produc

tion main
Somy mat last year tha
know how to kanow have hai
asind har
kind of land,
 frese in the wo
defer this subj

## FARMER'S ADVOCATE.

there as anywhere else, but a neighbor to
whom I sold some seed and who sowed it about the same time, without steeping it,
had more smut in his wheat than I had in mine. Some other cause, therefore, must
tend to produce smut, besides smutty seed. tend to produce smut, besides smutty seed.
So many farmers had their land burnt last year that perhaps some would like to say I have had some experience with that kind of land, and shall now have more than ever in consequence of the extensive
fires in the woods last year. But I must defer this subject till another time

Sarawak, Co. Grey, March, 1872
We have frequently asked for criticism, and have said through the paper that we
would admit articles, should they either condemu or differ with us. We want open and fair discussions on any subject per-
taining to the farmer's interest. "C. J." taining to the farmer s interest. "C. J. mers having cheap money, but we do not see the reason why farmers should be compelied to pay 20 or 40 per cent., which we know has been done, and they would have the money market. The farmers are the first drawn on and the last accommodated. No doubt Mr. Vick saw England with Anerican eyes, and circumstances differ in
different parts and among different classes in England. We hope some of our subcribers will treat on the smut question. The smut in one corner of the field might have been occasioned by putting wheat in
a tlour bag. We know of no bette remedy than brining and liming the wheat.

## GOOD WORDS.

 Sir,-Will you kindly allow me space to have frequently heard remarks faverable $t$ tothe FARERS' ADOCATE in this neighbor hood, ant, having subsci ibes for a copy (what
every farmer should do, I find that it is all and more than I expected. A farmers' jourto all to express their views in, is, as a nedvaluable boon to the Dommion of Canada, and ought to be laryely supported by the ag,
ricultural community. We, as farmers, don't ies as we waut practical, useful suygestions ies as we wayt practical, useful suggestions
and information. We urge. tly need and must What, then, is better than for farmers to have a journal accessible to then, all giving infor-
mation on these very topics ? Learned discussions on flies, bats, etc., are all very well
in their way, but we have not time to attend in their way, but we have not time to attend
to such things, before we have gained time by first attending to the more urgent necessities
of the farm and the farmerss life. I would therefure suggest that the faruers shoul arE, and it will repay them a thousand-fold.
The piper is very popular here, and would would start clubs, or if a travelling agen Nisited these townships. For myself, I Intend
to take it and do what I car for its circulation.
Howard Township, March, 1872.
farmers' rights.
Sir,- - I admire your unflinching advocac,
of the arricultural interests of our country
Your editorials have the right ring. The Your editorials have the right ring. The far-
mers of this country do not occupy the posi tion in the Government they ought ot, and
they are very much to blame themselves, fo they, as a general thing, educate their brigh est sons for doctors or awyers, thire but little
those who are to be farmers require educa:ion aside from what they get on the I believe this is a great mistake. Every
farmer who is in circumstances to do it should
fit his sons for holding the best office in the fit his sons for holding the best offices in the
gift of the people, and then make acricultur gift of the people, and then make agricultur-
ista of them, for I assure you we will never get our rights as farmers until we get control
of the Government of the country. Why, air, the fact is, we have always been ruled by
a class of men who have had no interest in common with ours, men who have legislated to a great extent fur their own personal inter-
eata. $I$ think these men have ruled the coun-
try long enough, and I would advise every
agricultural constituency to select from ameng themselves some good, honest farmer who is conpetent to represent them in parliament;
hen, and not till then, will we get our rights. Simcoe, Marsch 9, 1872 .

## HORTICULTURE.

 If I am not taking up too mueh of yourvaluable space, I would like to say a few words on the best manner of planting trees, ever
rreens, \&c., as 1 am what 1 s calleu a lucky man methis respect. Many persons take up young trees by furce, dig a huvis, swing them hu, theil with their feet, expecting the tree to live, and wondering what has caused it to die. This wul nut do. 1 livk upon a tree as a thing
eudowed with life, just in the same way that mayy louk upon the horse and cow-the only
ditterence beng, the one is vegetable life, the ditherence bellag the one is vegetable hife,
if we wish to see a tree thrive, we must altend to wo requrenuents in the
same manuer that we wuld to any other same manuer
living thing.
My plan of
My plan of transplanting is this :-As soon
as the ground will ailow (the earlite the better) 1 thee a sharp axe and cut a circle around the
 cording to size; if the ground 18 frozen to a
depth of 3 or 4 diuches, ail the better, as the sull will then adhere classer to ther, futs. 1 dien take a strung, slarp spade, and drive
lown as far as pussible, so as to cut the underouts off cleau ; 1 next take them vut by means if a lever. All manyled and spit ruols stiould
ve cut away, so as to teave the wounds small. Luke carefully on a sleigh to holes duy to re-
teine ceive them; the holes slould be deep and
vide, and paruly filted witu rieh moud; uttie manure, periectly rutted, is very well ;
sule use rotlen wood and decayed leaves, bui indefer a rich mould. To set them properly
requires two persons-one to huld the tree crict, and the other to get his hands under-
iteah the buib and place every rout and thbre a as uear their original posithon as he cau,
ul m , being careful to pack the earth about ill in, being careful to pack che eartin about
ine roots, if tue earth is very dry, use a little water. Trampupg down with thie foot, as a
general rule, is quite weedless, and often tends
Wis Lo stop the growth. Many desolate--luokur
aomes here avmes here may be made nut only less deso
ate, but really' attractive, by the addition of
itew rees evertares a tew trees, evergreens and hlowers. 1 know
inany will say tuat there is ho pront attached itany will say tuat there is no pront attachee
10 this sort ur plantiug, and uthers that they are going to sell out an a few years. My
answer to this is, that they amply repay for nyy time or expense bestuwed upon them
enther in making the home cheertul and at tractive, or in tasising the value when you may
wish to sell out, as a well-planned homestend Wisil a ways
vill al
desolate one.

## Hosedeue, March, 1872.

## APIARY.

spring management of bees.
The past season has been very unfor-
tunate to the apiarian. The constant drought throughout Canada has placed
the bee-keeper in an unfavorable position for the coming season, stocks being so weak, they will requre extra care, and
many will perish for want of stores. The time has now arrived to examine all stoeks and ascertain their condition; they will
require a thorough cleaning out of all equire a bees, \&c. It their supply of honey is short, they should be supplied by takng refined sugar, three pounds to one quart of
water, makiuy a syrup of the censstency of houey, which can be fed either by taking out a card of comb and trickling it into the cells and replacing it, or by feeding
it at the top of the hive, which is preferable. There are many fixtures for teediug bees, and two kinds of material are used, is made with cotton attached to a cup, swer in a cold or damp place. I use one which is an improvement on the original, being made of zinc, in the form of a cup,
and perforated like a grater, let down into and perforated like a grater, let down int
the hole in the honey-board in reach, of the bees. This is the only safe and convenient feeder in use. By feeding in small
quantities and often you keep the boe
supplied until the season opens. Box
hives can be ted by inverting them and trickling the feed around the cluster of
bees ; care should be taken not to smear bees; care should is taken not to smear
them as the bee as puny insect that cannot stand the cold when damp. To assis
bees at this season of the year it is some times necessary to take cards with hone from the outside and place them in th centre of the hive, where they may get at
it. By so doing stocks may be saved that would perish if left to their. own tate until tores could beegathered, Spring feeding
timulates early broods, which is very ne essary in all cases. Rye meal may be put here bees can, getat it, in a dry plaee, to all top verntilation, in erder to get all the ccumulated heat for the maising of brood
B.
Loske.
Cobourg, March, 15, 1882.

## ADSDS.

NEW SERDE
Sin. - In the January namber of the Apvo-
 Y our enquiries had reterence to new varieiously seent yrain, samples oy were add that prewere grown in West Owritimbury, from seed 1
receved from Englaud late in April last, and that I did not start on equal termis with neigh-
$\qquad$ Of all wheat lenown, the April Wheat if piauted two weeks before it, will be one bean acre abead. 1 the thatter in most seasons,
It was so un all easess that came under notice
 this. 1571 was a most untoward season for
mported seeds, beung too dzy and hot tor grain thit had to seclumatize itseef. April wneat when first plauted in England, was brown and
thin; two yeurs tater it hat becouse bright and
 sowing will tiflectiavilhat canbe desired, an
constinute it a tavorite. 1 ae nuvice in growing wheats or grain, Mr. Editor. Upwards
of 40 hrosts lave fallent tome in Hagland and Canada. Sc entutic firming will always beal
scowl-of-brow in the matter of growing priz wheat, and it is as simple ang the make up
a field that will grow the finest quality of Wheat, as to fix or mix a plum pudd
The Gulden Mellon barley I introduced into Canada in order that the best two-rowed sort
known should have a trial. It succeeded admirably, and will be found the moont valuable of all barleys, and as the elimate suits bariey
so well, I think a sloort time oply will elapse
 ready solu in England. Dine qualities there
command 4c. yer quart, erisi.3w per bushel.
The Early Providence is a zrey, feed pea, and the greatest crapper I have ever known.
They are scaseely ever below 40 ; but often They arv scaweely ever below 40 ; but often
yield from 50 to 06 oushoele per acre. Land
toe rich would not be the best fer them; they oo rich wouldnotbe the beer ior them; they
grow about enough atraw anywhers ele, nothmg exce
them.
The Ilorse Beans are Canadian grown too. country. They require, previous to planting,
then cultivation, to be sowed in drils about 12 inches apart, and once to be hoed when or 4 inches high. Land nay be uver-rich for
them, but that is net ctient he case. A keen, sandy, or rocky soil is not suitable, almust any other wild al. Thie Horse Beans are the mus celled as feed tor calves. Yours truly,
Bondhead, Ont., Yeb. 27, I\$72. A.
Sir,-The Execelsior Peas I I purchased from
Sur id uncommonly well last season, vielding me d3 bushels per acre, while the old variety that I had only produeed-about 92 busheis
per aere.
Wanstead, Mar. 6, 1872.

## the fotato.

Sir, -There are so many theories affoat
regarding potato culture, that perbaps any regarding potato culture, that perhaps any-
thing more on that subject may be thought superfluens; however, I would like to have
my say with the rest, and what I have to say my say. with the rest, and what I have to say
has reference to the kind, ot meed to plant.
have heard some say, that small spotatoes were olieve it. I believe that the petate has been aken from a wild state, incwhich it was no ore than palatabla, and improvec by carefil present state of perfection (haying nop rival as n article of yegetable, fond, bread alone excepted), and it eft to itself its datural ten-
dency is to degenerate to the oricial wild
state ; and in order te prevent 1 trom so state; and in order to preyentt it from so
degenerating it is neceegryy not only to care-
fuly select the most perfect tubers for seed, ny select the most perfect tubers for seed. by geting now -arieties or ohianging the same seed, I would select noty, ontly the Iaregest but
the most perfectly-shaped and sound tubers the most perrectly-sbaped and sound tubers,
cut to single eyes. as too many eves cause the
tups to grow spiadty and you will have a great many small ones. Hf yot nust plant, whole
patatees, ent eff the seed ent and throw petate
away.
Fenelon Falls, Maroh, 1872
THE TRARM.
bakage in themard.
Sir, -I have been much iuppessed this
winter with a source of waste which extend winter with a source of waste which extends or less degree -viz: the deakage from our yands. In my owna case and in many others
which have been observed, thu liwuid manure - which is the mosest yofuable tund manure
and large - which is the most yauable- And a, large
portion of the soluble parte of the solid excre-
ments, find their way more or ments, find their way, more or less directly,
to a creek or swate, and are etther entirely or in a creek or swaae, aut measure lost. It is generally be-
ineved that these contain the snbstances
liest lieved that these contain the subsstanaes most
suitable for the nourisbment and growth of suitable for the nowistsment and growth of
plants. A dung-heap, thoroughly leached, plants. A dung-heap, thozoughly leached,
though still valuable, has lost its real strength, and is comparatively worrthesess; the e leanching
process is seldom quite complete, but there is oocess is seldom quite complete, but there is
no doubt that the aggregate loss is immense. Compost heaps and the use of dry earth and
other absorbents would be of nuch value ; ther absorbents woulla be of nuch value;
but it is very difficult to compost in our clibut it is very difficult to compost in our cli-
nate in the winter, and when spring opens eate time and harvest follow one anothers so
rapidy that we have little time to attend to rapidly that we have little time to attend to
such things ; the high price if labor and the low price of preduce are alse against improvement in this and in other direetions. There
is ofton nueh loss also from the escape of the is ofton mueh loss asiao from the ascape of the
volatile, pootions of manure. This, I think, may be prevented, at least in part, by the use of gypaum. About six. weelps sao my manure
heap was giving off dense cloud of gas, with heap was giving ortronse odour ; I procured a
couple of barrels of gysuun, and scatterel about lialf a bushel over the heaps and yard
next moraing there was no senible escape,
any kind. I have nted a little more than next morning there was no sensible enctaper a
any kind. I have nsted a litte more than ia
barrel since, in the, yaxd mad stablea, with the



Whar Enchisuenat horges shil yoz Perhaps many of your reaciers would like to
hear of the prices working cart-hursebs sellat in

 as such on the Liverroool docks. The toack consisted, with one exception, of geldings and and
maren, and were Lought frir worker.. Mr.
Tipping died a few, weeks ninoe, and the sale Wap eutirely with wit reks ninoe, and the sale
administratora of his ortate. The order of the

 in weight; and a finer collection of nound, great,
nuscular horses, just from hard work, have muscular horsees, just from hard work, have
probably never been collected at one eale. Al Al
most every one of thema showed fine style and It is especially worthy of notice that It is especialy worthy of notice that the
above were not fancy prices for beeding ani
male, nearly all of them were, eveling, but
every horse was purchased for workin Another
item should also be noted. Wirth horses at


Hoc hair is recommended for hens' nests by
a correspondent of the $W$ orlet. He says hens citting in these nests have nc ver been infeated With fice. Hen lice in hog's hair won't stay.
These nests we select for latching our 0 wi
chickupas.

## FARMER'S ADVOCATE

winter farming.
Sir,-Viewed from an English stand point there is tustly entitled to high commendation Foremost must be placed the indefatigable industry of the farmers themselves, which I am bound to state, surpasses that of
similar communities Im every country I have visited. And there is much also conuected with grain-growing, land, culture, and dairying, worthy of laudable mention, which I must pass in order to arrive
subject of the following remarks.
As I understand, Winter Farming conAs I understand, Winter Farming con-
sists in the production of roots, the tending of stock, and the conversion of straw
into manure; with the object of making into manure; with the object of making
money beyond what may be needed to pay money beyond what may be needed to pay,
the chorer. Whan roots are not grown, there is no Winter Farming, no money consolatory to numbers, no expenses incurred. Many pursue this course through the notion that to feed better would not pay,
while others do the same their fathers did, -at any rate there is a conflict of opinion -the consequence of which is that poor young animals have to get a living at a ter contracts their growth, as it doem that of the pocket. This, Mr. Editor, is the weak feature in Canadian farming. It re sembles a man fighting with one arm tied,
and however well grain may have told in profits diminish during winter, through not receiving a proportionate return from live stock. The evil does not rest here. Your
beef will not find a foreign beef will not find a foreign market, nor
command a remunerative price, where this wretched wintering is practised. There is no quality about it. Contrast the beef from a steer turned out to grass in nice
thrifty condition, with one turned out thrifty condition, with one turnell out
bag of bones. The one is fit to kill in the fall, the other requires a winter's feeding. And no roots being grown, it is sold, an other feeds and sets all the profit. Turnip growing is comparatively luexpensive
this country, as it can be done without purchasiñ artificial manures. The soil is admirably suitable,the climate fair enough and the quality for fattening excellent.This is not all, straw goes further with improved, gives greater returns of grain,
and lasts much longer. The farm yearly increases in richness, all crops present becoming less year by year, it is steadily on the increase. So much for the land. Let us consider the stock. It does not
pay to keep cattle on straw, inasmuch as the slight growth made during winter is farther than this, a beast is only payin well wheu, in addition to growth, the flesh increases too. Mere growth is not suffi cient, weight must be aducd to at the same profit progressing. Turnips, or roots, are the sheet anchor of agriculture : the secret of Winter Farming.
To any man with 100 acres I would say,
grow 3 or 4 acres of roots, grow riety in this fashion: 1 acres of roots and a va common turnips for early fall use; 2 acree Swedish turnip, main winter crop; and 1 acre of mangel for spring use; a few carrots, and sow all early. Common turnips are invaluable for early use--through Oc-
tober and November-and should be fed to stock so as to prevent their losing a pound of flesh-which is the case when
pastures begin to fail. When they pastures begin to fail. When they are
consumed Swedes are ready ; and these consumed Swedes are ready; and these
being gone, Mangels are fit. Hogs account well for the latter.
I see you have excellent varieties of
Farm Seeds, Mr. Editor, which are worthy of trial.
Turnips properly fed retur a Turnips properly fed return a profit of season. Three acres cleared $\$ 200$. What pays as well $\}$ This proves that money can be made during winter. Far bette at least are winter farmers.
Yours, J. A. Howinges,

Flowers.
Flowers.
Many of our agricultural friends have
not as yet been able to derote attention to not as yet been able to devote attention to
flowers, and some in distant parts seldom flowers, and some in distant parts seldom
see one. We give this month a few illus trations.

dahlia.


The Dahlia is a beautiful flower, but requires more care than the majority of farmers can afford, as the bulbs have
taken up and stored away in the fall. hose that can
The Asters are now attaining such per fection as to almost rival the Dahlias.They can be raised by any one in the open whole plant. For early flowers, plant in abox in the house, if you have not a hot bed, and very few farmers have. 'They should be planted
in the flower bed.
in the flower bed.
The Petunia is one of the most durable flowers. It will fill a garden with flowers when others are gone-at least it has filler ours. It makes a very nice box plant to
train on a small trellis, and place in a window, Some of the new varieties are very beautiful.
These engravings will call your attention to the class

## нот beds.

Hot beds facilitate germination, protect damp weather may destroy the vitality of good seed, and a slight frost often des


ASTERS

ouble,
roys a whole garden of see too early in the open air. The safest and $\begin{aligned} & \text { ever. is required to prevent scorching the } \\ & \text { young plants. In bright days the heat }\end{aligned}$ best way is to raise them in hot beds. By intense inside the frame. and unless air eing protected at the sides and ends with
boards, and covered with glass, they con-
struct given, or some course taken to to on fine the moisture which arises from the $\begin{aligned} & \text { great portion of of the plants will be ruined }\end{aligned}$ carth, and thus the atmosphere is kept When the sun gets pretty warm, give the humid and the surface moist, and the plants are not subjected to changes of maintained, no matter what the weather nay be. The bottom heat of the hot-bed warms the soil, and enables the grower to
put in his seed early, and obtain plants of good size before the soil outside is warm
ch pola sio li. Then set inches of good mello hesod until fermentation takes place and ait it is better to the seeds. The principal and then sow ot-bed can be secured by what is called old-frame. This is simply a called rame, with sash, placed upon a bed of ine, mellow earth, in some sheltered place and the admission of sun the earth be comes warm, and the moisture is confined as in the hot-bed. Aiter the frame is se cured in its place, a couple of inches of rame closed up for a day or twe and the ceds are planted. As the cold-frame de ends upon the sun for its warmth, it nust not be started as soon as the hottpril is soon enourh. Plants will then of arge enough for transplanting to the open ground as soon as danger from frost is
over, and, as a general thing, they will be hardier and betterable to endure the shock of transplanting, than if grown in a hotmanage. Watering occasionally will be necessary; and air must be given on bright, warm days. Shade also is neces-
sary. These frames, when so small as to sary. These frames, when so small as to ce conveniently moved hand-glasses. A simple frame or box, with a couple of lights of glass on the top, will answer a very good purpose,
though when small it would be better to have the front of glass. A very god hand-glass is made of a square frame, with a light of glass at each side and on the top. These contrivances, though so simple as to ex made by any one handy with tools, are drying of the surface of the ground, and afford the plants shelter from sudden changes of the te
and frosty nights
the soll and The best soil for most flowers, and especially for young plants, and for seedbeds, is a mellow loam, containing so much
sand that it will not bake after hard showers. If we have not such a soil, we nust, of course, use the best we have. A ittle sand, or ashes and manure, and by pretty constant working. It must not, however, be handled when too wet. Al-
ways drain the flower garden so that no ways drain the flower garden so that no
water will be on or near the surface.-
Dent Don't try to grow good flowers in a poor
soil. Always have a little pile of manure in some outer corner. It is as convenient as money in the purse. Those who keep ure enough ; but those who have no such pportunity can get a load of sods from rome meadow or the sides of the road, lay soaking with soap-suds on washing days. When the leaves fall, get all you can handily and throw them upon the pile, and no one will be able to boast of better
flower-food; in fact, this is the very poe-flower-food; in
try of manure.

Suggested Items-No. 3.
Frieni Advocate,-I have just finish. ed reading "What I Know of Farming," must say, let him be wild on politics or Canadian annexation, he is sound on farming, especially on farmers making their
dullest and slowest sons farmers, thinking ullest and slowest sons farmers, thinking
that anything in the shape of a man is good euough for the farm. I I o believe that the time is not far distant when armers and farmers' sons will rise to the them fill-when the Farmer will stand at the head of the class instead of the foot, when we shall have an agriculture worthy the name; and as the Farmer is the bone and muscle of Canada, as much and
think more than most other nations, they slould be the smartest and the best men of thy family. And to the parents I would
misspent in
farm. It is though pos
that I have that I have :
hold that eve the nature o supplying t
would not would not say he work Now, brot
said enough certain: we
well as we $m$ well as we $n$
I do not, at better. Onc others, it is
we for the $u$ ment. I co
tell us a litt tell us a litt
I mean prac
tell some of
The clove
turned out $6 \frac{1}{2}$ bushels
yield, I adm yeld, thoug
fully that
dry, the any good se
it cost $\$ 5$ fo els for $\$ 6 \mathrm{pe}$
was worth a man $\$ 2 \mathrm{fo}$
and hauling and hauling and board
half day
$6 \frac{1}{2}$ bushels I am a be
the an ingly, in th
of Arnold's
A Arnola, of
took a peck
Of No. 9 I leaving 10
thrashed and kept
planted 10 planted 10
ed 15 lbs.
15 lbs., go $15 \mathrm{lbs}$. , go
hs., got 7
extra goo extra good $1 \frac{1}{2}$ acres.
bushels for cheap; but anything $n$ anything $n$
lying flat green col
out. We
heads. I heads. It about Septe
loth a bett
was secd we acre. Th wheat
looking.
as last, I as last,
tested.
and by. March
Mow like
March bet March bet
Rockton


## or eighteen in-

 face. 0 n thisof good mellow ne and keep it
takes place and
It is better to is, and then sow advantages of
what is called mply a hot-bed
upon a bed of e sheltered place
xclusion of air a the earth bethe frame is sele of inches of 1 inside, and the
or two before the e cold-frame de-
its warmth, it oon as the hot
he latter part
not ting to the open r from frost is
ng, they will be endure the shock
grown in a hot. kind any one can ind any one can
sionally will be
st be given de also is necess
de so small as to y the hand, are hts of glass on y good purpose,
uld be better to A very good
guare frame, with $e$ and on the top.
h so simple as to h so simple as to
y with tools, are ley prevent the
the ground, and er from sudden
ure, cold storm reparation. flowers, and es-
, and for seedntaining so much
bake after hard $t$ such a soil, we a improved by a
manure, and by It must not,
on too wet. Alrden so that
the surface. owers in a po
c pile of manu is as convenient Chose who keep
urse, have manho have no such
ad of sods from of the road, lay d give them as upon the pile,
boast of better boast of better
is the very poe-
-No. 3
have just fnish. Greeley," and I
$d$ on politics or sound on farmarmers, thinking pe of a man is
n. I do believe
$r$ distant when will rise to the er will stand at iculture worthy mer is the bone er mations, they
er men parents I would
misspent in educating your boys for the where A represents the barn, B the shed, farm. It is a source of regret to myself that I have so poor an education; for I do the nature of soils, and of plants, and of supplying to each what they require.
would not say that no man but an educa ed man will succeed in farming, but I do say he works at a great disadvantage. said enough on education. One thing is certain: we do not use what we have as well as we might. I can speak for myself. I do not, at any rate, but intend using
better. One blessing is, that when we use our own experience, or the experience of others, it is none the worse for using, nor we for the using of these faculties of judg
ment. I could wish every farmer would tell us a little of his experience in farming I mean practical farming. I will, at least tell some of mine.
The clover that I spoke of in my last 61. bushels of very nice seed (not a big
yield, I admit), off about 6 acres; but I fully thought, the season being so very
dry, that there would have been searoely any good seed. I had a clover machine cost $\$ 8$ per bushel. Now let us see if els for $\$ 6$ per bushel. Now
was worth the trouble. To cut it, I paid a man $\$ 2$ for two days' work; the raking
and hauling to the barn, say $\$ 3$; threshing, and hauling to the barn, say $\$ 3$; threshing,
and board of two teams and three men one half day, say $\$ 6.50$; total cost $\$ 11.50$ the cost, and there is left $\$ 28.50$.
I am a believer in new seeds. Accord-
ingly, in the fall of $18 \%$, I bought a bushel Arnold, of Pariss which cost from Mr. C took a peck of different numbers, $1,7,8,9$.
Of No. 9 I sold 5 pounds to a neighbor, leaving 10 pounds. Off the 55 pounds we
thrashed 40 bushols. We were careful and kept each number pure. No. 9-I and kept each number pure. No. 9-1
planted 10 lbs., got $9 \frac{1}{2}$ bush. . No. 1 -plant-
ed $15 \mathrm{lbs} .$, got $12 \frac{1}{2}$ bush.; No. 8 -plauted ed 15 lbs., got $12 \frac{1}{2}$ bush.; No. 8-planted
15 lbs., got $10 \frac{1}{2}$ bush., No. $7-$ planted 15 s., got $7 \frac{1}{2}$ bush. We did not sow it ou
xtra good ground; used about ten loads of barn-yard manure. We sowed it over
14 14 acres. In the fall of 1871 I sold 10
bushels. for $\$ 2$ per bushel. It was too
chear. but it is hard to get the worth of anything new. It stood the winter well,
lying flat to the grouncl, having a dark green colour. Its chief merit is stooling heads. It is a bolld variety, with straw loth September, and cut it 15 th July. It was a better sample of wheat than the
secd we bought. I have sowed 17 acrese
of it; sowed a little over a bushel to the acre. The ground being dry, and the
wheat late sowed, it is not very thick looking. If it turns out as well this yea tested. I I will give a full account of it by March came in like a lamb, but it is
now like a lion. But I like a stormy now like a lion. But I like a storm
March better than a stormy May.
Hockace.

## Conversion of farm buildinas.

> thued from February Number. At the conclusion of my last I promised arising from the conversion of grain barns Before doing so allow me to give anothe mode of arraugement which embodies
few more advautages than any yet given. Farmers who have regular driving barns very often find that they are not exactly into; also, farmers having no tool house of any kind lose sadly every year by win By the proposed arrangement a ver convenient tool house is also formed. Instead of having the ends of the barn
and shed and one side of the cellar in line as shown in Fig. 3 in my last article, ar-

\section*{| $\mathbf{A}$ |  |
| :---: | :---: |
|  |  |
|  |  |
|  |  |} and C the cellar.

The corner (enclosed gram) thus formed by the end of the barn of the cellar, would make the tool house
by simply enclosing it, and extending the
roof of the cellar over it.
The advantages gained by the conver 1 st . We have comfortable stabling for all our cattle. [The stable should be bat-
tened on the outside, and also lined inside on the sides or ends exposed to either the north, east or west wiuds.] This is very ways of wintering cattle, viz.: letting them run around a straw stack in an open yard, and feeding them in stables, will admit cheapest fodder in the world."
2nd Over the cellar is a building as high as the harn, which gives us room for the straw. ya the front of this building door, so that when thrashing the straw may be run from the carriers into the building. A better way than this could
be obtained by hewing the door in a gothi be obtained by hewing the door in a gothi
peak on the roof of the building. The old plan of having the straw in the yard and throwing off portions every day to be
trampled down by the cattle, sheep and horses, and washed by all the rains and practice which cannot be too greatly de precated. Some may say they could no get half their straw rotted if they did not
spread it on the yard. Give your stock spread it on the yard. Give your stock
ample bedding-bedding until that big poultice (for it looks like one) of manure which adorns the sides and hind quarter of your beet cattle, disappears, and the
see if your straw is not all in the manur pile by spring. If it is not, then you raise pine much grain and too little stock.
The floor of the stable should be tight, and slightly inclined towards the water tight gutter which runs behind the cattle
If you have a straw-cutter that runs by horse-power, as you should have, then cut
all the bedding, and fill and keep filled the gutter. the manure, providing you have a shed to put it under. Some may think the gutter
would freeze full ; but they are mistaken, would freeze full; but they are mistaken,
if the stable be built as I have advisol have the idea that the gutter should have a slight inclination in orter to run of th
liquid manure. This is, however, unable, because, as I have said, the cut straw will absorb all the water, and thus save the best part of the manure, whilst, if the
gutter has an inclination, then the liquid manure runs out and is lost.
3rd. We have cellar room enough at the barn for all our roots.
This is more important than would ap
pear at first sight. In the first place han pear at first sight. In the first place, hav
ing the roots where we want to feed the we get rid of the miserable business of
carrying them on the back from the house carrying them on the back from the house.
Secondly, we can preserve the roots better Secondly, we can preserve the roots
because, by building a ventilator two feet square from the cellar to the roof, which may be closed or opened at pleasure,
together with a slat floor under the roots and raised on scautling about four inches am the ground, we can ventilate them
as windows in a house cellar will ventilate sufficiently, and so they will; but the objection is, you cannot open a window in
midwinter to let off foul air without the roots which are nearest the windows freezing. But the most important of all the points gained by the barn-cellar is that of better general health in the family. None sand bushels of turnips and other roots under a house is both disagreeable and un-
healthy. New Durham, March, 1872, B.J.P.

Wantus 젰parturent.

## Uncle Tom's Corner.





















## 

 There are so many bri, ht spots. in the lift of Ge to live the life over again; I I should almost be willing to be a girl if it were not for thechores. Thero is a great c mfort $\mathrm{t}, \mathrm{a}$ boy in chores. Yhere is a great e mort of a ong in
the amount of work he an grt rid of diong.
It is sometimes astonishing how slow ho can It is sometimos, astooishing how slow ho can
get on an errand ho who loand the ochool in
ace. The world is new and interesting to him
and
 and there is so much to take his attenti n in
when he is zent to do anthing. Perrapp ho
couldn't explain, himself, why, when ho ie sent couldn't explain, himself, why, when ho is sent
to the eneighbur, after yeast, he tops to otone to the neighbour' a ater yeast, he stops to sont
the froms, he in ont exactly cruel, but he wants
to sce if he can hit 'em. No other living thing
 a woodchuck in an alj jining lot, when he givers
chase to it fike a deer ; and it it i , curious fact
about boys, that two will be a great deal slower about oys, that two will be a great cleal slower
n doing anthing than one, and the more y you
have to help on a a piece of o orik the leas is accom have to hetpon a piece of worer in helping each
pilished. Boys have a power in
other to do nothing; and they are so nnocent about it and unconscious! "I went as quick
as ever I could," sayz one boy, wien his father
asks lim why he diln't stay all nid asks him why he didn't stay all nikht, when he
has been hbsent three haurs on ten minute
hrraul. The sarcasm has no effect upon th erraud. The garcasm has no effect upon the
boy. (Going after the conws was a serious thing
in iny
 tould any hoy pass by those erries? An
then, in the frarant hill pature, there were
beds of wiuter treen with red berries, tufts o columbine, roots of saisafras $t$, be dug. an
a dozen of things gool to eat or to smell, which
I could not resist, In a dozen of things good to eat or to sme liy in my
I could not resist. It sometimes ven lay in
way to climb a tree for a crow n nest, or to swin in the top, or to see if 1 cuul. see the st eple
the evilaze church. It became very inp intant
sometimes for me to see the steeple; and in th sometimes for me to see the steeple ; and in th
midst of my investigations the tin horn would
blow a great blat from the farm house, which blow a great blast from the farm house, which
would gead a cold chill down my lack in the
 like the sweot tuote that called us to dinner from
the hay field.. Why on earth doesnnt that boy
 cows had to start into a brisk pace and make
up for loat time. I wonder if any boy ever
drove the cow home late, who did not tay that
the cows were at the further end of the pasture
 and ho couldn't find her for ever mo long: The
brindle cow is the boy's scapogoat many a time. brinde cow in kows how to appreciate a h hliday
No other boy kow the farm-boy does ; and his best onea are of as the farm-boy does; and his best ones are of a
peculiar kind. Going fishing is, of course, one



## FARMER'S 'ADVOCATE.

## The farm.



 pelisatele
 questions anit tupices wincti itfitect the general


 intormatiou that may be derived to all con
 croviuiug exaelenees of suck orgaiuz tionse


 Wiscontin Republican?
${ }_{\text {Formers we woul call }}^{\text {Tour attontion }}$ You cant pee what others aut of uit Liot
us confute this statement! Try your
pens; the advantages are on your side, and pens; the advantages are on your side, and show that farmers have feelings as well as other persons. We agree with the firs
portion of the above article, but the las sentence we allow to appear on purpose to you a text for the vindication of your position.-[ED.]
It is a sybtem of tillage and farm ment that is self-sustaining, a system that takes nothing but the ble land, the domestic animals, the farm implements and machinery
and cultivates the soil, sustains the family and the animals, pays the annual taxes, defrays the expenses incident to the improverents that
must be made on the farms, cancels the annua interest on the money invested in the land
eventually pays for the land, all from the pro
ducts of the soil cultivated and fite uucts of the soil cultivated; and after one, two
or three decades or years, leaves every acre in a far better state of fertility than the soil wa at the beginniug. This is high farming,
There are untold numbers of quet, unobtrusive tillers of the soil in many of our State
who who have commenced precisely as we have
indicated, without one dollar of cash capital
who have had no Who hate har resources of their cultivated field and who have, by hard work and judicious management, sustained their samilies, paid for all their valuable improvements, and at the
same time have brought their land up to the same time have brought their land up to that
state of prodnetiveness by their udicionmanagement, that every acre now yields from
two to three tons of hay where only one wa originally gathered, and they harvest nearly two-of cereal grain, where the product wa but one bushel. That is high farming. Yet
such a system of husbandry is usually sneered such a system of husbandry is usually sneered
at, simply because the proprietor knew how
to to sive his money to defray the expenses of
improvenents, rather than spend three times more than he made. $-N$. Y. Observer.
FALL MANCRING For corn.
The Vermort Farmer says that farmers
usually have more or less manure in yards at usualy have more or less manure in yards at
this sean of the ear, which ean be hauled on
to the sround now while the surface is hard bet. ter than in the spring. We know farmers who
scrap, the yards in the fall and leave the man.
ure in mall heaps during tho scrap. the yards in the fall and leave the man
ure in mall heaps during the winter.
spreat it and ploug
 to tie upon the surface until near planting time,
its juives are carried into the sod by falling
rains and melting snow, so that its fertilizing rains and melting siow, so that its fertilizing
matter is more ace sesible, the sod is enriched,
the growth of hie grasses in fall and spring is stimulated, which gives a gre en crop to to plow
in, and there is a heavier sod to deay and for
nith food for the growing cor These causes in, and there is a heavier sod to deray and cur-s
nith food for the growing o or. These causes
or some of them are very potent in the effect
the they produce on the crop.
We have no hesetitation in saying that twelve
loa's to the acre, spread the first of October lo 's sto the acre, spreal the first of October
and allowed to lie until planting time liefore be-
ing turned under. are equal in the effiect they produce on the corn crqu to twenty lads apy-
ppied and plowed in, the usal way in the
pring We made the discovery by accident spring. We made the discovery wy accident
ten years ago and have practiced it with un-
varying success since.

## What fabmers need. What farners need would be a

ell. The first thing is greater enthusiasm in their profession. Farmers generally place
too low an estimate on there calling; they
jnd Seeing merchants, lawyers, middlemen, getting noney rapidly, making fortunes in a single
season, they bewail the slow progress to wastht their avocation compels. But is there
nothing desirable but money? The westhetical probatiiitics (f the educated farmer are be ond those of any other profession. Read,
rving's sketch of " Rural Life in England,' ir Whitehead is "Pastoral," and say if any picture the artist ever placed on canvas equal
those described by these writers. However
the the farmer may be placed, or wherever he has
in his hands the means to tonch here and here the canvas, and make it more beautifu his fac-similil with an artist't aspiriations, and
change and beautify it. making it to " bud and change and beautify it, making it to "bud and
blossom as the rose." A group of treos,
single tree, will change the face of the landraise it sometimes from inanity to an almost speaking intelligence. Who has ever planted
a tree and has not felt an interest in its growth
beyond that of trees planted by others ? If a beyond that of trees planted by others ? If a
fruit tree, has he not watohed daily the de-
velopment of the fruit from flower to full-
ripened richness ? and when, at last, full of ripened richness \} and when, at last, full o
the summer's sun and dew and rain, it la
fallen to the ground, has he not taken it care hie summers sun and der and rain, it caas
fallen to the ground, has he not taken it care-
fully up. exhibited it to others, and waited many days with a sort of fondness akin to
relationstip before sacrificing it on the altar of taste? An apple on the bough is more than an apple to him who planted. tende
saw it through infancy, youth and age. saw it thruugh infancy, youth and age.
When the farmer considers that he owe
more to the farm than that dces to him, more to the farm than that dces to him, h will begin to be worthy of it. It teache
justice. It will give, but it must also eive, and its giving will be in proportion to takes our crude gifts and changes them int
refined, and returns them "things of beauty."
it will her It will have us near ; will have cur care an ympathy. The farm teaches integrity. N well done; ycu must sow
cannot good figs for thistles.
gou may cheat
You yourself, your neighbours, but you cannot
deceive the farm. When the farmer learns these things, he is better than money can
ake liim. The farmer needs perseveranct nake him. The farmer needs perseverance im follo
iunnph. triumph.
(and it is
out that
ane ee, for instance thats often witnessed. We rop the whole attention will be given to sheep,
reverse comes, and then "pelting" will be he order of the day. Now, when pork is at provision for a future crop, and the result will se no hogs, or few, fur sale when prices are
emmerative. The same is true of horses, remunerative. The same is true of horses, a
large crop and a small demand , and too little
attention to breeding such as will pay.-S. B.

想ary 琞rpartment.
I. A. Willard's Address

(Conculucel.)
Nothing struck me with more fore than
He caie taken by the chedidar dariven
 bundance of good, clear, running water;
here are no filthy pools or mud hoies; the niiking sheds are open on one side, and pave
with st ne and centent. There is sufficient incline back of the cows to carry off all filth,
and a fter milking all di ppinns are removed,
and the floors and guters tlished with water and the floors and gutters flushed with water, I am convinced that unless the dairymen of America commence at once to pay attention to
cleanliness in pastures, not onl; in regard to scounginess holes, butut he erandication of weeds,
providing stock with an abundance of fres c'ean water, together wifh attention to curin strip us in the race for making fine goods. The factury sistem is now being established in Europe, our inventions and appliances are
eagerly cought after, and every gool thing dis
covered by us is and covered by us is adopted in England, Sveden,
Gernany, Kussia, Holland, and Switzerland. Now, understandirg the cause and its effects,
we can apply the reme ly. I have no doub that the terrible die ease known under the
name of "milk sickness." so prevalent in Indiana and other parts of the West durins
the hot weather, will he traced to certain spe the hot weazher, wilt be traced to certain spe-
cies of fungi in the milk derived from bad
water or from some vegetable decomposition water or from some vegetable decomposition.
These enter the circulation of the animal and
poison the milk, and it is not the result of poison the milk, and it is not the result
any noisonous piant that the cows eat.
Mr. Willard then went Mr. Willard then went on to urge the ne
cessity of impressing the patrons with the
importance of following these rules of clean liness, of keeping a daily record of the condition of all milk delivered, of imposing
fine and lowering the per centage of profit the a person who persister centage of delivering mille
from over-heated cows, or from cows tep on pastures suhbect or the abowse kept up
mentioned. The longer this decided mentioned. The longer this decided course
is delayed, the more money is thrown awa in wanton, useless waste. He then proceeded
to show the electrical influences of a thunder show the electrical influences of a thunder
storm upon milk, recounting some of the ex periments on eleccricity by one of the earliest
experimenters, Andrew Cross, a native experimenters, Andrew Cross, a native of
Somersetshire. After describing many of th Somersetshire. After describing many of the
results of Mr. Cross's revearchea, ho went on
to my :-

The influence of electrical action is a ques. on entirely new to the dairy public; but it is kestions present themselves for our consideraon. When the electrical equilibrium is dis-
urbed, or when the state of the dicates a preponderance of negative elec tricity we are made aware of the neagt by its de--
pressing influences. At such times it is in pressing to take more than ordinary care important to take more - han ordinary care ini
the handing of milk-that it be ket out of
harmful odours- that attention be directed to. armful odours- that attention be directed to
its aeration, and such treatneut be given it
as shall be inimical to the growth or developent of fungi.
And asain, the fact that milk may be kept
sweet a long time $n$ hot water by electical ction, will ofier a very important sugecticacal
andion onventors in the preservation of sugifestion
ond
erhaps in the improvement of cheese at partopies. I have dwelt upon this matter of milk, and
he curing of cheese because they are the livag vital questions of the day. Dairymen to be alarmed at the introduction of the system into England, with its cheap labour and
immense field, of good dairy land, for the eay
may come when their soods may be placed in nay come when their soods may be placed in
competition with ours in our own market After passing a glowing eulogiun upon
those already in the work of the factury system in Americs, Mr. Willard traced the shief reason of so much failure in the production
of a first-class article t the dead weight of
farmers who will not think farmers why will hut act, who hang back an I settle thenselves Hot act, who hang back anl settle thenselves
donn iu the eld rut,
lieve inners who do not becouventions, who whine at luw prices, who and yrumhle because it is not made into gilt-
and edged cheese.
It is this dead weight-this living corpse-
hat is thus day paraissing our eflorts for prothat is this day paraissing our eflorts for pro-
gress and impruvement. I see these men everywhere in my travels, they have rhinoce-
ros lides, they are wrapped up in their own rus lides, they aie wrapped up in their own
conceit and will not beliteve, they have no eyes to see, and their ears are tov long to hear.
Uh! my friends, it is this class which the proOh! my friends, it is this class which the pro-
gressive dairymen of the age are obliged to gressive cairymen of the age are obliged
lift and carry along by main strength. It we
could ouly reach these men- if we could only induce farmers to improve-to make that progress which the age and the eheese-making
art now denands-our progress would be alart now delmands-our progress would be al-
nost bundless, and the prosperity of the
dairy interest would be beyund peradventre dairy interest would be beyond peradventure,
The sptaker instanced the market pice The steaker instanced the market price
obtained for his butter by Cul. George E.
Warno, as detailed in the .OOden Farm Warny, as detailed in the "Oyden Farm
Papers" in the American Agriculturist, as a Papers, in the American Agriculturist, as a
couviucing proof that a good artecle must
and ever will cominand a high price. The imports of dairy produce into Great
Britain tor 11 menths ending Nov. 30,1871 , hy ofticial returns, amounted to nearly $\$ 48$, mandy butter sold in Londou at wholesale for
1603. sterling per cwt., while Cauadian only a shilling per pound in gold.
Mr. Willard then gave a sketch of the nilk condensing system, showing the profits an average of a dollar per day upon each cow. He had been informed that the condensing factories of Massachusetts and New York had
recenty received an order from China for 11 ,
000,000 pounds of condensed milk.
winter butter,
an exchange A writer in an exchange tells us of two
ersons who supplied hini with winter butter. The butter of one failed both in quantity and wality on the approach of coid weather, will
that of the other kept np to the standard, looking and tastung like May butter. He
lurther states that the superiority of the last nentioned was the result of having rye ed among the corm in August, and made a
good growth carly in the fall. The corn being usked in good season, furnished the cows with excelient pasture ald, winter. A sed at pleasure,
provided in the field,
with but little outlay, and upon the continwith but little outlay, and upon the contin-
uance of anow for a few days, bran and meal ance of anow for a few days, bran and meal
were fed. Beside the beanefit to the cow, the
ye preventis a growh of weeds in the fall, and rye prevents a growth of weeds in the fall, and
furnishes a yuautity of green manure to aid in bringing large crops. This method saems
a reas suable one, and we intend to test it the coming autumn.
We extract the above from the Iovow
Homestead, published in Dea Moipen,

Iowa, and we appears very r
sive to try, and
sin nd report and report may to our country
ported above. ported above.
because, as a of the grain au ter of progress. good to the cou
trials and repor their grandfath The Loudon ing of recent ex other countries
Simon Beattie for his own stu
Mr. Cochrane, cowis srom thie
heifer of the Duncoube's;
first-rate Ayrs first-rate Ayrs
up during the l breeders in Ay
and other cou herds. Two
other stallions
There is m of gross in
lately been b as near as posi
the race, blo enter lorgely
found that ce cent. of reat several hun Ir
was 58 per cen was as per ce
pounds, conta
88, blood 55, lo, bloon and hea
testines 66 , lo testines
making 1,332
that if an ox 4 cents per pou will bring $\$ 54$, ,
to pay the but The matter
which it woul
for difference hing connect which breed
of opinion.
number aud secure a res,
sositions as philosophy of
of inand-in
orong whil wrong; while,
of breders,
believe that beneve that
beeder hope
herds, or eve
hene olreavly Waime tupatit tit tory conclusi
not the ouly
provement of ort
ot, thereffore
he testimon he testimon
 mont of the
The thoroug
Tarious fami is also good
true of the
this system of ions of ant
aid in this
and generall have achier
in the impro
This evid This evide
Tan that it
is due to the own observa
Rame system swn observa
zame sytem
consequence consequence
cararacter of
many othor
benefits

FARMER'S ADVOCATE.

Iowa, and we trust that some of our read ers will try this plan and report to us.
appears very reasonable, not very expen appears
sive to try, and may prove very profitable Some of our dairymen may profit
and report at the next Convention. Thi and litle hint may be worth an immense sum to our country if it answers as well as re
ported above. We mention the dairymen because, as a class, we find them far aneat
of the grain and stock raisers in the mat ter of progress. They are doing far more good to the country by their enterprising
trials and reports than ten times the number who go on in the old ruts worn out by their grandfathers, can do.

Stock.
The London Mark Lane Express, in speak
ing of recent exportations of British stock to other countries, says : "From Glaggow, Mr for his own stud farm at Bangor, Ontario, and
Mr. Cochrane, of Montreal, two Short-horn cows from the late Mr. Barnen' herd; a roonan
heifer of the Fame tribe from the Hon. Col. heifer of the adee and a large collection of very
Duncoubes ; and
first-rate Ayrshires, cows and heifers, bought up during the last three months from the best
breeders in Ayr, Wigtoun, Lanark, Peebles and other counties noted for their Ayrshire
herds. Two or three first-class Clydesdale and other stalli,
the cattle."
There is much speculation as to the amount
gross in beef cattle. Experiments have of gross in beef cattle. Experiments have
lately been m ide in Liverpool to determine, as near is possible, the anount of meat. But
the race, bliod, and condition of the animal enter lorgely into the calculation. it was
found that certain animals produced
70 cent. of reat, while others gave only 50 per
cent. The mean weight of meat produced in cent. The mean weight of meat produced in
geveral hun red experinents, on an average
mas 58 per cent. An ox weighing alive 1,332 was 58 per cent. An ox weighing alive 1,332
pounds, contained 772 of meat, skin 110 , grease ounds, contained 772 or meat, ssin hood 55, and hoofs 22 , head 21 , tongue $6 \frac{1}{2}$, lungs and heart 15t, liver and spleen 22, in-
testines 66 , lost and evaporation 154 prunds, making 1,332 pounds. By thisit will be seen
that if an ox of that weight is purchased at 4 cents per pound it costs $\$ 58,28$. If the 772 woill bring \$54,04 leaving the hide and tallow
to pay the butcher, which is worth $\$ 17 .-E x$.

The matter of in-and-in breeding is one upon
which it would seem breeders have little oroom or difference; and yet there is sarcely any
hing connected with breeding, and the improve ment of the various kłnds of stock, concerning
which breaders entertain such $\neq$ wide e iveratity
wich of opinion. One class of breeders-and their
number and reputation is amply sutficient to
nucu socuitions as they may advance concerning the
philosophy of breeding - hold that the system
phen wron-and-in breeding is radically and entitioly of freeders, equally numerous and respectable,
believe that tlirough this system alone can the breeder hope to make any improvement in his
herds, or even maintain the standard of excellence already secured.
Were these difterences to be reconciled by an appeal to the personal experience of the breeders
ot today, it is opssible that the most extended
reesearch would fail in bringing us to satiffacresearch would fail in bringing us to sativiac.
tory conclusions. This 马eneration, however, is
not the ouly one which has labored for the im. not the only one which has labirels, and we art
provement of ort domestic animals
not, theref ore, compelled to rely altogether upon not, therefore, compelled to rely altogether upo
the testimony and experince of men now living.
And in taking the average recorded experience of the past, we oannot eecape the conclusion
that this ysstem of breeding has contributed
more than all others combined to the improve. ment of the various races of domestic animals The thoroughbred horse, the Short-horn, and
various families of sheep and swine-and there is also good reason for believing the same to b
true of the Hereford cattle-are the product o this system of in-and-in breeding. The founda-
tions of an our improved varieties of tack were
laid in this land in this system, and untilit was discovere
and generlly practioed no breeder appears to
to have achieved any remarkabio degree of suct
in the imporement of domesticannimala.
This evidence seema suffioiently conclusi This evidence seema suffifiently conclusive and tae to the fact, that many have, within thei
is
own observation, known of inatances where th same system hase been produotive of pernicious
consequenceas For, that ouch is omemetimes the
character of ita resulte, fow will deny. many othor things, from which substantia,
benefitac can be secured when ued with jud
ment and to a proper oxtent, the sytome
the State Fair. At seven months of age they
average something under thirty pounds.
Now werage something under thirty pounds.
Now this article is not writen for the be
f the Stock $J$ Journal of the Stock Journal man alone- it is written
to impress upon our reader the importance of
investing their movey with, and purchasing stock only of such persons as they are assured
will not impose on them. There are men who have established character for honesty and in
tegrity. These are the persons to whu y ou
should send your orders. - St. Louis Agriculture.
We are aware that some Canadians are taken place, and we deem it right to in sert the above that our readers at least
nay be on their guard.
$\left|\begin{array}{l}\text { in-andin breeding, in the hands of careless and } \\ \text { ignorant persons who carry it to an extreme, } \\ \text { and pursue it with no definite purpose in view, }\end{array}\right|$ and pursue it with no definite purpose in view,
may, and likely will, be mischievous in it
onsequences. tensify und dix in the offfpringt the qualitites and peculiarities of the animal whose blood is made
the basis of the operation. And where an
animal possesses exceptional points of excal ence, a judicious course of in-and-in breeding will tend to fix permanently in the offspring
these points of exceellence, which otherwise there Wull be no certainty of reproducing. In-and--in
veeding, however, while it fixes and intonsioe a type, and imparts to the blood of an animal
increased strongth or capacity itself, is at the cost of vine and vitality- for the
law of compogations applies hure as well
 exceptional good qualities which it is denired to
fix and secure, there in othing gaine dybreed.
ing in ind ing in-and-in; while the logs in size and vitality

- sight, perhap, in the frrst instane, but in
oreasing with alarming ratio as the oparation is continued-is so much ground loat. And when, coupled with the fact that animalis may possoss
no exceptional points of exxellence to be pree.
served and fixed, they do many point of in. served and fixed, they do many pointa of in
feriority, a course of in. -rreding is not only at
the expense of the size and eonstitution of the progeny, but at the additional expense also
fixing and exagyerating their bad qualtities.-
And this is so frequently the result of the perations of those who purgue a course of
breeding in-and-in, that we are not at all surpriseding that many chareful observers have come
to denounce in its entirety a system productive of so much mischief.
gent breeder, who will use proper judgment in which he carries it-who knows the qualitien
which it is desirable to secure, and when he has succeeded in fixing them-whe possesses the
fecilities and and exercise the the judgment
restore the vitan exy restore the vitalty whicr he yas byyrict quali
the operation, and to presre the
ties he has implanted in his herd while breeding out the undesirable-in the hands of such
breeder, to be resorted to when occaion seeme
to deman it we reard in-and -in breeding $a$ the most potential influence upon which he ca herds or flocks. And without it, we believe
improvent, if possible at all, would be ex-
tremely On the contrary, in the hands of the ignorant
and careloss, or those destitute of the proper
facilities for facilities or pursuing eetain to result in deterio
probably nothing so certain then ration 2s a resort to in-and-1n breoting. Fo
whilio. animals posesessing good qualitien worthy
of bein in animals intenssessing by bad such a courso are rare
qualities which will be
fixed in the fixed in the same degree, are very commone
And in addition to animals making no improve
ment in the hands of an unskilful breedor, but
 tier may become so fixed by injudicioun in
breeding, that subsequent efforts cannot, for a
long time at least, remove them. -conservir," long time at least, remova them.-
in the National Live Stock Journal.
N. P. Boyer \& Co. Bend broadcast over the
country a periodical called the Stock Journal. This paper contains inviting-looking advertise
ments of stock, \&., which these gentemen
appear to be solicictous to dispose of to their pa appear to be solicitous to dispose of the shir pa.
trons and the public generally. This stock i represented as pubing generall. pund high bred,
ard these gentlemen anrounce that the $\$ 250,00$ which the h have invested in this superior
quality of stock will be used in a manner satig-
factury to their customers and honorable to themselves. Some of our subscribers have, b
letter, and others in perom, inquired of na in
reference to the standing of the aforesaid N. reference to the standing of the aforesaid
Boyer \& Co., and whether or not we thousht
advisible to make purchases of them. Unt
rather recently we have been unable to advis rather recently we have been unable to advis
as we had no knowledge of these parties. An
now our information is confined to reports
others, and not to personal knowledge. But
ote otherrs, and not to personal knowledge.
weare constrained to the conviction that the
are not giving satisfaction to all their patron and that at least a part of the stock they are
shipiping is indifferent and miserably inferior
looking. We speak of this on authority and of loopting. We speak of this on authority and on
what we know. A short time since we made a visit to Kentucky, and whilst there heard mon
bitter complaints of this firm. We will not atention the strengthening adjectives or
applied to them, but thicy were sufticiently posi-
tive to assurem that they were not highly es teemed by parties who had paid to know or
what they paoke. We notice, too, in the Sep. tember number of the Rural Carolinian the the
Mr. J. M. Denis and quite
number of $h$





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## zliscollarcous

It is not atall uncommon for poop We tata tarm tand dommenco operations
 oren lost onsiderable, and, getiting fryphened, trinulve abembere ent in our chilidren the beat








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Thimis in hhe experience of most of us to the













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the fanner.
The man who stand upon his own soil, ,ho lives-by the taw of icivizect dations he he is
 is by the orantitutiono onturur under a whole-
some influene, not easily imbibed troun any


 ionadiy tho hamd of dud, aud upheld by hyis




 traxi hieir lootsepes over the seenes of the




 The sabath bel whinch alieled his atateray

 not piant them govid cannot thiy theid they low out thayerepesioutatas or the heart


 last but by nom tanas stast, briet pithy notices
 inte esicram Ioanilies would pourd iltate new
 Resp taffot of any juurnal, and no ono anpreceiatea nis wo. th moie ligigly hinan hhe eititr.
$A$ Oorespondent of the Country Geret.

 lhis imple rule is observed, therer will be no this olotr being an on ojection, 1 regarard it as as an



 $A$ gentuenan in Verrmant las raised $a$ new poo
 allowing liuil to retain haifin a peckel hie ne ntered


 during the coning sunimer before putting it

The fol




 It will cost but lithle to try this, and


Lendon Markets.
Londor, Monday, March 25, 1872.


1872] SEEDS. [1872 SANDERSON'S CATALOCUE OF SEEDS Farm,

Vegetable Garden, and
Flower Gärden (ONTAINS All the LATHST NOYFLTIRS in




 Wire Flower Stands; Wiro Hanging Ba
Lawn Mowers and Seed Drills.
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W. SANDERSONE Seediman,
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great plattre vallei, THE GAPDEN OF THE WEST, NUW FOR SALE?
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States. on the 4 it derree of Narth Lintitude the
 civen, and mhore convenient to market than can be
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 Addrest- mailod froe everymhere. Avilh 3075

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PRUNING.
G ENTLEMEN wibhing to have their Orehard,

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To suarantee
or by contract.

"Pride of the Dairy." By thoulds porealk waternows

 T




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TO POULTRY BREEDERS.




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W. \& R. SIMSON \& CO.
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IAND PICAbage, enton,
W. \& R. SIMSON \& © CO., DUNDAS STREET Londo. April 1, 1, 182


COMBINATION GRAIN DRILL TOOK FIRST PRIZE at PROVINCIAL
Fixhibition, Torot to, in 187 , also, at Pro
vincial Exlitilition at Kingston, in 18il ; at the


t.r deliverv March 1st.
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EGGS FOR HATCHING.
$\mathrm{H}^{\text {AVING }}$ prared neither pains nor expense in

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rifames street, - . ingersoll
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| $\begin{array}{ll}\text { Hill }\end{array}$ |  | Pation ira guter no, And attorders from a diataneo carefully attended

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xisuractured by
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F. A. Gardner, Mechanical Supt. F. M.

THE GARDNER PATENT SEWING MACHINE
the dinine description In design, the machine resembles the Family inger; but the principle of the working parts
sentirely different, having no evear, and being
sear
no as nearly noisele.
Sewing Machine.
The Upper tension is on the face-plate. The The UPER tension is on the face-plate. The
discs between which the thread passes are at-
tached by a stud to the tension spring, which tached by a stud to the tension spring, which
is fat and placed on the inside of the face-plate, its upper end secured to the arm, and is regulat
ed by a thumbscrew in the face-plate. The Shotrle Movement is obtained from
the shuttle-cam on the shaft, which is desig-
 prongs of a fork which is pinned to the shatto o
the shuttle-arm. This shaft is also made of
steel and securely fastened to the shuttle arm steel, and securely fastened to the shuttle arm
wlich in a basket that the end carries the ssuttle which in a basket at the end carries the shuttle
along the face of the shatlo-race, deseribing a
radial movement which is conceled by all to be radial movement which is conceded by all to be
the best movemeat to prevent skipping stitches the best movement to prevent skipping stitches
the centrifugal force always kceping the shuttle
firm to the face of the 1ace. The Freer derives its motion fron the "f feed
can" placed on the same slaft, the motion be ing transmitted through the eccentric rod and
feed lever undcr the machine to the feed, which
is made of steel, having a bearing its whole length, thereby preventing any twisting move
ment. To the enl of the feed lever is attache a screw, which serves to give any required lift
to the feed that may be nocessary for light or heavy yoods. The feed spring is also attached
to tho bed ; it is flat, mado of steel, and very
durable The durability or the racains cannot be
questioned; the movements bein< all hardened. are not likely to get out of repair. The whole
of the works are enclosed in the arm, which i finely secured or the bed.-plate, and set upon a
walnut top or enclosed in half or full cabine
case, as may be orlered case, will be obssrved that there is no year
any wind, and that all the motions aro derive
from the same shaft,-all the usual complicate from the same shaft,-all the ussal complicat
fhuttle and feed movements being avoided. "The Treadle is adjustalle, working upon
"centres" in brackets. which are fastiened to the
 zive any required "dip" to either toe or heel of
tho treadle, besides taling up the wear or loose The Whret Bearing. The wheel ruus upon
a tapered stad or bearing fastened to the side a tappred stud or bearing fith the bearing end
of the stand by $a$ nut
turnel to a centre; the wheel is bored tapering turnen to a centre; the whee is boree tapernng
tof the stud; upon the front side of the whel
s steel plate is fastened by two screws, which bear arainst the centre of the stud; the plate
is adjustalle, and screws to draw the wheel upon the taplered st
yet running easy

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priing the follivns, which are furnished
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ny wilth one
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 particles. Intiris al fact well kown to every
practioal and intell igent farmer that llowing
rom 5 to 8 inches ind rom 5 to 8 inchese in dppth, year after year, has
fhe effect of closing the porese of the earth, and forms at haren pasing the porthe ourface earth, , an



 ing the eavy subsoiing Plows We have intro-
duced whyt cill or CoMBNED PIOW
ANT) SUBSOIL ATACHMENT. This



 sens the draft on an ordinary Plow about 200
ponuld, as has been proved by actual experi.
ments



 use a common Plow is made, anbsoiler hand and
yet can be drawn by an ordinary team without $\underset{\substack{\text { more dif } \\ \text { turung } \\ \text { The }}}{ }$
The great adrantage of subsoiling is now
fully recourzized, and in in this country where the

 Net seasons the putverization of the soil causes
the excessof monisture o pass of below the sur-
face, and in stift, clayey or other tenacious soils
by face, and in stiff, clayey or other tenacious soils,
by the use of the eatiachment the hard pai or
stiff under soil which is formed by $r$ repeated plowingst the one depth is iepened and palver.
 tean, can almost say that they have diseoveree.
another farm beneath that rejuresented on their











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out the aid of Doctor or Medicine, so as to ro ceive immediate beneficial results and noper
wear ppectacles: or, if usinn now to tay them asidide torever. WWe evarantee and cor in onery
came where the directions are followed, or wo care where the directey.
will refund the emoney
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