

VOL. VIII. \{ WILLIAY WELD $\underset{\text { Editor and Proprietor }\}}{ }$
LONDON, ONT., JANUARY, 1873.

contents of January no. Ditorial:-

 Inform, tion Wantued Iurulise




 Carryins all tie Parts in Faiming
How (lover Maures the Soil.

okricurvunas
Hedgerow Fruits, \&e
Thour Yard :-
Tue Chi ken
The Chi ken Ch.1era.
Faitening Fowls.....
Good Healith:
Value of tive Warm Rath.
How wo Take Coild dec...
The hers:-

V rikilvarr :-
Rheum tizm
Stock AND DAIRT
Eng iish Shart H H Wn Sales of 1872
Uv.r Feeding



 Orchard and Fohest
The Sparish Che tnit
Growing Forest 1 Iret
 Rec, pr,

Misozlaneous:
Huw to ohose your Wives,

Yarmor's Int reste
Mallaris,
do........

## The Mimico Farm.

This question will probably be the most
importunt oue to farmers that will be be tore the Legislasure at the approaching Se: sion. The site purchased is reported as unsuitable for the purpose; a com-
mittee has bern appointed to select ons mure suititbobe near Gpuelph.
Whitby and Wood $p$. amiued with the view of selecting a site better adapted to the purpose. If it is carried ou as origiainally contem plated, it must cost an mumense sum o incurred will ever result iucieficially, re wuius to be seen.
There are Agricultural Colleges and Experimental Farms existing now in vari
ous paits of the world Germany is in an advasuced state as regards such.
It is our opiniou that far It is our opniou that far more good
would result if the Government would al Woulu result tur the Government would al-
low private ind ividuals to join their cali tal and carry out such improvements as the country might require. Not only would Che results be better, but an enterprise of chis description, under the manauement
fo a joint stock company, would be car ried ou without a yearly amount of taxa. tion. In tact, it would be to their advailtage to 10 everything well, and at thi
same tine econouically. The Govern. neut ouyht, aud probably would give as. distance to a company of this sort, and it the farming community (not the favored
iew) are to be beuefitted, it must be thruyh the press.
then Information is is neded. $\triangle$ gricultural papers wrie considered sources for fur-
uishing such to the farming community, uishing such to the farming community,
inut to is extremely strange that toe same Guvernmentemethat put the most oppressive
Cua on auricultural publications, tax on ayricultural publications, should at-
tempt to establist an Agricultural Coleye As we happen to be some what ac
nlainted with the objects and iutention of the late Government in imposiaz the extorticuate rate of postago on ayrie eultu-
ral papers, and their
reasons and
andenFarm, we canuot condenn in too strons terms the steps that have been taken. The postage eas pat on to theck certaun at-
ricullural papers, and the Mimico Farmu was to check the eanadian Agricultura
Einporium ; the Ontario Farmer was to nave ben suppre, and other papers ob-
literatel ; thie Mi inico Farm was to afford literated , the Mi inico Farm was to afford
a $⿴$ nod fat berth for a certain individual in this city.
Mimico Farm was intended for the the of farmers'; that is a shallow pre-
tence: it would have been tence; it wonld have been the great st
injustice and burden the farmers ever sufferel know on what subject we are
ferel
speaking, and despite our challehge that appeared in this paper long. since, not à
single supporter of the Mimico Farm has ventured to meet nis on the platiform to retinte our statements regarding it and the
Western Fair. We look on the act the Western Fair. We look on the act of the
late Minister of Ayriculture in obtaining the grant for the purchase of the Mimico
Harm, as the blackest sain his character, as he had promised to aid Che Agricultural Emporium in 'any way That laid in his power.
The scheme was star
tain parties, and not the tarmers. No cer mer ever asked for it. If the question were put to the farmers themselves :or slani it be left to to private enterroriso? ainety-nine out of a hundred. would favor the latter.
The question yet remains to be an-
swered: will the present carry out the plans stolen by their predecessors for political purposes, or will they levislate for the interests of agricultur-
sts 1sts 7 The question may arise : in what
way could inore good be done? reply by encouraging the spread of agricultural information, the encouragement of farmers' clubs, and the spread of agri-
cultural boohs ; by allowing farmere to eatablish their bexperimental tast farmers sale farms by joint capital, which the law at present preventas
a farmer, and we are in impressed with the , pininion that he we will do whate we with the best for the country. We have our own opinion in regard to this farm, but if the
past and present
Governent expenditure judicious, we have only to snlmit to the powers that be. We believe it has been from the effects of our although we may difter in the mode putting it into operation.

## Agricultural Socletics.

The annual meetings will take place on
the $3 d$ week of thismouth for the electionof offlcers and other business. We regret to say that in the majority of the Societies tion of oflicers; so little attention is paid that scarcely enough farmers attend the
neetings even for that purpore pearsto be one of those things that is tvery body's business, and almost left to nobndy. The meetints are so small t'at sometimes they scarce $\boldsymbol{y}$ deserve the n me.
Now there are miglit be discussed at these gatherings pertaining to the management of the Exhibitions. The estathishment of Far-
mers'
Clubs is a sulject the ceive more attention, and as unity in Btrength and knowledge is power, mem-
bers of these clubs have far greater portunities for obtaining hand disseaminat op have. Librairies singige individuals be added. you could suggest, the anmpoual meeting in hhe moost suitabebe place for having dieeding is
cions about sions about them.
cors, select the electing your officers, select those who are in favor of open
discussion in preference ot those who hurry over the preference appointment of officers nile then walk away. If you desire Drain Tile manufactories to be established in ucemen to those who would invest in
ane If undertaking.
If you are not ashamed of the poor agwhen compared to to those pubbished onada, ther side, you ought to be, and you hould at once lend your aid to remedy he evil. If you think agricultural infordistributed over the country through the medim of an agriculutural journal published monthly, semi-monthly, or weekly elect valuable suformation from and us agrieultural works published , and rom the reportrof of the Experimental, Educational and Test Farms in the United that such a publication shouid not be rade subservient to either political party or sect, would it not be well to assist carry out such an undertaking If on person attempts to do this, no matter ho guarded he may be, it will most asearredly We, as farmers paper by some. purposes should know only one party the africultural party.
be of service, you might publication would bo of service, you might express yourself
to that effect, or, it the postage on agricultural periodicial should not exceed that on common newspapers, you could apply for itts alteration. Government should establish that the tional and Test Farm, your voice might strengthen them ; and, on the other hand, if you think the cost would be more than
the institution would be worth, or that it would be a mere shelving place for poli ticians and a polititial lever, or that it
could be better carried could be better carried out by a company, you might use your influence against it.
We have no doubt that if the Societies were to call the attention of tie Government to these facts, but that the griev. ances, if any, would be removed.
Read the Club Prize List in this paper andencourage the young folke to obtin Bome of them.
The chromos are beutitult
There

The Profits of Solling Cattle. In advocating the soiling of cattle we
are not bringing forward something new, or writing in favor of a mere theory. The system has been long tried and found to be attended with great profits. Nor do others. We speak from our own experience, an experience of many years. And
yet soiling is so little known here as a sys. yet soiling is so little known here as a sys.
tem, that when, talking lately of the ad. tem, that when, talkorg latey of the ad.
vantages of more thorough culture of the soil and more liberal manuring, we spokeof soiling cattle as a means of increasing th ny soiling cattle. We had to explain the rudiments of the system, as the feeding in the house or yard with green crops raised them to graze on the roads and commons $o r$, at best, on the pasture of the fields, without any additional food.
Soiling cattle necessarily involves addi expense. This is the objection made to by those who are not practically acquaint ed with the profits, or who have not give it due consideration. If, by stating wha pointing out its practibility and its advantages, we induce some to make a trial of it even partially, much will have been done One of the greatest benefits of soiling is that in order to carry it out effectually there must be an entire change in the cropping of the farm. It will be necessary to owing after grain in uninterrupted suces sion, till every element of fertility essential to the growth of cereals having bee In the soiling system there io In the soiling system there is a regular
rotation of crops, such as instead of im poverishing, will enrich the soil. The system adopted may be a four course, a five course, or a six course system, as the farmer
deems most judicious under the circumstances, but to farm well there must be sope system. In some counties in Ireland the produce of the soil was surprising, from following the four course system, but it is
perhaps best adapted to small farms. I for many years followed the six course rotation ; having one-sixth of the farm under well manured root crops, one-six
clover and rye grass for soiling and hay, one-sixth pasture, one-sixth other crops for soiling, and two-sixth cereals. This may be described as a mixed system,
partly pasture, and partly soiling. Horned the yard. were fed some hore in the stable swine on vetches, clover, cabbages, \&c. till the time came for finisling them of or the butcher.
there will be a large increase of manure. Instead of being scattered over the roads or commons, or lying in the pasture fields, sure to the atmosphere, it will be in the manure heap, with the refuse from the racks, the weeds, \&c. Abundance of ma nure is one of the elments of successfu saying, "Where there is muck there is saying,
luck."
A third advantage of soiling is :- The
cattle will be in better condition than it cattle will be in better condition than i
fed on oridinary pasture. Having a suf ficiency of the best and most suitable food given to them they will be always in better order than if leit to pick up short and
often coarse, unsuitable herbage and wead asebest they can. Add to this that the supply of good and abundant food wil produce more milk, butter and cheese. One of the greacest profits from soiling
is in the econoney of the land. One-hal acre of land per head will produce a sufiiciency of food for cows. This we know from experience. Our farmers will be able to estimate what area or ordinary pasture gather their subsistance from, and thus, comparing one system with the other, as
certain what will be the economy of land
are we to sow for soiling if we adopt this system? This query I now proceed to an
swer, first observing the greatest difficulty has always been in having green food fo soiling early enough in the season, and in this climate the difficulty must be greater vegetation not retarded to so late a period. But this obstacle can be surmounted. The first crop ready for soiling in the milder climates is winter vetches or tares. Her crop for soiling sow fall rye in August or or September. We have had it mown for soiling in good time to be succeeded by a for soiling was tares, spring vatches, clover andryegrass, annual or perennial, oats and peas, cabbages and rape. T'ben followed the root crop.
Let your cro
sion, as follows for soiling be in succesSeptember. 2. Oats, sown early in April. 3. Oats, sown later in the same month 4. Oats and peas mixed, sown early in
May. 5. Corn sown in drills about the may. 5. Corn sown in drills abort the same month. 6. Corn sown towards the end of the same month. 7 Another sowing of corn the first week in
June. 8 and 9 . Two sowings of one in the middle of June, the other the first week in July. For some of thes you may substitute millet or Hungarian grass, and you may use in addition some
of your clover crop green. This succes of your clover crop green. This succes
sion of erops will bring you on until you hegin to use the tops of your mangolds turnips, carrots and sugar beets. The
roots, with hay, straw, \&ce, will bring roots, with hay, straw, \&c., will bring
your farm stock well through the winter. your farm stock well through the winter.
As soon as your early soiling crops are used, let there be no delay in manuring and ploughing the ground on which they grew, and sow other crops in their stead
so you will raise two crops instead of one so you will raise two crops instead of one
and your land will be free from weeds an in good condition. As we take it fo granted that you have made no preparations in autumn for soiling, we would say
commence with the secoud crop in the commence with the second crop in th
above rotation, sowing for the purpose oats as early in April as you can. You may pursue, as I nave done, a mixe
course, making soiline an auxiliary to course, making soiling an auxiliary $t$
our pasture. You will find its profits in the condition of your farm stock, in your
dairy, in the increased fertility of your dairy, i
farm.
This is the season when good farmer lay their plans for the culture of thei make trial of a systematic . Resolve to crops, and of, at least in part, soiling you
cattle. Let this be included in your plan of farming for 1873.-Asst Ed.

## Free Trade.

In another part of our paper will be seen a comwunication from Dr. Brown.-
The doctor's aim appears to be free trade and it would be good enough if we could obtain it, but our legislators have but but little power when treating on this
subject. The Americans have the powe subject. The
Perhaps some plan might be brought tries. We might pay them a certain sum and submit to the same external duties
that they impose. Almost any plan would be preferable to the numerous pil fering and expensive custom officers that
have to be maintained on both sides of the fering a
have to
lines.
The
The doctor's opinion in regard to the agrioulturist being uurepresented by the
press, we think too true. The two politi cal parties strive for power; money has power, and, undoubtedly, farmers have men, manufacturers, brewers, distiliers,
lumbermen and stock brokers. is fast approaching, however, when the in terests of ther
We hope the doctor and numerous other unite and join the company as soon as the unite and join the company as soon as the
prospectus is before the country, and make
the Farmers' ADvocate a weekly paper,
and of such interest and importance as and of such interest and importance as
will not put our Canadian farmers under will not put our Canadian farmers under
the necessity of taking so many American the necessity of taking so many American a paper equal to any on the other side. valuable hints. We hope others will express themselves should they differ wit the doctor. His aim and desire appears to
be for the interest of the farmer. Answe be for the interest of the farmer. Answ
his question ; who will speak next?

## Prizes at Agrieultural Exhibitions.

We all believe that we live in the mos advanced age of improvement. Progress,
is rapidly made in mechanism, arts and sciences.
Let us farmers ask ourselves what ad Fancement has been made during the pas
ten years in our public agricultural affais It appears to us that the grand progres sive schemes have been brought about by our ancestors, and we are merely rusting
in the track already laid down by them.in the track already laid down by them.-
We should be progressive and not content to stand still; we must either be retrograding or advancing.
Just look over the Prize Lists of our hibition, or ploughing match, and wher are our improvements? True, there are mprovements in implements, stock and
arts, but what about seeds? and what is arts, but what about seeds? and what is aricultiural information.
Une of our most enterprising sub-
scribers called at our office and said he hribers called at our office and said he library of agricultural books, useful orna nents, instruments of science, or works art. He had gold medals which he as he conld keep and bequeath them to his descendants as trophies of honor, while he money would only be expended. He ricultural books and publications much 1 -eful and valuable information would be circulated throughout the country that would perhaps, do as much gooubling the atility of the exhibitions. He would angest the division of the prize money, cash and part in publications. It is our impression that this suggestion of Agrieulture both in Ontario and uebec.

## Information Wanted

A letter was received from Yorkville P. ., containing $\$ 1$, but no name was sent received from $G$. Featherstone, but no
Gost office address is to be fond on then post office address is to be found on the
letter or in it. Another letter containing \$1, has been received, but neither name eived a paid letter from Miontreal, con taining a careftuly fore.
paper and nothing inore.
In writing please always be careful and
give the correct P. O. to which your paper give the co
is mailed.

Copy of Resolution Ald
Nov. 8ili, 1872.
"It was moved by Mr. Denison, seconded
y Hon. O. H1ake. and resolved...That it it it
vith feelings of unfeigned regret this Board has
 Willow Lodge, near Brampton, on Fiday, th
1st of November, 1822 .
Mr. Sne l's name was quite a househol
 abreeper and importer of tholough-bred Dur
hams and Galway cattle, Leicester and Cuts
wild sheep, and improved Berkshire pig. Few Wed sheep, and improved Berkshire pigy. Fev
men have dore more for their brother farmer
than Mr. Snell, who laid the foundation of hi. fortune by, his own $\varepsilon$ trong arm and willing rand that a copy of this resolution be for
warded to his family,"

## Turnips.

## a five dollar 'Prize.

A real, practical, energetic farmer has placed at our disposal the sum of $\$ 5$, to ne awarded to the person who will send the Turnip, the letters to be published in this paper.
lished, but it will be made known to the successful writer. The made known to the ten plainly and pointedly; unintelligible expressions are to be avoided, in fact, it is
to be the plain practice that every farmer to be the plain practice that every farmer can understand. required, although the length need not exceed halt a column; and if the writer can condense more information into it than nother can in a column and a half, all the
better for him. Should the article requir more than a column and a half, it will be coutinued in the following issue. The
article must be original. Young men, try and get this prize.

## Communication

We are in receipt of a letter signed "A
Practical Farmer," dated E. G willembury, and bearing the post-mark Kingston. Wb or once break our rule not to notice any nonymous communication.
he O writer complains of our opposing port improved formment's measure to imis based on the ungrounded assumption that the "importers and breeders have formed a regular monopoly so that it is beyond the means of the poorer class of
armers to become possessors of well-bred tock." There is not; nowerear there De, in this business a monopoly. Everything connected with it-the purchasing-the selling by open, unrestricted sale-renders
monopoly in it impossible. American breeders find it to be their interest to make heavy purchases at the stock sale of Canadian importers and breeders. American writers admit that in Canad
improved stock can be purchased on mos advantageous terms.
The charge of monopoly is not only
without foundation, it is unjust to the without foundation, it is unjust to th Dominion-men who have done so much for the prosperity of the country. its attendants circumstances there can its attendants circumstances there can be
no monopoly; then the argument of the writer falls to the ground, a baseless
fiction. The FARMERS ADvocate is net conducted in the "interests of a tew breeders," or of any class, but of the farm not in opposition to those in power, nor in slavish advocacy of them. Our is a less ambitious aim-to promote the interests on country.-Asst Ed.

The "Ontario Teacher. We talie pleasure in announcing that
Messis. Ross \& McColl, of Strathroy, are about to issue a pullication under the above heading; the prospectus is befor us. From the staff of contributors and
from the known ability of from the known ability of Mr. Ross as a
School Inspector, and Mr. McColl as writer, we feel satisfied that the wor ticularly for teacliers. They should send for a specimen copy.
shropshire shegr.
A correspondent of the Irish Farmer's ${ }^{\text {Ga- }}$ I ber to of $t$ le Sirrophire breed of shèep: st, they will rear two and sometimes thiee mid better than a new Leicesttr otie. 2nd,
heir lambs are much hardier. 3rd, when fat the mutton is worth ldardier. bib. nord, when that the
Leicesttris, as there is always plenty of lean of Leicestrrs, as there is always plenty of lean of
a supri. r quality with the fat; and my rams
cut frum 9 to 11 libs. wool each. I put 90 cut frum 9 to 11 is. ibs. wool ach. I put 90
Shropshire ewes to the ram last season, 8 of hiropshire ewes to the ram last season, 8 of
which brought me 3 lanibs cach, 4 brought 4
each, and one brought me five lambs ; all live, each, and one brought me five lambs; all live,
healthy lambs; very few: brought single
lambs.

## FARMERS ADVOCATE

R Prize rgetic farmer has
the sum of $\$ 5$, to n who will send

## sheer

e Irish Farmers
hire breed of shèep lts of my experience.
and sometimes thiee rdier. 3rd, when fat,
per ib. more than the
vays plenty of lean of ways plenty of tean
he fat ; and my rams
ool each. I put 90 bs each, 4 brought

Agritultural
Address by W. D. Wilson, at a Meetins ghe N. E. Lowa Agricultural SCciety, abridged:high oue; aus labor rests farmer is a very tariner was the first maul. All true nobillity rests upou the possession of the begluming:
He emphatically represents the neces sities, anu couttinuous nard labor. With
out nim, mana could not exit bat is that the eat thil suatll feed and clothe hill aud his sumly, and to obtailu a surplus
for the subsibuiuce of others is uapendent upou his muluotry, bulit and crops to aud sow at the must proptious tumes liable to bring him to waut and to produce
a foud tamue.
His trusts are tueretore very grave, and whist they are in then evere gave to mau, he too trequenly es. meat he was coulmiaduded to obraulu froul the eurt hy the sweat of his tace, a curse instead of a blessing.
our statesinen, our jurists, wur leghislator our statesinen, our juyists, uur legislators,
our merchant princes, our eugguers, our workning men and woulen of the cithes but trom the tarm? 'The nudustry and physi-
cal tenergy that secures sucesss ane but on the Iatrm. 'The ciluss' energies are re cruited froum the country. Let the farı
tail to produce both men and energes of the world fall. As on the mo-
ther is dependent almost the whole luture ot he cnud, so on the tarm is dependent the tuture of the world. For aill the
cares and drudgery of tarm h his his compensadury of advantane lite tarmer permanent-or should and cau be-and to molest securrity or mad competenency, hinin ant true to himself.
[The lecturer,
[The leeturer, after dwelling for some the tarmer, thus proceeds to commuire of he fully develope those resources ?], does such are a portion of his facilitites for im. full this in return? For witite the world it dependeut upon him he is dependent upou
His exertions and his intelligence in co operatug with uature. Absolutely noth. do. Un the coutrary, he rols aud impur erishes His rich inheritiance and scatters abroad over the earch by drawing fiom
its coffiers aun nover resturing. Whilbt all nature works for him, he does little o
nothing for nature. are especially the life of the whent plant meaus that are at haud to teturn, and the iumporcaut elememts, stich as the growth of clover aud other grasses, are almost en-
ticely ueglected. ticely ueglected. the yuestion: Whe liat shumeld it given to rase tor the market? There is no doubt
tuat luere too as in the the Sutes tuat here too, as in the States, more aten-
tiou siould be paid to ralising and fatten


 cultivate the soil. Mainly and who Wholly , it 1s to supply the human tamily
with those articles of fooll, and raw material which are most needed by mankiud, briay the nlghest prices Therefore a farmer shiould study to ascertain which are auy part of that demaud and to supply the highest profit. If he does this, his
reward will be ten-fold : he will have the reward will be ten-fold; he will have the
satiofaction of having done to the com
munity the greatest good possible, which
will satisfy will satisfy him as having perivormed a a
high moral duty. ${ }^{\text {He }}$ He will also have the satisfaction of having produced and sold
those articles that pald the those articles that pald the best, and that
will tickle his pocket, oue of, the will tickle his pocket, oue of the most
seasitive parts of our moral faculties, es. pecalily y parts these days. Phal phanthrophy
and self interes. and self interest agree in this case.
But these are not the only bent But these are not the only benefits the
farmer derives by supplying the article Carmer derives by supplying the articles
that are in greatest comand, for, very generaly , theseataticles are precisely those and they are generaast exuaust his land, breatest concentrated value. That which hogs, horses, \&c., is embram cattle, sheep, centrated productions. Whilst wheat does not receive, on an average, a price
that will pay for its average cost of production, corn commands more than double its cost of production when judiciohsly fed to stock
which the lecturer enters brief extract in of what additional profit might buatio on the farm by nmprovenent of stock and nure caretul nusbandry. We may our-
selves otten profit by the lessons taught to others. J
We will not dwell further on but look a little into what might be done more than is done on the rarm with a of what is produced
We have been inquiring for years in re ard to the following points in the mangement of a larm, and we feel that wo the real facts:
here is an average waated-anmt
ally oft every farm of what
produced............................... tion to the greneral production of the farm........................ mprovement of stock, by a smali $\underset{\text { mproper feeding of stock and bad }}{ }$ oss from improvident damage to farm tools...
The above presents an average loss cht farm in the above items of $\$ 325.00$ two huundred dollars, and as we have not
less than 200), out tarmers in the sut ess than 200,0010 furmers in the state, it ives the starting aggregate of forty miltate by using proper ecouomy and with mall additioual cost only in breeding animals not excee
each farmer.

## IN THE WEST PROFITAbLE?

As the great dependence of the Ameri penditure of money and time for his exon the nett prices he receives for ano the following article from the Chi
ano Tribune is conclusive rarming in that country cannot bring in nuch protit :-
It is becoming a serious question what the country. During the last sixty days, there has been a general advanance in the
rates of freights all over the country the effect is crushing upon tho country, and duce the lower-priced varieties of grain. This advance has not aftected the wheatgrowers so much, because there is com-
paratively very little wheat going foparatively very little wheat going for-
ward. This is, however, accidental. illustration, let us give some figures. he cost of moving corn from a point one he way of the lakes and the Erie Canal New York, is $41 \frac{1}{2}$ cents. This does to nclude any charge or profit in that city The price of corn in New York is 65 cts. rofits and expenses in New Yel to cover $\left|\begin{array}{l}\text { left to the producer just } 21 \text { cents per } \\ \text { bushel for his corn. } \\ \text { In oath, the case in }\end{array}\right|$ to
even worse. It costs to deliver oats from
a point like distant from Chicag boat at New York, 31 cents per bushel.Oats are selling in New York at to to 4
cents. If 2 cents per bushel he allowe for sexpenses and profits in New York there is left to the producer six to ten cts per bushel for his oats at the place of of co
wheat, cors, there is a limit beyond which ported, except at a cost equalling or ex ceeding the value of the article. The
rate of freight on oats has almost reached that point now. They may be still fur-
ther advanced until they prohibit the transportation of corn, and even of wheat are nearly double the average rates York year, and the advance in freights is of ne cessity taken from the price of the grain in the hands of the producer.
pathy rise in domestic freights is in sym, but the oppression upon the producers is none the less severe. It consumes their
product: It is no longer a case of sending product: It is no longer a case of sending
one bushel to pay the freight ou another that operation no longer pays. The proprice of grain should fall in Livher, or the will have to send some money along, in
addition to the corn, to pay the freight on the latter.
reducing bones
In the digcussion of wheat culture, at port, N. H., Mr. Pattee, of Warner, a formula for reducing bones, as follows :-
Place
with ashes and about one peck of lime to a barrel of bones. Cover with water and boil. In twenty-four hours all the bones,
with the exception, with the exception, perhaps, of the hard
shinbones; will become so much softened as to be easily pulverized by hand. They
will not be in particles of bone but pasty condition, and in excellent form to mix with muck, loam or ashes. By boiling they will also become soft. This is an easy and cheap method of reducing bones.
If the farmer will set aside a cask for the reception of bones in some convenient place, and throw all that are found on the horses come into his possession, he will at the end of the year, which would aluable adjunct to the manure-heap.

## SUTTON'S NEW GIANT

Mesrrs. Sutton \& Sons, Reading, have sent us a specimen of their new Giant Hybrid Cow Clover, which has already siven two cuttings this year, the sample
sent leing of the third cutting. The specimen we have received is nearly thirty succulent. Messrs. Sutton state that it has been produced by a cross between the
common red clover and cow-grass, and been found to succeed well on soils that will not grow the common red clover. It
appears, therefore, well deserving of appears, therefore, well deserving of a
trial.-Irish F'armers' Gazette.
Mr. Mechi on the english harvest.
Mr. Mechi, the great scientific farmer, vest in the results of the English harno alarmist, but he believes. He says he is will have to pay for foreign corn, in quantity and price, $£ 15,000,000$ to $£ 20,000,000$
sterling more than in a good wheat season

Corn ror Solling.-An American paper says a dairy, whose butter is ex-
celled by no other in the Philadelphia market, pretty much sustained 58 cows July to the midale of Oetober, and that woo from the product of three acres. It was estimated that no less than ninety
tons of food were taken from the three
old. pastures or new.
There are two opinions about pastures.
One is that it is is inore profitable to feel ouly newly seeded land, using it not more than two years before plowing it up for a
eseeding ; and the other to let it reme or many years, allowing the furface to hecome Mily ycupuped ty to natire graspes,
these being oupposed to be the bei $t$ adaptea
to deve IT divelop its power of production.
If we consider this question according to
thegeneral practice of farming communities in this country, we can not hmunities decide that the greatest profit will follow the first named method, for there is no disputing tue proposition that timothy rewtop, orchard grass, and red elover,
newly sown on a well prepared and well manured soil, will produce much more forage (and of a highly nutritious kind than will a close turf of blue grass, white
clover, etc., which has for many years had fuver, etc., which has for many years haa
no possession of the ground, and has had no artificial stimulation. The differenc
in amounit will be much more than enoug
to repisy the eost to repay the cost of breaking up, manuring
and seeding.
It is not now a question whether th
cows will do better on one kind of than on the other, only which will produc the largest money profit, If aill produce
were allowed to roam over teow Were allowed to roam over ten aeres of
short old pasture, pioking up her whole
living in white clover and the tonde sprouts of blue grass, there is no denying
that she would give more milk, more butthat she would give more mill, more butter, and more cheese than she would if
feeding, however abundantly, on the
coarser grassea of an artifigial pature But our praspes of an artificial pasture.
the largest posinible fining is not to get the largest possible yield from our cows, our land. The cows poresible yield from
for converting the products of oflements the feld for converting the products of the fiel
into the saleable products of the dairy An average first-olass cow coming in
May, will make 200 lbs. of butter in the season on good natural pasture, but sho
will require at least three ares will require at least three acres of land for
her exclusive use, At 30c. per lb the her exclusive use, At 30, per 1b, the
season's produce will be $\$ 60$-or $\$ 20$ per
aere. On give only a 180 lbs., worth $\$ 54$, but she wil
be find be fnlly supported by the produce of a
single acre. Supposing the single acre. Supposing that one-third of
the produce is consumed by the interest of the extra number of cows, and by the cosit a keeping up the pastures-which is surely $\$ 3$ instead of $\$ 20$ as the return per have much to this, we shall make per acre. much more independent of variations of is far lesss injured by exceessive rich medow any natural pasture on the same douth than
be. This be. This, of itself, will often equal the
draviback we have allowed for extra cost. To put the proposition in another form we may expect, from the foregoing cal-
culation, as large a cash profit from acres of, artificial as from profit from ten natural pasture, and there would be far proposed, of unusual drouth It is no ands should be used far rough or wast (they would not repay the cost) only thi ubjectios as are susceptible of profitable How nearly not be left wild. made equal to artificial ones by the use of proposition and liberal top-dressings is cost would generally be lless than that of reseeding, and the result equally good. should ever be over stocked.-American
quantity of roots for stoc
An intelligent farmer in Ireland gives of roots consumed by the different clasies of stock on his premises :cattle, 4 to 6 tons per head; fattening catce, ${ }^{\text {shoep, } 15 \text { to } 17 \text { cwt. per head; ; othertening }} \begin{aligned} & 10 \text { to } 13 \text { cwt. per head, }\end{aligned}$.

## FARMER'S ADVOCATE

## from continental correspond

 of PRAIRIE FARMERIn several parts of France, Lot, Tarn,
tce, several rich deposits of phosphate ave been tound. It is English speculator hat buy up and work the beds, the Fren appsaled to to do so. There is an eviden vitrates a substitute in phosphates an vitrates a substitute for guano ; durin able increase in the sale of commercia manures. In the neighbourhood of Nante he trade was peculiar. There the farmer have had a prejudice that no manure, wa was there that phosphates from their colo became unfuabhionable, and turf was artfully reduced to po wder, and, thaniks to its color pett a ready sale as animat the most barefaçd frauds are conmitted in Nantes. The coarse sand of the Noire is reduced, by powertul machine opowder aud mixed with phosphates, of eing reduced to powder, is elegantly mad up in bags, labelled, and returned to th Bretous as pure phosphate!
With the view of checking frauds is of price, several local tarming societie have formed themselves into companies to
purchase their industrial manures en bloc purchase their industrial manures en bloc war, augmented some 25 per cent. O pound of nitroyen, as now estimated, cost
one franc and a half; formerly the pric one franc and a half; formerly the price
was a little over one franc. Then the los was a little over one franc. Then the loss
of live stock by the war and the playue, and the diminished supply of manure, may be judged by the figures that, I869, France employed but 12, ,000 tous of superphos Lucerne is in this country regarded a the "Providential forage" plant, an exhibits a marvellous development whe irrigated-a process that France has much neglected, It is acknowledged that arti
ficial grasses can be more profltably replace by lucerne. In Saxony this latter plan works wonders on light soils, when plowe in green as a preparation tor a graiu crop sow about twelve pounds of lucerne per acre with the barley in February, plowing down the lucerne after the harvest, preparation for winter wheat.

## top-dressing meadows.

A writer in the New York Times says : Lands that are natural for grass, such as uplands, need no plow to keep up their ertility. By top-dressing they can be We have seen upland meadows that had not been plowed for half a century, and the quantity and quality of grass they
produced are rarely excelled. The quality especially was excellent.
We are conlident that, with proper treatment, the quality of hay raised on old meadows. improves from year to year.
It becomes finer, and there is a greater variety. Let the land, after it has produced two crops of grass, be top-dresse in the fall, and instead of the grass run.
ning out, as it is inclined to do when let alone, severely, it is wonderful to see what a variety of new grasses come in.The turf thickens, and instead of two va rieties of grass, we get half a dozen, and even two dozen have been counted growing on the same square rod.
Farming in the West.-A Kansa farmer asks the question: DDes it pay to
raise oats? To solve the question he en ters into a minute calculation of a debit and credit account of ten acres of oats, not pay. The crop of ten acres would
cost $\$ 95$, not including rent, taxes or the cost \$9, not inctuding rent, taxes or the oats raised- 400 bushels - 40 bushels per
acre, would, at Western prices ( 20 cts, acre, would, at Western prices ( 20 cts. per
bushel, realize only $\$ 80$.
Such is farming in Kansas.
practical lessons in feeding hogs. ing to farm, I was desirous of knowin the best' way of fattening hogs, and I de cermined to try the ditterent plans, an olso to ascertain how much pork a barre and covered it in; weighed three hogs and put them in the pen. I also weighed
three of the same size and put them in a Ary lot-average weight one hundred and corn to the six hogs. They were forty days eating the corn, with a plenty of salt
and water. The average gain was seventyand water. The average gain was seventy
ive pounds. The hogs in the lot ganed the most. One that was fattened in the lot gained eighty-eight pounds. One in en gained eighty-four pounds ; the othe These so thrift
Id when slau hatered. I put them up to the 25 th of October. There was a grea eal of sleet and snow during the mont pen an advantage they would not have nadif the weather had been favorable; the were each fed on the same quantity o rain. It also shows that one bushel of orn will make fifteen pounds of pork, an dollars and twenty-five cents worth o ork, at two and a half cents per pound and that the farmer gets twelve and one alf cents for his labor of feeding pe
ushel. Hogs will fatten faster in Sep bushel. Hogs will fatten faster in Sepcolder weather.
Another very
Another very important question or inquiry suggests itself from the foregoing,
and that is:-What is it worth to raise hogs to the average weight of one hundred aud seventy five pounds? It may be difrass, clover and grain fields that the hog leel on while growing to the gross weight of one hundred and seventy-five pounds, but with these assistants I can raise a hog pounds and over, with one barrel of corn It will be seen from these estimates
that two barrels of corn, with the advan tage of grass, clover and gram fields, will roduce a Hogs to hundred and firty pounds gross of water, and the farmer who cuts up his corn in the mouths of September and $\mathrm{Oc}_{\mathrm{c}}$ he amply paid for his labor, in the im provement of his land, from the stalks aud nanure of hogs. It is a great saving o the quantity of hogs and the size of the
field suit-Cor. Ohio Farmer.
ox-teans vis. horses
In this go-ahead age it is a dismal sigh the road at the slow pace of a pair of oxen and we have probably had as much to say as any one in favor of the substitution We are bound to coufer the picture has another side which is worthy of careful consideration. Ox-teams are slow, it is true, but, they are effective,
cheap, and convenient. Horses are a essity for regular road work and for many operations on the farm, but it is almost indispensible to have for occasions consider ably more team force than is needed re-
gularly. If the extra work of plowing harvesting and hauling manure is done by horses, we make up our minds to have them more than balf the year eating off their heads in itleness, and to be in con-
stant dauger from loss from the thousand ils that horse-flesh is heir to. To stat the case in a nutshell, an idle horse
is idle capital, invested in an extra hazardous risk, without insurauce, aud consuming itself month after month.
Oxen, on the other hand, if properly
treated, are a tolerably sate storehouse of trated, are a tolerably sate storehouse of
working power. When not at work the are laying on flesh, which is worth so much per pound in the ready market, if
choose to sell, or which may be taken out
again in the form of hard work whenever we may call upon it. In case of accident We may realize the full amount of our in
vestment at the hands of the nearest vestment at the hands of the nealest
butcher. Ant idle ox is active capital, the butcher. An inle ox is active capital, the
investment is safe and well insured and his fodder is pretty certain to get paid for The difference in work.
The difference in returns in the two extra cost of teamster in the use of the slower auimals is probahly well compen-
sated for by the saving in saddlery bills. sated for by the saving in saddlery bills. less eonsequence than we often imagine it to be. We have lately had and opportu nity to witness two teams in use in our
neighborhood, one of horses and one oxen both engaged in similar work (mainly on clusion, against our preconceived notions that "slow and steady wins the race.
The oxen seem to do more work in a week than the horses. They are three pairs of young cattle, growing thriftily, and so paying a profit on their work when not
overworked-costing less to buy and les to feed than a single pair of horses. When up aud fed enough grain to keep them hearty. When their work is finished they are turned out to "eat, sleep and grow
fat." When each pair have got the ir growth they are sold to the butcher, and a part of the
younger ones.
Starting out
Starting our farming life with a prejuheen induced gradually to substitute then for horses, until now we have ouly ennugh
of the latter for our road work, and de. pend on oxen for all emergeucies. In work the food they consume, and we save the heavy cost of keeping idlle horses, the risk
of a total loss of value by accident or death, and the certainty of depreciation by
reason of old age. -
carrying all the parts in farming. Rotation in farming is understood as an
Thablished necessity. This with respect of. This even where the land is must fa vorable for grain-where it may readily this case many farms do without sheep, sheep being put on a hilly and less
accessible land. Sheep are probahly here the most benefit. But they will add to
the income and benefit of any farm. Al the branches, at least as a general thing, should be prosecuted. This, for one thing
to meet all the market. If one or more fails the other may succeed, some oue or more products will always succeed
either in growth, be affected by the sea son or otherwise, or in the market. It
is seldom, if ever, that all the product is seldom, if ever, that all the product
fail, both in productiveness and price Wool and mutton, and sheep in conse quence, have been a loss to the gene-
lal farmer for years till now recently. The fruit crop the present yea tatoes, so are some other products. Thus the products of the tarm is fluctuating,
and this yearly to a greater or less extent and this yearly to a yreater or less extent
To prosecute one or a few branches alone is very risky; ruin is too often the result With the dairy this has less force ; yet for
the past few years there has been loss loss with inferior and less properly man ment; now it begins to look up again Thus changes are constantly occurring. We need not point out the folly of being
governed by these clanges; and yet this is done. There are two ways to take ad vantage of the changes. One is to carry
all the lranches (where clinate and soil will admit) ; the othere is to thate and soil
whly piosecute what bets treatment. Duriug all the time of the low price of wool and
loss iu sheep, there were those who mad it pay. They had good lambs and a near mariet, and secured good fleeces from
being of a good quality, commended a fai price; the whole put together showing a
fair profit on the outlay; and when the times changed and wool and mutton were in high delsand, they mot their goldes oppur unity ; they diu not need to buy and with all kinds of produce of the farm. The best always finds a sale; anc $\mathbf{i}$ : largely produced, on judicious outlay, cansot help ut remunerate when a good market is eadily accessible. Cattle a, d sheep should of the farm. Poultry on a small scale can be made to pay well. But there must be grod breeds and good treatment; haphave a place set apart tor fifty or a hundred hens! And il no more than a dozen heep are kept-the best kind, carefully ed and atteuded to, each sheep avelaging its lamb or more, and oiten filst quality as and quality of wool to correspond-who an not see that here is a nice little inme with a fair precentage of profit ? You thus have your lambs to sell, your wool, your eggs, a porker or two, a good
urplus of butter from a few cows-you have your oats, your wheat, your corn,
your clover and corn stalks to feed, and your timothy to sell; you have some clover seed to dispose of, some apples, nay be some other fruit, granes, berries,
veetables; you raise a calf $\boldsymbol{I}$ two, you hus have a chance for a perfect rotation, xtended or varied at pleasure. Your clover enriches your soil; so do your pascore and meadow properly manayed, your have an interest in the mapket of every farm product, and you cannot fail to get a igh price for some of them every year, $\omega_{0}$ what you do in the best way, then will you ride at the top of the wave.
how clover improves the soil. Professor Voelcher, the eminent agriculurist, thus explains how clover improves ractically acquainted with the subject nust have seen that the best crops of rops of clover grown from seed. I lave ome to the conclusion that thane is a gond crop of clover.
$*$
$*$
$*$
mount of rast
A riveral manure mount of miueral manure is brought dition of the soll. The clover plants take nitroge $n$ from the atmosphere, and manu. acture it into their own substance, which, leaves mposition abundance of ammonia. In reality, the growing of the clover is quivalent, to a great extent, to manu iag ith Peruvian guano; and in this paper larger qliantity of manure than in the argest dose of Peruvian guano which a $\underset{*}{\text { farmer would ever think of applying. }} \underset{*}{\text { It is ouly by carefully investi- }}$ ating subjeets like the one under conhowing the correctness of intelligent olsservers in the field.
agricultural schools.
For some years the government of the
United States have been trying the experiment of State Agricultural Colleges ; with what success the following extract rom the American Agriculturist ili, orms ns:- The general failure of the efforts to designed to be, seems to have turned the deas of private parties towards attempting something which may take the place
intended tor them, or at least do their rork. We understand that Thomas Judo,
wealthy farmer of Illinois, has about completed arrangements for opening an Industrial Agricultural College, in which practical and scientific studies shall be
pent to young men aud women. A farm of 100 acres will be attached to the college. Competition is said to le the life of business, it may also help our agricultural ool-

PRODUCE OF Wheat-WHY do WE plovgh

- DEEP PLOUGHING-WIDTH OF LANDS. This is peculiarly a wheat growing ountry, and reterence to the culture of average yield per acre be taken at fifteen
bushels, this would not be one-third bushels, this would not be one-third the
amount that ought to be produced upon amount that ought to be produced upon
soils now used for wheat growing purposes ; for it is well known that often fifty or more bushels have been grown upon an acre of land. Now, would it not
be interesting to look at some of the facts of interesting to look at some of the facts
of the cultivation of wheat especially, be cause of the amount grown upon particular soils could be produced upon lands geue-
rally throughout the Province the national rally throughout the Province, the national
wealth of the country would be materially increased.
The first question is:-Why should the soil be ploughed for wheat? First, so that the roots of plants may travel in search of al admixture, the chemical chances the go ou in the soil ean do so with greater
facility. Third, that the rains in penefacility. Third, that the rains in penetrating downward may increase its temcarry the soluble materials evenly throued the mass, and thus reuder it most homngeneous, rather than by their mechanical
action, washing the most soluble and action, washing the most soluble and to the lowlands.
2ad :-To what depth should the soil be ploughed? We cannot name the exact epth; for in soils mechanically and
chemicallycorrect we find that the greatest amount of disturbance which ean be brought about by any of the modes of
culture of the present day, is favorable to culture of the present day, is favorable to
the most prolific growth, and this can easily be understood, in part at least when it is remembored that the roots of plants travel freely in search of food in
deeply disintegrated soils. The wheat plant his two classes of roots-semiwal or
seed roots, which nd capual or crown roots, which trave an oblique direction. It would of the plant, that both these classes of
roots hive different functions to perform -that the crown roots are destined to take the ottice of the others is to so dil. whirectly the onnce of the others is to go directly
down wards in search of food. Now if the soil be not deeply ploughed, or if the sub she seed roonts cannot fulfil their office, and the organism of the plant must suffer. "It is often asked :- Whether should the for spring wheat, be narrow or wide?of the country is ten or twelve feet. Now if the frequent freezings and thawings of
winter have a beneficial effect upon clayey winter have a beneficial effect upon clayey
soil, the change producell will be in proportion to the the extent of surface pre-
sented, and therefore narrow rilges are preferable'to wide ones, and this is especi-
ally true if the soil be prevaled hy stagnant sufface water; for there will be morere
channals for its escape. Such "lands" will be realy for use earlier in spring, not
only for the reason that less water will he mesent, but we ause there will be agreater
anomit of sirface presentel to the action
of the sun's heat. If convenient, the ridees shouldynne east and wet rather than north
and south, so that all their parts may be equally hinefited by solar heat,-Lpotiures
on Agriculture, by Mr. J. Payne Lome.


## white mustard

So far, I am delishted with my whitemustard experiment. We had an oat
stubble on which the clover and grass Deacon's farm, and for want of a good outlet through his land I am unable to
drain it properly. Until this is done, it drain it properly. Until this is done, it
is throwing time and money away to try to was the prohlem I had to solve this spring. My English friend, Mr. Metcalle, suggested
mustard. It was a new idea to me. We
plowed three times-in other words sum
mer fallowed it. Then, in July, we sowed
it with white time seeded it down with at the sam tumothy. The clover is a good catch, and if it stands the winter the experiment wil far more valualles. The mustard prove a far more valuable crop than I expected
It has given me more food than I knou what to do with. I am feeding it out $a d$ libitum to all my stnck except horst The Merino sheep at first did not seem t t avidity. The Cotswolds seemed to know what it was, and fully appreciated their
privileses. The pigs literally devour it privileces. The pigs literally devour it
Even the little, growing ones, that I feer as high as I know how, eat considerable of their other food more perfectly. to diges net seen any voided grain since we com
menced to feed the green mustard. $\quad \mathrm{M}_{\mathrm{y}}$
 and thrive well on it. Of course it will no fatten a pig alone, but it is unquestionably
a useful auxiliary food. I have over ninety a useful auxiliary food. I have over ninety
pigs, little and big, and find the mustard a pligs, little and big, and find the mustard
great saving to the corn crib. We have
been fee beat saving to the corn crib. We hav
ben fee ing the mustard (Oet. 21st) to the inw for a few days, and so far it has not
ffiected the taste of the milk. The cow eat tit greedily, and if it does not affect the soiling crop next year.
You can sow the mustard at any time in the spring after all danger of frost is to feed off or mow for soiling. The land may be sown again, and a second crop ob tained in September, October, and as late into November as severe frosts keep oft wheat is not grown, and where land has to
be seeded with oats, mustard misht h grown with great advantage. Two crops crop might be plowed under for manure or fed off on the land, as thought best. The second crop should be seeded down
with timothy and clover. that the few English farmers who have tried it find it one of the best crops to seed with, say 10 July-getting a large
crop of hay the next season. A little arcrop of hay the next season. A little ar even plaster, has a wonderful effect on mustard, and in such a case it is just the crop for poor la
cal condition.
the necessity of better farming.
Mr. Harris, in his interesting papers in
the American A qricilturist, "Walks and the Americun Agriculturist, "Walks and
l'alks," writes thus in his last paper:"I want it understood that my faith in armers, grows stronger and stronger every year. I still believe in summer fallowing fallowing is a and an satisfied that fall weels can be killell, an I am making con
sideratle is the best, and my corn stalle. the cleansit I have ever hall-hetter and cleaner much land, and do not plough our lani We must raise lary have cleaner and, lrofit in farming. We must keop better
stock and fced urre liberally. We must
nake more maune. And we must take nake more mature. A
care of what we do make.'
vinter prospects for stock raisers in texas.
The stock feerlers in Texas are in dread that State this winter. The drouth has been protracted to an unprecedented exthe cattle are the cedar brakes and moun-

tains. | the catt |
| :--- |
| tains. |

A cut lemon kept on the watb, hand and


A writer to get lakge onions.
 pact surface, and thed ered then sown on the ecom-
he usual depth.
bird manube
The manure of hirds is richor than that o
animals, as the solid and liquid excrements ar mixe together; it is particillarly rich in nitro ben and eife to-phater. Thr or four hun
drad weight of the manure of pigeons fowls,
curkeyd eto frurys, etc., are of equal value with frm
fourten to eighteen loads of animal's man
plants growing in windows.
Thousarids who try to grow plants in pnts
tubs or boxes, fail, most'y because they lei th pors be exposed iot the hot sun. Now we never
een he roos- that is , the part which drawt un in a state of nature, and the phinuld teach
sund Nindow gardeners to shade the pott and boxe
in which their pants grow. Ano her cau*e of
fa lure is al owing the leaves (heing in reat it
 tar often be te asked why op ants did not do
wi in wind ws. and it is often dificult to an
wer without seeing the plants, but the senera
 taids $t$ reason that if half the roots of th
,lant are burned of repa a elly snd the leav
 cl is easy to clean off the dust by taking a lit
Htugh or briom and dipping it in water and Sirting,
inree tim
Farmer.
hedgerow fruits
HEDGEROW FRUITs.
The planting of fruit trees in hedgerows has
been frequently recommend $-d$ in these pageas but as yet it has not been carried out to an an
considerable extent. The other day, when in
 direction, fort $t$ e hedgerows of the farm of
very enterprising ayriculturist are mostl ery enterprising arriculturist are mostl
planted with apple, pear and plum trees, whici
ow yield a very good return. ow yield a very good return.
The fields are large, and the hedges which in
tersec: them are chieny forned of hhite tho
and
and



 not ever, yield a profitable return. This yeal
the croos so oboth apples and pears have been
exceedinuly liyht. but I can well understand by oxceelinnily lizht, but can well understand b
the apearan ce .f the trees that in the majurit of the seasns» th y bear havy crops.
It is worthy of mentiony that he chicer
inds on'v, which ca be kept until midwinter hen fruit generally fetcles a fair price, hav
been planted. The fears entertaind by bime
jeople, when the suljeet was monted a fev
years since, that it wou d en ourage dishnne
habitt amongst the boys if the village, by pla. cing them under te , prations they woull he un
able to resist, have turned out $n$ be proundless of course, now and then a few apples ani
pears are take by the boys but my friend as
purred me that the liss during the season wa
 N.t preater than from those in the orchards.
The Oardener's Magazine.

Three pounds of rain water are placed in
vot over the fre, and when welb boiving ther
are added 4 oz, white pulverized wax, are added 4 oz, white pulverized wan, 1,1 ,
clear, trangparent glue in small pieces, 2 az



 with a brush and is very valuable for thootsand
shoes, as i can be afterwards polished w th a
lare large brush like ordinary shoe-thacking, show
h hith porish, and deenot moil the elothing.-
Manufacturer and Builder.
to stop a leak
Beat yellow soap and whiting with a little
water, into a thick paste. Rub this over the
part where the leakage is, and it will be in
stantly stopped.

the chicken cholera.
This disease is sprea ing omong the poultry
in many of the States, and it is not confined to any class of fowls, Front the Inwa Home-
stead we give the symptoms of the diseose aud a remedy:
-. The first symptome noticeable are : the comb and gilis turn purp'e, and an irclinaticn to loeep ensues, and on being disturbed, they
rrouse and look as briglt as if nothing was
the the matter. They live but a day or two after
teing affected, and nonc recover. Scme farbeing affected, and nonc recover. 8r me far-
mers have oost all of their chickens and most of their turkeys in a few days after the dis-
exse got anong them, from forty to fifty dyease got all
ing per day.
"Remedy in to dro $p$ and lonk sleepy, I give them water, and repeat tahlespoonsful of string alum
enme the next day. I water, and repeat hed with stmpg alum water,
feeding twice a day for two or three days, of erwards. Ance a week. Since commencing chis practice I have not lost any.
"Another cure is to give as fes
noter cure is to give as fed cooked In-
dian nueal, red pepper. gunpowder, and tur-
 ior a wtek or two.
AB a preventative it is best to have the
 orten as once a week, and sprinkled with linie
oword ashes.
". Death, it is said, usually takes place in abrut three hours. shorts in ther remedy is : Take corn meal and mix with liual pas strong as they will eat tit.
mind and and For turkeys, qeese and ducks corn soaked in
lime water will effect a cure.

## fattenina fowze.

The way they fatten fowls in England in nply as welt here as there, substituting wim meal for oats :-
It is hopeless to attempt to fatten them
while they are at liberty. They must be put while they are at liberty. They must beput poiltry appurtenances, need not be expen-
sive. To fatten twelve fowls, a coop may be ve. To fatten twelve fowls, a coop may be Chree feet long, and eighteen inches wide,
made entirely of bars. No part solid - neitheer
top, sides nor bottnm. Discretion must be top, sides nor bottom. Discretion must be
nsped asto to the size of the chickens put up.
They do not want room, indeed the closer they are the better, provided they can all all
stand up at the same time. Care murt be to be together, or they will fight. If one is quarresome it is better to remove it at once;
up. The food should be ground oats. and may running along on the front of the coop. It
may be mixed with water or milk; it should be, provided it does not run off the board.They must be well fed three or frur times a
day, the first time as soon after daybreak as may be possible or conver ient. and then at at
intervals of four hours. Each meal should be cleanch and no more than they can eat up
Whey done ferding the be spread i it cances them to freed and thrive.
Alter a f ntright Atter a fortnight of this treatment your will
have good fat fowls. If, however, there aro have good fat fowls. If, however, there are
but five or six to be fattened, they must not have as much room as though they were
twelve. Nothing is easier than to allow them Che proper space, as it is only necessary to
have two or three pieces of wood to pans
through the bars and form a partition. through the bars and form a partitifn. This
may als? serve when fowls are at diferent degrees of fatness. This requires attention, or Lrees ow ill not teepp fat and healliby.
fos sonn as the fowl is guffichty
$\qquad$ must be killed. Atherwise it will still net tre
at. but will lose flesh. If fowls are intended or market, of course they must be all fatit is better to put them up at such intervals as
will snit the time when they will be required or the table.
time arrives for killing, whether hey are meant for market or otherwise, they
hould be fasted withont food or water for 12 or 15 hours. This enables them to be kept
or some time atter being killed even in hot
weather.-Live Stock Journal

## HAERNMAKEN ADDVOOAEME

## 

alue of the warm bath The warm bath is a grand remedy，and will
often prevent the most virulent of disesses A person who may be in fear of having re ceived an infection of any kind．should speed－ tiy plunge into a warm bath，suffer perspira－
tion to ensue，and then rub dry，dressing
securely to guard acainst cold．It the systern securely to goard，aaminst cold．Ify the syss erf
has imbibed any infectious matter，it will cer－ has imbibed any infections matter，it will cer
tainly be removed by this process，if it he re－ ainly be removed by this process if it he re－
orted to before the infection has time to pread over the system；and even if sime time has elapsed，the drenching perspiration
that may be induced in a hot bath will be
pretty sure to remove it． pretty sure to remove it．
hmalthy drime
This may be made by abont two traspmon－
fuls of oatmeal and a tumbler of water．This tonoe nourishing，unstimulating and satisf ing．This is also rapidly coming into nse ic
largeestablishments where men work muc
in the heats largeestabishments where men work muc
in the heat，It has long been used in the
large hase factories and iron foundries of ope，vand it is comis coming into uro ure in our ow onvernment works．In the Brooklyn Navy ard it is a agreat favorite，two and a half hs y cold water．
It is said to be better than any of the which our farmers use in the harvest feeld well－known medical writer says that＂from it is obtained power to sustain the exhausting seem it tried with great satisfaction，we hand wo commend it to the attention of our hard
working friends in the harvest field．
american diet．
We are a greasy people，from the pork fat
f Jem England to the hamfat of the South； we wallow in greasy food．This becomes ran cid an the stomach，and superinduces wha －Urquhart pronounces the sum of all dis ghtena，Chinaman and coffee that woul om doses of alcoholic fuids，which eat int ae coatings of our intestines，and destroy the
stric，uices： We ．o to bed overtasked
ody and mind．sleep，with sluggish blood in a ody and mind，sleep，with sluggish blood in
分tof staganation，and get up oly $r$ bedroom windows．
We Strain our mental powers to of pleasure ension，and end，old men and women befor ur time，or die，or fill a cell in an insane asy His item from H ． hasisome valuable hint American cotemporary The proverb is a good one：＂When your neighbor＇s house is on fire，lock to you
how＂do we take cold
＂By，sudden changes of temperature of ninety－nine out of every hundthe tongue whomay read or hear the question that heads this article．But how do sudde anges of temperature，give us cold ？To sudden checking of the pores of the skin sensible perspiration，sudden chor in circulation，by which the blood is thrown causing congestion inward，upon the vital causing congestion，etc．All these ar them，be connected with tro sulden or to short，even when orature，but they fall accounting for that very toyether，of amazing，and too often seriously injurious infliction，${ }^{2}$ alb bad cold．
ces in which we have count scores of instan sudden and very great changosed to ver ature，from warm to cold，without othe while we can also anuncomfortable chill which we can also count mave ing instances in without being alle to tell haw or when we anne by them．The slight and almost
imperceptible，frequently ynobserved，cau－ sunperceptible，frequently unobserved，cau－－
ses of cold have not，perhaps，been as

屏
closely traced as they should and may b
It seems not so It seems not so much the change as the pleasant result．The leaving off an accus tomed garment，even when the lack is not
uncomfortably＇felt．the exposure of uncomfortably felt，the expnsure of the
feet to wet or chill，a few minutes with the head uncovered in the cool out－door air， but above all，exposure to a draft of air， especially，as is generally believed，on the examples．lof which most of us have had melancholy experience．
Indeed there
Indeed there seems to be，especially to certainty of cold in such currents of air There may be no chill，not even uncomfort－ able coolness，and yet the：symptoms！of a old manifest themselves almost as sudden－ he introduction of some irritating sub－ stance，snuff，for instance，into the nos－ trils．By immediately heeding the warning of the first premonitory sneeze，and at to avoid the cause，the cold may be and ften is averted．But the danger is that the cause，being so slight and coupled with 30 little present annoyance，isl apt to pass
annoticed or disregarded until too late． We have all at some time lexperienced in urselves exceptionally sensitive conditions nder which it seemed impossible for us to cold on top of another ：＂what a gentleman ot long since in the presence of the writer alled a＂summer cold，＂，in which one he is $:$ it is a sort of sweating cold，warme the most disagreeable if not the most dangerous classes of these inflictions．In his condition，the slighest draft sets one soid constant accessions to the malady But why ？The sudden change of temper－ ture theory will certainly not explain hose cases where it is hardly possible to
preserve a temperature sufficiently even to prevent taking cold，and those cases where
old is taken unconsciously．No hyp cold is taken unconsciously．No hypo pon the mucous surfaces of the lungs an mena of a certain class of oolds．That here is such an irritant in the air，in uantities varying according to the meteo its properties and effects are not yet prehaps ully understood．

The 番orse

## stable economy

The Turf Field and Farm makes some good
ugbestions to horse owne s as to stables．They should be light，dry and well ventilated．Dail Sables and back ventilation bring on bicidness
glauders，farey and other diseases．Ground
loors are preferable for hrses to stan llauressere preferable for hirses to stand up，n，
particularly in hot weather，but they also pos－ particularly in hot weather，but they also pos．
tss disa vantages
When hors stand on
board floors their feet should ioe moistened fre
 hould be often s．iled，or mashed out with scalded bran，to prevent constipation，restore
the appeti e and p exerve the e．ndition for fu－
ture service．
how to gatrex a hur
Tu fatten a hurse that has fallen off in fle vork uf months．The following suggestions
The to accomplish it，however，though without pa
ternity looks to us as wi：e and to the purpose －Many good horses devour large quautities o rain and hay，and still continue thin an oor ；the food eaten is not properly assimi
ted．If the usual food lias lieen unground rain and lay，nothing but a charge will affec nny desirable
the animal．
In case oatmeal c ninot le obtained readily
ningle a bushel of t $4 x$－seed with is bushel arley，one of of ofts and another bushel of In Ineal．This witl be be fair proportion a for all
in food．Or the weal or rn，in equal quantities，ne ny first be pra－
food．Feed two or three quarts of the mix－
ture two or three times daily mingled with ture two or three times daily，mingled with
peck of cut hay and straw．If the horse will peat that cureedily let the the quantity be gradually
eat the will
increased until be will increased until he will equt four or six quarts a
every feeding．three times a day So every feeding．three times a day．So long ain
the animal will eat this allowance．the quantity may be increased a little every day．Avoia
the practice of allowing a horse to stand at the practice of a alowing a horse to stand at a
rack well filled with hay．In order to fatten a horse that thas run down in flesh the groom
should be very particular to feed the animal should be very particular to feed the animal
no more than he will eat nn clean and lick his no more
manarer
graph．

A MODEL Horse－Stable
The teams of a farmer are of so great value
eelatively to his business and other invest－ ments in it，that the best care ond shelter which can be given them are，in the end．the cheapest．It is not necessary to build the
costliest stable．but it is nefdful to their health and thrift to have those which are comfortable．And if this term＂comfort－
able＂is rightly understood ale is rightly understood，and can be ap－ he has a a mod one，be it costly or chear．In
the stable the horse is at rest．and hall．the cir the stable the horse is at rest．ald all the cir－
cumstances around him should tend to give
him quiet，healthful rest． cumstances around him should end to give
him quiet，healthful rest．To this enl．the
stable should not be low，dark and damp，a stable should not be low，dark and damp，as
often is the case with basement stahles． iten is the case with basement stahles，
it is low the light must be dim，and the air at
times，at least，bad． times，at least，bad．If damp，though warm
the horse becomes dull．contracts cold，and the horse becomes dull．contracts colds，and
shivers．on exposure to the cold，outside
On the other hand，stables that are to
open should be avoided，though we stould prefer this fault to the one we have just men－
pion toened．for the horse provides himself natur－
tally with an increase of covering on the ally with an increase of covering on the ap
proach of cold weather，and this increase is usually somewhat in proportion to the cold
habitually encountered．For instance， horse turned into the open yards to winte
will have $\Omega$ thicker stable．But when a a horse is tied，it is had
in the the
trealment to th treatment to let him be exposed to the air，
drawing in at a score or more of wide cracks beween the boords covering the stable．
The chief condi ins，then，of a comfort able stable are plenty ff room，including height，light，dryness complete absel ce o
external draft．a cons＇ant supply of fresh air and a tenperature that rare y fals below the
freezing point．A realiy rood stable alway
 Interinary

## Give the followine ball ni

Give the foll，winc ball night and mornin
uatil the bowels are freely opented，when it $i$ it then recominenced：－－
Powdered c．lchicum，two drachms；calomel， one ecrupie：in iau，one dract m；al ，es，one
drachn ；fowdered capsicums，halfi a drachm drachm ；fowdered capsicims，half a dranho．
Should thite not suceect 1 ry the foll wing
drink，which in some cases is tven tnore tffec． tive：－
thdide of potass－ium，one drachm ；su＇phuric
ener，one ounce
 gruel，from a a hit le．Keep horse blanikete
and comfurtalle，and give ailernately soft and
dry food．
$\qquad$
There are numerous recipes for the destruc tiun of this holuxehold pest．（One of the best is
the following：Scald the bedsteods，and wipe the following：Sold the bedsteods，and wipe
them dry nix ordinary lamp－uil with a litule them dry，mix ordinary lamp－－，iil with a lithle
guicksilver，and apply tois to the cracks with a
feather．
remedy yor nervous headache． A well－known Kentucky minister，subject to office the other day，says an exchange，diuring
ne of those attacks．Na jor Brown，for one ，was present，and proposed to relievere him in
ine minutes，which he did most effectually． The follow，tesert sie presul of com
as is used in making bread，and dissolve it
thoroughly in a yuart of eold water．With
his thorgughly shamp this thoroughly yhamp on the head for about
five minutes，scratching the head and the back
of the neck well with the fing of the neck well with the heag inger－nils．the back
ingene the hcad with clean，cold water．This those eaffictions of the head arising from de
ranged stomaohs．

## Satock and Bairn．

englisu shorthoris sales of 1872.








keep the cattle growing．
The most successful breeders of horses，cat ne，sheep or swine know from experience tha
although they may possess the best breeding animals，hey will not be successfful in produc ing superior stock if a continuons growth o
the young animais is not kept up． to begin in time at this indispen：able prepara tion for sulcess，the brood mares，cows，ewes
and sows are most carefully and suitably fed while with young，and－as soon as the yourg
animals make their appeararcé hey are takel
 are weaned they are not surp ouscd to want for food or dink a a single hour．
By this means a contimpus and lapia
growth is kept ul，and the auma＇s attein arye size and havy weight at an eally agra When breeding onimals are ent property fed
and comfortably sheltered fin winter，the bad effect（f such treatmot is is onter，the bat their own want of curdition－it is shared by
their own progeny，and can never be rentedied． Wheu yourg stck，are nat fed wel and com comes stunted，and no subsequent gancunt
gool treatment can repar the animals may suffer for want of priter proven Cer in sumpier and antumn，as well as in win growth and prevents ultimate success in the ，
over-feeding.

In the Prairie Farmer for October 5th，w Every one knows that a man so obese as be unable to walk，calunc be in a healthy state ；yet many feeders of stork look upo
the mon trously fat bulls and cows of fair－ size clebrity as nom mil types，fows the bovine
tribes．It iequires but little argumer to re－ fute so fallacious a nution．No doubt it varieties gf animals which exliibit the grea est di－position to fatten，ind to arrive early
at maturity，but the forcing of individual animals into an umatual state of obesily，
except for purely experimental purposes，is a practice which cannet te too stronyly deppe
cated．If 1 reeders contented thimelve with handing over to the butcher thieir hug perhaps，he very serious hut it is winforth nately too often the practice to turn them to
account as ires and dams．Were we to account as rires and dams．Were we to
judge at a cattle slow we certainly should fir empetition among the breeding s：cck． Unless parents are healthy and vigorous their
progeny are alumst certaia to be uut ealthy and we kly；and it is inconceivable that a exir mely obese bull，and an unnaturally fat
e．，w culd be pregenitors of healt hy oflsp：ing
We muld stock but we shon means imprive our live the thing．If we m＂t thave ponderons bull
and cows at our fat－cattle exhbitions，let condemn to specdy immolation those unlapit victims to a most absurd fashion；but in th name of conmun sense．Let us leave the per
petuation of the species to individuals in normal state，whose muscies are not replace by fat，whose hearts are not hypertrophied，
and whose lungs are capable of effectively and whose lungs are capable of effect
performing the tunctions of respiration．
profits of solling
Mr．II．Scdwick，of Cornwall，Connecticut，
stated at the farmers＇nueeting at Lowell， stated at the farmer，miveting at Lowen，
Marsachusetts，in Septemt er，that farniers in milk for the New York narket． Refferring
to the short feed of to the short feed of the fall of 1871 ，h
added：－











 on milke'--Rural Home.
It has been pretty well estap ides.


 in a geater rai it than for any oth her, and in is of

 stivy then carefaly:
dericit tu at Collego mominatede at the Marine


 Anit Iuwh farmer ipports an axperinent


















 nhipuextr antoan.






 possible, from the air. The usual way o
packiag in tubs and casks will uot do packige in tans and casks will mot do this in
as perfect a manner as is required to ensure
nice fresh aice, fresh flavor. A better way is to surround
the butter with brine nin the plan of the White pack?ge. In this plan the tub i i
made very much in form of the old Welsh tub except that it is more tapering. The staves are heavy, and heads are provided at both
tnd, sy as to make a package that will not
leak. are neay
nds, so
leak.
In pa
eld, and
In packing, the tub is turned on the smal
end, and a sack of cotton cleth is made to fit the tub, and into this the butter is packed
until it reaches to about an inch of the until it reaches to about an inch of the packove
for holding the upper head. A c'oth is now
 down. Then the head is put in its peatly laid and
the hoops driven home The and the hoops driven home. The package is now
turned upon the large erd, and the sack of butter drops down, leaving a space on the
sides and tip. strong brine is now poured
sing sides and tip s. strong hrine is now poured
through a hoie in the suall end until it fills all
tie intervening siacts. ter. The hole is is ights. It corked, and the but
ter is pretty fflectually texludel trat Ler is prety fflectually exclude i fr.m the air.
Butter put up in this way, we know from ac Dual experiupent, will keep a year in sound
condition and we believe would condition, and we believe would cross the At lantic and open as fresh in the L Lndon m
ket as when it left the dairy on this side.
We see no reaso why We see no reason why Canadian butter cannot be nade to ake a high sta : d in the Eng
lish markets, and command a much better
price the price than it now obtains. We know, from
our observation of Canadian dairy lands, that onr observation of Canadian dairy lands, that
they have the requisites for producing good
butter. What is needed most in is the introduction of creancries or butter fuctoi ies where there shall be high skill i Inandacturing, so thata unifurn, fine fall
and god textured butter will be obtained. -
Then, by adopting the " Then, by adopting the "brine package","
we have suggested, or something similar We. have suggested, or something similar, and
shipping the lots as soon as nade, or when
fresh. Cinadindis

the short hora breeders' conyentio The Convent:m of the Short Horn Breed
ers \& the United States anl Canada met Indimn nop isk, , state of Indiana, on November
27 th, to
take into lath, to take into conisideration questions re-
lating to the generall int rests of the theeders
of the country the proceedings epitomized from the 'Preport of
Farnier :The Coldention was well attended, com
 being represented, and some teing presen




 Cum, Mainie.
The Piesi teat ufued eme rat, arks rn the

 common stock a year oider, at the same time
ormunt n niy $\$$ ? The committee on bisisiness reported-
1st, that the C Ist, that the Conven:ion ap, oint a Com-
mintee to report a constitution, \&c., for a permanent organiza ion.
2nd. to consider the
inn of cattle at fairs, ,mbitracing the appointthe condition of the cattle. 3rd, the recorting cf pedigrees.
"Judges at Fairs." This eonsiderable attention and was fully discussed.
Mr. Pickrell said the committees on cattie
were not always sell posted, and frequently
asked to be instructed. With the general committee system decisions made are areoral
abiurd as weill as unjust. Prof. Miles pre ferred the ju'ging of cattle by a scale o
points and would recommend 1000 as the ag griegate, instead of 100 , as n suual. A. Waddel
stated the custom of th Ohi B stated the custom of the Ohio Board of Ag
riculture Inculture, Mr. Baker state inemlers of the board name the
Iow most suitable at the winter meeting; this gives general sati faction. Mr. Christie
Ihought this matter of the appointment j"dges was one of the important duties of the management of fairs, and that the selections
should be made with the kreatest care. On should be made with the rreatest care. On
motic. of Mr. Page it was recommended to
Agricultural Societies to employ only experts Agricultural Socielies to employ only experts
as judges, and to pay their expenses to and as judges, and to pay their expenses to and
from and while attendirg the fair as such judges.
It was Societies of prohibiting the practice of many judges is unfavorable to the making of corre t awards, but we think that the most satisfactory results may ee attained by balloting first
and consulting afterwards." Resnived "' That the President and Directors of Agricultural Aspociations are, in the
(pinion of this Couvention, the proper officers to arp int judres, and should be held rincer to arpint judqes, and
sibl" tor their fithess."
"Defini ion of
nizing thit confusion not on' Pry amano. Miles, recog. nime the public. revarding the terng breders to
he itgate the de. ignate the quality of blood offiered the following terms and defiritins in the form of a
resolution: pure-bred, full bred, thoronghbred as synonyms referring to a aimals of a di.tinct and well defined breed. without any
admixture of other biond. Cosss bred-ani. mals produced by breeding tagether differen
kinds. Grades-as the priduct tof a cross be kinds. Grades-as the priduct of a cross be
tween a pure-bred and a native. Hizh Grades blood animal of mixed blow, in which the The resolution excited a long discussion, bu
the question is now settled as much as the Convention has power.
"Hairs." On this queesninn there was great diversity of opinion, many cont-nning that excessive y hivh feeding
for fairs should be discouraved us tending
t barienness. Fivally the following resoution
was nased by a small majority:-
"Resolved, " That in the estimation of this Convention, it is not only necessary in successsecure animals of fine form. pdyree sc. secure animals of fine form. pedyree; \&c.
but they should be well fed and cared for ; at
the same time, we look the same time, we look upon the practice of
keeping up cattle without exercise and fed keeping up cattle without exercise, and feed-
ing thir thest capacty for the purpose
of show and sa'e as i jurions to the lhealth ot show and sa'e as i juri,
and usfefuness a b breders ',
". Pernanenet Orea inat

 Yesident, Dr. Duncan ; Vice-presidents, W.
Warfielt ani II. D. Chistie ; Scretary,
B. II. Camphe. T: Tieasurer, J. D. Dany Direct rs R.R. .Reymour, W. R. Duncan, E.
G. Bedford. Marley Miles, G. Murray, Ciaule
Mattlews, S
 King. M. S. C ckrell G. W. Glick, E. L
Emery. W. Pereival, I) S. Pratt, S. White
M. II. Cochrane, the two latter gentlenm
 lively interest was felt. The resolutions ap
pioved of and linc jin of the meetmy rlative to Veterinary
lull feeding profitable
dairymen, that it ways to feed cows with
all the foud thong all the food they can possibly consume
through the cutire milking season. To fully meet this sullly, grain season. Tort, for a
considerable part of the ti, form a part of this food. There are but
two short seasons in the two short seasons in the year when extra
feed is not ueeded in the diet of cow; one is in the flush of feed in the summer. I have never found it profitable to feed grain to cows when there was an
abundance of green pasture ; to feed extra feed for a cheaper one. More milk, it true, can be obtained by feeding ground yrain, and especially wheat bran, than by
feeding grass alone, but with me, the in-
crease has not paid the extra labor and
cost. But when grass begins to fail, it pays to make up the deficiency wo faith extra
feed, no matter at what time in the season the faiiure begins, and to continue it to The other season when extr. omitted is while the cows are dried of wheir milk. For a month or two in the winter, in this latitude, good hay affords
zufficient nourishment, unless the cows zufficient nourishment, unless the cows
have gone into winter quarters in low condition. But this season should not
not extend to their "coming in." Fhould not
should coming
commence beforeland to strength to endure the exhaustion of ap proaching labor. But high feeding at this cime is not alvisable, nor should it commence till the calf 18 a week or ten days
old. After that time, if she is well, an itrrease of food becomes necessary. In the season of active lactation, which will then have commenced, a cow cannot possibly
eat enough of ordinary hay to maintain her flesh and furnish the material for a
full flow of milk if she is what would bo full flow of milk, if she is what would be
called a fair milker. She must called a fair milker. She must at such a time be fed with some more concentrated
food, or fail in her milk or flesh. This fact seems not to be sufficienty appreciated by many dairymen. The loss of flesh after cows come in, in the spring, is quite com-
mon. It is so customary, that many farmers look upon the projecting bones at this season, almost as a matter of course. This is unfortunate ; but this matter is receiving more attention from the dairy-
men than formerly. More care is used to men than formerly. More care is used to
keep up the fesh of cows in the spring, and also the flow of milk in the decline of pasturing and early winter; it pays well to
do it. There must be a wide disproportion between the price of dairy products and grain to make extra feeding at such times inprofitable. The importance of feeding season is yearly becoming appreciated by dairy farmers. The amount of ground grain and mill feed used by them is now
very large, and annually increasing. Some very large, and annually increasing. Some reliance for extra feed, and it forms the
basis for basis for so large a share of his income that it behooves him to study the moost
economical ways of using it. It is doubly to his interest to consume as largely as possible at home ; first, to increase his
direct revenue as firect revenue, and second, to keep up the fertility of his farm. If in any way, as by
a skifful mode of feeding, or by cooking his food, he can induce his cows to consume an increased quantity and convert
it into milk ant flesh ho will it into milk and flesh, he will be taking his profits. And now, in these long winter evenings, is an appropriate time to study the digestive ability of his flock,
that he may develop their fullest can that he may cevelop their fullest capacity
for manufacturing his raw material into more valuable products.

FEEDING stock.
Overferling is as injurious as under
olin之: Prolably nore sickness occurs, es any other. In arddition to this cause eflan much fodler is wasted when stock are supplied with unlimited quantities. Even it is only within their reach, they will waste the remainder. Thero ise bits and amount which is just right, and either more or less than that is an evil to be
ynarled against. Owners of stock should With this, as heiby more interested and ot hired men. The proper supply may be measured by the appetite of the anima: that is necessary. When any is left in the nanger the beast has been overfed, and
when it has just enough it will eat and When it has just enough it will eat and clean. It is difficult to manage this with ont direct occasional supervision. "Where absencer is, the crib is clean," and in his absence much waste is almost certain to
 er, in 1832, and others soon followed Length, medium; extremes are to be


The stranger
Old folks and young folks, did you neve could ever act as barharously as these you animals are doing? What can be their reason or such tradment it carries its own tale s with profit t We hope in the next issue to give you some are in progress, but not ready for The cu'

The opinion of an
alist on the agriculture jou
btock-breeding of canada
A late issua of the Prairie Farmer say inclined to look upon their neighbors in the Dominion as a very slow-going people who do not increase very fast either iu
numbers or evidences numbers or evidences of progress and pros the past ten ycars Canada has the ceived an addition of over tan per cent. t her population; while duriug thirty-three years her populatiou lias increased from

It is claimed, that as a rule, the emigrants to this country andior to those who come English speaky, and that they are mainly dition. If the is in mnst flourishing con there do not compare with those of the Western States, the money value of them
greater on account conmunication to the sea board. The cliaracter of the live stock all along has been improving, owing to the skill of the hreeders, and the ease with which fine The system of general education britain. excellent, and is carried on muieh less exVensitity than here. The University of continont, hif ine finest, college edifice.on the the worid. The reputation of this finest in very hiwh well as those of Montreal, stand Sery hieh amnng the sreat literary and country, perhaps, can boast world. No moral, intelligent and law-abiding people than those found in Canada. If the cities
their growth has been a steady and sub- $\mid$ that has been in the United Statos two with its one. The Grand Trunk Railway, years is generally harsher,leaner and worth terprise only eclipsed by our Pacific road which was chiefly built ly means furnished by the geueral government.
roots and oll cake for sheep. If growers of combing wools should aise sheep primarily to produce mutton: should attend to the breed, and keep their ally , and should also try for them gener early, so as to sell the carcase-we should have wool from well-fed, young, healthy
trong, well-bred, fat shcep, strong, well-bred, fat sheep, which is just
the wool wanted for purposes arye sheep Farmers cannot keep these little to care on lean pastures, with but wool. And the grem, and have grood sheep run out when brought from Ening wool same caro countries, and treatment they had in these countries, and are often kept on soil they
are not adapted to, and are not fed suffi-
ciently. The wool from a Leicester
uch less than it would have been if the Now this will not always lada or Eugland. will yet learn that these so, for growers nore to eat than the small Merino and heir food should not cons st of Indian angel wurtzel and cild have some roots, re fed on corn the calie. When sheep verish, and the wool becomes harsh and bittie, while a proper supply of roots and ound elastic wool
meal to be fed with straw. When straw or hay, cut or whole is well ettes, and finely ground meal is spriukled on and mixed with it, the whole goes, in hee manner, to the first stomach, and the made available for complete stomach is Not only can the dairyman derive hetter results from meal when fed in this way time ; because of it can be consumed in a given

|  |  | Arivieits | ADVOUATC |  |
| :---: | :---: | :---: | :---: | :---: |
| reselel mature，to form | out producing |  |  |  |
| ysterous ghanges |  |  |  | 。 |
| as hins strugele is orerer | more than anything else，that disturbs |  | Nata |  |
| is not neesasary for the | produes scouring in inatie when fed alone |  | Iomer |  |
| per time to cut and | when mixed，by having the atition ot the |  |  |  |
| in inforeseasees or in in | well lang by the tite tit reathes the latat |  | Herse than was at ift，is |  |
| and a | more horouglly，but also more eisily and | die wifth Thim | beause hay will |  |
| eare |  |  |  |  |
|  | SEVENTH MEETING OF NORTH NORWICH FARMERS＇CLUB． <br> President＇s Address． |  |  |  |
| thre periods during |  |  |  | Some of our＂rountemporaries，says the |
|  |  |  |  |  |
| ay when the hot dry |  |  |  |  |
| ter，a supply of fodder per stage of growth to |  |  |  |  |
|  |  |  |  | Tergolina，and whick，so far as we can experience，is likely to prove an acquisition |
| （1） |  |  |  |  |
|  |  |  |  | 为 |
|  |  | which．through ignurance，has been much |  |  |
|  |  |  |  |  |
|  |  |  | mareutly improve the farma unless prect ded liy the drain． |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  | 1 make it pay，they intiod， | 隹 |  | man＇s hand to minimum． |
|  |  |  | For a sub－soil nioush I took a comm n iron |  |
|  |  |  |  |  |
|  | danaril of＇canail |  |  |  |
|  |  |  |  | went off to play．Whll was much longer to take all th |
|  |  |  |  |  |
|  | did | core |  |  |
|  |  |  |  |  |
|  | cosan ind |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| United Statas ber，eaneran and worth |  |  |  |  |
| mald have been if the che | 隹 |  |  |  |
| desp |  |  |  | chaps and＋xcoriations is madr as $f 11$ ws ：－ $\frac{1}{2}$ oz perinacetij molted tog ther with adrnohm uf white wax and 2 fluid out．ces of vi of alm－ |
|  | Altasile |  |  |  |
| have some roa | and |  |  |  |
| chate toin hatand |  |  | claims to have a comm $n$ and sub soil ploubh | A Word to Our Readers a and Cor－ for our next issue several orginal articles， |
|  |  |  | twelve inches．This is not very deep sub－a，il－ ing，but even at a d pth of only twelve inseses I |  |
|  |  |  |  |  |
|  | Some years aso nara Brantí |  |  |  |
| Leeals spiuk |  |  |  | dents，we are happy to say，are increasing in number，and their communications on |
|  |  |  |  | quite an interesting feature in the AD． |
|  |  |  |  |  |
|  |  |  |  |  |
| dina fiven |  |  |  |  |

Orthard and diforst
the EPANish chestnut A correspondent of the American Rur
Home advises the cutivation of this tre e:Many trees of Spanish chestnuts in thi son the nntit were not so large as usual. nor the price so high, but I heard of one man who
sod from a singe treet the am unt of $\$ 80$. so.d from a sing e tree t. the amount of $\$ 0$.
and I kn,w of other trees producing fr.m
tour to five bushels each. They gent rally tour to five busthels each. They gen rally
se 1 readily in the P. .illdelphis market at frum ${ }_{\text {thind }}^{\text {thirty }}$ to sixty cents a quart, acc An acre of ground planted wi.h Spanish the sama space planted with apple trees; no Woulifit be muxhl less profitabpe to plant out
the Am ricin chastnut, by carefully se ecting the Am ricun chastnut, by carefuly se'ecting
th se tearing large nuts. A tree here and
there may be formd bearing nuts almost equal thise beazing large nuts. A tree here and
there may be foud bearing nuts almest equa
in size to the Spanist. By propagating only time rival the latter it is uit coasted, or builed, that the Spanish chestnut can be eompared to the American.
Shoiald chestnuts becume more plentiful aad
cheap cheap, they mizht, in time, here, as in parts
of Frince, Itay and Spain, be ground fir food and car mpasan th and anderia alimentaria. Spanis chestnuts, like our own, differ greatly in size.
To grow them with certainty of large size, the best plan is to cut grafts fro"n trees which, p:o
duce the finest. They succeed per.ectly if grafted on Ame ic an chestnuts. They require
but few years to come into bearing.

## growing fonest trees.

The White Ash can be grown from seed
planted iil drills aid then cultivated. thinning planted ia dills aind then contivated, thinning
out by cuiting or transplanting. Plant the out wy cuiting or transplaning. Plant the
seeds ether in opping or fall. II kept ver it
shuld be wintered in saud which is slightly should b
damped.
The Coltonwood, for large quantities, is best
grown from cuttings. Crut in (nle fout tenght and bury in moist, but not wet earth, and set
out in spring. The Hoiney Loce s\%, Keep the pods till
spuing in a diy and coul place if not conveni sphing in a diy and cour place, if not conveni-
ent to plantin finl. If planted in spriug, the
seeds mut seeds must be inmersed in warm watter to
goften the hornyster I If phinted in the fall
this is not necessary, but some gonten the horny stee. If phinted in the fall
tlis is not necessary, but sonue tuay nut grow
till the second ytar, till the secord ytar.
Whens ripe, or kett in damp san t till spring,
most of wi. ich will temminate the first sea. $\underset{\text { son. }}{\substack{\text { most } \\ \text { son }}}$

## to make graftino wax.

Grafting wax is useful in $p$ uring to cover
woluds and heuce tis even whin not expectilg to glaft: The pro purtions of ingredients (al ow, lee wax and
rosin) arae cine, two and three in the oider named, though the Loudon Garden says this.t Where leessux is wery expen ive, oue-third
lo s will doo S. i well when wade and keep
in a coul place. Count.y Gentemand [We will add-To keep it fram sticking to ing it kep, then well greased; if yon app yo
rapid growth of tile chestyut thus
ling:
Serem yers
 sual chesthut seed.ings annong the shrubs
briars an! weeds which the former allowed to grew by the oudside, in the triee
sliftiess furm styte. The road being quite
 mising tree or sprout cecirred in the prope On itt e chest thet tree, not mare than five
or six feet hig i, I noticed in particular, he or six feet hig, I neticed in particilar, he
cause it had been twisted or grown in naturaly among the rails atid was very cronktd
but, as it stoo 1 the exact place where shade tree would be lesi abace, I Ilace carefully dis dis-
entangled the stem and remarked to my $\stackrel{\text { tree. }}{I}$ have just measured that tree. and it i
$\mid$ inches in circumference, and at six feet from
the
straia
the the ground. Last stasoo it pioduced a few
nuts, and this year the ends of the brancles
hend with their lo bend with their lo dd of ef large clinsters. Th
tree has rectived no care, except puning, th soil about its roots being covered witha totug
sod. Other trees upon ny pace tiave m.d
oqually as good growh. an I I on mention his one for the purpose of showing what
might be accomplisted in a few years, if a man wight be accomplisted in a for
wil only make a beginning.
sprouting white thorn seeds.

## What Lindon says of growing the haw

 C. When the hawth rn is to be raised fromeed, the haws should not be gathered unt hey are dead ripe, which will be in October or November. As many haws contaiu more
than one sed, they ounght not to be put into
the ground ent re, but if they are to be sown the ground ent re, but if they are to be sow until the puip is separated from the en's: , an
he latre san, to keep them separate and to cnable
she sower to satter them the sower
suriace.
" But a
"But as the seeds do not come up until the ce nd year, a saving of ground is made by
keping te en the first year in a liea, mixe with a sufficient quantity of scill to pryeve,
them from heating, and to focili a'e tlie decompositi n of the puip. These heaps ar
keptin the open air aisid exposed to the fuld
influeuco of the wert nfluence of the weatier; , care being taken to
turn them over frequently, at leatt orce the seeds are not to be prepared in a heap they sll uld be sown in November or Dicemp
ber, as soon as separated from the pulp; ber, as soon as separated front the pulp; but
when they are to be separated ty decomposition, in what is technicaliy called a rout-heap they need not be sown till the February or
even the Narch of the second year ; by which
means fifteen or sixteen months' use of the means fifteen or sixteen monnths's use of th
soil is saved. They may be sown thinly in soil is saved. They may be sown thinly hil
bels, the seeds being scattered so as to b about one inch apart every
about a quarter of an inch."

## ach seedlin

$\underset{\text { writes thuspon }}{\text { A }}$
Three years an american pape pits from yellow peaches which we quantity of from budderd trees. This seasin about a dozen
of the young trees fruited. All bure yellow peaches as large as tho.e on the original trees,
which are still bearing, and sone nuch larGer. The 'Prairie Farmer,' referring to thi
 thim 1s commoniy supposed.
[There is no tree more
peach tree ; none grows easily raised than the peach tree; none grows mire fieely from the
pits, , ind its cucceediag , row h is rapid.
hive had them to bear in the time mentioned
 transplant the young trees when sufficiently
grown. Hundteds of them ni ht be raised
 The, foiliage is re y yrrety and the tices, when of a farnerr's garden, or the ent ranctive to his
hoilss ; and whatever adds to the beanty of
ho the home and farru, increases in many was
its valuc.-As'sr E, E,]

等ccips.
The juice of bean polis is a sure cure fo

 shaving flud.

 coly
to prevent the incursions of mice Strew wild mint where you want to kee
the mice out, and hey will never trouble you.

## 

oduced and of wasting linen has been in eration consists in dist diss,lving ivermy. The pounds of soap in about three gallons of water as hot as
he hand can bear and adding to this one
ab espoonful of turpentine and three of liquid tab espoonful of turpentine and then be well
ammonian, the mixture must then the well
sitred and the linen steeped in it for two or
three hours, taking carte to cover up, the vessel hre hours, taking care to cover up, thie vesse
hreh contan them nearly hermetically ay
wossible. The clothes are afterwards washed possible.
out and rin
ond water timo, but in
turpentine a
must be add
reat eea
reat economy in the price labs is is said tuel. cause
When linen has been corched, use the fo'-
Wwing r-medy: Add to a quart of vinegar the Wing $r$-medy A Add to a quart of vinegar t
juice of half a dozen large onions, about an
woap rasned diown
 hick, and spread some of it on the scorcthed
part. Allow it to remain util dry, then
crape it off and wash. Two or three at serape it off and wash. Two or three applica
tions will reatore the
scorched that the fabric is is destroyesed. so wuch
ways of baking graham flout.
By this time everyboly knows how to make
Graham . gems by the unal method, which
simply to stir the batter just a little wifl shan gridle cake bat thr. and bake qutickly int
tity very hot oven. This thing is certain, thie thi
ner the batter the hotter must be the oven.
tis also the case that tems mixed with wat It is also the case that rems mixed with wath
equire a hoter oven than those mixed wit $\begin{aligned} & \text { So, if yo } \\ & \text { either mak } \\ & \text { flour and }\end{aligned}$ ith milk water quite thick, or mimple Grahan Houmik. Ski, med milk, is good enough.
hogh new or creamy milk makes the breal
 ain), a d then a scrap of clot
ito obuter upon it. rubhed over
revent the gems from sticking. House eopers who have no gem-panes ea
make very ice warm Graham bread for bropal
fast in several ways. Make in doush of flow make very nice warm Graham bread for brak.
fastin several was. Make a dough of tour
and sweet milk skimmed or cre my, as you
 thick, and cat it into diamonds: or cht of
strips and make it into rolls with the hand of
roll it in ins, ball stwo inches in diameter, flaten

 their pufting. Crackers are best with some
cream in the mixing, and crackers, require
more knealing thand diamonds and rolls, which anre knealing than diamond
are expectedt bo boft inside.
kinds of bread-diamond

 band we all think s at sur house), with wht salt,
but most people prefer salt in their crackers.
Hearth and Home.

## ithischlancoms.

how to choose your wives Cobbett, in his advice to young men, in hings ought to be done, but how to do time. Eating and drinking cone three may in the days of our health and vigo very soon get tired of heavy or bur
bread and of spoiled joints of maat. bread and of spoiled joints of meat.
Cobbett conceived that his model wi should be able to make bread, and if h
could have seen the baker's stuft' that no asses by that name, be would doubtles traces the pregress it in aigorons thenins. Heand's dissatis faction with an unskilthl wiffes maniputa-
tion of his food. He bears it for a time or two, but at the third time he lament wardly, at the fifth time it must, be an him from complaining. If the like con tinues for a month or two he begins to re-
pent, and then adieu to all anticipated de jight. He discovers when too late that
has not got a helpmate, but a burden.
Returning to the class for which he
pecially wrote, he says that it would be " pecially wrote, he says that it would be a
very good rule to have nothing to eat in
a farmer's or tradesman's house that the a farmer's or tradesman's house that the
mistress did not know how to prepare and cook. Never fear the toil to her'; exer there is no beauty."
Besides skill in domestic affairs, he inBesides skill in domestic affairs, he in-
sists strongly on good temper in a wife.
When When a man is actually "engaged," as
the phrase is, he cannot easily draw back without discredit, and yet it often happens that he only then begns to know any-
thing of the wonan whom he undertakes to make his wife. Temper is a very diffi-
cult thing to ascertain beforehand Smiles re so cheap, they are so easily put on for the occasion; and frowns are, by the lovr' whim, interpreted into the contrary--
Scolding is bad enough, but far better sotaing 1s bad enough, but far better
than sulks. "If you have your eyes, and Wook sharp, you will discover symptoms of this, if it unhappily exists.
The great practical
beauty is that it tends to keep of female band in good humor with himself-"to
band make him pleased with his bargain."Beanty in, in some degree, a matter of taste ; but still there are certain things
that all men admire, and a husband is alWays pleased when he perceives that a
portion at least- of these things is in his own possesson. Lesides, a main finds out angel" of whom he has got possession, and there are so many dampers of passion rood deal is wanted to keep a husbaud in
counterance in this his altere lightened state.
Cobbett does not go into the question what constitutes beauty. Ho contents the consequences which anc likely to re. sult from marryine a won:an "whom he
does not think han some." The marks of an intastious disposition are curious. He is to beware of "a lazy tongue," by which Cobhett means not a Further, he quotes a provelist speaker. meals, quick at work." Another mark of industry is "a quick step and a somewhat havy tread, showing that the forct comes
down with hearty good will." He does down with hearty gool will." He does
not like "sauntering, soft-stepping girls," and a sauntering girl is sure to make, a It whish wife and a cold-hearted mother.
It would have been interesting to hear what indications of character Coble ett
would have drawn from the Grectian lend and from that peculiar method of walking which is nece sitated by the use of exces-
sively high and narrow boot heels. Larly rising is another of Cobbett's his motern readers will have difficulty in discovering in the young ladies among
whom they will have to chioose. In the Whom they will have to chioose. In the
middlle rank of life, he says, late rising in
the wife is "certain ruin", he wite is "certain ruin, while early
rising preserves health and prolongs beanty. Cobliett's favorite bill of fare for a week was to roast a leis of muttone to-day, eat and then boil a leg of mutton and proceed as before. During a year's imprisonment ind desired nuthing mote or better. he represents hmeelf in his books, it ap vears probable that his domestic felicity myst have been occasionally interrupted called in homely language his poking his hose into the kitchen. But althounh we hay rulcs we cannot enouch admire the readth and nobility of his principles.Such a man as himself, he says, has no real have had all the numerous troubles. "I able delighits of home and children and at the same time all the bachelor's freedom from domestic cares." To this cause-that any other, he ascribed those labors which he cortainly did not underrate.

Corresponidence．
［We ask for communications and are pleased to receive them whether they are
in opposition to our views or not，but we do not hold ourselves accountable for way to ascertain the correct views on an şabject．］
the farmers＇advocate．
 placed in every farmer＇s family in the Domin
ion，and it should go free by Government trant


Ottawa，Dec．6th， 1872.
W．Abbotr．
TURNIPS－YIELD PER ACRE SIR，－I send you a very easy method of com
puting the weight of the turnip crop ：－ Whers turnips are drilled about 28 inches
wide and thinned to 18 inclese apart in the row， the w ight of an averaze，sized turnip mullti－
$p$ ied by 200 will give the number of bushels per acre．If the turnips are thicker or thinine
than 18 inches，weigh the produce of
tan than 18 inches，weigh the produce of a rod in
length f a drill，divie the sum by 11，and
multity by 200 as before．
I will now While now give sou my reason fir this．rule
day I c mmenced amony my to cannips the othe
 to be the wight ef an average sized turuip，and
18 inches apart jives 11 turnips to a rod in
length． 28 inch drills give about 7 to a rod wiae ： 160 ro ls make at acre which would
give the following result：－4 x $11 \times 7 \times 160$ am－
ounts to 49 ，280 lbs．，which，divided by 60 ，give ount bushels．This amount divided by bo，give
the th
averu，weight of turnips，gives a averie weight of turnips，gives a iotal
205 bushels
Testing the same rule by different weights Lurnips，it invariably proluced 205 and a frac
tion，hence 1 coucluded that an averaze turni acre；wourd makine the number of busbels per
a field of say 200 ． The more aco the po duce of 1 rod in length，divide the sum
by 11－the number of turnips in a rod， 18
inch s apart－and multiply by reckon ng，say 205 ．
ary in the width of drills and plants，but hough not a scholar，can reckon，the weight


Oro，Nov． 5 th， 1872.
，P．S．－The youngsters are very much please
vith Uncle Tom＇s Column．
COMMENDATORY
SIR，－Herewi h I enclose the subscription
for your waost excellent paper，which is ioing
an great deal of good amongst the fa mers oof estern Ontario，who are＂egiuning to realize the consequences entailed upout heen from hav－
ing reeklessly overropped their lands for a
lung successi $n$ of years；and as a necessity， they nuast now ：adopt the recuperative measures
which your pare so judicieusly recomend
to theitirnor ice，such as deep culture，subsoiling，

 ny tam ntar Paris with god general resulte accouts of my operatiois with particular re
sults．
Yours respec f flly

THE EPIZOOTIC IM
Sir，－Not having seen criodon paper for
 Lo the reseane it arisisng prevalent with yith have orfected the
If the
citizens of London as they at present affect us， can readilv sympathize in proportion with
Fo if you think it would be of any use ！ Everyone feels $i$－from the richest merchan th the p．orest workman，and，of ce urse，it it
the lat ler who suffer the more．Were it not for the oxen，bulls．cows，goats and everything
else they can get in harnesss，trade would heat
亚 taking still，and ac acis
take it its startin
fore been experiencel
Y our re dersen will，perhaps，be interested if $I$ give them a 4 light idea as to how the Exizootic
is troubling us just now，and $I$ will also ruate
what has come under my own notice Next to hread，ire is an important staff of
ife（if we can call it such）and in this city
where cordwood ip almost unknown，coal is
used for fuel．Cincinnati，having a population used for fuel．Cincinnati，having a population
of about 900,000 consumes an mmense amount
of it，and hundrctd of horses（somet f it，and hudreds of horses（sometimes three
to a wagg n）are empl yed to draw it to all
arte o a wagg n）are empl yed to draw it to all
parts of the city．The t ter portion of thees
horses are sick the consequence is，the meang horses are sick ：the consequence is，the means
of conveyance is limited，and to have coal con－
veyed to your holise xhorbi rant price for it inearly treble what c st a week ago．Those who can do their own
hauling are asefe，but what is to become of the
poor，and winter upon us？ Of and winter upon us？
Of the many street－car lines in the city，one，
only is in operation．OOe company has 250
On horses ailing，and the others have their portion
of sick animals．These cars．as many of your
Taders ane aware，run from one end of the aders are aware，run from one end of the
city to the other in all directions．They enable
a person who resides in the suburbst person who resides in the suburbs to reach his
place of tusiness in a short time，for the sum
of five cents and of five cents，and he can return home in the
same manner．In fact，they have b－come a
oublic necessity，and cannot well be dispen same manner．In fact，they have bicome a
public necessity，and cannot well be dispensed
with ；and the inconvenience caused by their with；and the inconvenience caused by their
temporary stoppage in mot well understood hy outsiders．But there is no grtting over the
dificulty，and people console themselves in talking ab ant their＂porr feet，＂and wish they
were shoemakers The This alone will tend to
still more e evate the estimation of the horse in still more e evate the estimation of the horse in
the eyes of mankind－of Cinciinati，in tieulr．
What
Was caussd most anxiety ammngst the itizens，since the Boston disaster；is the diffic
culty which would be experienced in getting the engines to a fire，the horses $u$ ed for this purpose being equally stricken．By the way，
theses are excellunt beasts，and they know their duty so well that the moment the alarm is iven，they，teing ready harnessed and nver
astened to their stals，prance out，fix them selves in their places before the engines，and
witit inpatiently till they are attencied to，and
then fff they go，as．anxious to get to the fire wait mimatiently
then off they yo，
as their masters．
Only one fire has occurred since the horse
were unable to be used．and that broke out on Sunday．morning last，at 2 o＇clock．Last week meetings were thele fort the purpose of procuring
volunters who would assist in drawing the inn
gines to fires while the ho gines to fres while the horses were unwell，and
on Snnday morning，quicker than was antici－ pated，in a mingute or so after the alarm
soun，ied，they had enoug men on hand for the purjose，and they reached the fire almost a
quick as ever before The result of this tria
Thes． quack made the peopole．feel easier in regard to this
himportant question．
The farmers seem afraid to come to town，and
when they desert us what shall we do？Y ester day morning on＋ 8 ．litary wagon and horse
strod where there should have been twe．ty and the owner（the sinner）being afraid to stable
his korse，no doutt，left tit tied to the wagn the
wh her whis norse，not previous，with a hlonket around it．
That farmer was not a Canadian． That farmer was not a Canadian．
But a few days ago a yoke of
But a few days ato a yoke of oxpri drawing
a wayon would attract nearly as much atten－
tion here as a circus．I believe most of the people never saw an ox befure fieve most of the the change
th v see them now on all sides． as y see them now on all sides．I I saw as mas mate heavy load，and a troupe a
present exhbibiting hree serendes the present exhicing waren．They couseo much
dailin in a forrox warm
sensation．Farmers are getting from $\$ 180$ to
 using；whether this is customary with you or
not I Io not haow．The process is simple ：
The ox is driven into a stout frame work， The ox is driven into a stout frame work
hoisted off his feet by means of a windlas
acting acting on a strong canvass plac－d under the
body；the head and feet are secured，and four
men men work，at once，one at each foot，and the
ox is relieved from his unpleasant position in a
few minutes． A milkman in endeavoring not to disappoin
 he was just trying the experimenel．；but afte
half an hours noble perseveralce and gent
coaxing，cumbin d with playfully tivit coaxing，combin d with playfully twitining it
tail and griving it the benefit of a raw－hide
arrond the legs，he could only get it to move about 30 feet，when，as if if th settle the matte
definitely，the hu lajd d．wn
rise and and would not rise atain until the harness was taken on．He
was taken back from whenece he came．
Souething laughable is quite common now
days
cothin days；but the funnieat thing yet was a horse
with a pair（it should be two pair）of wide red
pants on，and a comforter cund his neck．He
only wanted a pair of boots to make him com－
ont only wanted a pair of boots to make him com－
plete．Two gentlemen，desirous of having
drive plete．Two gentemen，desirous of having
drive，the only animal procurahle was a cow
they hitched her to a bugy，ant contrary
expectation，off she wtnt expectation．of she wht like lightning，jus
wherever she liked．Their leasant jaunt tee
minated in being
 with the cow，and the other with the burgry．－
They think they wall wait till the horse．．
better before they venture out again for．
drive，ag their drive，as their confidence in cout has fled．for
Many merchants are usiog men to
their wagons，and there are lots here only ton
willing to get the situation．A sound horse at
present present is rare，and these who have them are
reaping arvest harves．have ben informed that
the charge for taking three trwn afew days agn，was $\$ 3$ ，and the ne Depot hew days ago，was $\$ 3$, and the numerous
handcart men are equally exhorbitatat．
In mr recital of the above，I hepe $I$ have In my recital of the above，I hipe I have
not exhausted Your raders
when you next hear hare，and hane you next hear from me，also that we will
has now carried off abbist terrible disease，which
ho hors 60 horses up to the has now
present．
Cincinnatti，Nov．20th， 1872.
stop the paper

 Woodstock，Dee．Yh， 1872 ．


## review of farmers advocate．



 sect f and diseases injurious to the wheat erops
so 1 locked for it．ard find his acount of so 1 Iorked for it．ar d find his account of the the
Mi，ge substantially the seme as that of 1 r
Bethune bett more in detail．If Bethune bat more in detail．If nur Ontario
Government would apply a mall portion of
their surplus funds to reprinting that essar neir surplus funds to reprinting that essay，
and send few co ies to overy County Agri
cultural Society in the Province，to be by the
ditrib cultural Society in the Province，to be by the
distributed anongst their mambers．it woul
prove beneficial to the agricultural interes prove $b \in$ ne
generally．
As for Mr．St：rton＇s Canada Thistle Bill，
hope it will be strictly enforced in every locali


 bl om，cured as bayy，and stacked with a libera
allowance of salt．make eecellent fodder to
cows．They can be fed out wile cows．They can be fed out with a hay fork，so
that the tharp prickles need occasion no irco venience．The thistles should he cut arzain in
the fall and the ground ploughed，and the fol
lowing lowing spring just as the sown is is ging of fof the
land，sow with early red clover at the rat
12 pounds to the acre 12 pounds to the acre．The thistll s will shade shate
the young olover a first，and when thev are ont
just before midsumimer，the clover if it come np，will have a chance to get ahead．B
cuttin． the thistles and clever twice a y year
quantity of good fudder will be securedl Mr．M helir＇s poposed denouncin
 in op osition oo those breeders who，at a great
expense and risk themelves，have brought
tha：live stocke of the this province to its present de．
 of Governient influence will dounl lessly bu
brougit tolear to induce the House of Asem．
bly to gra＇$t$ the required am＇unt．But how wilt the caitle be dispuseel of when but hey are
imported？If they shonld be sold ty pullic
int auction，the Americans will carry off the bebi
of them，and if they hh ld be sold by privat
contract，we may be sure sone contract，we nay be sure some one will get the
lion＇s share of the hargains，so that the farmer
generally will be little the better for tht m．
 excelent things，if well managell，hut the
they nust he manazel by nraction fanmer
and nut mame mere plact of refuce foi
 everv section of the coul try will waide to tath
stock in it．The reapons why cur Canadia
agricultural jnurnals are no bo well supporte．
and as they cught to be，are not hard to find thorth
Amer can publikher have noreo appital tha
our Canadian publ shers，and，what is more the po nt，they are better supported．Norr
that to be wondered at．There are very ma farmers throughout the Stater are very man
afford to pay good prices for their can we we
that when introducel into this Province ， Hlure subscribersed by their morre atrir ctive a pearance．Pt should be recolilected that sone
of these papers were circulated to some extint
in the United States，sixty years ago，when the greater part of Ontario was hut a wild wnese
and the mostof thooe by whom the wild rnety
has been subdued，and brought into its presen has been subdued．and brought into its prasent
flourishing eoondi ion，were hard working men
nut，as a rule too much ocapied in obtaining a subsistence
for their families to

If fear the present generation must pass away
before we s all see a very seneral improve－ Whist some parts of the Province have euf－
fered from a severe drought，this section has
 the season，and，as a rule，the crops of all kind
are excellent excent，perhape turnipe，which
have suffered severerely by grasehon pera， have suffered severely by wrashorpere，Small
hrown grubs were in some phaces injurious to
the spring crops，and the dreaded Colorado Po

 use ahd lok well anter them．
The Midk and their own
but very litt＇e damage has weere not unknown
theen fustained from Shem．
the
It
It is not an uncommon practico here to eow
Glasgow wheat ta in in the fall，just before the
srow comes．It in spow comes．It ripens nearly as early as the
fall wheat，and if the ground be dry，frequent－
ly produces a hetter he spring．I would not recom whend this wria
tice in those parts of the country where pal tice in those parts of the country where earl
snow and plenty of it cannot be depended in
hut lut we are pretty sure to have enough of snow
here． I I have tried the Arnold Hybrid Wheat be ipens a day or two goon er，but it is shot tr in
he ear，and not to plump in the gran ar the
Treadwell neither isit Midge proof，so I sha the ear，and not so plump in the gra n as the
Treadwell neither it it Midge proof，so Ishal
not try it again． The Manitoba Wild Pea，mentioned in your
last number，is protably the same that I have
隹，adoun the size of a vetch．The Prencl asquaree as those of the fiell rea，but Tidin＇
think they are pert niol，for if they are outa
rear or two in suceecsion．before the peas are
 ner，the ma
kind of pea．
 in medic ine，at least 1 bave used none． 1 juist let the horses run for a wefk or ten dass，feed．
ino hem on bran mash with boiled tax seed，
boiled boiled oats and a litite hay，leeping then in
the stal le on wet days．and hev son recov－
 g whatev． r was dane for lim．and he ooon re．
 ery much in 1834 ghic The disorder is contapicus tept their horeseg at work ploughing an neighbors
hey were longer recoveling than mine，bat hone were lost．
My plan of keeping cabbages for winter use
ut to chonse a dry day beefore any frokt crmea and puil them un dy the ront any with as much
eat much
noth as possible，strip cif the outide eait th as possible，strip ciff the outside leaves
and set them un in the cetla，as colose tokether
as they can be placed，ard they will keep a long as they
time． Cstery trow close to the same manner，setting the
then 1 ring in acme muy be required，with a little ear as many bot betwas nay besto in tis way，nd they will imi rove
nualiy and $k e p$ beter twan in haly other
way：besides，they are always：t hand when wanted．

## Leeks may be kept fresh in the same manner， cutiny off part of the topm befere they orn oriught in．However，the cellar nuust be well Ho rivaht in

 The German way is probably the best where－．ever there is a fire place．$A$ flue is opened in he fontulation of the chin ney about a foot

 Maneter with ha libow at one end long ere igh

 verted syphon
Without some ventilation no vegetables
ou ht to．be eke，t in the cllar at any time．A cond wav for thrse families who havere either
ellar nor roit house is to preserve
 htm all uptmallt，gether atd prack them in a place a heary weinht on them；a a great deal of
water will crume frum them，wh ch shoull be be hrown away，and theu civer them with strong
clear ronine．Whin wav ted for use they thould

Grey，December，＇1872．Cras．Jolian．」

 St. Patul (Minn.
have conntratid fortididen to mak
the uni
theri ined editor $\mathrm{c} \sim$ mes ont Is his raper 'An
to wind, whiskey, us matters. Voz tianapolis Sentine stic whin presides
fine Journal. entle alluainn ${ }^{t}$
rarily roosting atinel. ly alludes to hi
hood and an aque zupon his rival reo
contemporary as a

FARMERS ADVOCATE


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## 5. Acrostic.

Joyful still and glad are we,
fter all our mirth and glee,
Now the holidays are pat $t$
Useful winter still doth last
And on evenings ow we'll spend
jeading in the ${ }^{\text {farmer's friend.". }}$
Your well-wi her still remember.
Battersea, Dec. 9.h, 1872.
PUZZLES.
N. ${ }^{2}$. X XE UR, XXUB ; I C U R No. 7.- AC 80 COAR ?
No. 8. - When may you be said to have put
No. 9.- Take four grains of corn and place
them so that they may be all equally d . stant
rum one another.
No. 10 .-Why is a widower like a house in a
state of dilapidation? No. 11.- Wh
the aiphabet?
PRIZES FOR THE BEST COLLLECTIO
OF PUZZLES AND GAMES.
To be sent in before the 20th of January, 1873. 1st Prize-Vick's beautiful Chromo-Lithngraph above. This picture excels any five
dollar chromos we have ever seen 2nd Prize-Vick's Floral Guide for 1873.
Something perfectly beautiful. Now I want every o o of $y$ y to send in lots
of puzzles of all kinds, and next mınths AD-
vucute will tell mho

PRIZE FOR ANSWERS. One of Washburn's beauti ul Clirımo-Litho-
graphs to the perron who sends the best an.
swers to puzzles, \&co, in this । umber. Look swers to puzzes, ec.
out for the names of winners in next number.
UNCLE Tom. ANSWERS TO PUZZLES IN DEC. No. $\begin{gathered}\text { Plenty of answers this time. See the roll of } \\ \text { honor be.ow. }\end{gathered}$ If your lips you wauld anav.
If your lips you would save from slips,
Five things observe with Of whon yous speak, , o whom you speak,
And how, and when, and where. Acrostic.- December.
rebos. - Hippoputamu. acrobats. -10 .
Correct answers to anarram, acrostic, rebus
and acrobats.- Edgar Weaver, Dereham. Correct answers to all excepting acrobats--
Elizabeth A. Wherry, Newry; John Cooney,
 Unionville.
Correct answers to anagram and rebus. -W . Correct answers th anagram and rebus.
A. Murrell, Markham.
Correct answer to anagram.-Thos. Winder Correct answer to anagram.--
Brownsville.
Corect answer to rebus.-Maggie Gard Correct answer to rebus.-Maggie Gara-
house, Maiton.
ors.
 lin correepondents deserve reat praise fus
ti eir exeecdingly neat handwiting. We faiied 1 st month togive credit to Flsie
Crais, of Milli en and Hariett E. Barns, of
 square words, pulli. hed in this number. Let
us hear frome you again. See our list of Prizzs
For PuzzLEs.
2. Double acrostic.



SQUARE WORDS
3. To unite, thucught, a proper name,a kind of
Elsalbage. CRaIG. 4. A kind of grain, to relieve, a part of th
Globe, an important part of a legal document.
HARSET E B B BREA.



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Red Winter Wheat........ 1 tn 107


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