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VOL. X. $\left.\quad \begin{array}{c}\text { WILLAMN WRLD } \\ \text { Editor } ₫ \text { Proprietor. }\end{array}\right\}$
LONDON, ONT., OCTOBER, 1874.


October on the Farm.
What of October? Any work for the for him to enjoy this month? We need hardly say to those conversant with country life, that this month brings work suf-
ficient for all hands, and that it also is a season of real pleasure. There are crops to be harvested now; the farmer must look that the fruits of his labor during the earlier months of the year are secured
before the first storms of winter. potatoes must now be dug and safely stored, and it is necessary to have the
work done in fine weather, if at all posWork done in fine weather, if at all pos-
sible. $\quad$ Potatoes dug and stored in the cellar and pit when the weather is dry will be better for use and will likeep better, with less danger of rotting. The
October weather of Canada is fortunately October weather of Canada is, fortunately for us, almost always favorable for this rotted potatoos than there are in more digging potatoes when the ground is of digging potatoes when the ground is dry
is that it can be done in less time and at less expense. The machines known as potato diggers do the work very expedigeneral use, but some patterns are well liked by those who have procured them. Many plough out considerable extent this may considerable portion of the crop is bruised and otherwise damaged, and that many are left in the ground.
he month-indeed it has been during hat they grow more during the few weeks of cold weather than in the warmer movember.
"Keep the plough jogging and you will
ot want feed for your horses," is an old not want feed for your horses," is an old
time proverb of the farmers, and it is still a good advice. Fall ploughing has many advantages. The land that is turned up rough and deep in the fall will be found he Spring. Winter is the great cultiva tor and fertilizer for those who are prepared for his coming.
he best for cutting foresters considered wool or other purposes. The firewood is said to be better, giving more heat and urning longer, and wood for carpenters Every repain to cable. farm premises generally, should now be done. Convenient and warm houses for stock in winter amply repay the farmer in
their good condition and economy in their food; and let not their condition now fall away. Cattle should be in good thriv-
ing order when housed for winter. Bare armer will have other feed to supply the
fare deficiency. There should be green food to mow and feed to them in the yard and The of the farmer's care. Farming is but gardening on a larger scale, and our aim fields approach that of the garden of our as in our power. Both should be kept
free from war free from weeds, well manured, and have in every respect a thorough cultivation. this should collected this month, and picked and not shaken on the ground. See that in pulling the fruit no injury is
done to the trees thereby lessening tise reat year's Fruit-apples especially-are becoming a staple product of the country. We may safely say that the apples of Canada can-
not be excelled, and we are glad to that the demand for fruit trees is continually increasing. There is a demand for all we can raise, and there is no fear that they Trench as much of your garden
can. You will find your reward in the case of working it in the Spring, and still more in increased productiveness. We
speak from an experience of many yors Fruit and shade trees may now be planted in well prepared ground, though
many appear to think it better to defer many appear to think it better to defer planting in this climate till Spring. work for October. Tender bulbs are to be taken out of the ground, and hardy bulbs planted for early flowering. In a
word, work judiciously and properly done at this season, will be the saving of much spring labor, and your garden will be the

## scott Wheat.

We have now disseminated this season than any year previously. It is now four years since we first procured it, we about it. The wheat was imported from the States. It was at that time mixed Thith a few grains of a bearded variety. picked out of it by any one that we are aware of. Some of the admirers of the Diehl wheat consider we have said too much in favor of the Scott wheat, and
not sufficient about the Diehl. The facts not sufficientabout as large crops of
are, there are as
Diehl raised as of the Scott, on good porous or well drained soils, particularly been more Diehl wheat ploughed under
riety during the past year. The Dieh1
also rusted worse than the Scott has ever been known to. Again, on nine-tenth of the clay soils. the Scott has out yielded the Diehl. Still farther, we sent out hundreds of lots last year, and in no case
have we heard of a complaint in regard to it, except from a few that might, or ought, to have known better. The greatest complaint that we have heard is that
the Scott wheat shells badly For the scott wheat shells badly. For our
part that is what we consider a good quality. Our farmers here carry too many light-headed loads into their barns that have not shelled in carrying or at any good one. We know that some of the wheat sent out is not quite as clear or pure as we would wish, but there has not
have been careful on that score. We did not raise quarter enough to supply the
demand. We believe that all will be demand. We believe that all will be
pleased with the hardiness of this variety.

## Fences or No Fences

Since our visit to France we have fredense population, cheat country, with its of money, and farms unfenced. The question arises-Is it an improvement over fencing or not ? It is claimed that more out having fences.
In regard to economy of labor in cul-
tivating the land fencer tivating the land, fences add to the cost. in a picturesque point of view, France will not compare favorably with the neat kept hedges in England, but comparing sigh unfenced land of France with our unhas the advantage. Our fences are fine nursery beds for Canada thistles and other weeds. The expense of keeping up fences on many of our farms amounts scarcer it must increase ; the expense of raising live hedges on many farms would It is our impression that value. of fences would tend to advance rather than retrograde from the present system. Soiling of stock would come more into pasture would be fences, as in France portable hurdles or wire fences would be used to fold stock on small pieces of ground, as required by adopting the soiling system. of it is astonishing on what as compared with pasturing.
In the cultivation of trees, whether for building, it is our impresakes, fruit or would be planted if stock was confined
than if allowed to run. This is a suhjeot that each farmer should consider, and no
confine his ideas to just his own farm locality, but to the country generally. I is our impression that the time is not fa distant when fencing will be optional, no compulsory.

## Manure.

Manare, cultivation and soed all require most care il to be sown, and whether thin or moderately thick sowing is most productive, are very important questions for him who muneration for his expenditure of mnney and labor. Nor is the mode of tillage of less importance than the seed; in vain in
the best seed selected if the ground be not properly prepared.
The importance of the subject we now take up is shown by the attention paid to it by all agricultural writers, and by the abor and expense the farmer bestows in
its acquisition and care. We have this season made a trial of manures of several
kinds and will briefly give our readers the kinds, and will briefly give our readers the
result of our trials. We have not measured the plots of ground or weighed the products, but we observed carefully the growth of the crops produced by the
several kinds of manure. We made a trial of cow manure of cow we mado a muck composted, of night soil, of wood ashes, of wood ashes with superphosphates applied afterwards to the drills, and of The largest yield has been from the muck and manure compost. The potatoes and a great many to each stalk. The cow, manure used without any composting did not produce so heavy ac crop, though from tloo the yield was good. Wood ashes of a superior quality. With this manure the same result we have always had. The tannery manure we applied liberally, and the yield from it about equal to that lasting benefit to the soil. It consists of waste hair, salt, lime and fat. The potacoived great benefit from it the latest planted and promise well, and I soon perceived the improvement it produced and this improved appearance has of the night soil I was wor the result pointed; it did not come up to the expectations 1 had been led formerly to form rrom it. I used it sparingly, though more
heavily than directed by those who had more knowledge of it as a fertilizer than I
had. There can be no doubt, however, the quantity to be applied to a of land there is a great diversity of opinion. "The night soil or sewage of thirty-five persons is said to be the
maximum satisfactory amount to be applied to one a are,", though it is applied on
Mr. Hope's farm, at Romford, England, in the proportion of 85 persons to an night soil of England in the course of single year is equivalent to $5,000,000$ tons
of the best yuano. We have had, as al ready stated, the largest yield of potaroes from a compost of cow droppings and much additional vegetable matter ther of the component parts would b good by itself, but both being mixed in so necessary made the whole one mass o muck in the very best state to afford the
food requisite for vegetable life, and for the great drought of the season they wer peculiarly suitable. I am so convinced o the value of such composts that I have a large heap now in preparation. For cur
rant bushes I have found that such compost adds greatly to the quality and size of the berries. - I intend continuing my experiments with manure the ensuing sea son, and hope to be able to intorm th confirms the lessons of the past.-S.

## Trip to Enurope.

ISLINGTON HORSE EXIIBITION We went to see this exhibition one ing is lined with carriases, Larness an hings also shown, such as churne was ing machines, \&c., \&c. The ring is Jarge good order, and under cover. Reserve mmanding a fine views of the rins erous horses were on exhibition in the ng, nearly all of them being for sale emate to theirs were showing (ift some advantase, and showgh themselves as well-periaysthey wer urze woven in them are erected for the ion at this place are princinbly or carriage horses, riding, hunter
abbs, blood and Shetland ponie he prices asked were very high compare and in Encland. We askel the to congood hunter. Three hundred guineas was the reply-rather over $\$ 1,500$. A span of small fancy ponies-little tiny
things- $\neq 70$, or $\$ 350$. Prices ranged from hese figures downwarils. Good horses sol eeing stallions, but there were very few here. The one that took our attention et, heavy bodied, brownish sorrel; he had good limbs and wide chest; he would stand under 16 hands high; his crowning point was his speed as a trotter; he yot in the ring, as he would not be out until the afternoon. The price asked for him was not near as handsome as $\$ 5,000$. He Saxon. We were not prei ared to purchose stock, nor did we go with that intent, but we thought, even on that score, the cost of carriage and other casualties, that the very doubtful, as but few would be found willing to patronise him at such a price as his services should commanc. Ahe ony roses, and for dash ing a short distance this animal we pre sume stands first class. The fast men will pearance, style, color, hardiness of constitution and real utility, Auglo-Saxon now stands his victor.
We siw a pair of patent sheep shear

A sheep might be seen with a man in at
tendauce, the latter having a novel kin f shears for sale. The shears are mad like two fine saws, something like the nches wide a mowing machine, about $2 \frac{1}{2}$ perienced hand could use them and that he could not cut or injure the sheep with them. We examined the shears and tried them on a sheep, and found them common shears. We do not consider that they are worth anything, but some might, rom the list of testimonials given, at-
tempt to gull you. We say leave them lone.

> team shearing machine

When in the County of Sussex a shear ing machine was reported to us bv practiinvited to go to the farm of an old friend and see it in operation, but our time was We feel we must go to England Australia. We feel we must go to England again ere make your paper more instructive. It was necessrry for us to return to look the crops we were having tested reports of you have heard something, and will hear more at the proper season. The fall wheat you also desire to know about.

The Ostrich and Her Family in hight with the bedouins in Hot Pursuit.

Of the most interesting denizens of the the parched peninsula of Arabia, not the we give a picture above. Being of great size, her short wings are
insufficient to bear her as do other birds, but her long legs enable her to run over wings, though short, aid her in the flight, on the same principle, but with much heater force, as a man calls in the aid of She needs all the aid they can give her for her pursuers are mounted on Arab coursers of the swiftest horses that speed
over the desert, and the camel, "the ship of the desert," while the spear seems as 1 Arab horse, which our illustration shows is well worthy of a place in any work, an the semi-barbarous son of Ishmael oy whom he is treated with all the kindness of a dear child, and he From the Arab horse have descended the prizest in Old England, and some of the that have the best in the continents of Europe and
Auerica.

## To British Capitalists.

the american express company Numerous British capitalists have invested
capital in Canadian railways, and $a$ just comcapial in Canadian railways, and a jast com
plaint is made by them that a proper interest
s not returned.
The cause of this is not returned. The cause of this complaint
is not because there is ,on work for the rail-
rond is not because there is no work for the rail.
roads, norbecause the tatiff is too low, for the
railroads have had more work than they could railroads have had more work than they could
poossibly do, and the tariff as regards the pice
paid by Candias has been high though to
give a high rata of interest. sive a high rate of interest. The canse of the
deficiency, we believe. is mainly due to im-
proper management of the controlling persons proper management of the controlling persons.
They may have had a friend they wisked to
make wealthy. Some of them perhase have
been anxious to add a little more to their own make wealthy. Some of them perhaps have
been anxious to add a little more to their own
hoard than they have arned fairl, by employ-
ing their abilities more to their hoard than they have earned fairly, by employ
ing their abilities more to their own interest
than to the interest of the company that has
paid them their salaries to look after its in paid them
tereotus, to
hired. We ben. We We cay
itish capit
 sense, has been takens out of the hands of the
railway companies and the express coms and placed in the hands or be taken into cossideration, who are the stock
h.lders of thio niary interest have the friends of the What pecu-
or directer or directurs of the railroads had in this com
pany? Why should not the British capitalist have the great proits of the carrying trade
Why have all smatl parcels, and sometimes
large ones, been detained so long on the road
 these railways? Fas it been on purpose to
rive business into the hands of this extor tionate company? We say extortionate, fo
we have had to pay this company just the san rate for a bale of bags, weighing 150 lbs. fri
this city to Thamesyille, a distance of this ces as we paid for a first class fare, which
mil
in only $\$ 1.50$. The cost for the and they occupy only a few feet space in a bag
gage room, the passenger a space in a firs
class car. Why has this freight class car., Why has this freight been given to
the express company? We can cite many more exhorbitant charges
than this. A fruit dealer yesterday told us company on one shipment of this extortit last week, by accompanying the fruit himself. If he had
not done so the railway company would not ot done so the raiiway
have forwarded it so soon.
Hundreds of thousands of dollars are an-
nually lost to the railway companies, by throwing the most proritalay companies, py throw- their business
into the hands of these companies and faverinto the hands of these companies and favor-
ing them.
rarmers, you as much as possible, would have to pay to unees more than you ought to or submit
to unneessary delay. The loss of the dividend that ought to go into the pockets of the Bri-
tish capitalists that have invested their money insh cap cauntry acts detrimentallhy on mon. If If
in oper dividends were returned we should have millions of money pouring into our coun-
try at five ver cent., to carry out improve-
ments of all kinds to develope our country. ments of all kinds to develope our country.
Farmers, you have to pay these extor
tionate charges of to express companies; hey are all added to the costs of the
yoods you get. In fighting your battles we
deem it risht to have this monopoly exploded
more reasonable rates, or have a curtailment
of their busincss.
If the railway of their busin sss. If the railway companies
will look into this matter, they aan return bet-
ter divi tends to the stockholders.
Better ter divi itends to the stockholders.
dividends implies motter
more money for Canald dividends implies more, money for Canada at
lower rates of interest, which again implies
more improvements lower iates of interest, which again implies
moresperity. Down with in jurious moater menoneral
prosp

## The Weather and Crops.

 during have had one of the most severe droughts ever known in Canada. Fortunathely the havesown cerops, winter wheat and hay were not sownerrops, winter wheat and hay. Were not
injured to any extent by it, but the iate crops,
in many sections, have suffered to an alarming
 pocessity of feeding mone has been under the
ner store of che thir win-
tereks and wwlls have become dry.
Many farmers have only watered their stock ter stor
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$$ causes the other to grow. We hope it an

come before this reaches you, but we writ
these remarks
hibitions.y.as we wish to se the ex
The thermometer yesterday wa
110 $110^{\circ}$ deg. These in the sunmemeter yerterday wareh was
dow. We should not be at all suruse win dow. We should not be at all surprised if
considerable of the wheat osown would be so
much injured as to necesitate mucch injured as to necesitate reseading in the the
spring.
hope of raising farm-rs any fall wheat, and will the no
 cheap. Make beef of what you can, he
gia to feed grain early. One bushel fed this
month wwill put on mach fat an two three
four or tive, would do, or ev. n ten, in cold our or five, would do. or ev. n ten, in ocld
weather. This will depend on the treatment
of the animal.

## Recent Stock Importations.

C. Moser, of Tuckersmith, one Clyde lale stallion.
Mr. Lawree, Scarboro, one Clyde mare,
one Clyde stailion, one Ayrshire cow, and one Ayrshire calf.
Mr. Lepere, two Clyde horses. Mr. Lepere, two Clyde horses.
A. Allan, of Montreal, three Ayrshire $\stackrel{\text { Mr. McEchren, of Montreal, twó fillies }}{\text { Mrs. }}$ -one yearling one and a two years old. Jas. Franks, Harrietsville, a two year ld Clyde mare.
Beattie \& Co., 150 sheep, 7 stallions and Ayrshires. Durhams, Cotswolds, Leicesters, horses and hogs imported by the several breeders this season, but they are more numerous
than usual. Nutter \& Beattie, we hear, are importing largely. Craig, Snell and others have also brought a lot of fresh hlood into our country. Our exhibitions

The Agricultural Emporium. Nearly all of you have had the opportunity
reading the charter of this institution. You all have had an opportunity to take one
hare. We presume the time is not far dis-
 and some of you will then regret that you had
not taken a share at an earlier date. You
Yill still have an opportunity, and we would re-
commend and advise one subscriber at each
and P. O. to anply for one. They can only cost
you so. You may gain hundreds in a year hy the alvantages that may be derivel
Remember, time past tever returns.
cheese factories in canada.
Cheese factories in Canada are said to be
There is no reason why many districts. in the Provinces should why

compete sucessfully with the dairy districts | oompete successfully with the dairy districts |
| :--- |
| of the United States. There is no danger of | glutting the market. The Western Rural has always taken the gronnd, and does yet,

that increascod production always produces increased consumption, if the commodity
only be one of gencral value to the com-
munity.

Oct., 18
(1)
A. G. deadm Dear Sir,I wish to
explanation in leading facts
given in one pecially as it
and condemna most disgrace verdict, irrespe
rules laid down sociation, by
the Rev. R. B
of the Fruit tively swearin
four highly
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Provincial Ag dent of the fir
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That no exh confidence in
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has complied Association ? the power, aft doing soo, give
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warded for $t$ apples.
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##   ain a greater general njurious monopolies ! <br> and Crops.  and woum ffered to an alarmin nds have been in ing atate for a lon ding atate for a place bee now has been under or less of their w  many gat the light sown

## ©ormespondence.

Dear Sir,-
I wish to make a few remarks in further
explanation in regard to the above suit, the leading facts of which are so truthfully given in one of your late issues-more es-
pecially as it merited the severest censure
and condemnation from you in that the and condemnation from you, in that the
most disgraceful means wer most disgraceful means' were used to gain a
verdict, irrespective of, and contrary to the rules laid down in the by-laws of the Association, by one member of the Association,
the Rev. R. Burnett-who is also President
of the Fruit Growers' Association-positively swearing to fowers' Association-posi- that were proven by
four highly respectable farmers (men four highly respectable farmers (men known reproach, and whose words are as good aso as
their bonds, three of whom exhibite in the
same class and section as I didid same class and section as I did, as well as in
other sections of the fruit department, and were opponents to myself by closely com-
peting with me for the prize) to have never peting with me for the prize) to have neve
taken place. It was the general opinion
those who heard the evidence at the tria those who heard the evidence at the tria
that he swore to facts that he must hav
known were perfectly untrue, and well that he swore to facts that he must have
known were perfectly untrue, and well
merited the contempt of every one present when we remember that he ouy ht to be the the
vindicator and exponent of truth and honor, also, that he is unworthy to claim the dis
tinctive name he bears, and is a disgrace to tinctive name he bears, and is a disgrace to
both the Fruit Growers' Association and
Provincial Acricultural Association both the Fruit Growers' Association and
Provinial Agricultural Association, Presi.
dent of the first and member of the Council of the other.
That no ex
confidence in in any institution where such
men as this Rev is men as this Rev. ""gentleman"" have the
ruling power is evident-who, by assuming ruling power is evident-who, by assuming
an authority not lgiven him by the by-laws
of the Society (see Rule 44) laid down for of the Society (see Rule 44) laid down for
their guidance, can, by his own arbitrary
will and pleasure will and pleasure, without any just reason,
cancel an award given by the judges, and
award it to any friend who may be an exaward it to any friend who may be an ex
hibitor in the same section.
Now Mr Editor Now, Mr. Editor, the great principles in-
volved in this trial were, 1st, can the com-
mittee mittee appointed to investigate any com plaint in their respective departments, can
cel or withhold an award given by the judges, if the exhibitor obtainings such prize
has complied faithfully with the rules of the has compied faithfuly with the rules of the
Association? 2nd, can they, or have they
the power, after withholding an award (iin the power, after withholding an award (in
case there have been found good reasons for
doing so) give such prize to doing so), give such prize to any other ex
hibitor who had not previously received any hrize in that section. I I decidededy say no no
and on these grounds I sued the Association and on these grounds I sued the Association
for $\$ 8$ being the amount of syy prize
awarded for the 2 nd best 20 varieties of awarded for the 2nd best 20 varieties of
apples.
Knowing that my fruit was correctly Knowing that my fruit was correctly
named, and that I had complied with the
conditions relating to exhibitors, I could see conditions relating to exhibitors, I could see
no valid reason why they should take it
away trom me wht first, no valid reason. Why they should take it
away trom me. At first, on applying to
Toronto for my prize money, I was informed by Mr. Thomson, the Secretary, that my
award was cancelled by order of the comaward was cancelled by order of the com
mittee in that department, and confirmed by
the Council. I then wrote to enquire on the Council. I then wrote to enquire on
what grounds, or how had I transgressed
the rules that it should be taken me. After two more letters I began to fond
out the reason:- That the the comptaint, out the reason: That on the comptaint,
thinks, of one $G$. J. Miller, that my frit
was incorrectly named; but when the furs trial came on, I was prepared to the prove by
six witnesses, three being exhibitors in the
same section, and who are ethe le same section, and who are the lealing fruit
growers in this part of the Dominion, and
who have been brought who have been brought up to the husiness
from childhod, that the names were cor-
rect and that my fruit was worthy of from childhood, that the names were cor
rect and that my fruit was worthy of the
second prize. They then totally abandoned this plea as
their defence, knowing they could not sus
tain such an excuse. We said, then, " pro duue the written protest sthat was "put in
(which the rules of the Association require) (which the rules of the Association require,
which will explain the reason for your set ting aside the first award of the judgese."-
This they could not do, although I had sub-
prinaed all penaed all papers and bookis reluting to the
matter. They could not produce tiins pro-
test or show that there had been one. dict thesen grounds I obtained my first ver
duce this protest.

THEF FARMMER'S ADVOOATE.
147
 son that they could produce such evidence
as would clearly show that a written pro-
test had been sent in est had been sent in. The. new trial was
granted, and now, Mr. Editor, mark the
evidence given in sumport of this evidence given in support of this new plea.
The morning of trial came on, with this
reat luminary, I believe awyer from Hamilton, from whose brilliant hetoric such a flood of light would appear
that the darkness hitherto surrounding the
case would soon vanish. Then there case would soon vanish. Then there was
the Secretary, Mr. Thomson, with ane Secretary, Mr. Thomson, with books
and papers sufficient, to all appearance, to
try a Tichborne case; and lastly, accompany ng this worthy pair, was the essence of
truth and purity, the Rev., R. Burnett
President of the Fruit President of turity, Fruit Grow. Rev. R. Burnett, Association
and member of the P. A. A., who came up the second time with the arrogano and pre acter of his profession, and the high position
he held, ('‘I am President of the Fruit
Crowers' Growers. Association and member of the
P. A. A." would have such an overwhelm
ing influence with the ng influence with the court that any evi
dence he might give could not possibly be
uestioned, and that the testimony of seve honest farmers and fruit trowers would sink
into insignificance; but did the jury sto insigniticance, but did the jury think
so Did this Rev. gent. come out of that
court as clear in conscience as when the entered it? Did the evidence prove, al-
though he distinctly swore to the efact, that
written protest was put in a written protest was pout in to the fo fact, that When
cross-examined, what did? he say? He could not teil what was the nature of the the complaint was." This worthy pretended he atced o
letter.
This wa
ing been
ing been put in.
Hear what Mr. Thompson said, a gentle-
nan who, I believe, would not sacrifice trut and honor to gain a paltry suit, or try to
establish a fact that did not exist. He said
noath that he had any protest, or reading reocollection of seeing
to Mr. Burnett. This agrees with any
his any plaint waes made to the cor think the comhad been such a protest, how was it he had not this one amongst his other protests,
which numbered twelve or more? He was
the the party to whom the protest would have
to be handed in, according to law. How
was it they did not produce the man who was it they did not produce the man who
wrote the protest and gave it to the Secre
tary?
I think this Rev'd swore that Thomson
handed him the paper. Further, look at this reverend gentleman's evidence. He
swore that he destroyed and tore up all the
mrize tickets on Thursday, in each section, when he and two others composing the com-
mittee had made any alteration, and threw them under the table. Did he do so in the
case of Mr. Wm. Buttery, of Strathroy, whose prize was witheteld, who took away
his ticket? Did he the of Mr. W. Armstrong, of We the cass
whot ook his away too, and his prize wa withheld? Did he in. my case, when 1
proved it was attached to my ruit during
the whole show and was there when the ruit was taken away on Friday afternoon,
another witness has since came forward tosay
she saw it there, too, on Friday. Think she saw it there, too, on Friday. Think
you that any reliance can be placed upon the Agstimony of such a witness
Again, he swore that your evidence of
what he said at the meeting of the Board
at Toronto, was untrue : that when you at Toronto, was untrue : that when you
brought my case before the Council as to
the reasons for withholding my priza the Reve reasons for withholding my prize, the
apple called the or or made outit was an
apple Aple among my pple called the Pear Apple among my
fruit that was incorrect. Now, I had n
such the first trial that it was not the Pear applee
by producing the apple istelf, which is a lat
Winter Sweeting labelled Winter Sweting, labelled amongst my
fruitas Wells sweeting. But on being
closely examined, he admitted having spoken of this axpline-this being the bottom of the the
whole trouble; but instead of coming for ward and admititing that he had made
treat error in ind great error in judgment in the hasty manner
in which he formed his opinion, and well knowing that I could easily upset this pre-
tense, they hazarded the chance of obtaining a verdict on a point of law-as to thei
right upon a protest to alter any award
had spoken to him about the way the junder
had decided, and in reply he had expressed an opiniou, that they had not hex exercised much much
judgment in making their awards. Now, it judgment in making their awards. Now, it
was the general opinion of all that this was
the only ground on which the award was wha the general opinion of all that this was
the only ground on which the award was
altered, and that this was that great writt altered, and that this was that great written
protesst that was put in, and that these great
men were prepared to prove men were prepared to prove, no matter ho
questionable the means used, so long as thei
decision could be sustained, decision could be sustained.
I trust I have vindicated a principle, that
no officer can violate or break the rules of
the Association the Association with impunity, and that
every exhibitor should have fair play in every department, no matter from what secpartialitit should be bhownes, so that that niaSara district might keep up its old reputa
tion as producing the best fruit, whereas
the western part of Ontario is fost the western part of Ontario is fast outstrip-
ping it in the excellence of its fruit and the intelligence of its fruit growers.
I hope and trust we have
Mers, who, as directors in this Association will make a motion and condemn the pro which is calculated to bring the Associntio into bad repute, to engender a feeling of
distrust anongst the farming community,
who Who can have no contidence that any prizes hem by the judges will be paid by the As-
ociation ; otherwise they will find out too late that t the farmermers are not to be be gulled by
the great and tempting offer of $\$ 2,000$ in prizes to be given a way, if they know and
feel it is not carried out in good faith whe properly and fairly earned -and faithen when
see that the working see that the working and carrying out of it
rules are violated, and some of its lead mas are violated, and some of its leading
men wanting in all that makes a man the
likeness of his Maker-when we see the likeness of his Maker-when we see the
main object is to pocket out of the hand some surplus remaining after paying all ex-
penses, Large emoluments to themselves squandering, as in this case, about $\$ 100$ t
defeat the honest payment of an $\$ 8$ prize efeat the honest payment
airly and honorably won.
Well may we exclaim, as many exhibitors
of the late show told them at the trial,
"It's the last dollar you will ever get out "It's the last dollar you will ever get out of With their meanness. I proctldy disgested ther of the gentlemen whether they would
have brought a lawyer from Hamilton, and hired an expensive carriage and pair from
London, besides paying the railway fare London, besides paying the railway fare
from Toronto, if the money had to como out
their pockets. their, pockets. I guess not. Its the he bill.
I must
must now, Mr. Editor, thank you for the
interest shown in my hehalf and for allow ing me space in your valuabble journal to ex
pose the doings of men high in power tuit pose the doings of men high in power hut
low in principle. Hoping your publication
may prosper and that you will ever lend helping hand to expose knavery, dishonesty
and fraud, and that the farners of the tominion may always have a helping friend in
the Farmers Advocite, I remain, your well-wisher,
A. G. Deapmas
Delaware, Ont., August, 1874.

Allow me to submit for your notice a few
pecimens of two kinds of auples, neither which, if we may judge from the few trees
sech, growing of then, are appreciated a.
they deserve. the "Hawthorn Dean " -spoken of as the
poor man's apple; the other " "Inchess o poor mans apple; the other-" Duchess of
Oldenbury" is equally as well entitled to
the appellation, I think. The trees from which the accompanying
fruit was picked 196 and 7 years old re spectively, planted X and 4 years ago, and
this is the second season both of then have
borne fruit The Hawthorn Dean is of Sicote origin, medium to large in size, pale yellow
with red. blush on sunuy side when ripe
constant, and not only aboundant, but very onstant, and not only abundant, but bery
early ybarer, while the dwarf bat, of of the
cee admits of its bein's plantell in sull ardens without inconvenience.,
The "Duchess of Oldenburg," The "Duchess of Oldenburg"
roundish, rather long apple,
right upon a protest to alter any award $\begin{aligned} & \text { ronnced and striped with red on a yellow }\end{aligned}$
ground, very tender in texture of fruit and
full of juice, making it a favorite with the
cook. The tree is as hardy cook, The tree is as hardy as the Siberian
crab, which of itself is a great recommen-
dation. Both veli dation. Both varieties are fall apples, fit to $\begin{array}{ll}\text { tember and October. } & \text { A. P. }\end{array}$ August 25th, 1874.
[The specimens sent us by Mr. Pontey, of
St. James' Park Nurseries, are of a good growth and perfectly sound; they are good good cooking apples-August 25 th.
have no doubt be they will make a fair these apples were grown on branch out two
feet from the ground. The hardiness, eatl eet from the ground. The hardiness, early
bearing qualities and utility of the apple for ear to be such as to recommend them highly to all parts of the oountry where
there is any diffculty found in raising the
more tender varieties more tender varieties. The sun, in some
localities, destroys the apple trees by strik. ing on the trunks of the growing trees. To be planted, so that the leaves on the lower
branches will protect the stem. In the western portion of Canada this. precaution the nore northern parts of our country. We hear of many trees, and even whole orchards
being nearly destroyed. It is our impres-
sion, and the impression of many fruit men, son, and the impression of many fruit men,
that the low stemmed trees are the safest nd bost to plant in such localities.-ED.]

> friction of machinery.

Will you allow space for a few words in
the interest of farmers who, in eapers and mowers, are careful in purchasing the ex-
reme about cost and and areme about cost and a good one? There
are soments which may be said to be are some points which may be said to be
placed before their eyes which they cannot
see. On these points a little light will do Ooe. On these points a little
good to all parties concerned.

Durability and Less Repairs. Every machinist knows there is greater
wear when the pits are not there being consequently mood and strains and
friction, which are the worst things to have bout a reaper or machine of any kind. "oo much play in the parts of a machyne is a bad
thing ; $a$ machine that runs easy, with bittele lay, is the machine. Good workmen make shop is a good point to todge from as to the
kind of work put in. Material is a point that farmers canno judge, so that the manufacturers who say
they buy at the cheapest market don't buy
the best. All know that best brands bring the best. All know that best brands bring
best prices. The present prices of reapers
will allow of the very best make and ma terial. Every machinist knows that separate pieces of iron running together is like a
candle lit at booth ends-soon worn out and the great friction is a continuous and and ac-
cunulating expense. cunulating expense. To lessen this trouble
Ball,hit mietal of every quality that is cheap
in used in ren is used in reapers, costing from 20 to 9 cts. per pound, while railway companies find it
cheaper to use Babbit metal that costs them
he cts. and more per pound.
Pitman boxes are made of every descrip-
tion of collected brass, without judgment reaper that meend yet there is no part of a reaper that needs more attention than this;
it should be of the strongest kinds, that al. 1ow of the greatest durability, and to mix
metals ,f the lest and proper quality is the
lusiness of a lrass founder man at that. Thom, Ifoum and Harry are not
alle to do this work properly, but Tom Dick and I Iarry are doing the work mostly
o the great detriment of the farmer Some parties advertise their reapers as
having Pittoan boxes of the best gun metal,
while few shol briss fon of making good l'itman boxes of gould think it heing the most suitable for or ofeam fittings;
but he can compound a metal twice as fle under strain and friction as gan metal cold not makers are like the brewer who
the pumer-he was too near Te pump; he used the cheapest material.
The heaviest machine is not always the Ierior. The lest will prove the cheapest to
all parties.

THE FARMHR'S ADVOCATE.












crop zbrom.

 the parb hir hard beanays they arit too shot th



Oltawa, September 15th, 187 .

The Otobor work in the aphay yillight tomp




 Mill arry tho molatese down and phaco it int
 weisht

Beak eepers who have pota aroper place to




tonly ixinghen atove the gurface of the










## 

TOCK \& DAIRY
artipictal cherse








 hnim racticed nearer Utica than, Brooklyn.-
heen in an ingenious device for adulteration, an
Iothing more or 1 ss.
No matter if the oil derived frore the tallow be chemically pure
still the mingling of it with milk to take the still the mingling of it with milk to take th
place of crame is adulteration, and though may not be a change of composition which
produces an unhealthful material, $i t$ is a chang which oceasions al loss of value. Thus the
schemef for artifial butter and cheese are
schudulent at the outset and even when we
 wide consumption, there will be materials use
variousty disguised, which are wholly untit for
entrance into the yystem. Then will the evil entrance into tric bytion now seems only mildly,
at the enterpise which no
ohjectionahle, be recognized and deprecated."


















dry earth for bediting.

## $\underset{\substack{\text { and } \\ \text { arid } \\ \text { aid } \\ \text { atid } \\ \text { tar } \\ \text { tar }}}{ }$

H. Gidanga, of Ilinain, haves the maner



 $\underset{\substack{\text { and } \\ \text { and } \\ \text { hat }}}{\substack{\text { and }}}$

## $\substack{\text { that } \\ \text { tat } \\ \text { eat }}$



 | stallifif tuly |
| :--- |
| dition for uet |

shekp rilled by doge On Wednesday, 15th July, Mir. N. McLe-
naghan, gth cone cesion, Drummond, had ele-
ven sheep killed and nine wounded by doga and that too in broad day-light. It it iogot
many wekg sine another farmer in the same
neighborhood had his stock diminithe in
 Council, a few years ago, in doing away with
the dog tan in this county. The tax enig re
moved, the number of dogs has since steadily moved, the number of dogs has since stewdily
increased, until many farmers keep two
three of these noisy, and in many cases usel hree of these noisy, an in many caseen useleer
and destructive, animals around the premise a good watch dog, or a dog for the churn,
now-a-days almost a necessity for some farm ers, but there are so many useless and super-
fuous canines held in ownership, both in town and country, that they become in a measure a

public burden, frw they have to live and find | subsist |
| :--- |
| land |

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Farme
Farmers should be extremely careful never the large dogs kept about the premises, and
the moment they discover them to have ac quired a habit of sheep killing, they should be
ut once cut off as cumberers of the land, even at once cut of as cumbe
if they do happen to be
dogs.- Ottavobs Cilizen.

## treatment and care of cows,

Water.-At least have a supply of pure
water in the yard for winter-better if water in the
could be in the stable and the cows not ob
liged liged to go out of doors except in pleasant
weather for exercise. Many farmers lose more dollars yearly than it would cost
dig a well in the yard, by driving their dig a well in the yar, by aning their
cattle, during the inclement weather of win
ter ter, to some ice-bound brook or frog pond to
slake their thirst. The cows come back to the barn chilled with cold, and it requires restore the natural warmth of the animal
and this amount of food is lost. The impor
tad tance of pure water has' been proved by
Prof. Law, in some extensive investigations where the effects of filthy and stagnant wa
ter oould be traced through the entire sys ter could be traced through the entire sys
tem of the cow, through the milk and but
ter. and he is of the oninit ter; and he is of the opinion that disease
of the haman family might frequently b of the haman fanily might frequently b
traced to the use of impure milk. In th instance referred to, the organisms found i
the stagnant water were fonnd dit the stagnant water were fond dif
fused through the blood and milk of the cow fused through the blood and milk of the colv
and produced a a diseased, feverish condition
of the system. This investigation, made by
a careful observer, proves conclusively th the germs of disease, and of a mailk s-spolin
ferment, can be introduced into the bloo
and into the udder by simplo




 have warm wrell ventiated stable;
 ing, whipping, or loud scolding be indulged
in--this last being sufficient, Mr. Harris in-this last being sufficient, Mr. Harris
Lewis says, to cause the falling off for seLewis says, to cause the falling of cor se-
veral days of twenty-five per cent. of
the amount of milk nsually given by the cow.
STABLEs.-It is a lam antable fact that so
little attention is paid to the condition of little attentiou is paid to the condition of
the building in which we keep our cows.
Ventiltion is entilation is something that is frequently
entirely over-looked, not so mueh, 1 hope from the inattention and negligence of the
owner as from his ignorance of its neeessity
Warm, ill-ventilated stable will save food Warm, ill- -entilated stable will save food, and the butter. Better the cold, open barn,
and than the close, poorly ventilated stable; but
there is no need of either. A little study
and application will generally enable us to and applicatio.
remedy both.
care of cattle
Cattle need special attention now, as
pastures get reduced, and feed becoming pastures get reduced, and feed becoming
soarce, they grow thin, and cease to yiild sarce, they grow thin, and cease to yield
milk abundantly. They should be kept in
well watered, shady pastures, when allowe mik abundanty.
well watered, shady pastures, when allowed
to run out, or in cool well ventilated stables, with plenty of well water at their service.
In either case, the value of sown fodder crops will become apparent, none of which
is better than corn, sown in drills and fre is better than corn, sown in drills and fre-
quently horse-hoed. Many farmers are now fuentlowing this method of supplying summer
food, but thousands have never tried it, even on a small scale. Do not negleot thorough
brushing, combing and rubbing. down of all horses, and such oattle as are stabled constantly. Labor thus invested will pay a
handsome return in times. Salt should be
lace in large lumps where the animala can placed in large lumps where the animalas can
lick it at their pleasure; notwithstanding all the theories against its use, practice has
found it to be of inestimable value to live found
stock.
cattle disease in connecticut.
The spinal meningitis is reported to have broken out among cattle owned by Eimer
Fatrchild, a cattle dealer and farmer of Newton, Conn. Out of eleven large four year
old steers, bronght from Michigan, seven old steers, brought from Michigan, seven
were seized with the disease a number of days aga. Mr. Fairchild, being unacquainted
with the nature of the disease, thought the with the nature of the disease, thought the
cattle had been poisoned. Too days after-
ward one of those affected died, and the following day another died, and a third was seized with convellions. A post-mortem
examination revealed the disease to be as above stated. The kidneys were also found highly inflamed. The farmers of this sec-
tion were alarmed for the safety of their own tion were alarmed
cattle, and the case having been brought to the notice of Mr. Gould, the Connecticut cattle commissioner, he sent word that he
would soon come and make an investigation would soon
for the ben
and report.

## mespar and tars wow

The Melbourne, Australia, Leader, in rela
tion to hydatids in sheep, and the transforma ti.n from thence into tape worms, bays:-
The annual loss of yeung sheop through be
 cranky sheep is put out of its misisery its haod
is divided and ttrown to the station dogs in an
Thus the hydatid in the is divided and thrown to the station dogs in an
uncooked state. Thus the hydatio in the
heep's brain becomes a tape worm in a dog uncooked state. Thus the hyorm in a dog,
sheepps brain becomes a tape worm in
and in a very short priod millions of tape
and and in a very short period millions of tape
worm eggs pass from the dog, and are drifted
bout by the-wind and are carried by water For weeks and months they retain their vi-
tality, unaffected by heat or cold, rain ality, unaffected my be heay or oetain, rain
drouth. Sheep, in picking up thoir food or
drinking water out of shallow pools or crat noles swallow one or more of these eggs, whic
in due course gets into the blod circulatio
nnd thus to the brain, to form a hydatid an mak thus to the brain, to form
make ancther sheep cranky.
and dog react upon one another.

The $G$
This organization in numbers, and $m$ are tully satisfied of vantages that will
time of issuing our ter of the National er of the Mithisan this city with the e
Canadians' in a Canadians in a
members of the ng established the not not feel inclin American control.
thren were not qui o Canadian indepe The officers of the ritod the America
and matters were a can be at present,
between the Nati Dominion Grange. meeting in Toronto week. We antici atthat time, and ger
be made for the dian Order. Subordinate our last issue:Division Grange
Aug. 10, 1874. Lecturer, J. J. C. Gifford, Secretar
surer; Sister Lea Pomona; Sister Bo
ner, Gifford and I Robt. Thompson,
Coton, Secretary, Robert Green, 41. -WE1
Robert S. Garne
Jonathan S. Page, Thomas Phillip Wm. Hill, Secreta The name of G
STAR.
The name of Gra We would call lic to the advertis
Co., of this city. are cesirous of
posing of land.
an extensive cor n extensive corre
nd Canada, and and Canada, and
selves much trouk selves much trou
might igsose of
sell to better ad sell to better ad
with them, as mu with them, as mu
pended by purch pended
suit, and many fa
were only known you only known yond the desired $r$ business men find
wants be known
vertising and cor vertising and cor
pay therefor unl

When this wh Canada it had a
with it. We kn the pains to pic grain shows a lit
We did not grou
our orders this we could procur
of chess of chess and tve
we were careful
had no bad seed

A New York
exguisite that exquisite that p
dies away upon


## The Grangers.

This organization is gradually increasing in numbers, and must continue to do so
as all those that have joined that body are fully satisfied of its utility and the ad vantages that will accrue. About the
time of issuing our last journal, the Mas time of issuing our last journal, he Mass ter of the Michisan State Grange cane to this city with the expectation of enrolling
Canadians' in a state grange; but the members of the Canadian Grangers hav ing established the Dnminion Grange, di not not feel inclined to come under the American control. The American bre to Canadian independence in this matter. The officers of the Dominion Grange in-
rited the American officers to a lunch and matters were as far arranged as they can be at present, for fraternal relation etween the National Grange and the The Dominion Grange will held its
Thinge. meeting in Toronto during the Exhibition week. We anticipate a hively discussio made for the extension of the Canadian Order

Division Grange No. 2 was organized
Aug $10,1874$. The following is a list of Aug. .ffcers:-M. Gardner, Master; J. Petch, Lecturer; J. C. Whitelaw, Steward; A.
 Pomona; Sister Bowes, Flora. Bros. Gard ner, Gifford and Leader were app
executive committee.
Robt. Thompson, Master, Napanee; Lydia 40.-moultron grange.

Robert Green, Master, Attercliffe P. P.
John Green, Secretary, Attercliffe, P. O . 1.-welland grange.

Robert S. Garner, Master, Welland P.O.
Jonathan S. Page, Secretary, Welland P.O.
Thomas Phillips, Master, Bond Heal
Wm. Hill, Secretary, Bond Head
The name of Grange No. 26 is Wester.
Star.
The name of Grange No. 31 is Brant.
Land Agency.
We would call the attention of the ${ }^{\text {s }}$ pub
lic to the advertisement of (G. B. Harris Co., of this city. Many of our subscriber
are desirous of either purchasing or dis are desirious of either purchasing or dis
posing of land. Messr3. Harris \& $C$. hav
an extensive correspondence both in Huro an extensive correspondence both in Europe
and Canada, and persons might save them selves much trouble in procuring lands, an selves much troublhose they are willing to
might dipsos of the
sell to better advantage by corresponding sell to better advantage by correspondin
with them, as much time and money is ex pended by purchasers in hunting up lands to
suit, and many farms would be sold if the you wish to buy or sell, give it publicit and the desired result will be obtained. Al wants be known. This agency does the ad vertising and corresponding, and receives no
pay therefor unless the sales are actually pay th
made.

## scott Wheat

When this wheat was first imported into
Canada it had a few grains of bearded wheat
with it We know of no one who has taken Canada it had a few grains of bearded wheat
with it. We know of no one who has taken
the pains to pick them out, and thas the grain shows a little mixture when growing. We did not grow quarter enough to supply
our orders this year, but supplied the best
 we were careful to select
had no bad seeds on them. A New York baker advertises biscuits so
exquisite that persons "sigh as their Hiavor
dies away upon their breath,"

Guelph Exhibition. We paid a visit to this Exhibition on
Wednesday.
The attendance was not Wednesday. The attencance was not
large as it was last year, and the entries were not as numerous, but, on the whole, the
Exhibition was a good one. The best dis. Exhibition was a good one. The been made lay of drangh
n Canada was
lay of poultry
play of poultry.
Very few sales took place of any kind of Stock. There are too many of these large
Exhibitions in the western portion of Can ada to allow breeders time to attend them
all. Four large exhibitions, each taking Four large exhibitions, each taking
week to attend them, are rather more than Week to attend them, are rather more to
he large breeders are willing to atten to
nd the small breeders cannot afford th and the small breeders cannot afford th

Trifelium.
Each purchaser of the Scott Wheat had a
mall quantity of Trifolium or French clover put in a package in one of their bags. Thi
is for you to test; sow a little in the fall and trample or roll the land where it is sown. It may be of value to you.
We also sent each purchaser a little of the
Seneca or Clawson wheat; this is also fo yoneca or Clawson wheat, Great reports are sent about it,
yout tre tryink it will not be found as hardy
bus the Scott Wheat. It deserves a trial.

Agricultural litems.

The crop is in danger, although neither fun-
gus nor beetle have assailed it anywhere. The tubers have ripened prematurely, and, gener-
tully speaking, the crop is light, but good.
git is Now, the danger it is in is this- that it it ready
to start into a second growth in the event of rain ocurring quickly and copiously. What
is called "rupurububrating," or the growth of
new tubers above the old ones, is a destructive
 process, for the on tubers that are robbed of
clusters of new ones above them and tastess in
their fecula, and beome finty and consequence. To prevent supertuberatiog. the
cron must belifted and clampend in the coolest
and dryest place that can be found for it, and
in and dryest place that can be found for it, and
it will be safe for any reasonable length o
time. To wait until it is dead ripe is not ne cessary. If done growing and besun to ripen,
it is perfectly safe and prudent to lift, for the
 sepaxation foing, and render the crop less dis
ten the ripening
posed
tiow than if allowed to ripen perr


## Mr. A. H. Mills, Middlebury, Vt., writes to the New York Farmers' Club on this subject as follows:-"Of the various methods recom mended or none to equal the following:- Cut the cablag above the ground, leaving the roots belind off above the ground, leaving the roots be hind take them to the cellar and stand then up on the stumps on the cellar botton, where they the  depth to receive the stumps, especiar, to your cellar in a dry one; and. in very dry, mosten the ground a little. Treated in this way they will keep green and fresh all winter withot growing, fnr the reason that they hhve no roots o draw nourishment from the earth. Some mall fihres will start out from the stumps, but hey will only serve to keep the cabbages gree and fresh."-Union.

ander evergirees As a general rule, it is far better for ine
perienced persons to buy plants than to a
 waody fibre is formed, will seldom be give
except by those who make a business of it The soil of seed heds should be composs
largely of sand and well roted deaf-mould d
soil from the forest. It should be dee spaded, and well pulverized; it is desirabl so have this done in autumn, that the see
tay be sown as soon as the surface of th ground thaws in spring, or even before,
sand is laid by for covering to the depth is a convenient widtho of seed. beds. The
seed is sown brandatast at the rate of two-
thirds of a pound to the rod inlenth



Partial shade must be given. If only a smare amount one soot above the ground. Where here are several beds, it is best to elevate
the shade high enough to permit standing rect beneath it. Brush or corn stalks may be used for the shade. If the weather!lye
dry, occasional waterings must be given. ary, occasional
Farmer (Eng.)

## short-horns in england.

The demand among English farn
ers for short-horn bull is grate
his year than last. At the Englis sales there have. been 74 more sol
than last year, and at an average advance on ast years prices of \$10 each. Last yea
the total amount invested in young bulls the sales was $\$ 40,000$; this yoar, \$ov,
This ans wers the question as to the country
getting overstocked with short-horns, as some in our country have unwisely supposed
it would. Short-horns are very much mor numerous in England and adjacent islands
than any other breed of cattle. What we call natives here are hardly seen there, thei
cattle being bred up by thoroughbre crosses. Though there are herds horoughbreds ine is wanted, and there are
still the inerease is who are not well posted or in all the advanstock. They are particularly exacting as to the points of sheep and pigs, and are every
year becoming more so as to cattle.- West year becoming more so as to cattle.-West-
ern Farm Journal.
the crops in irelani
Wheat everywhere will be a good crop, and
early sown barley will allo be abundant, but
late sown barley era 6 ight. Oats are reported th short in the strap, but in other parts this de
scription of cereal will scarcely come up to th nasual average. The lightest crops will be
found where the seed is sown late, where the found where the seed is sown late where the
land is is ither poor or in bad heart. Rep rris
from the Count of Down stat that the flax
crop has imuroved beyond expectation but in crop has improved beyond expectation, bo The
some aratsof the North it is a short crop. The
hay crop, in general, has been light; but it has
ate some crop, in general, has been light; but it has
haee observed that, where guitable top-dreas-
bings were appplied at the proper season, the
int yield is, on the whole satisfactory. Owing to
the fine weather during the hay harevst, the
quality is good. Potatoes are reported to be quality is good Potatoes are reported to
promising in all parts of the ounurr, and
quality of the early kinds are first rate quality of the eal
Farmers
Gavette.
turn your hil. luck to ainvantage.
Many farmers have been unable to gow
and plant the anount of land they intended, the past spring, and consequently are chat
discouraged that they have such small crop growing. It is perhaps inconvenient to wat,
but this seeming ill luck may he turned to to in the spring, may nound you could not worked at youn
in the ter
leisure, and it is the testimony of every one 1esure, and it is the testimony of every one
who has tried it, that no outlay of the farm pays better than summer tilling; and the
more the ground is stirred the Dietter pro
ided it is in proper condition to work. the spring the press of work usually forbid
the expending of time to get it just righ
for stocking down for the mowing machine bot now you may prepare a piece to your
liking. Then there are other advantages the chances for a catch are ten to one in favo
of seeding in the fall, and if you have man
ure to spread on, you are sure of good and lasting results; whereas that which was an
plied in spring has aready lost its element of grass food. So much of the work is out
of the way for next spring and in for th most necessary, least exhauste are varioul
paying crop of the East. There are
opinions as to the best time for fall- seeding Some sny Augnst, others say septemb
and October; others again say atout the time
and the ground shuts, or the frst snow. Thi
latter we consider the safest time. A stil further reason presents itself in favor of thi
course, namuely: it requires less than half the
usual amount of seed if evenly sown. you sow the usual amount of good seed it al comes, but will do not
part has died out. - Ex.

A distinct proof is given that common salt
has the power of liberating ammonia from
soils that have
rottes has the power of liberating ammonia from
soils that have been highly manured froun
rotten dung Peruvian giano, and other
nonical manures, whioh in sandy soils espe cially, exist in feeble combinations, that
really undergo decomposition when brought in contact with solution of salt. In the case
in before us, a portion of chloride of sodium
salt) acted upon these teeble ammonical (satt) acted upon these feeble ammonical soda, which became fixed in the soil, and on
the other chloride of ammonia, which passed the other chlori
into solution.
This analytical result throws light on the
Iunction of salt in agriculture. It is well known that salt is most beneficially applied to light land after a good dressing with with Peruvian guano, and that its application under these circumstanoes is particularly useful to wheat crops in general. Prac-
tical experiments on a large sacle have
hown, indeed, that by salt alone a large ncrease of grain was produced off land in well manured. In this case the application
of salt evidently has the effect of liberating mmonia, and reydering it available for the nmediate use of our crops, which we know rom experience are much benefited by it. xpected to produce such favorable effects,
and as this manure no doubt is sometimes put upon land exhausted hyy previous crop-
ping, in which, therefore, it dooss not find ammonical compounds apon which it can nefficious as a manure in some cases, while
in others its beneficial results are unmistak. able.
Peruvian guano and salt is a favorite
dressing with many farmers, and justly mo. It has been supposed by agricultural writers
that the beneitit resulting from this mixture are due to the property of salt to fix am.
monia. I have shown, however, elsewhere, that Peravian guano does not contain any
apreciable quantity
of free ammonia. While theory has erred in ascribing to salt a
power that it does no possess, the practice power that it does no possess, the practice
of mixing guano with salt is one that can be
confidently recomen onidenty recommended. So far from fixdisseminate through the soil the ammonia the land, which becomes fixed by the
soil.-Prof. Voelcker in Royal
Gazette the onion magaot.
The maggot is the onion grower's worst
foe, and those who endeavor to crush the power of an enemy before it becomes troubleput a stop to its progress, after it has become
formidable. It is generally admitted that the maggot is the onion fly in its larval state, is in this state of its existence, and no other, that it can be styled an insect injurious to eggs, or prevent their being deposited in
the onion fields, we are at onoe rid of the
enemy. Having noticed some of the habits of the they select, as far as possible, partially dotheir eggs. When onion tops and scullions decay upon the surface of the natural breeding bed, and attract flies from than can be accommodated by those beds ometimes those which wreaker plants, and uxuriant growth, to puncture and deposit
their egat in the stalk. If the weather is warm, these eggs hatch in a few days, and
the maggots commence their depredations upon the crop.
It has been my own practice carefully to
hirn nuder all refuse matter npon the onio well fined manure, leaving it libon the surface exposed to the ameliorating influence
of the winter's frost, and the dren of spring time. Sow early in thoroughly
pulverize pulverized ground, and attend carefully to
the after culture. With this treatment the crop usually gets an early start, makes a
viforous yrowth, and ic able to withstand
all attaks of the enemy or changes in the weather. I think damage by the maggot in
this vicinity would not amount tof ive per
cent. of the crop in the most unfavorable
years. - .

The 新0tse.

working cartle and hooses.
 the question of "HItrises or oxen for farm
The question is often asked, why do not
farmers use cattle more for farm work, since they are kept at so much less expense
than horses?
The reason is, they are no more cheaply fed consilering the amount of labor perrormed, and they are too slow to
allow their use to become universal , when
 horse consumes his feed, grinding it thor
oughly, and it immediately
undertroes the
 passes into the first stonach, is there stil)

 gins, and, hhen receiven the the oss is the timued by mixture with the thastrie thait
from its walls, anl is is converted into chyme
 creass and the liver and then beconnes chyyle Passing along the bowes, the nutrime nt is
constantly absorbrbed lyy the numerous ducts
ond and by them passed into the hlool, hy
which it is distrilistece to keep up tho wear
 supplie from t
 is assimilated and the force egiven by it con
sumed. With the ox it is different. Ho
must have time to re-chew his tood must have time to re-chew his food, rumimate. A slow work, i, note exhaustive
this may be and often ip pertormed while
and
 heavy, as in ploughing, ete, cone animeimal it
prevented from ruminating until at rest For this rason an ox should never be em
ploped or more than five orsin hours each
day in exhaustive labor low

 four hourve hours thest, dacuppies the twenty
he horse, cannot thest withe ox, unlike he horse, cannot rest without lying down.
The horse, on the other hand, when at
 divisor to his food. The animal wiill require
from one-half to three-guarters of an hour to properly masticate each mess of grain, the
hay being principally consumed during the night, and early in the morning before feed
ing time. If fed only on trass or ing time. If fed only on grass, or hay, he
will perforn no more work than the ox,
nearly the
nthor the time is consumed in gather ing food enough to support the animal
economy.
The stomach of the horse is small, and eating and digestion go on sim
ultaneously. Therefore in all new coun-
und
 as son at at the farmer is able to procure grain
enonght of feed horses, or mulut teams, oxen
are slow work, as hauling fodder, carting man
are, and other hal ire, and other labor of that kind, for whic
they are always available. If, however, actule ane fed liberally
meal or other concentrated food, they be found to do nearly as much workley on day
with another at ploughing, harrowing ay with another at ploughing, harrowing, and
other slow work as horses, for, in this cas so much time is not spent in rimination, and
 Known cattle so feed for a considieerabele lenath
of time, to perform fully as much work in cool weather at ploughing, ete., as horsises
and then there is this additional advantage that when disabled for active work, they are thor human tood.
We think that, on the majority of farms
ne yolk of cattle might be profitally em ployed to each two or three pair of horses
for there is a variety of work that they maz for there is a variety of work that they may
perform to tool aty ontaye but, if os kept
they should be liberally fel, for any anima Areed to perform labor at the expense o
lesh and muscle already laid on, does so fesss and muscle already
a loss to the owner.

The bots in horses. The complete ineticacy of the various something of the nature of these persistent parasites. They are not worms, but larval
of a fly, powers of enturanee under adversity. Th
most sinuating sulbstances are but as mill and honey to them, and in an instance re
corded, a colony of them attached to the corded, a colony of them attached to the
stomach of a alead horse were in no way in conveniencen ty an hour's exposyre to
hath of sinirst of turpentine.
butt when Whale oil was poured upon then they le
oo theerr hold and died almost instantly

 other. At lestst it might ho well to have
some experinents made and the result care
sonle $\begin{aligned} & \text { some exper } \\ & \text { fully } \\ & \text { Farmotice }\end{aligned}$
Flom
waterise honeses after mealis Afull linik of water, immeliately afte When water is druuk by them, the bulk of
toos directly to the
 passing through the stomach, however, the
viter currics considiteralle tuluntities of the


that the water had carried the peas from
fifty to sixty feet into the intestines, where
for nd digestion took place at all.
Mr. Cassie is quite correct set forth regarding the ingurious effects of Irrge quantities of water swallowed imm
diately a after eating. datealy arter eating. A small quantity
fluid swallowed along with, or immediatel after dry food, beneficially softens it and as
sists in its subdivision and digestion. An
An hordinate supply of water, or of water dilutes unduly the digestive secretions; it Lechanically carries on ward dhe imperfectly
digested food, and thus interferes with the
roper functions of the ent proper functions of the canal and exceites in
digestion and diarrhea.
These
untowar cifestion and diarthiea. These untoward
efferts are especially apt to ocour where
horses freely fol bress sheely y ed and too liberally waterer
are hortly put to tolerably quick
work Incing colic, diarrhea, and intlammation of pro the bowels, The horse is not peculiar in
his effect; dogs, owd
 water immedien from compionter draught
food $-N$. $Y$. Herather eating much solit

A writer in an exchange paper says trul - Many good horses devour large quanti and porr. The food eaten is ont not properly
assimilated.
If the trsual feed has bee sssimiluted. If the rsual feed has been
ungronud ${ }^{\text {grain end }}$ hay, nothing but change wiil affeet a consisiderablebe alteraà à
tion in the appearance of the animal. In

 vill be a fair proportion for all his feed. or
the meal of barley, oats and corn, in equaz
 ourth part of the oil cake mingled with it
when the meal is sprinkled on cut feed
 three times daily, mingled with a peck of
cut hay and straw. So long as the animal
Stan cut hay and straw. So long as the animal
will eat this alowace the quantity may
be inereased a little every hay. In orter to
 the groom slould be very particulnan to foed
the animal no more than hew will eat up clean the animal ho more than he wi.
and lick the manger for more.
walkIIG horsess.

Walking is as valuable a quality in a good
horse as speed - end a horese that walks strong
 tion is is iven to the teverorsment of the this tua
lity
ity

 who has avery valuabe pair of five yearo on
horses, which have ever roted ater and
he says he wouli not have them trot for and ${ }_{\text {He }}$



 ways urging his $t$ ain for ward and constantly
keeping then strained wp to
deigh tension,

 Ham and work ho
Maine Farmer.
$\triangle$ New horse dispass
Stable keepers are axain alarmed by a con
atious horsed disease which appeared in sond

 iischarge from one or both eyes, and from on
in bion
reth nostrils. Sonetimes the case ends hel







It lasts from three to ten days. A veterinar
surgeon $y$ says that all animals troubed with






GRICULTURAL.
a germin farm.
The farm of which we are
age representation of German cultivation of the soil and the carrying on of mixixadion onf
bat
bandry. It lies by the Oder, in the vicinity
 ceived some of the first French, wirisoners
during the late Franco-German war and
 vince of rrandenburb, The eorontry in trone Privg,
put not hilly, and the soil is a productity hut not hily,
sandy
This farm.
This farm. consists of 160 acres, most of
which is upperland, but some of it it in the
 has not been so long under cultivation. The apperlant was once a pine forest, and was
first cultivated the year 1552 . Mine host
ind Ir. Leidecke, whose pride is the thriftines of his acress and stoolk, and the well being of
il around him, is the tenth man that has swed these possessions.
Although the land has
20 years, ptation and manuring has preserved its is vix in fertility to a wonderful degree. The
arm has 150 acres under cultivation;
I6 neadow, and the rest is ocecpied partly b valley, which yields some pasturage and also
some turf for burning. There are 40 head cattue, 100
sheep,
wine
wine
wirses and som
Fitteen of the cattle are he ing fattened for market.
The rotation extends
years, and is as follows :-

 Rye.
Thin farm is thus in eight years well man.
ured (the manure being spread mostly in the rred (the manure being spread mostly in th
vinter season), besides the good that is efficted by the rotation, which yields a pro-
portionate amount of articles oro the market pand for the neecssities of the people. An- Another rotation that is used by many in the
vicinity is also thought to be gool.
It is as
 Clover, 7 , Rape; S, Wheat
Clover loss well the fit
Choveross well the first year, but not
 Ior proctuction of sugar.
The first thin th
sthe absence of fences and the nolmost
aniversen
 villages, and dheir not large farms extend-
ing out and round and perhaps an avenue
of pontlars extenting through the centre
 housc is of trick, with tile roft, sareely
ever more than one or one half stories high It fronts on a streot on the vililatices and hig is
surrounded on the other three Surroumdead on the other three siles by a

 eared in Germany, and whone fresh mich
fitutes an article of much interest in the hotels and restaurants, are often herded by
some urchin upon the stubble and other out.


ows are inenill Much of the plow ope traces that oard or iron that above the eyes.
Many of the fields yeal. Some are deeper, but in the
Weeds are seldom Mr. Leidecke 25 to $\$ 50$, accord are moderately go
and well adapted ermingling of
orses are univers torses are univer
and well kept.
praised. The G 0 contond with as also do not have s
in genera, thou
laudably of Germ praise informati
praber the prac
labor, nor the aborer, nor the
Prairie Farmer.

Of the various
from town beside from town besid
are in a concent
piled with manu hops are worth a
of stable manu leaves or some
soda, it makes a beds, in which
seeds which can least crust.
had, this is exce Slaughter-hou
\&c., by dilligen have applied fre jury to the crop
obtained by con with fresh stable then can be app astonishing rest
cabbages and p
These are rar These are rar
amounts, but th in every townties piled up in halire a dozen st
quire -' What hem while th simply this:-:
We break th or sledge, and
block and crush pound weight,
pole. They
one quarter t bones, alternati
stable manure,
lithes of mehes of so is pressing.
Usually, by
rotted, the par rotted, the part
and make a ser as permanent m "uarter inch la
value than the alue than the
loes not appea
whole is nuix Chole manure,
fresh matficiently
be sut pe sunt food.
por two se with bones co
alternate laye and kept damp
usually the bo and finger, an
sing for needy ally spread a
hoel or racke an important
results of
will will pay to en
stable manur
Root, in West

THE FARIMER＇S ADVOCATE．
plows are inferior，being astrer the old style， plows are inferior，being a ter the old style，
with two small wheels to support the beam．
Much of the plowing is done with oxen， Much of the plowing is done with oxen，
usually three together，drawing the plow by usually three together，arawing the plowded
rope traces that are attached to apdded
board or iron that passes across the head rope traces that are altached to a padded
board or iron that passes across the head
above the eyes．But few yokes are seen． above the eyes．But few yokes are seen．－
Many of the fields are plowed twice every year．Some are plowed in August quite
shallow，and again in the autumn much shallow，and again in the autumn much
deeper，but in the spring are only harrowed． Weeds are seldom seen．
Mr．Leidecke has ten laborers，who are
paid yearly，hesides their plain victuals，from
$\$ 25$ to $\$ 50$ ，according as they rank， paid yearly，hesides their plain victuals，fro
$\$ 25$ to $\$ 50$ acocoring as they rank．The
cattle are mostly of the Holland breed，and are moderately good．The sheep are healthy
and well adlapted for mutton，having an in－ and well adapted for mutton，having an in－
termingling of Southdown blood． The
torses are universally well formed，powerful korses are universally well formed，powerful
and well kept．But the swine are not to be praised．
to contond with as the Americans，but to also do not have such beautiful fruit． in general，though one may well speak
laudably of German field culture，science， general information and stability，he canno
praise the practical workmanship of the
laborer，nor the beauty of the farm home． aborer，nor the
Prairie Farmer
manures．
Of the various manures to be obtaine
from town besides stable manure，nearly al are in a concentrated form and do best whe
piled with manure until well rotted．Spent of stable manure，and composting wit leaves or some milder fertilizers，and soda，it makes an excellent application fo
beds in which to sow small and delicat seeds which cannot grow through even the least crus
had，this
beds，\＆c．
Slaughter－house refuse，rendering refuse，
cc．，by dilligent care in spreading them，$w$ ，$w$ ， ave applied fresh to the garden，and
nee plowed under without any apparent in jury to the crop．But the best results are
obtained by composting it a few months pile with sod a couple of inches thick．It then can be applied evenly，and produce cabbages and potatoes．
mounts，but there is ano obtained in larg ility to be had in greater or less quantitie
in every town－bones．I admit I have ＂hankerin＂for these，and I I get such quant
ties piled up in the garden that sometime ties piled up in the garden that someting quire－＇What under the sun do you do wit
them ${ }^{\text {Whe don＇t often have time to tel }}$
them while the weeds are growing and them while the weeds are bot the way
boys stop work to listen，but
simply this ：－ or sledge，and then lay them on a dishing
block and crush them finer with a twent pound weight，working with a double sprip
pole．They are then put in thin layers one quarter to one hialf inch of crushe
lones，alterating with six inch layers o
stable stable manure，and all covered with a couple
of mches of soil．Of course this can be done
at any time in the year when no other work is pressing．
rotted，the particles of bone crumble freely and make a serviceable，immediate，as well
as permanent manure．In fact it＂tones up
a garden soil for years．I estimate the one－ as perdanenil for years．I estimate the one
a garden sor
quarter inch layer of bones as of far more value than the six inches of manure．If it
does not appear suffieiently decomposed the
whole is mixed allout half anul lialf with fresh manure，and it is very certain then th
be sufficiently cooked to be good，available plant food．
For two s For two seasons I have tricd experiment
with bones coarsely crushed and placelt i alternate layers with three inches of ashes
and kept damp．In eight or twelve week and kept damp．
usually the bone usually the bones crumble between thum
and finger，and make an cxcellent top－dres sind for needy praces in the garlen，especi
sily spread around cablases and onions，and hoel or racket in．
an mportant practice with us，，，，nt from th
results of limited experiments，I think it will pay to employ it on a large scale whe
stable manure begins to grow scarce．－J．
Root，in We．tern Rurin．

| THE ARRIVAL OF THREE PROFESSIONAL |
| :---: | :---: |
| DRAINERS FROM ENGLAND． |\(\quad \begin{aligned} \& will assist through decay in the nutriment <br>

\& of most valuable ones．\end{aligned}\) We learn from the Colonial Farmer that
the efforts of Richard Thompson，Esq．of St．John＇s，to procure professional drainers
from England，have been successful．The Colonist thus describes the drainage opera－ gonish ：－
＂It is always a pleasure to witness farm it is a real gratification to see these English－
men handle their tools so deftly and with such ease and skill．The ground through
which the druin had been which the drain had been，and on which the
workmen were engaged while we were pre－ sent，had been dug，in some places，in order
to get the bottom graded six feet six inches The sides were beautifully sloped from six－ teen inches wide at top to the width of a pipe
with two inch bore．The drain is laid out as narrow as is possible to work in，the near－
est way down the hill，and as straight as a est way
gun barrel，
admits of
As fast as the ditch is dug to the required
depth，the pipes are laid in it，beginning at the lower end of the ditch，and laying up－
wards．The bottom spit of，say 18 inches， wards．The bottom spit of，say 18 inches，
is loosened with a long，sharp－pinted spade
and scooped out with a tool made for the and scooped out with a tool made for the
purpose．When two ror three rods of ditch
are ready for the tiles，the foreman straddles are ready for the tiles，the foreman straddles
the ditch，and with an implement for the
purpose，picks up a tile and lays it in the purpose，picks up a tile and lays it in the
bottom，turning it till the point fits snugly．
As soon as a short string of tile is laid，some surface earth is thrown down to cover them， ditch，the upper be tie is is plugged to keep the the dirty water from entering．The digging of
the drain is continued，and the tile laying goess on until one ditch is completed．
＂ A very handy implement is used for fill ing in the earth，made like a potato digger
but with larth but with larger and stronger tines．With
this the earth is dragged into the ditch from
both sides rapidly and easily． both sides rapidly and easily
summer fallowing and fallow crobs． Fallowing of land is as old as agriculture
itsell．The Israelites undoubtedly got their
idea of allowing the land to lie fallow once in even years from the ancient Egyptians，by hom they were enslaved．Their fallows，
however，did not include the turning under
f green crops；for，even if the idea had oo of green crops；for，even if the idea had oc
curred thenem，their implements of tillage sion of the soil necessary to covering heav invention and subsequent improvement o rendered practicable，and with it the possi
bility of keeping the land shaded during
reat portion of the fallow great portio of keeping the land shaded is
importance
not as generally appreciated as it should be Whatever may be said of the importance
of the application of barnyard manures and other fertilizers to keep up the strength o
the land，it is undeniably true that，with the the land，it is uncemably true that，with tea
many large farmus in the west，it is not fea
sible，from lack of quantity，if no othe cause，to employ these manures to the ex
clusion of other and easier means of reno It must be a question for the farmer to
decide，if the land is to be kept decide，if the land is to be kept up with
manure altogether，or with manure supple manure altogether，or with manure supple－
mented by fallowing．Near cities where
manure is plenty，or．where a sufficient manure is plenty，or．where a sufbicient
amount of stock is carried to furnish
manure，we should advocate this plan，so
for far as at could be carriect out．Untortuna
tely all cannot have their farms near cities
and all cannot or will not carry stock suffi cient to keep up，the fertility of their culti
vated soil． The most practicalle plan，therefore，is
summer－fallowing，either alone or in con－
nection with manure．When manure is to nection with manure．When manare is to
he oltained in sumficient ynantities，corn，
\＆u．，are unloulltedly the nonst economical crops that can be employed to clean the soil
of weeds．1y the constant working arrly
in the seaso and the perfect shade eriven in the season and the perfect shade given
later，the soil is kent in the best possibld
condition at the least nther crops in the rotations，and at the sanh
time，while clearius the ssill from weeds，thi
fincer farmer is ectting ample pay for the labor be
stower．
In the summer fallow proper，the land
must lose a season．It must either rest en In the summer－fallow proper，the lan
must tose a season．It must either rest en
of most valuable ones．To this the begin
ing should be made，if possible，in autumn by ploughing the soil thoroughly as soon
as possible after the previous crop is taken as possible after the previous crop is taken
off，thus letting the soil lie exposed to the
action of air， spring，sow to some crop that will germin ate early in the season．Peas，inferior wheat rye，or even chess，since the crop is not a－
lowed to go to seed；anything that wi be sown to winter wheat，the fallow crop must be ploughed under in season for seed
ing．At all events it must be turned in no later than the time of blossoming，or，
corn，at such times as will enable it to properly covered．If the land is not to be
used untre used until spring，sow winter rye，to be pas．
tured in the fall and turned under in the
spring，
Thus，you will have given the land three
orfour plowings，and will have had or four plowings，and will have had worked
into the soil two or three crops，and be．bet
sides this，the soil will have been kept shaded except during the winter season，
shich will have done good work in breaking down and disintegrating the soil．
But while the soil is But while the soil is increasing in fertility
by this means，it is only one of the means by this means，it is only one of the means
usea．Repeated plowing mix all together，
render the soil friable，and the fertile sur－ render the soil friable，and the fertile sur－
face is left just as it should be to give sure
and constant city prompts them to take advantage of the
means which nature has means which nature has placed before them．
Such progressive farmers reap abundant Such progressive farmers reap abundant har
vests by the exerciso of fact and judgment in
their calling．－Western Rural．
THE DEMAND FOR OUR CROPS ABROAD．
It becomes an interesting question what will be the effect of our prospective heavy rain crops，and in this connection we must
look at the condition of affairs abroad．A review of the harvest prospects in Europe
gives a very favorable view of this matter gives a very favorable view of this matter．
Eingland is our great，and our only import
tant customer for grain．She is likely to have a crop fully up to the average，and
perhaps much larger．Hence her need wil erhaps much larger．Hence her need wil
be less pressing than usual．The European Wheat field on which she is accustomed to
draw are also promising，and she will thus draw are also promising，and she will thus
have a choice of several overfowing grana－
ries．The inevitable result will be that the competition for the English market will b sharp，and the disadvantage of long rail
and water carriage and of a debased cur
rency will be ours．If we hold our own in Kritain，it will be only by selling at price so low that the farmer will think his woo are increasing．Our production has been
for some years fully equal to all the de－
nands that Great Britain can make upon us．During the first six months of the pre
sent year more than sixty per cent．of the
wheat tlour also recieved was also from thi country．
This was partially causcd by the failure being now reversed，the competing crops
being good，we are likely to be blessed with no abundance which we can
What is bad for the farmer is good for the
consumer．We shall have cheap food，and the result must be a cheapening of the gene
ral cost of living，leaving for use in othe things a vast amount of money that woul
have been required for the necessaries life． crop are larger than for a light one，in spit
of the fluctuation of prices，is certainly true The position of this country enahles it
take a great take a great advantage of the misfortunes
cther conntries dependent upon their e
ports of brealstuffs． ior a recular income，and is a pikeor relianice to prove
so this year．Nevertheless，the country will
let richer，and the farmers will share in the the
prosperity，for prosperity，for a crop that far exceeds the
prounahle wants of all countries that can
think of drawing upon our granaries．－Ad－
 yicld absolutely nothing．

Amongst the many operations for the per
anent improvement of the land，increasin its products，and rendering it more heasithy
both to human beiags and to cattle of alt
kinds，drainage stands foremost．The British Government is fully aware of this，and passed alaw some years back which ofters the loan
of money for the purpose；to be repaid by easy
nstalments secured by dostalments，secured by a rent－charge upon the
and paid by the owner or owners，whether he estate be entailed or not；the owners being mproved land by an addition to their rents， which no rational man will refuse to pay，who
is aware of the benefits resulting prom the
operation．Strange to say，there still remain meration，Strange to say，there still remain
many millions of land in an undrained state
in the United Kingdom，to the loss of produce nd to the injury of the health and ocomfort of of
he reside t on on suffers by having to pay for a large amount of
anricultural pro nue，most of which might be
raised at home but for the neglect of people in bot a availing themselves of hhe Government
offer．In the tehind those of Ir land，where arterial or com－ counties，including rivers extending，with their
tributaries a length of 40J miles，and relieving
he he catchnent basins over an arase of sever
million acres．This was effected under the
supervision of the asents Commissioners of Public Works of Ireland．
Thus in a very few Thus in a very few years 11,003 square miles，
or nearly one－third of he entire area of that
country was rendered capable of improvement and a a arge extent at once brought under im－
mediate cultivation，the expense of the opera
 of mills for removeral，nand the water power of
those that were allowed tomain．The case
of the Castlenode and Strokestown worth stating．A large portion of district is is
water－logged as to be considered worthless and
the the inhabitants had held it redt－free fors，sixity
years，by which they gained a title as＂Pro．
vrietorsin－fee，＂So prietors－in－fee．＂So completely was this
drained that it has since let at \＆6 10．
aroe，and that part of the dittrict round I


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& \text { the proper temperature of the mase of the } \\
& \text { bed; that it prectudes the free entrance and hex } \\
& \text { chang of the atmosphericair; that it prevent }
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$$

Improvement of Crops.
Major Hallett, of Bristol, at a late meet-
ing of the Midland Farmer's Club, made some very interesting remarks upon the
culture and improvement of wheat. major has given a great deal of attention to
this subject, and is the very best of author this subject, and is the very best of author
ity. It has been demonstrated beyond a
doubt that there is scarcely any doubt that there is scarcely any limit to the improvement by a selection in plants as well
as in animals, and farmers cannot be to as in animals, and farmers cannot be too select the best, no matter what the trouble is, the crop will pay.

Major Hallett says:-
Cereals, as observation showed that in the or grains are precisely alike in productive power, and hence that of any two or greate number of grains or plants,
superior to all the others, al.
though that superiority can be though that superiority can be
discovered only by actual trial. The superiority may
consist in various particular chariscteristics. The particuling
were the chief points of his were the chief points of his
stahdard in order of their im portance, but all have to be July considered: 1, hardihhoo
of constitution; 2, trueness o type; 3, quality of sample; 4 productiveness; 5, power oo
tillering; 6, stiffness and tough tilering; 6,stifness and tough-
ness; 7, earliness of ripening.
The plan of selection which he ness; l, earliness of ripening.
The plan of selection which he
pursued was as follows:- A pursued was as follows:ing of many ears. He planted such a manner that each, ear ccupied a row by itself, eac this row; and the hole way. At harvest, after the
way way. At harvest, after th
most careful study and com parison of the plants from all hese grains, he selected th as a proof that its parent grai was the best of all, under the eason. This process was r peated annually, starting every
year with the proved best
grain, although the verificatrion of this superiority was
not obtained until the follownot obtained
ng harvest.
ng harvest.
the results due to the influ ence of selection alone, by which the length of the ear tents nearly trebled, and the tillering power of the seed ncreased five-fold. Majo
Hallett next proceeded to con sider what might be effected
by the combination of thin by the combination of thi
seding with selection. TTak
ng seeding with selection.
ing the seed wheat sown by
a nual mode of two bushel per acre, one and a-half mil oughly) were put into the ground. In ordinary crops the number of ears produced one million, and the crops a 34 bushels, they had 700,000 000 grains per average per ear of only 23 to
24 grains; and if more than one milion ears per acre wer
claimed, it must be at the ex pense of their contents. Five pints of wh 12 in., gave $1,001,880$ ears per acre, or 67,760 ears in exceess of those produced on
the other side of the hedge from six pecks, the other side of the hedge from six pecks,
or more than twenty-one times the seed. Again, five pints planted 12 in. by 12 in., October 17, gave 958,320 ears per acre; and planted similarly October 4, 966,792 per
acre; while one bushel planted October 15, gave only 812,160. Two plants of 24 ears each gave 1,911 , and 1,878 grains, or seven-
ty-nine per ear. Twenty ears per foot, at ty-nine per ear. Twenty ears per foot, at
48 grains only to the ear, would produee eleven quarts per acre. In reference to
effects of his system, Major Hallett directs attention to the effect upon the crop of the
more increased size of the grain produced. A bushel of pedigree wheat produced from3 an
tion for and putting in of the crop than
woold warrant a fair crop of either corn or
orices, no one need feel afraid to
it after compe wheat. Very seldom is anything more done one has coarse littery or strawy yard than mere plowng, and that not of the most
careful kind, as, preparatory for the seed;
and after
short time, compost it three or four in a and after broadcasting, that it is harrowed
over, allowing the harrow to ""hit" the this fish refuse and muck or earth, and over, allowing the harrow to "hit" the by one overhanling it will be pretty effectu-
whole. If very nice work is made, the ally broken down. An application
harro hhole. Is allowed to "lap" a little, the But aily broken down. An application of from
hare-half to one ton of fish scrap composted
although rye will accole although rye will aocommodate itself to a
variety of circumstances, it well repays gen- $\begin{aligned} & \text { with muck, \&c., makes surap composted } \\ & \text { for one acre. - } W \text {. } H \text {. Whicent }\end{aligned}$ erous culture and fertilizing.
ven
Vent.
Ger Plowing should be as thoroughly done as
for any other crop. If the gronnd is a falfor any other crop. If the ground is a fap
low, two good plowings will tell on the crop,
if followed by sufficient harrowing to fin the surface for a good seed-bed. If the soil
is poor and hunrry is poor and hungry, some good fertilize
should be applied; and herg allow me t
answer an inquiry answer an inquiry some weeks old concer with m
for one
Gent.

## Wild Turkeys.

The accompanying illustration repreants a flock of wild turkeys in South da, the wild turkey is now nearly exter da, thated. As the woods become thinner
single grains, planted $12 \mathrm{in}$. by 12 in., conof ordinary wheat contained 700,000 grains and upwards. Therefore, in two crops, consisting of precisely the same number of
graing, the crop from the thin seeding would oe upwards of seventy bushels against forty-
six bushels, or nine quarters against six
nuarters quarters per acre." ${ }^{\text {- }}$ Farm Journal.
RYE CULTURE.
rye culture.
The culture and produstion of rye is re
ported in all the States and Territories orte in all the States and Territories exlast census returns. Statistice would indicate that the crop was one of no inconsider-
able importance, and ought to receive great er encouraganee, and ought to receive greatRye ranks next to wheat for bread, and is
superior to low grades of wheat oftentimes
 on increases, their chances of
life are diminished. They us in histor unat here. We, like other green Englishmen,came here prepared with rifle,shot gun, expecting to find lots of game. We carried our gan on our shoulder and dirk by our side when we left th
steanboat at Hamilton thir-ty-four years ago. We We
walked to Ancaster, Brantford, Mt. Pleasant, Wrant chard, Gooderich, then to Col. Talbot's, in Elgin, and finally landed in Middlesex shoot at any wild bird animal we could see, and they were very few. We
shot lots of woodneckers of various kinds; they were kind of lird that was. Now we cannot see one to twenty pected to have found re extle makes, venomou have ney and dangerous, bu
an englisil prize farm
Mr. Checkley's farm occupiss about a square noile of
land between the Ridgmount and Midlington stations, the Becford and Blecthley
the Be, loy which it is divided
line line, by which it is divided
it lies on the dark colored Oxford clay, here forming a riilyse or escarpment, on the
height of which the sulstanheieight of which the, substan-
tial :und somewhat lofty farmliowse is situated, overlooking "un admirable landscape. Abou permanent pasture. A goo pernanent pasture. A good
part of the arable land was
broken ont of this pasture broken ont of this pasture 20
or more years ago. Its pre or more years ago. Its pre
sent tenant has, we under stand, lived all his life undeon
the farm, and certainly it crops, and, and certainly its herd and flock,
crest the result of his management - for they are all home-bredand hat skerill. to his judgment
and
ane 2 sets of farm buildings-one of brick and wood and slate and thatch,
ncluding barn and stabling in quality, for bread and domestic use. Al- farm manure is wanting, a good substitute and several yards, and large accommodation though not so generally used by familios for economical and equally satisfactory if a por tion of this were substituted in our every day use for the common every-day bread.
A light grey soil, of sand or gravel, pro A inght grey soil, of sand or gravel, pro
duces the best quality of rye-that making
the whitest and best flour the whitest and best flour for bread, al
though we obtain a less number of bushels though we obtain a less number of bushels
from an acre than from heavier, stronger soils. In my own experiencecer, stronger
tained twenty to twenty-five bushe ob tained twenty to twenty-five bushels per
acre on these light soils, where a previous acre on these light soils, where a previous
crop was grown, and the soil suitably fertil-
ized, and a light ized, and a light tapplication of wood arthes
or plaster was given in the spring after the ground was settled. So far as I have ob-
served, less pains are tal served, less pains are taken in the preparafarm maniure is wanting, a good substitute
and I do not know but equally as good as and seral yards, and large accommodation table manure for the crop) is a good fish
compost; for some soils it is equally planned, with yards and sheds
and central double-stalled cow-house. Ther cient as anything that can be had. Take are here also some excellent cottages for the fish scrap, pomace or guano, and compost it herdsman and the shepherd. A herd of 45
with loam, turf, sods or good seasoned muck, Wuying it up in in alternate layers, using five or or cows bere building, having come into their stalls
the six parts of earth to one of fish, covering all for the purpose, and receiving at the time
in well with earth. Let it ferment till well
meal of chaff and cake and bean and maize
 till well warmed up again; when it can be framed, unpedigreed short-horn cows, exhi applied broadcast and well harrowed into
the surface before applying the quality as well as size. They are
this the surface before applying the seed. This
will supply very much of the elements need- a butter dairy. We saw also an
admirable lot of calves, a first-rate set of
 the crop is off, in a better condition, for fu- (some 20 or 30 ) 2 -year old heifers in the
ture crops. Whenever fish or any of this fields. Only the cow calves are kept, the ture crops. Whenever fish or any of this fields. Only the cow calves are kept, th
refuse from oil factories may bre had at rea-

Ôct., 18

Oct．， 1874.
THE FARMMER＇S ADVOCATE
wooled sheep（about 240 ewes）are in the
fields．A number of pigs are fattening in
the sties（the skim milk being available for them），and a rare lot of poultry of all kind What is there to feed all this stock？Nas． much that we could see upon the farm jus now．The grass fields are the only hom
resource，we believe，at present，and the resource，we believe，at present，ald they
are very bare－there are no cabbages，no
vetches vetches，no second cut of clover，and every thing else is eaten very bare；but，said our
guide，＂our master don＇t make hisself un－ easy about that－－they＇ve got water laid on in every field，and what little grass there in cial feeding twice a day，and the cows are taken care of．And for the sheep，though
there is a large extent of clover eaten bare－ there is a large extent of clover eaten bare－
ly down just now，some of the fields are
 Mimith hast weekss rains，and cer
 any of the stock．
The land is laid out in large fields， rain crops are magnificent grave crops are magniticent．We ven wheat，nor barley anywhere so
good；the oat crop，too，is first rate good；the oat crop，too，is first rate
And these great areas－40 acres at glance－－are very striking pictures of
what good cultivation can effect；for What good caltivation can effect；fia ble or fertile．It has been drained and a handsome tankard on the side－
board testifies to the fact that it was drained at the temant＇s expense more than 20 years ayo．，Considerable purchases of artificial manure are
made for the mangels，kohl rali， swedes and turnips，of which we
saw one picce of 40 acres in various stages of growth．There is is alsous ad leeen worked by hired steam power． And thus good tillage，artificial ma－
nuring，and much enrichment of the nome made manure by large quanti－ ties of cake and meal bought for the
dairy stock，together produce the ad－ dairy stock，together produce the ad，
mirable results which this year＇s crops exhibit．Of the 16 farm horses
ly which the land is worked，we saw three powerful Suffolks，with foals by their sides，in the field．The four course system for the most part rules
the cultivation ：（1），wheat；（2），fal－ low，or fallow ：crops；（3），，，，2），falley or
oats；and（4），clover－being the cession－beans．for which the land is
well suited，leeing taken oceasionally in the last guarter，there are no bains 170 acres of wheat，barley and outsts， （more than half bare fallow）and sulne
（and 70 acres of clover．An iminense pro
luce of grain off 160 to 170 acres Cluce of grain off 160 to 170 arres，
such one－year－old mutton as a flock of 240 heavy long－wooled ewes can yichd，a quantity of pork and pacon，
and the butter of 40 or 50 cows；－ this，with some store stock and some hoet，of which，howevor，we did tetailecl information，is th stiff clay soil upon the duke＇s estatc and for this，after long years of farm managetenent－reas，from boyhood upward the tenant of a quiet，life－long most farmer of the five counties which this
year＇s district of the Society includes．－$A y$－ icultural Gazette．
cultivation of the gugar beet From＂Bet－root Sugar and cultivation
the Beet，＂by E．B．Grant，Boston， 1867 ， extract an account of the recent the brothers
Ill，experiment In 1836.64 the
Generet，of N．Y．，conceived the idea of manu acturing beet－sugar．Mr．Thomas Gemert methods there employed．Upon his return the
firm selected the prairie lan $\$ \mathrm{~s}$ in the town of Chatsworth，lll．，purchased twenty－three hun－ dred acres，erected buildings，and commence the cultivation ored their crop，which，owing t the drouth，and also to the unfavoralie metho
of planting，yiedded only ten to twelve tons to
one ine properties，containing two and a haclf fer cent．of sugar．mene hear，to use their own
exhausted their means ；or
words：－W Wtarted on too large a scale for


REMNA

 mantasturingusisis inilur to that toluluted al



The s．ecess or failure of farring popraz
 apidel，Manure never fails to thenerit the
 comparatively little good either to soil or
crop．In this section most of the rotten ma nure from barnyards in the fall is used aa
top－dressing on wheat．The＂patchy＂ay top－dressing of top－dresser wheat，however
pearance of
results from an attempt to make a smal


Cot season Haures arc nuch more apt to wash away on wheat fields than on clo－ ver，especially if the wheat has a small
growth．This is one point which your able growth．This is one point which your ant
correspondent，Mr．Geddes，did not mention
in his recent in his recent advice to a young farmer to
top－dress wheat．While I agree that top dressing wheat is generally beneficial， Cressing whill better to use the same amoun
think of manure on clover．There is a temptation
to apply the manure directly to wheat，for that is a crop which brings the money，most
that ind
realily．Ilut if the land can be most lene readily．But if the land can be most bene
fittel，and after crops largely increased by fitted，and after crops largely increased by
top．dressing clover，that is the lest policy It is rare that several loals of＂scrapings＂
cannot be found that this season in barnyards． These should be drawn and spreal on young clover．Even good rich soil from the roa droppings of cattle and horses should also roppings of cattle and horses should also
e knocked to pieces in clover and other
pasture fields．There is great advantage in
this，even if the field is to be plowed nex summer．Gypsum（or plaster）should al－
ways be sown on surface manured land．It is a specific manaure for clover，and though not aways minitormy boor beneficiall genorally
 $\xrightarrow{\text { pense of an }}$ tribue．
mounting frrns．
By taking a little trouble，pretty picture may considered useless in the greenf frond all events，by the use．of a few which may be cut off，and never missed．After the ferns have been removed，they shourd
between sheets of botanical drying pape beween newspapers or blotting paper will answer the purpose．
is at hand，a sheet of of the cardboarn
inder forn should be procured．some cardike white ut that is quite a matter of tiast The ferns shourd then be laid lighttly on it，and arranged in the form of a
bouquet，or in whatever shape de－
sired．The position of each fern siresuet，The porition of each fern
should be indicated before it is glued should be indicated before it is glued
down，as，after thatt，it could not be well removed without marking the ave been arrangel coerding to tast they should be lifted up again，and位 backs should be glued with a to the paper．Should any gold or lected，they should be placed so as to show the colo
the fronds．
The light colored moss，which is to be found growing on old trunks of frees，tends to give the arrangement a light and elegant appearanoe．A
wreath of ferns mounted in this way， has and ofrective appearance，if placed handsomely illu．
round
minated text．The tronds seleoted minated text．The fronds seleoted
for mounting in this way should be for mounting in this way should be
those of small and light looking vari－ eties，as large and heavy growing
fronds would make fronds would make a small arrange－
mento of this description look heayy．
In this way $n$ capital book of refer－ In this way a capital book of refer－ variety being mounted on a sheot of drawing paper or cardboard，and the
name of the variety，height of growth， native country，etc，written undor
the frond．It will be found aston－ ishing how very quickly a collection
of this kind caul be got up，as single of this kind caul be got up，as sing
fronds are easily obtained．－Ex．

Game
On our arrival in this country in 1840，we shot a few pheasants，as
they aro called，but they are only a species of grouse；a fow quail wero
also found，no ind in some localitios
ducks were plentiful．On our first tour with gun，pistol and bowie knife，we never saw or heard a bear more，from that day to this， 34 years 32 of which have been spent in the back woods，we never yet saw one oo
the above named animals in the woods，although we have spent day ate enough to shoot a wild turkey，and hi wo deer．We broke the leg of one，and an
ndian followed it and got tit；the other we hot in the head－it took to the river and ans followed and every kind is，we think，to be re retted．The greatest enemy we have to he feathered tribe，excepting man and th nd wase a war of extermination against him．We pay a heavy tax for his suppor on the farm ly the loss of lambs，geese，
lucks and poultry of all kinds，and still a greater tax ly the loss of birds that he de troys．The reward of a small sum of money per head for every fox and skunk
killed in each county，would be well laid out．Who will move in this matter．

The foot and mouth disease has made rith appearance amongst scotland．

Notes of the Garden and Farm.
original and selected.
bush fires.

It is time something was done to prevent
those fires that are from year to year sweepthose fires that are from year to year sweep-
ing over the country, and destroying an im-
mense amount of mense amount of property. The forests ar
fast disappearing botore the axe of the lum
berer berer, and timberor, that a f few years ago was
thought to be the greatest obstacle to the colonization of the country, will soon, in all
likelihood, be a sarce and costly article
Bat, as if the cutting down the woods and likelihood, be a scarce and costly article
But, as if the cutting down the woods and
clearing the land were doing the work to clearing the land were doing the work to
slowly, the fire, lighted by the carelessnes of some one, onssumes whole forests in it
destructive march. A little spark in th destructive march. A little spark in the
beginning, if discovered in some dry
branches, or rails, or trees in mighes. extinguished at once, but when once starte the terrific fire sweeps on with the rapidity is one vast wilderness. We are now again
told of woods on fire-crops fances told of -woods on fire-crops, fences a and
houses consumed. The forests of a hundred years growth, the property of farmers accu
mulated by years of hard toil, all feeding the devouring element, while by day and all the energy of despair. This is no slight matter. It is of the high est importance to the country at large, serious attention of the Government and Legislature. Affairs of far less importance
occupy them, while measures for the preser vation of the most valuable property of
ndividuals and the nation are not thought of. f our rulers cannot devise some means for calamity, then let them take a lesson from other countries. We would direct their at-
tention to ention to the care of forest in Germany as The forest administration there is well nown for its efficiency. There is a wellorganized body of officers, to whom the care
of the forests is allotted in tricts. They are presided over by a forest reat they receive fair responsibilities are ervices. Such a body of foresters in Canad would be a great means of preserving the
forests; and, though they would be an adforests; and, though they would be an ad-
ditional expense to the country, it would be a mere bagatelle compared to the property
they would be the means of saving from deall and to nois a question of importance ers. Their property, their homes, their
crops and stock are in the first to be estroyed, and the very lives of their
amilies are in peril.
farm laborers fo
"Five hundred laborers belonging to the for Canada the last week in August. This is one of the results of the farmers lock-ont.",
The sending laborers out to Canala too late The sending laborers out to Canacla too late They cannot from the time of their arrival make the necessary provision for winter
when there is little employment. Emigrants
should come early in the season, that they may have half the year's employment, and so have the means requisite for their comheavy expenses are unaving the months when is less opportunity for earning. Connected
with this subject of emigration, another im. with this subject of emigration, another im-
portant question arises,--May the farmer expect a fair remuneration for the wages
paid to hired laborers? There are differences of opimion on this sulject. We know greater produce, but is it true as urged by
some, that the additional produce will not more than pay for the labor that rroduce writer in the Complry, Griculterim, h, puts the
case very strougly in favor of hirel help, on the hundred acres left anmers have one or the farmer spends all his manure on a few penses. The remedy is plainu -employ more
labor and thus make a larger capital produc tive. * * On alnost any hundred
are farm two hands besides the farmer are
absolutely neeldel, aul can tan the than one. Two men on fifty acres of caral, l
land will produce more than one man can on one hundred acres, and three men can on

agricultural improvment.
The Telegraph (St. John, N. B.) in advo-
cating the proposed Baie Verte Canal, thus speaks of the injurious results of a want of
ready and cheap communication with Eood markets for farm produce:-While the Bay of Fundy territory has prospered and
become wealthy and prosperous, the Gulf become wealthy and prosperous, the Gulf
territory, with a far better soil and equal
resources in all other respects, has, except in a few favored spots, retrograded. Its
noble harbors are frequented by no feets no settlers are ever heard in its vastsoli-
tudes. Yet pioneers who have visited it within a few years say that it is an excellen advantage. It is admitted to have the biest The territory best thimber on that Island example of what isolation can do towards retarding a fair and fertile region. Though
it has beea settled upwards of 200 years, the whole territory on both sides of the Bay
does not contain a population of 35,000 , yet it has incomparable fisheries, a
most fertile soil climate, in fact everything except commu nication with proper markets; and without that, which the Baie Verte Canal alone can
give, it must forever be in the background.
he barley crop
From a late circular issued by one of the
foremost houses in Oswego, Messrs. Irwin \& Sremost houses in Oswego, Messrs. Irwin \&
Sloan, we make the following extracts. The
information conveyed by them may be upon as substantially accurate may be lonke
 average Western (States) barley does nat vary
materially from last year, the yield bein
somewhet
 a brighter color, but not quite so heavy; the
yield in this State, fully twenty five pery cent.
larger than last seauson, and of much handsomer quailty; and the production in Canad
not less than forly per cent. larger than las year, and on highly satisfactory quality. Con-
sidering carefully the warions opini ins ex
pressed by our Canadian correspondents we udpe that 80c. to 8.5.c. will be be the randents, with
un which their markets will be like
 nay look for first-class sales here ( (Oswego) t
be made at $\$ 1.20$ It is our judgment, how
ever, that these estimates are as likely prove insile the actual pricie as othererwise, and
we hardly feel justified, therefore in und we hardly feel justified, therefore, in under
taking predictions so long before deliveries and
actual transactions are likely to be made."

The subject of planting trees is one that
now engages the attention, not only of agriculturists, but also of legislatures and states. nen in many parts of Europe. We read of
extensive tracts of country lecilt planted
in Scotland, narrow as are its limits, and Trom several parts of the continent we hare
the same intelligence. As in ireventative
from mailaria, in some place trees are a
profitable a protuct as the soil caus yield; in
 barexesss oftes, as in in Holland, trees are
planted by the thousands and tens of thousands. Beside the sea shore, in many in
stances, there are large tracts coverel witl
loose samdl, and fuite useless to the nuricul
 There it was blown in by the west wind

oots for stock feeding
In Brittany the parsnip is becoming the extending. In the Channel Islands this root
forms a large portion of the fodder of the Jersey, Guernsey and Alderneyy cows, an
much of their value as rich milkers is un
doubtedy due the much of their value as rich milkers is un-
doubtedy due to the use of this root for al long
series of years. It is well known to physioloists, says the $N T$. Tribune, how great an
effect upon the condition of a breed of animals is caused by a long period of careful feding,
and this is a conspicuons instance of it. This and this is a conspicuons instance of it. This
root in many parts of Franct is substituted for
oats as feed for horses, 16 pounds ats as feed for horses, 16 pounds a day be-
ing given with the beest effect. For pigs it is
lso largely used, nine pounds of er Sho nargely used, nine pounds of cooked roon-
being fed four times aday. One great advan-
tage of this root is its hardiness; the supply for
 ime when needed.
the asparagus beetle. Every Spring I Ihave to tight this beautiful
little bettle in order to save my asparagus. The mature insect hides away in the the grapausus. its appearance early enough in the Spring to stick a tew eggs to the first strong shoots that
come through the rank , rich sool. Fowls will
pick up many of the beetles if permitted to do so. Still many will escape, and the black
ugly looking larve can usually be found upo he stalk a little later in the season. For sevedoing any considerable damanage by the theee use
ofme sattered over the plants when wet
oth rith dew. This is easily applied and effectual.
though, if one's neighbors do not join in the crusade, a new stock may visit you in Spring,
and the successive broods remain all Summer
if not destroyed.-Rural New Yorker.

$$
\begin{gathered}
\text { Hen manure, } \\
\text { Hen manure is best used } \\
\text { muck that is decomposel, }
\end{gathered}
$$

anure to two oromposed, say compost with
till
mill till it is time to use it, and cover it soon
after you drop it It is ant opreaution to
ut a litle hoe full of dirt between the he nanure and the seed con $n$, and drop it nof faster
than you cover it up. If composting the
nuck contains much moisture, it will caus. ermentation and set the ammonia free, by the
development of the heat. $A$ bush 1 of hen manure has been known to produce te
tons of beets. Always save every ounce hen manure. It is worth about as much as as
guano if it is properry saved and haskanded
that is, kept dry till is to be used. It will ben fit the corn crop to an extent almost equal
in value to all the rorn the hens will eat -
Macsachlusctls Ployyliman IFassachusctts Plouyhman.

the red spider on plants. In hot parts the red spider is very trouble-
some to box edging, and indeed, other plonts growing in the open air. Few have any
idea of the enormous der in gardens, and the great of the red spider in gardens, and the great amount of in-
jury done by it. Thousands of plants set
out in spring, dwindle or die outright at out in spring, dwindle or die outright at at
this season, and the loss is set down tomany chis season, and the loss is set down to many
causes but the right one. The leaves are
first dotted with yellow spots, which larger while the green grows smaller, and at
last die away altogether. If they are taken
in last die away altogether. If they are taken
in time the insects will not increase much;
an occasional examination will soon show their existence in occasional instances, and
these may be destroy these may be destroyed by runbing the
finger under the leaves; but when it becomes numerous, the syringe when it be-
to throw water slishtly be used to throw water slightly impregnated with
coal oil, in and about the leaves. Justenouth oil to give an odor to the water will do
There is danger that There is danger that an overdose will injure.
many leaves, but it can do no more injury many leaves, but it can do no more injury
than the red spider will, and if you destroy
the insect with the the insect with the leaves, a yew crospo
leaves will come out, which will leaves will come out, which will be clear of
all encumbrance. It is worth a little un
pleasant feeling to get rid of such morten pleasant feeling to get rid of such mortgages
on your capital stock. Not only flowers but
evergreens are pest, and particularly the evergreen ter pext, all of particulary the evergreen tre
same way. The must be treated in the
drawn up by the must, of course, be drawn up by the syringe from nearse, be the
surface, as the oil will only float on the surface of the water. 1n this way there
will be enough drawn up with each yyringewill be enough drawn up with each syringe
full to serve the desired purpose.-Gar-
dener's Monthly.

The Agricult
On Saturday last, William Allan, one of the hand , ieded s mewhat suddenly at the in Home
Farm, Merryton, near Hamilt the Farm, Merryton, near Hamilton. For about
twenty-five years he had been in the service of
Mr. Lawrence Dre wenty-five years he had been in the service of
Mr. Lawrence DIrew, and till Thursday was
in ordinarily good health. He was the in ordinarily good health. He was then seized
with inflammation, from which he died on
Saturday Saturday. Allan was well known he died on
land, and especially in Lanarkshire Scotmand, and especially in Lanarkshire, as a plow-
man, whom latterly none could excel. In 113
plowing matches plowing matches in which he had bad been In ngas-
ed, he carried off thirteen prizes in succession,
and among and a carried of thirteen prizes in succession,
most of which trophies opes pained at matches,
could boast of twenty-one medll Scotland, he a watch, and a great number of m meney prizeses
He was a fai hful and ohliging servant to Mr. Drew, by whom he was much esteemed.
has died at the aseo f forty five leavin
widow and a tamity of seven childree.
parasite of the potato beetie.
A ccrrespondent of the Horneek sville Times
says:- IIt may not be generally known that the Colorado potato bug has found its para-
site, or a parasite has f und the potato bug, if
you prefer it that, way the pa asite is oval Ya preernut the way, The pa asite is oval
shaped, about the lenth of the cucumber hug,
nd is mark and is marked on the back, from which it gets
its name, 'the ten spot bư. They have ap-
peared in lare numbers willin the past few
lays,

 be to the ponato lor," what the ichneumon fly
was to the weevil."



methods or cooking tomators
Prominent among the delicious vegetable of the season, we rank tomatoes, and they fast, dinner and supper table. The pleasan
acid of the pulp is beneficial to the system, acid of the pulp is beneficial to the system
and there are few people to whom it is ob noxious; some, however, declare that it act upon the stomach like calomel, and will eve
produce salivation if indulged in to quently. If this in true, torpid livers are in duced to a healthier action, and disease is thus avoided by a plentiful supply of toma
toes in their season, and a large amount o canned ones out of season.
In canning this vegetabi In canning this vegetable, it is much bet
ter to select the earliest ripening ter to select the eariliest ripening ones, a
thore likely to keep well, for the
tomato like the tomato, like the sweet potato and melor, is a native of tropical climes, and the greate
the heat at the period of its ripening, the sweeter and richer are its juices. ripened tomatoes, or those maturing whe
the mercury runs down below 50 at night require more cooking before canning than those which ripen early in September.
Every one knows how to stew to
but every one does not cook them slowly for two or three hours, and thereby add much to the richness of their flavor. Just
before serving the vegetable, an addition of before serving the vegetable, an addition of
two or three tablespoonfuls of of gravy from
the driping pan is also agreeable the driping pan is also agreeabl.

This is my favorite method of cooking them:-Select large ripe tomatoes, wash and wipe them clean; cut in halves around the
tomato; place each half, with the cot side uppermost, into a dripp ing pan and cover its surface with grated bread crumbs, bits of
butter, a teaspoonful of fine sugar seasoning of salt and pepper. Pour in at the side of the pan two tallespoonfuls of
boiling water. Put the pan into the oven boiling water. Put the pan into the oven
and bake two hours, taking care, however not to Burn the upper surface of the toma-
toes. Serve on a platter. It is delicion tos. Serve on a platter. It is delici
for either a break fast or dimmer dish. brolled tomatoes.
Slice the tomatoes in halves, rul, a piece of fat pork on the heated bars of a qridiron each side. Cooked either with beefsteak, or separately, they make a fine relish.

Peel and chop fine five tomatocs of goo add to them holf a teacup of grated bepread Beat four eggs to a foam and stir into the tomatoes. Heat a "spider" hissing hot, put n a small piece of butter, turn in the mix
ture and stir rapidy until it begins to thicken. Now let it brown for two or three
minutes on the bottom, then lap it half over, minutes on the bottom, then lap it half over,
slip on to a hot dish, and serve for break fast, garnished with syrigs of parsely and
slices of hard boiled eggs. It is an appetizso a handsome dish.
The small yellow tomatoes make preserve
equal to those of the West Indics.
Select well-ripened frait, stem and wash well. TTo
every six pound of tomatocs add five pound everysix pounds of tomatoss add five pounds
of white sugar.
Put the tomatoes into a kettle, with just cenough water to prevent
them from burning. Steam, with a tight cover over them, until the skins break
Skim out the fruit and add the sugar, witl a little more water, if neelful, to mclt it.
Boil for twenty minutes put in the toma Boil for twenty minutes; put in the toma-
toes again, let them boil up once, and turn the whole into a closely coveroct jard Int the
late winter slice up two lemons and add to the tomatoes.
tomato marmalade.
To each pound of tomatoes add one poupd
of white or brown sugar first scald of white or brown sugar, first scalding peel
ing and slicing the red tomatoes. Put ove ing and slicing the red tomatoes. Put ovel
a slow fire and boil down until it is well thickened; add one tablespoonful of pow-
dered ginger and thy juice of grated peel of
two lemons to every three pounds of tomadered ginger and th - juice of grated peel of
two lemons to every three poands of toma-
toees. Boil from two to three hours, skimtoes. Boil from two to three hours, skim
ming off all froth. When very thick turn
into small jars and cover tightly. This is into small jars and cover tightly. This is a
delicious relish for lunch or supper, and no
one ceuld recognize the taste of tomato in it. tomato catsup.
Take a bushel of ripe tomatoes, wash
clean, and boin in a a large kettle, with only enough water to keep them from burning
or one hour. Rub through a fine seivet take out all the seeds. ${ }^{\text {To }}$ every quart of
juice add one tablespoonful of ground mus. tard, one each of ground cinnamon, cloves
and grated nutmeg, one tablespoonful of the strongest black pepper, and three table
spoonfuls of fine salt. Boil slowly for two
hours; then to each quart of juice add poontsus of hne salt. Boil slowly for two
hours; then te each quart of juice add half
a pint of pure cider vinegar, and boilhalf a a pint of pure cider vinegar, and boil half an
hour longer. Bottle while hot, band seal up ith tallow and rosin melted together. Th mive to be shaken up before turning fro
the bottle. A porcelain kettle is best for it manufacture. A Onions add to to its flavor if
moiled with the tomatoes at first. boiled with the tomatoes at first.
Cut ripe tomatoes in pieces. boil in celain lined kettle or ar a new tin pan, unti
they will strain easily; then strain through a fine colander or sieve so coarse that it will only keep back seed and skins. Take ten quarts of the strained tamato, add the red quantity; then add the spices gound and half the vinegar; add the salt just before
taking off the fire. Bottle and seal as soon s coll. Do not let it remain in tin after it
cold. The red pepper pods shonld be roken and lef
ready to bottle.
For every ten quarts of the strained tomato use four tablespoonfuls of cinnamon, thre and one half grated nutmegs, five table
spoonfuls of allspice, five tablespoonfuls black pepper, three tablesppoontuls of cloves
seven tablespoonfuls of salt two one pint of good vinegar, nine long red pep
pers. Have the tablespoon slighty pers. Have the tablespoon slightly heape
when measuring the spices-and the spice have freshly gronnd, if possible. The cat
sup is better the second yerater it it sup is better the second year after it is made;
if well sealed, and kept in a cool cellar, it
will keep for years. will keep for years.

To one gallon of stewed and strained to three of pepyer four of alls of fine salt cloves and one of nutineg, all powdered
Boil for an hour; then add one and a hal pints of vinegar; boil fiftecn minutes. Bottl hot, and put one tablespoonful of alcohol on
the top of each bottle, then seal closely.
to kekp tomatoes for winter use. Arilute one way ior keeping them for winte use that may be new to some of your rea-
ders. I ate them in February, sliced and seasoned with sugar and a little vinegar,
that seomed every way as nice as tomatoe picked from the vines. They were pre
served in the following manner:-Dissolve teacup of salt in a gallon of water. Pick ripe tomatoes, but not over ripe, leaving
little of the stem on. The tomatoces mus he well covered with brine, and they will
keep till spring or over. $(G . H$.
yellow pickle.
To each gallon of vinegar take a cuarter of
pound of hrown mustard sced, two ounce of long perper, two of black repper, two of
garlic, one of tumeric, gat mace, half a pound of salt and a few roote
of horsc-radish. Let the salt and spice be
of hine well dried and put them into the vinega
cold. (iathor your vegetables on a dry day strew over them a little salt, and let them stand two or three days, then put them on a
hair seive, cither in the sum or thy f fre to
dry Sut them in a larec in with the gay, and let them stange loy with the fire vine
lays; it must not, however, be allowed to become any hottèr than new milk.

Twelve pounds of fruit, six pounds of su cinnamon. Let the fruit boil in the above until done; take out,put carefully on a dish, let and boil a few minutes; fill in fruit again with tissue paper dipped in white of egg.
cabbage salad.
Raw cabbage composes a part of our dinRaw cabbage composes a part of our din-
ner every day, ano I have various methods
of preparing it, but I think the following the best:- Shave a hard, white cabbage in smal
Shave a hard, white cabbage in small
strips. TTo one quart of tit take the yoke of
three well-beaten eggs, a cup and a half of three well-beaten eggs, a cup and a half of
good cider vinegar, two teaspooonfuls of
white sugar, three tablespoonfuls of thio Good cider vinegar, two teaspooonfuls of
white sugar, three tablespoonfuls of thick
cream, or two tablespoonfuls of olive oil, one teaspoonful of mustard mixed in a little boiling water; salt and pepper to taste. Mix
all but the eggs together, and let them boil
for five minutes; then stir in the Or five minutes; then stir in the eggs,
rapidy, for another five minutes. Turn the rapidy, for another five minutes. .
cabbuage into the mixture. and let it
scald for five minutes, stirring it all the scald or
time.
Set it
perfectly

$$
\begin{aligned}
& \text { Set it on on } \\
& \text { perfectly cool. } \\
& \text { I aways ma }
\end{aligned}
$$

$$
\begin{aligned}
& \text { perfectly cool. } \\
& \text { I aways make enough for two days, at } \\
& \text { onee, ind it keeps perfectly, and it is an ex- } \\
& \text { cellent relish to all kinds of meat. }
\end{aligned}
$$ cellent relish to all kinds of meat.

peach jelly

For a table ornament nothing is more ele yant. Dissolve in sufficient water one oz. peaches and pare them; make 0 dozen large pound of fruit sugar and half a punt of waoil gently fifteen minutes; then place th ruit on a plate and cook the syrup te
minutes longer; add to it the juice of thre lemons and the isinglass. A pyramid mouls is very pretty for this. Fill part full of jelly,
and when set, put in one-quarter of the peaches. Petace, put in one-quarter of and let it harden;
dd more jelly, harden, etc., until full. L add more jelly, harden, etc., until full. Le
the base of the mould be jelly.

## hop yeast.

One and a half pounds of grated raw po-
ato, one quart of boiling water in which ato, one quart of boiling water in which
handful of hops have been boiled, one teacup of white sugar (coffee sugar), one half ood yeast to start it, say about half a pint. One of the this yeast makes four good-sized
loves of the most delightful bread you ever
to dry green cons,
On a warm, bright day take a shallow
box, set slanting where the sum will sline full upon it. Spread clean cloths in your spread it eveveny your cort the botton of the box; then cover very closely with a window
sash. The heit will be so great no fly can inc. Your corn will dry in one day and be
inerfectly clean.
of butter To three gallons of brine strong enough to
bear an egg, add a quarter of a pound of nice white suggr and one teaspoonful of salt-
white. $B$ ail the brine and when it is petre. Boil the brine and when it is cold
strain cabefully. Make your butter into rolls and wrap each roll scparately in a clean
white muslin cloth, tying up with a string. Paok a large jar full, weight the butter down, and pour over the brine until all is
sulbmerged. This will keep really good but-
ter eer perfoctly sweet and ress ar are butter
year. Be careful not to put ice upon but In summer, when the heat will not admit of
Ind butter being made into rolls, pack closely
in small jars, and, using the same brine,
in small jars, and, using the same brine,
allow it to cover the butter to a depth of at
least four inches. This excludes the air, and least four inches. . This excludes the air, and
answers very naerily as well as the first
method suggested.

Pickering, Aug. 25, 1874.
Dear Minnie,--1 have watched with
interest, which was very great, your colum1 ns it gradually grew, and I dare say that Mr.

Wild brother says, for your paper seems t
find its way into the farm houses aroun wish you wour recipes work like magic. xplain paper basket work, the fring kind, in your next paper; not cone-work
but any kind of paper, wool or pasteboard but
frames for small'pictures. wool I or pasteboard
Unintend to join Uncle Tom's Column, if he will have me.
am pretty fair at guessing and and if you will put in a good word for me me have no doubt he will have mo, as I thin
you really are Mrs. Uncle Tom.

$$
\begin{aligned}
& \text { Yours truly, } \\
& \text { BoLLA RENTON }
\end{aligned}
$$

Will some of my co
ondents give the

## inc whitewash.

Mix oxide of zinc with common size, and
pply it with a whitewash brush to the ceil wash of the this, apply in the same manne combine with che oxide to form a smooth ment with a shining surface.
moths in carpets.
To prevent moths from injuring carpets,
buy half a pound of gum camphor, and that buy half a pound of gum camphor, and that
will save all the carpets in your house for a wear save all the carpets in your house for a
ye, bedga few little crumbs under
the edges of the carpets without moving
to cure a frlon.
Many persons are liable to extreme suffer
ing from felons on the finger. These aftlingions not unfrequently finger. These aftlic crippling of the members affected. The folow a cure for the distressing is recommended as a cure for the distressing ailment: Take
common rock salt, such as is used for salting down pork or beef; dry it in an oven; then pound in equal parts. Put it in of turpen
tine wrap it round the parts affected, and as it yets dry, put on more, and in twenty-four
hours we are cured -the felon will be deal hours we are cured-the felon will be dead.
It will do no harm to try it.
proving an alibi.
The following took place in an attempt to Attorney S.-" You say that Ellis plowed
for You all day on the 29th of November?"
 W. -"What did he do on the 30th?" S.- "Me chopped wood
W. "M the 315 t? ",
squi. "rel-hunting"," he do on the $32 d$ ?"
S. "What did
W. -"He threshed the wheat on W. . "" Whe threshed the wheat on that day." W. "What did he do on the 33d?" "was raining and he shaved out
some handles." S.-"What did he do on the 34th?" S.-" "What did he do on the 34
W.-"We chopped wood." 3 . What did he do on the
But before the

But before the question could be finished
the witness' wife seized him by the collar an whisked him nim outside of the witness-box, yel
ling in him the collar and
lis ling in his affrighted ear, "Y Yousold olforl yol
don't you krow hliere are only 31 days in the
month of November!"
dedodizer for crss pools
Take of unslacked lime one pound, erude
sulphate of iron four pounds, put them into a pail and fill up with water, put stir all togethe
uatil the fron salt is quite dissolved; at which tane the iron salt is quite dissolved; at which
time the lime decomposes it, setting free iron oxide in the form of a black-brown precipitate.
When required for use stir well t, gether, and
When use one or two quarts as may be found needdul.
The bad odors will be instantly found to cease. Nauseous gases are mostly composed
of sulphur ompounds, which unite with iron
producin inert und ofroducing inert products. The crude sulphate
of iron is commonly kuown of green copperas.
Builders use it, when mixed with lime a of iron is commonly kuown of green copperas.
Builders use it, when mixed with lime as
above, for brushing over old brick walls preabove, for brushing over
viously to painting them.

The Cottage Gardener Eays that nothing is
so good for goskings as grass ; that is probably
wh why so Dany are kept where there are com-
mons. Oatmeal put in a pan of water is ex cellent food for then, and it is often wise to
add omeme bran to ti. Chickens should have
bread and milk, chopped egg co ap fine, crumbs, sods of growing grass, fresh


## 

mile as a diet and tis. effectis on the
system.
There is considerable difference of opinio
on the subject of sounded by a mass of whims or diet. It is sur-
and of
and and of mistaken ideas, which or prejudices
on individual on individual fancies than upon certain fact
To one a glass of milk imbibed is believed to be a sure provocation of a bilious attack to another, a disordered stomach; to a third gory of simple though disagreeable a ailments. cup after cup of of the fresh tarmer who drains cup after cup of the fresh, pure liquid time
and again during the day, and wonder at the resisting powers which his organization must
possess. The truth is, howerer the possess. The truth is, however, that mill
is not unwholesome.
On the contrary contains good, substantial bone, muscle,
flesh and brain producing sol flesh and brain, producing substances, whesche,
assimilating qnickly, act rapidly in building assimilating qnickly, act rapidly in building
ap, the body. Naturally, we assert it is nourishing ; that it does bring on certaii
troubles is is in the individual stomach, not in the cause provided, of course, the latter be fresh and ${ }_{\text {The et. }}$
had some excellent remarks on recent date Which are well worthy of repetition:
"Milk dilated with
it is said, will not not canse any one bilime water,
it haid, will not canse any one biliousness so strenghthen the stomach as to banish these
disorders. some kind when it does tot easen with acid of The idea that milk does not easily digest.
pickt not be eaten with pickles is not an intelligent one, as milk
curdles in the stomach nearly as soon as it is swallowed. When milk is constipating as it is frequently found to be by persons who
drink freely of it in the connt mer time, a little salt sprinkled the sum. mer time, a little salt sprinkled in each
glassul will prevent the difficulty. When
it has and it has an opposite effect, a fifticuly. When brandy in each goblet of milk will obviate
its purgative effect. As milk is so essential to the health of our bodies, it is well to consider when to take it, and how. It is a mis.
take to drink milk between meals, or with
form food at the table. In the former case it will
destroy the destroy the appetite; and in the catter it it is
never proper to drink anything. After
five pren never proper to drink anything. After
finishing each meal a goblet of pure milk inhishing each meal a goblet of pure milk
should be drank; and if any one wishes to
or grow fleshy, a pint taken before retiring at
night will soon cover the scrawniest bones In cases of fever cover the scrawniest bones.
milk is nummer complaint milk is now given with excellent complaint, ploded, and ${ }^{\text {at }}$ is mow the pherish ' has ex-
reliance in reliance in bringing through typhoid patients or those in too low a state to be nourished by
solid food."

A wríer bax ron cold
A wri er in the Alectical Record cites a num.
bef of cases in which borax has proves
effect effective remedy in certain forms of colds. He
statest that in suddeu hoarseness or loss
tin stated that in sudde hoarseness or loss of voice
in public speakers or singers from colds, re ief
for an hour or so as ty for an hour or so as by mavic, colds, re ief
obtained by often
slowly dissolving and partially
swallowing a lump of borax the size of a gar-
den pea, or about three or four grains held in
the mouth ar the pea, or about three or four grains hels in
the month for ten minutes before singing or
speaking This produces a profuse secretion speaking This produces a profuse secretion
of salvia or cwaterucy" of the mouth and
throat, probably restoring the voice or ton chroat, probably restoring the voice or tone t
the dried vocal corrds just as wetting bring back
dry.

A CURE FOR hydrophobia
A Gearman of age, forest keeper, sixty-two
grave with him an whing to carry to the lished in the Leipsig Journal a recipe he hab used for fifty years, , and whil a recipe he he has
saved several men has
mold a gre at number of animalls from a horrible a death by by hyer of of abia
The bite must be bathed as soon as possibl
with warm vinegar and wate with warm vinegar and water, and when this
has dried, a few drops of muriatic acid poure upon the wound will destroy the p poison of the th
salina, and reliive the patient from all presen
or future danger.
core for cancer.
The following recine for the cure of cancer
is funnished by a reliable person:-A piece of
icking plaster wis sificking plaster was put over the cancer with a
circular piece cut out of the longer than the cuncert, so that centre a little
a small small ci cular rim of healthy skin next to it may be exposed then a plaster made of
chloride of zinc blood root and wheat flou
was spread one was spread on a piece of muslin the size of this
circular opening, and applied to the and twenty-furu huours. On Opplemoding the cancer fo the cancer
was found to have been burnt into, and ap pas found to have been burst into, and ap-
sole, ond colorand hardnesss of an old shoe
she circular rim outside of it sole, and the circular rim outside of it ap
peared white and parboiled as if scalded by steam. The wound is now dressed, and th
outside rim soon came out a hard lump and the place healed up.
The plaster killed the cancer so that it slough out like dead flesh. and never grows aghin.
You who suffer try it.-P. E. I. Examiner.

A Frenchman roasts coffee, grinds it
four, moistens it slightly, mixes it it it weight of powdered white surar and then
presses it into tablets.
One of these the and be dislved at any. time of these tablets
water, making at once the very perfeot cold
wit water. making at once the very perfection of
coffee; and it is claimed that a pound of the
berry will go mucl further berry will go much furthar by this than by
any other reparation of the beverage.
vitality of crasshoppers.
rasshoppars thator, writing about renarkable
West, West, says that in his opinion they come from
he lwer portion of the British Possessions,
and the and that they are a very hady insect. It takes
quite a breeze to kill themd ing Inmerse one in
water for inree hours, and he will come to have better masticative, and digestive faculty पllan
ver. The come have of a modern belle. When Whenc helir with the avidity
velloped, they have a better locong de-
 got a wing developement now of about a quare
ter of an inch, while the body is about thre
tuarters of an ind

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 | $\begin{array}{c}\text { G. We. WELDRICK, Thornhill, Breeder of Cotswold } \\ \text { Sheep }\end{array}$ |
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Cattle, South
Bhire Pown and Leicester Sheep and Berk-
 DAWS \& CO, Lachine, P. P, Q, Importers and
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Jattle. © . WALTER RAIKES, Barrie, P. O., Breeder
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