

AND FOMME MAGGAZINE.

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## THE FARMER'S ADVOCATE

Home Magazine.
wilham welid, - Editor and Propitetor.
The Only Tllustrated Agricultural Journal Published in the Dominion.
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## The Month

The past month-we may say the past two months-have been unequalled in the annals of our country for the rapidity with which prices of all farm products have risen in value. The most re markable has been the rise in cheese; two month ago it was a drug at from 5 to 7 c .; last week was in great demand at from 12 to 14 c. When the dairy interest was at fss the business, but to our readers not a be sure to rise.- But continue, aries ceased to make and now they re res business which ha lately been paying so well.
One of the causes of the great advance in the price of cheese may be attributed to the great drouth that has continued in all the dairy districts of the United States. While our dairymen hav been enriching themselves the American cattl have lacked food and water, and therefore thei usually large production must be very materialy diminished, and ours thanse have $h$ able season for grass that Willard's article on the crop reports.
Wo bin
We frass. The weather has been so usually fine that all kinds of live stock have taken on flesh and fat at a rapid rate, and all must now be ready to go into the shambles or into winter quarters in fine order. This fine growth of grass must tell, not only on our present stock that is ready for sale, but more particularly on the meat crop of next year. If our farmers will only keep them thriving during the winter, as they should
do, they will make more profit next season from
beef, mutton and pork than they have ever pre viously done. We repeat-don't sell your yồng wheat.
Sell, sell, sell : is our advice now; the price is good and it is highly remunerative; do not horde say when wheat is low. "I want a dollar." Now some say they want two dollars. Perhaps they may get it but the chances are, in our estimation, that the price is just as likely to fall as to rise, in fact more so. Speculation in every thing is now reigning. The present we think in the right time to sel. A drop may come and most likely will; you may depend it will catch some greedy farmer with his wheat in his barn and his cheese on the shelves. Now the price are good the holder runs ten times more risk ing his crop than when they now. hel porters of their own names this day; they would not invest a dollar in it now; they wil only purchase to fill orders that are sent. They have shipped many hundreds of car-loads this fall already, and they are in a better position to know the prospects; they have telegrams several times a day. Still some farmers who sit by the fire and read nothing think they know better than such men, and still hold on to their produce. If you think you can view the situation of Europe, Asia and Africa better than European capitalists, or if you an command money at a lower rate of interest han they can-then, and hen they bring such high prices as at this time. Hitch up your team and take out another load before the roads get bad and winter rates of freight set in.
winter wieat.
The beautiful weather has given the winter wheat an unusual rampant growth-so much so mowing machine; most farmers have their stock on the wheat to cat it down. If you have not topped yours, and it is rank, put in all the stock you can while the ground is dry, or even when the ground is frozen sufficiently to bear the stock. Do not let your stock eat too much of it at first; it will be apt to scour them if you do, perhaps bloa them. The root has now a good firm hold in the ground; that is all it wants for the winter; it will make top enough in the spring.
to have the top taken off too close than to leave to have the top taken off tor cose
One of the best farmers in Markham township accosted us when in Toronto at the Exhibition time. He said he liked the Adrocate, but he did not agree with us in our advice to farmers
the fall wheat late; he always liked to have his in early. In this locality many fields are affected more or less by the Hessian Fly. Some fields, we
re sorry to say, have been plowed up and re-sown, but we are glad to say, as far as our observation goes, they have invariably been fields belonging to on-subscribers, and have all been sown early. There has been an unusual breadth of winter heat sown this year. The Hessian Fly no doubt will reduce the yield of some pieces from what it ould be if not attacked; notwithstanding the jury that may be done by mate that there will ent prospects wite when to market next an mach than we have ever had before. The Russian war cloud that has been looming in he horizon for some time has no doubt stimulated the present prices; should that cloud disperse, down go the prices. It is estimated that the surplus crop raised on this con tinent this year is more than sufficient to supply the great deficiency in Europe. There is also a larger surplus in our Australian colonies than eve before; they will now ship to Europe. Corn is a great crop this year; it will be used in the place of wheat more than ever before
fine crop of apples this year, We have had a fine crop of a a very poor one Immense quantities have been shipped and good prices realized ; good prices will still be realized for good apples in good condition. Some fruit growers may obtain a higher price by holding, but the chances are much against as good a pront be ing made in late shipments. The unasual keepin
autumn weather must have impaired the keep autumn weather must have inpaites of our apples. They will decay much sooner, and there most probably will be a heavy
loss in apples that are kept this season. Now th loss in apples that are kept this season. Now the
prices are good, and while your appless are sound prices are good, and while your apples are souny ers and also lots of speculators operating. Ge
your money in your pocket and let some othe your monty in your pocket and yet some othe
person run the risk of keeping apples this year. person run the nisk of keeping apples this year later in the season.
$\qquad$
-
Interyational Dairy Fair at New York.-
The Exhibition will be opened to the public De The Exhibition will be opened to the public De
cember 8th, at 6 o'clock a.m., and thereafter dail for two weeks. Exhibits from all parts of tho
United States, Canada and Europe are invited United States, Canada and Europe are invited,
and entries may be made any time before Dec. 6 . and entries may be made any time before Dec. 6 .
Blank applications will be turnished gratis by
writing or sending to the General Superintendent Blank applications will be urnished gratis by
writing or sending to the General Superintendent.
Of the preming offed in which the Candian Of the premiums offerod in which the Canadian
manufacturers may compete are-Dairy butter manufacturers may compete are-Dairy butter,
for the best made in Canada, 11t prize $\$ 50$; 2 nd,
$\$ 25 ;$ 3rd, diploma. Sweepstakes, for the best Sweepstakes, for the best
butter of any kind, made at any time or place, lat prize, $\$ 100 ; 2$ nd, $\$ 90 ; 3$ rd, $\$ 80 ; 4$ th, $\$ 70 ; 5$ th,
860 . Cheese - For best cheese made in the Canadas, 1 st prize, $\$ 50$; 2nd, 835; 3rd, diploma. ${ }^{\text {For }}$
the best fancy shapes made anywhere, 1st prize,
 Sest cheese made anywhere, 1 st prize, $8100 ;$ 2nd,
$890 ; 3$ rd, $\$ 80 ; 4$ th, $\$ 70 ; 5$ th, $\$ 60$. $\$$ pecial premiums, offered by Nicholas, Ashton, Liverpool, than 200 lbs., and if dairy not less than 50 lbs.) New York, New Jersey, Philadelphia and Canada, prize \$75.

## English Letter, No. \%.

[from our own correspondent.]
Liverpool, Oct. 4.
It is said that rats leave a sinking ship; but it would appear that, for some good reason or other, the literary rat, whose squeaks from Toronto find their way so regularly into the pages of the Mark Lane Express and some other Engish papers, clings is the most unmitigated failure in the shape of a country and a field for emigration, of monied or other classes, under the sun. It would be too bad to suggest that it pays, and yet there might be something in such an idea. There may be here and there a journal with an eye to originality, and a desire to be out of the general ruu of things, which gives him the benefle of its payes, am ! Unfortunately he has got the ear of a really influential paper; and as he hesitates at nothing that can injure Canada in the popular estimation here confess that I should like to see him dressed down a little in the columns of that same paper. I am sorry to see that he has taken anfair advantage of your Manitoba articles. I will venture to say he will carefully abstain from uoting any of those which you promise on the righter side of the question.
The tenant-farmer delegates will now be busy amongst you, and their reports will be awaited
with intense interest. Should they be at all gencrally favorable-and in all honesty I cannot see how they can be otherwise-a great movement westward may be looked for in the spring. Every day seems to be deepening the gloom settling over the agricultural interest in this country, and so far the outlook seems altogether hopeless. The Agricultural Commissioners, Messrs. Clare, Sewell, Read and Pell, I see, have got as far as Winnipeg. From what heara before in your Administraion to hove them so far into the heart of the Dominion.
The trade in Canadian horses of superior quality has somewhat improved during the last few weeks, and indeed has been brighter in Liverpool than it has been for sore months past, a large number of sales having been effected at remunerative prices. I may remark that two orontonians, Mecently with a very fine selection of Canadian horses, hav met with fair success, sufficient at all events, as I understand, to warrant heir return th this country with an the press before this that the Enen announced me has contracted for upwards of Eng thousand cavalry horses from Hungary. These are being sent on to this country, via Rotterdam, in drafts of 120 each, and the first instalment has now arrived. As to the reasons why the British Government, or rather their contractors, have gone to Hungary-the first probably is that the principal contractors are Austrian Jews, domiciled in London, and these have connections throughout Austria and Hungary. Another reason, and probably a yet more importan than Canadian. noticed recently in perusing the Cauadian papers that a meeting of horse-breeders and others inte rested had been held at Toronto, at which it was suggested that the Government should give some patronage to the breeding of bett class horses. I may here state that the reason way the Austrian horses have so much more quality than the Cana dian is that for many years pasi the Austrian and had them located in the horse-brceding centres of Austria and Hungary, where their services have

## been available at merely nominal charges. Thus

 not only has the Austrian army been supplied with some of the finest horses in the world, but there is a surplus of first-class stock for export, and it has thus become a source of national wealth. I have taken a great interest in the importation of Canadian horses, and notice that with few excep-tions there is a sore lack of quality. "Slaves," it is true, you have in any number. In conversation with the Managing Director of the Liverpool Omnibus and Tramway Company, I learned that there was no fault whatever to be found with our Canadian horses of the class required by thei company. After a little rest they were found to have grand constitutions and good legs, and i there was a fault it was the flat foot. I have als conversed with many dealers who have purchased horses in Canada, Canadians interested in the this defect is to be attributed to the too extensive introduction of Clydesdale stallions of inferio quality. No doubt, with the ordinary Canadian mares, substance was wanted, but the Clydesdale leaves the impression of coarseness both befor and behind, which it will take generations to obliterate. I myself cannot see how half-bred Clydesdales with all their weight could have also the lightness and activity so essential to general purpose horses of the Dominion which are alway country, any farmer can come across here and buy a horse, but he lacks means to bny a first-clas one. The consequence is that culls have been in troduced to the Dominion. The word 'imported" on the "visiting card" would appear to have been sufficient introduction to any district. These chlls are invariably second and third class Clydes dales, and have been cast or sold at a low figure in this country in consequence of some defect-fla I am aware that there are many of cours exceptions to this rule, as Canada has a few of th finest Clydesdales in the world. Still I am of opinion that the horse for America is the good old fashioned up-standing Cleveland Bay stallion which possesses the size, as well as quality. Sinc the introduction of Victorias and other light car riages, which brought into use the horse of 15.3 for park and other purposes in this country, th Cleveland Bays have come into disfavor, and may be difficult to find in the country. Yet I believ the variegated wretches-sorrels and others-a description of which I read of at your shows could be introduced by the Government or Agri beneficial turn would be given to this importan industry-so easily to be made a source of grea ational wealth; for it has become patent in thi country that it does not pay the British farmer to breed carriage horses or hunters. It thus become a question whether in the immediate future Canada and the States, or continental countries, shall sup ply the increasing English demand. Already our some 40,000 head per annum.
The past few weeks have be
to all concerned in the live stock trade anxious time Last week a cargo of sheep, ex the Bulgarian, from Boston, U.S., was ordered to be slaughtered on
the quays in consequence of foot and mouth the quays in consequence of foot and mouth
disease being found amongst them, and on Monda last the live stock ex the S.S. Quebec, from Quebec was detained because Mr. Moore, the inspector for the same much.dreaded disease amongst the pi on board. The Canadian Government Agent her at once took up the matter, and Prof. Dugleid wa sent down by the Privy Council from London. He
made a thorough inspection of the whole cargo and could find no trace whatever of disease, though a few of the pigs had abrasions on their hoofs, caused by a rongh passage, or, more probably, by travel on a macadamised road before being put on
board. This is not the first time that Mr. Moore has stopped Canadian live stock on account of dis ease which has been found to be non-existent; and it is more than probable that, were it not for the fact that the Dominion Agent here is constantly on the qui-vive, and insists on a thorough investigation of each case, Canadian stock would now be in the same category as the States' importations-a state of things which would give huge delight to certain people here and elsewhere. It seems monstrous hat a man who cannot distinguish between foot and mouth disease and accidental foot abrasion should have a
at his mercy.
The condition of the Canadian cattle and shee has been simply wretched. When will farmers nd exporters come to realize the fact that it will not do to send grass fed beasts to this country? They may have been very fair beef when they started, but they shrink away at a tremendous ate on the passage, and even atter arrival bere As to sheep, the breeding and quality leave little be desired, but they are sent forward in ave to be disposed of as stores. I was taken by gentleman in the neighborhood of Liverpool to look at 100 Canadian sheep which had arrived ome months ago. They had a few score of the choicest English sheep with them. They had all been put on some splendid keep, and it was uttery impossible to distinguish between them till they were caught and their brands exarined
The weather, according to localities, has varied ere of late. In some parts of Ireland and Scot has wended to somewhat improve the condition of the cereal and hay crops; but the long-continued wet season has made the potatoes a complete failure throughout the British Isles. This country, as you are aware, is already a large importer of potatoes, and the trade must now be largely increased. Last year the amount of money spent on potatoes mported was close on twelve millions of dollars; his year, unless we do without potatoes, which is hardly likely, it may be assumed that we shall ountry in order to keep up our supply. Will not Canada take her share of this? The earlier potaoes have come mainly from the Channel Islands, nd Malta, Spain and Portugal, and the main crop rom Germany-particularly Pomerania, Holland, Belgium and France. But this year those regions have been sufferers also, and the surplus for export will be internally diminished. I notice by he Board of Trade returns that Canadians are live to the position, and several consignments have arrived here. I ucirligs pre the first would be about $\$ 40$ per ton. It is difficult, of course, to say whether this price will be maintained, but it is probable, from present prospects, that it will be exceeded. I would like to remark to intending exporters that it is the same with potatoes as with horse-flesh, cattle, sheep, pigs, butter, cheese, and everything else-unless it pays to ship the best they have it is better to leave the business alone; for any man who ships inferior stuff to this market will be sure to get his fingers burnt. In respect to potatoes care must be taken to send
only such as are white and floury boilers. Coarse,
yeliow, soapy potatoes could not be disposed of yellow, soapy potatoes could not be disposed of
here at any price. They would simply have to here at any price. They would sinmply have

## Manitoba, No. 5.

As we journeyed to Manitobs we conversed with numbers of the passengers on the train, most of whom held very high opinions about the country. Many had been there and were returning, some
with their families, some were taking stock with with their families, some were taking stock with them, others were taking ladies and their families were going to their hus. the circumstances, positions and prospects of most of them. We purpose giving you the experience of Mr. Plaxton, who appeared to us as being more like the average of our readers, and a man of energy, intelligence and exterprise. He was formerly a farmer in Middlesex. He went to Manitoba and travelled about it. He did not suit himself in getting a location, and -preferred to go 500 miles north-west, to the Saskatchewan Valley, to and put his land under cultivation, and was then returning to Manitoba with his wire and family. His reasons for going so far were stated thus: The land in Manitoba, near Winnipeg, is too wet, and is very difficult to drain; there are too many reserves in Manitoba; the land is in the hands of speculators and he did not believe in stopping there to make roads and improve the properts
their benefit, and pay for the land besides. He their benefit, and pay for the land besides. He added:-"On the saskate wheat per acre; it is a better stock country." He liked the soil and water better. We enquired of him what he would do for a market there. He said they had a better market than Manituba.
The cost of freight on provisions to the Sas. katchewan is $\$ 6$ per 100 lbs . The Canadian Government must either feed or fight the Indians. The former would be the course that canald cattle, adopt, and he judgment, in his opinion, to pay for land in Mani joba when they could get plenty of better land on the Saskatchewan free. It is our opinion that Mr. Plaxton will come out in the long run as well as any passenger on that train. The state of the roads prevented us from reaching the Saskatche wan Valley. Besides his family he took stock, implements, and two years' supply of meat and groceries. His bread he had already to Manitoba We are convinced that many who go to Manitoba A person going there should take plenty of time A person goowg about, and never be in a hurry to jump at whit he first thinks to be a bargain. The Govern ment must fix a tax on all this land held in speculation. No reserve should be exempt. The tax should be made to fall extremely light on an immigrant who only holds land enough to raise hi read and support his family, as these are of thos who improve the are a curse to the Provinve The voice of the people will demand this also. The plazing in office of ignorant, inefficient men because they are their friends, or may have sup ported some political party, is another great detri ment to Manitoba. Despito which are always to be hore this great North here is a grand We quote the following from an exchange:-
At a dinner given in Winnipeg to the English Creat wheat-growing country of America, was great
predicted by the speakers. Mr. Maylor, Mer.
Consul, explained the three great productive belts Consul, explained the three
of North America, speaking of the cotton belt of
the south, the corn and pork belt to the north of the south, the corn and pork beit to the no belt of
that, and then the great meat the north, three-fourths andian Northwest. The prehended within the Canadian Northwest. ine
great country between the Red and Peace rivers
was to supply the Old World in the futare. Min-
neeota was only on the soothern margin of this
belt. Canada was to be the great future grain nesota was
belt. Canad was to be the great future grain
supplier of the world, with Russia her only compeptitor. The meat supply of Canada, he said,
was superior to anything that could be furnished was superior to anything that could be furnished
in the United States. The Commisisioers,
Messrs. Pell, M. M., and Reed, M. P., expressed Messrs. Pell, M. P., and Reed, M. P., expressed
very favorable opinions of the country, Mr. Reed, a thorough practical English farmer, saying:-
"Manitoba has the be t and most productive land "Manitoba ha
(To be continued.)
Ten Million Dollars per Annum. The Hon. Wm. G. Le Duc, U. S. Minister of Agriculture at Washington, has issued a well-pre pared and clearly illustrated work on th of pleuro-
of farm stock. It treats very fully pneumonia and hog cholera. It shows that the loss to American farmers amounts to ten million dollars per annum by the death of hogs from this disease. We ask Canadian farmers to discuss this subject at every store, hotel, blacksnith shop, and at home. We have told you that this disease has been imported into Canada on more occassons thia one. The Board of Agriculture has done nothing this dangerous disease among your stock. The Government has not been pressed as much as they should have been to prevent the importation of American hogs amongst us. When diseases are once fairly set going in a country who can estimate the loss. Prevention is what we should ask for Tha time is coming when greater care will be ex ercised in selecting pure and healthy meat, and when danger is known to exist. Meat from dis eased hogs, we know, has been sold in Canada, and who can say that trichina may not be doing its work amongst some of our dioves. Our Govern ment has done one good act in preventing the im portation of American cattle into our Dominion They will not act for the best interests of the farmers if they allow that restriction to be removed Trough the persuasion of persons interests until the United states, a chance of introducing pleuropneumonia has long passed away. From recent ccounts there have been fresh outbreaks of this disease in the States. Every reader of this jour nal should let his voice be heard and ask that our infected, and that American hogs be kept out of our Dominion also.
Imported Disease.-The Agricultural Gazette England) speaks thus of the results of the pro-
hibition of diseased animals from America:"The Kentucky Live Stock Record courtoously challenges the accolucy :-Since England check ed the importation of cattle, she has become almos entirely clear of the more virulent disease, and has wn venture to say, as healthy herds as any count nhis sentence is literally true. The success of the
severe measures of the English Government (un severe measures ore were the time to numerous catpalatable as they were cers) can no longer be gainsaid.
tle breeders and deale
Since the trade in live stock has been restricted Since the trade in live stock has been restricted,
and supervision insisted on, the country previously
and mouth," and seriously and supervision "foot and mouth," and seriously
over-run with
affected with the "pleuro," has become exactly what is written above, almost entirely clear of the
more virulent diseases, and such success following more virulent diseases, and such sacceaif, demon-
upon the terrible loss of 1876 and 1877 , strates the wisdom of continuing the sur
which has produced such happy results."

With the frosts of October will close the year of
With the fro
Trees may be safely set if a good supply of roots
are taken every season when without leaf. November is said to be the best month to trans
plant evergreens. Try it.

A Dominion Farmers' Club Suggested.
$\$ 50$ offered in premivms.
The state of our public agricultural affairs cannot exist much longer as they are or as they have been for years past. Farmers are now juist begin. ning to see that political influences, city and local interests, American and personal interests, are and the real practical farmers, and that much of the money which is exacted from the farmer is expended against his interest rather than for his pended against his interest rather
benefit. In no country in the world is agricul. ture carried on in such a complete manner as in Britain; in no country are there finer agricultural exhibitions, conducted on more useful and honorable principles than in Britain. We Lelieve th'e Government does not give one cent towards the Royal Agrioultural Exhibition, or for model farms or schools of agricultare; neither
does the Government expend its money in raising stock or crops to compete against private enterprise. It is our opinion that if Government were to leave the farmers to manage their own affairs they would be managed much more beneficially and economically than they are now. People that have only the one object in view, namely, that of getting all the money and all the
patronage for as littie as they can, are not so patronage for as littie as they can, are not so
efficient in their positions as men who have an efficient in their positions as men who have an
interest in the work they undertake. The efficient management of the Industrial Exhibition is due to the energetic, efficient and judicious supervision of the volunteer managers. The high position obtained by the Western Fair is due to the same cause. The great loss and the enormou cost of the Provincial Exhibition is due to oauses alluded to. While the two former exhibition nave added to their resources, and hore good this year than the Provincial Exhibition; they have done no harm that we are ware of, whereas the Provincial Exhibition and its managers have done much harm, perhaps an rreparable injury. We shalr all be called upon to pay from our hard earnings more money to keep that inefficient, rotten institution in existence, for if it is to be supported the present funds cann ddress, alludes to the necessity of enacting a law do prevent the success of the private exhibition such as the Industrial, Western, Union, \&c. W do not think the farmers in this the 19th century would support a Member of Parliament who woul dare bring such a Bill before the House,
The Model Farm was established for the benefit of an individual. The ground on which it is established is the worst that could be selected for testing. The sale of produce has interfered very materially to the injury of private enterprise. Managers and officers haves the American, the first tical purposes. McCanas fer fored manager, Americans were allowed to make purchases of stock which had cost us Canadian farmers ten times more than was received from the Americans for them. This purchase, small as it may have been, plainly indicates what we might expoct. Again. when information was the infor Canadians ahout a con was that no information mation to be caven before the Board were first inform. ed; and as the American Senate rules, the first information mast be for the Americans. Can we take 3 better pattern than from the Royal Agricul tural Association, of England? The Elmira Far mers' Club, in New York, imparts a vast amount of valuable information to its members and to th public.

There should be township clubs, county clubs, and provincial clubs. Members of the county clubs should be elected by township clubs; county clubs should elect members for the provincia bers for the Dominion Clab. A fee of $\$ 1$ per annum should be paid for membership, or $\$ 10$ for a life membership. No member should hold the same office more than four consecutive years, except the Secretary. The Secretary should be the only officer who receives pay. These clubs should have the management of all Government moneys that may be granted for the purpose of aiding agriculture in any way. Rules, regulations and by-laws should guide the management of these encourage this project we now offer $\$ 50$ to be distribated as premiums in the following manner: $\$ 10$ to the first township club which may be organized in either of our provinces, namely, Ontario, Quebec, Manitoba, Nova Scotia, New Brunswick, British Columbia and Prince Edward Island. The clubs in each township must have their five life members, who have paid $\$ 10$ each.
If any of our readers can suggest a better plan, or if they object to this, we have a space in this journal for them to express their views, as a change in the present system assuredy must be made. a. blind to keep the same men in power. Let us have light on this subject. Have you not some useful suggestions to make? Do you approve of the above? Either condemn it openly and fearlessly, or support it; or suggest a better plan. If you think the present Board are right in attempting to check private enterprise by law, as suggested, and as they have done; if you think they have been right in attempting to spread the foot and mouth disease, pleuro-pneumonia, and hog cholera among consider that the funds of this Association have been honorably and honestly accounted for which they have not been; if you are a free and independent person either condemn these vile assertions which this journal has fearlessly and unhesitatingly thrown out, or else let us hear from you in approval. Let your voice be heard at home and abroad. Do not attempt to excuse yourself before any person you may address by saying that the tenets. We ask for fair, pen discussion The mere assertion that a person makes a false state ment, or is in error, is no honest man's arcument Any one having objections or suggestions should let their views about our agricultural affairs be publicly known either through the medium of the Advocate, or the Journal of Agriculture, pub lished in Montreal. If you desire to be heard, and may see your writings poritics of either side, we reply We have not the time to wade ready to nor even open one fourth of the political papers should not be made sulbservient to the political interests of either party, but should be calmly viewed on their own merits.
In arranging for in-door plants, sclect, if posshort, and plants neell light. It is important to give them brightuess and warmth if we would have them thrive. If an east or south winkow
cannot be had, then a west window is better than cannot be had, then a west
one opening to the north.
Experience has demonstrated that good, wel rotted cow manure is, in all cases, the best for
house plants. Water can be house plants. Water can be $\ddagger$ laced on the manure
and the liquid thus obtained can be used to good
advantage in watering plants. advantage in watering plants.

## Don't Spare the Feed.

 Now is the time to make money and enrich your farm. The prices of all kinds of farm stock are good. The best yield the most proft. Do not stock and keep the young growing. You can make more profit by feeding a pig in 12 months than by taking 24 months to fit it for market. You can make more money by feeding a beast for 30 months than keeping it double the time. By using grain, and keeping stock warm and oomfortable, ing corn enhances the value of your manure pile far more than you have any idea of. The following extrac may appear astonishing and almost incredibleyou, still we deem it worth perusal, especially we quote it from the agricultural department of the New York Times, which is conducted by me of noted ability in treating on agricultural sub ts :-
The books have generally taught us that horse that feed makes the manure, cows. The fact is are usually fed in large part with grain their manure is richer than that of animals not so well
fed. But if we feed cows as well as horses, the and remains in favor of the former. This is rea sonable, because the more an animal exerts the muscles violently the more it uses up the nitroHorses which work constantly thus exhaust the food of its nutriment to a greater extent than cows, their food chiefly into milk are given and, turning tunity to do their best at this, their special business. So that when a cow gets a daily allowance rich in phosphoric acid, and two quarts of cornmeal, rich in nitrogen, or perhaps ntarly double
this allowance, besides clover and other nutritious this allowance, besides clover and other nutritious
green food, the manure cannot fail to be very rich, green food, the manure cannot fail to be very rich,
nor to tell its story when used in the field. For
light soils there can be nothing better than the light soils there can be nothing better than the canure from well-fed cows, and there can be no
better method of improving land than that of car rying on a dairy under a system of feeding by green crops cut and carried to the stable and yards.
At the market rates for manure the cost of the At the market rates for manure the cost of the
feed is fully returned in the value of the manure so that an actual proof is afforded of the truth of the chemist's estimate that a ton of bran or meal
worth $\$ 12$ returns in the manure a value actually in extess of its cost price.
in returns in the

A National Agricultural Societr.- -The beneficial results from the operations of the Royal
Agricultural Society of England, have instigated Agricultural Society of England, have instigated
Americans to organize a similar Association all has been issued throughout the United States for a meeting of all those who may be interested
in the formation of a National Agricultural Society. The circular states that "an association is designed that will embrace every agricultural interest, and represent every section of the country. The
object is the advancement and protection of
American agriculture by American agriculture by practical methods ; principal among those contemplated are the pro national fairs in different parts of the country meetings for discussion and the dissemination of thought and experience on matters pertaining to
agricalture. It is believed that there is a wide field of usefulness for such an association. Eng land's greatest and best institution is her Royal
Agricultural Society, which contains over 7,000 Agricultura
members."
Potato Ror is quite prevalent in Rhode Island num some parts of Connecticut. Reports are
numerous of fields and portions of fields hardly worth the digging, and of large quantities of tubers rapidly spoiling in bins and barrels afte
having been gathered in apparently good condition having been gathered in apparently good condition.
The disease seems to be confined almost entirely to the later varieties, the early ones having evidently matured soon enough to get out of the
way of the trouble. Former expectations of a very large local crop are now, by these reports, much modified, and the markets in New London,
New Haven, \&c., have stiffened in consequence.-
[Conn. Farmer.

Improvement of Dairy Stock.
Of the many improvements urged incessantly by the Farmer's Advocatr, the improvement of dairy
stock was not the least, and we have the pleasure f seeing an advance in that direction. Better tock and productive cows are now more sought or ; farmers and dairymen find that twenty good cows well cared for will bring to the owner a greater profit than twice the number of inferior nimals. The dairy may be made to be profitable. New York Times, on the Improvement of Dairy Sew York Times, on the Impro
Stock, is plain and to the point:-
A new beginning needs to be made. Stock must
be closely examined. No more slipshod work in he dairy can be done. Every man must know he good from the bad cows, and get rid of the atter at any sacrifice. Hereafter none but good
nd profitable cows can be kept. The best calves an no more be sold. The common idear that it cost oo much to raise a calf from an extra good cow, be bought for less money, will have to be abandoned. A clear record of each cow in the dairy must be kept. The income from each cow must be know, raised to take their places. The character of the
herd must be raised by the introduction of selected hulls from well-kuown herds of whatever breed the fancy may desire. It cannot be justly thought that
this is a needless trouble and expense. On the his is a needless trouble and expense. On the
contrary, it is business, and the true business contrary, it is business, and the true businese,
method. There is much dead work to be done,
work that does not pay to.day or this year, but is work that does not pay to-day or this year, but is
preparatory to profitable work hereafter, and with preparatory to profitable work hereater, and in the
out which business would soon cease. An
diary the rearing of young stock is dead wotk dairy the rearing of young stock is dead work of
the most needful character. A herd of cows that will yield 2,500 pounds of milk a year will cost as much to keep as one that will preduce 5,000 or 7,500 pounds, and the latter yield is quite a pos
sible one. Thousands of dairies in the country do not average more than 8 pounds a day, 2,500 pounds in the year, which, at the low prices cur rent for some time past, does not pay for the feed
ing. Herds, on the other hand, could be pointed ing. Herds, on the other hand, could be pointed
out which reach the latter figures. A well-known
Ayrshire herd shows by its record Ayrshire herd shows by its record 10 cows that
average 5,000 pounds each in the year, 17 that average 5,000 pounds each in the year, that go over that. A prominent Dutch, herd aver-
ages from 8,000 to 11,000 pounds in the year. ages from 8,000 to 11,000 pounds in the year. A
wellilknonn short-horn herd of pure breed averages
over wer 5,000 pounds yearly. Several butter dairies reach a product of 300 pounds per head yearly,
and what these do others may. Heretofore, high and what these do others may. Heer led to expect
bred herds, from which we have been extraordinary performances, have been damaged or ruined by too much attention to color, form
and pedigree and other useless attributes of herd and pedigree, and other useless attributes of herd
books. Hereafter, the good sense of breeders of boirs. Hereafter, the
dairy stock will lead then to look at performances as of greater value than any other points, and a
great improvement, if not in actual daily yield, great improvement, if not in actual daily yield,
still in presistence of yield for a lengthened period, may reasonably be expected from the importan
inmovation. So that, while dairymen may even innovation. So that, while dairymen may eve
now greatly improve their stock by the introducnow greatly improve their stock by the introduc
tion of choice bulls and the careful rearing of the progeuy of these with the best native cows they
can select, in the future they may look for still better material to work with than they can now procure.
The cost of the improvement is within the reach of every dairyman. A herd of the cows can
served at a cost of $\$ 5$ per head the first year, o perhaps loss than that-as this will pay the pur-
chase money of an excellent bull-and after the chase money of an excellent bull-and after the
first year the cost will be about $\$ 1$ per cow, the first year the cost will be about \$1 per cow, the
mere expense of feeding the bull being the whole mere expense ocede rought to cow's estate at
of it. A call can be bex
an expense of $\$ 30$ for feed and attendance. A an expense of $\$ 30$
good cow cannot be procurred for so lotitle money
as this and a poor one, it is to be hoped, will be as this, and a poor one, it is to be hoped, will be
considered hereafter as not worth having as a gift.
. remedy against futuryman has in his own hands remedy against future loss from possible low prices
and the means of doubling his profits in the good
time now time now apparently at hand.
A great flight of grasshoppers was observed at
Dallas Texas, Oct. 16 th and 17 th They passed Dallas, Texas, Oct. 16th and 17th. They passed
over the city from a northerly direction. Reports
from various points in Northern Tisas. from various points in Northern Texas aay grass-
hoppers have appeared, but so far no damage has hoppers ha
been done.

## Our Cattle Trade-A Yankee Dodge.

As we go to press we notice in political papers that the United States Treasury has issued a circular prohibiting the importation of neat cattle from Canada, to go into effect on the lst of De cember. What such a restriction is issued for we cannot conceive. Some Canadian jou Americans say it is to prevent the introduction of disease from Canada, but as there exists no disease of an infectious nature among our stock that argumen cannot hold good. What effect it will have on our Our oninion is that it will act most beneficially on Our trade and most profitably to our farmers. All that is now necessary for us to do is to feed a little better, aim to raise larger animals, and to fatten them better. We have the British market open to us for live or dead meat. The Americans have purchased some of our stock, fattened it and sent it to market. Why cannot we fatten our own stock just as well? They have bought large numbers of our lambs yearly; if our fars kep well as the Americans can
We are pleased that they have prohibited the
trade It will tend to the enrichment of our fracms and farmers, and we trust that now they have issued the proclamation, they may not recall it until their stock are free from the numerous in fectious diseases that infest them. That will take a long time; perhaps they never will be eradicated. Then, and not till then, we might hope that suci arrangements might be made between the tw countries so as to
Our Dominion Government has acted wisely in preventing Amorican cattle from being imported would prevent the possibility of hog cholera being again imported from the States. We do not consider that our Government acted for the best interests of the farmers (although it may be regarded by them as intended to be such) when duty was put on American corn. For the benefit of all real farmers that we have spoken to on thi subject, we feel safe in asking for them that the duty on corn may be remor onanactare beef cheap corn to enable them to manufactare beef, would add much wealth to the nation if the duty on corn was taken off; we do not know any it would injure. The profit to be made now by hav ing cheap corn would richly repay all that th Government realizes as duty in many other ways

## Pear Blight.

The Gardene
ause aud cure.
cause aud cure:
It has shown by careful microscopic examination in its earliest stages, that the disease is caused by a minute fungus which develops in the bark and penetrates inwardly, destroying the cell structure as it proceeds. The fungus is so small that the distinguished investigator, under a powerful microscope, consequence.
the species ; but this is of no conser
This being the cause of the disease, the preventive is obvious. Any one who is in a netghborhood liable to blight, can have ware linseed oil, washhing wash or other things that will kill a fungoid spore without injury to the bark. Of course gpores may get into a crevice where the wasere,
can not racach and hence may be some cases where, even though the trees be washed, there will be
disease. The cause of the disease has been so disease. The cause of the disease has been so
clearly demonstrated, and the remedy so patent, clearly demonstrated, and the remedy so paten,
that the cases of "fire blight" only prove ignorance
or neglect.

## Apples-How to Use Them

Many of you have a good crop of apples this year; perhaps you will have none next season. Some are selling in the orchards; some are care y storing their best; some are letting their e following from the Country Gentleman. Per aps some of you may want apple butter next ear, or wine, cider or vinegar ; careful farmers will have some of each. Many thousands of dol ars worth will be wasted. Have you made the nost of yours? If not, try the following cider vinegar.
This is almost a necessity in house keeping, and easily prepared. After cider is fermented draw off into a keg, into West India molasses or maple rup, put them into the keg of cider and set in a warm place, near a stove or chimney where it will ot freeze, and in a few weeks you will have harp, pure vinegar. If one needs it to use in horter time, they can fill a jug with cider and turn into each gallon of cider a pint of molasses and a cupful of lively yeasc. Hared back of the the liquia, let it will keep warm. It will comence fermenting in twenty-four hours, and wil ot take over a week to make splendid shar inegar. It must be drawn off into another jug, leaving the dregs, and kept in a tight corked jug or bottles, where it will not freeze. If one ha god cider, there need be no trouble about vinegar it can be made into sharp tak $n$ a it ime by using a little labor, and taking care of it, sraw paper,
 consistency, and rather thicker in texture.
bolled cider.

This is prepared by boiling sweet cider down in he proportion of four gallons into one. Skim ell during boiling, and at the last take especial leansed with salt and vinegar, and washed with cear water, is the best thing to boil it in. For tart pies for summer use it is excellent; and for mince pies it is superior to brandy or any distind iquor, and in fruit cake, it is preferabamily.
It is a very convenient article in a famil cider wine.
To three gallons of new unfermented cider a nine pounds of sugar; dissolve the sugar by sti ring it well. Put it in orain it through a cloth strainer and put it either into bottles or jugs, cork tightly and it will keep for any length of time, as age improves it. Every housekeeper knows what luxury and convenience a pure unadulterated wine is in a family, either for cooking purpose or medicinal uses. Maple sugar is as nice for wine as any other.

Instead of fencing in a garden, leave it open, or at east with a space of full twelve to fifteen feet all
ound. It can then be worked almost entirely by horses attached to the plough, harrow and cultivator, and at one-fourth the expense, and perhaps
ven less, than with the spade, the fork and the even ess, than with the spade, the open for many
hoe. I have had my garden kept years past and nothing would induce me to let it
be fenced. The cart or wagon, also, with manure, be fenced. The cart or wagon, also, with manu
can be driven freely upon this, and also to take off can be driven ireely upon the
the vegetables when grown, for there is $p$ lenty of
sace all around to come and go and turn. - -Uor. space all around
N. Y. Tribune.

Cargoes of wheat are continually shipped from this being the opening of a new foreign traule.

## Winter in the Sheep Fold

 Sheep should have better care in early winter than farmers are in the habit of bestowing. Win. tering sheep to make them live only, is notattended with profit, let prices rule high or low. Sheep are commonly neglected more in early
winter than any other form stock, for they are winter than any other farm stock, for they
often the very last taken from the pastures. If sheep go into winter quarters in a declining If sheep go into winter quarters in a deoclining
state, the result is a demand for extra feed and
care during the winter, and a light clip of wood care during the winter, and a light clip of wood
in the spring. When a sheep is thriving, wool in the spring. When a sheep is thriving, wool poor, a light one. Sheep should have a l little orain every day, from the time grass begins to
in the fall until it has a good start in the spring. would rather my sheep would have a gill of corn
oats per day from the middle of November till Aprils than a a pint a day from January till June.
There should be one object constantly before the ind of the flockmaster, and
Shelter is one of the first objects in wintering nd sheds as unhealthy places for sheep, when it is want of ventilation that does the injury. It no argument against housing, because some
people keep them so poorly ventilated as to injure heir health. Nor is it an argument against shelter or stock, because it is improperly used. I am ike warm comfortable quarters for them at night, but they should not remain there all day. They hould go out, get some exercise, and have som
unshine after a storm. We ought to know and ppreciate its beneficial effects on animals. Too large a number of sheep should not be
intered together. I nough for one lot; ;y no means let there be mor han one hundred. There is much more danger of sisease in large liocks than in small ones. The
roportion of sheep that do not thrive is alway reater in large flocks than in small ones. The Thision should be madeso as to put sheep of about hemselves, with a few old tame sheep to kee
hem tame. All large and strong wethers should he by themselves, also all breeding ewes. By thi ystem of division all have an equal chance, whic s impossible where large numbers of all
conditions run together.-[Rural World.

Protectina Plants in Winter. - Pits dug in the ground and walled up, say to the deptt o serving tea and Bengal roses, carnations, and othe
half-hardly things over winter. In the bottom, in a soil containing a good proportion of sand, the plants may be hilled in pretty thickly, or the pots
plunged up to the rims. Here also plants such as plunged up to the rims. Here also plants
cabbage, caulifiower, lettuce, etc., for early use,
may be heeled. They must be kept from hard fast by a covering of glass, and hay or mats, and
fove ventilation in fine weather, or when it is not
hot have ventiation in ine wealher, or wable you to
freezing. A litte care will thus enable
winter successfully many plants, both for the winter suceessfully many plants, both for
vegetal)le and flower garden. ||'rairie Farmer.

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 Conorina Burper.-A Dairyman speaking of
coloring butter, says:-A neighbor grated red carrots and put them into the churn with the cream;
but he preferred giving the cows the carros with the hay, and thus got his butter colored in the cow instead of outside of her. An exuellent padantage
he not only obtained it, but the further advantay of the roots moistening and softening the hay in the stomach and making it almost equivalent ran them also for the cow. $\qquad$
A Fing Cočtry por Sherp.-The hoat killed seven thousand sheep out of a tlock of twelve
thousand being driven from Kern County, Califor nia to Willows, Nevada. And yet we find some
farmers leaving the healthy climate of Canada for farmers leaving the healthy climate of
the malarial regions of the South-west. The largest orchard in the world is probably that
of Robert Mc Kinstry of Hudpon, N. Y., Which
No Contains more than 24,000 apple trees, 1,700 pear
trees, 4,100 cherries, 5,000 peaches, 200 plums, 200 crabs, 1,500 vines, $, 6,000$ currants and 500 chestnuts crabs, 1,500 vines,, ,ast year was 30,000 barrels.
, /Rairy.

## Ensilage.

Ensilage is a term used to signify a new mode o preserving various kinds of green, and especially tect it from the influence of the air. The most approved mode of doing this is to dig a deep, nar row and comparatively long trench in the earth in some location where it will not be affected by water, and to wall up the sides with brick or stone. This form is preferred for convenience in filling and removing, and also in covering, the length being determined by the quantity of fod der to be presel may be, is pulped or cill into the trench, a silo, as it ing, and is then flesed down and covered with earth deep enough to guard against atmospheric influences, the fodder of course being protected from direct contact with the overlying earth by some intervening covering. In this way it is cus tomary to some extent in France, Germany and Holland to preserve for winter use green fodder corn, green clover, lucerne, beet and turnip tops, cabbage, and the pulped roots of beets, mangels, turnips and the like.
A good deal has been said of late by agricultural writers in favor of introducing the practice into this country as an aid to winter dairying, but, withont any experience in the matter, for certain theoretical reacon mee the high anticipations will not be likely to meet the high anticipations
of some of its advocates.
There is nothing in the way of success on the score of preservation. The testimony in favor of its not spoiling unquestionable, if properly managed. But the is unquestionable, not remain in the same condition in which it is buri id. Fermentation, it is stated, sets in and runs for about two months. During this process the character and composition of the food becomes materially altered.
First, it loses a part of its water. This is no detriment, and perhaps an advantage, as the food which is accustomed to be preserved contains an excess of moisture, an objectionable feature in food at any time, but more especially so in food for cold winter weather.
The carbohydrates-the heat and fat producing elements--become changed, losing something of their value and forming new products such as carbonic acid gas, new fatty acids, alcohol and am-
monia.
Notwithstanding the large amount of souring produced by the long continued fermentation, the food is said not to be sour, but, on the contrary, alkaline, on account of than enough to neutralize all the acidity produced. This being so, it argues greater loss of flesh-forming matter than of sugar and other fat-producing substances, since the ammonia must come from the flesh-forming matter. But a loss of a part of the nutrient and fattening material does not of necessity docide the comparative merit of saving fodder by the new process, because it is possible there may still be left in it as much, or even more, digestible and consequently available food thonare to been had the green herbage been preserved in the the usual extent, and then ordinary way. It is a well-kr.own defect in much, may say most, on in it may be good enough, it fails to give satisfactory results because it is in a comparatively indigestible condition from becom ing too ripe.

Food in its natural state, that is, with its infesustaining properties unchanged in quality, is the most conducive to health and to the best milk and the finest butter and cheese. When we deviate from this, as we do when food is fermented, we depress its ability to produce the finest effects. Not that cattle food is always in its best condition when used just as nature produces it. Immature tially or wholly dried than when grazed from the fald, erwally if the growth is very vigorous and ank. There is no this case. The difference is that a part of the excessive water and some of the objectionable flavor pass off in drying and even in wilting, improving thereby the flavor of the milk made from it. The ame is true in the use of green lucerne and other green plants of the clover family, and very green ard succulent fodder corn and some other kinds herbage when fed in a fresh and green stage.
With the same green food the chances for fine quality are better when it is fed dry and other wise in a natural condition, than when it is fed
undried and fermented. undried and fermented.
The great defect in our winter food for the dair is not so mugh that it is dry, as in the fact that
is cut when it is too far matured, at a stage whe much of its value has been dissipated and when it can only be slowly and imperfectly digested. Such food makes it an up-hill business for cows to sustain themselves in our long cold winters, to say nothing about giving a large yield of superior milk. When dairymen will adopt the practice of cut ting the winter food for their dairies early while it is in its best condition, instead of leaving it to ripen till it loses in value and digestibility because it will dry quicker, there will be little occasion for ensilage to improve the quality or increase the quantity of mik. For this purpose dried grass and other dried food, with such green roots as can be easily prowa, the sam morial mented in silos. Whatever the reantt may prove when fully tested, it will be the part of wisdom to move cantiously in its adoption.

Drink for Dairy Cows.
A writer in the Southern Farmer says that his cow gives all the milk that is wanted in a family of eight, and that from it, after taking all that is were made this year. This is in part his treat-
wiser 260 pound of butter ment of the cow :
"If you desire to get a large yield of rich milk give your cows every day water slightly warm and the rate of one-quarter to two gallons of water. You will find, if you have not tried this daily practice, that your cow will give twenty-five per
cent. more milk immediately under the effects of itan. more she will become so attached to the thectet of
it, and
to refuse to drink clear water nnless very thirsty. to refuse to drink clear water nnless very thirsty.
But this mess she will drink almost any time and But this mess she will drink almost any time and.
ask for more. The amount of this drink necesask for more. The amount of this drink neces-
sary is an ordinary water-pail full at a time, morning, noon and night."
Winter Feeding of Dairy Stock.-The Agriregard to dairy farming it is tolerably evident that farmers in general are not half particular
enough as regards the quality of the food which enough as regards the quality of the food which
their animals eat. Grass is grass; and hay, hay with the majority of feeders, whereas a chemical
analysis would often show a difference of analysis would often show a difference of some-
thing like 50 per cent. in such products thing like 50 per cent. in such products going
under the same name. The good policy then of adding to poor grass and poor hay some richer
adjunct so as to bring the nutritive quality of the dietary up to a high standard, ought never to be
overlooked. When the milk is sky blue in colour, and raises only a thin head of cream, the proba-
bility is that the bility is that the feeding of the cow requiries to
be improved, and the bestowal of a little corn be improved, and the bestowal of a little corn
meal, or bran, under sch circumstances, would be
likely to prove highly remunerative in results.

## Feeding for Milk.

Prof. Dale, of Norwich University, Yt., gave result of an experiment in feeding milch cows, o the Vermont Chronicle, going to prove the
pecial value of corn meal and bran in the produc. pecial value of corn meal and bran in the produc-
tion of milk. We condense his report somewhat s follows :-
I had three cows, which I was feeding for the double purpose of getting milk, and at the same
ime fattening for beef. They were all farrow, ne of them had been so for two years. They beonged to the common breed, and where what ar hey did not give enough to pay for the hay they te. My object in experimenting was to find out as near as possible, the most profitable feed.
continued the trial for four weeks with the follow ing result.
The feed the first week was 8 lbs. of "shorts," half a bushet of sugar beets, and 10 los. of hay per day to each cow norning, 4 lbs. at a time. The beets were given
$t$ noon. They were fed all the hay they would eat up clean, three times a day. Thus, the first week I fed the three cows 210 lbs. of hay, 168 lbs.
f shorts, and $10 \frac{1}{2}$ bushels of beets. The hay was of shorts, and $10 \frac{1}{2}$ bushels of beets. The hay was
of poor quality. I estimate the cost as follows 168 lbs. of shorts at $\$ 25$ per ton, $\$ 2.10 ; 210 \mathrm{lbs}$. of hay at $\$ 12$ per ton, $\$ 1.26 ; 10 \frac{1}{2}$ bushels of beets at
15 cts. per bushel, $\$ 1.57$. Total, $\$ 4.03$. We got and
379 lbs . of milk, making $16 \frac{1}{2}$ labs. of butter, taking
23 23 lbs. of milk to make 1 lbb. of butter. The buter was of the best quality, and at 30 cts. a 1 lb
would bring $\$ 4.95$. There was in addition the would bring \$4.95. There was in addition the
skimmed milk, and a steady gain of the cows in flesh.
In the second week the feed was the same as the first, with this exception-instead of feeding
8 lbs. of shorts, I gave them 8 lbs. of feed, composed half each of corn meal and shorts. This week I got 364 lbs. of milk and $18 \frac{1}{2}$ lbs. of butter, or feed this week, calling corn as I did $\$ 2$ pe hundred, was $\$ 5.65$. The butter was worth, at 30 cts a lb., \$5.55.
The third week the feed was the same as the first, with the exception of feeding bran instead
of shorts. Amount of milk this week, 380 lbs ; of shorts. Amount of milk same as first week.
both butter and mile
Fourth week same as second, only using bran
instead of shorts. Milk this week 480 lbs.; butnnstead of shorts. 19 lbs. Cost of feed same as second week, $\$ 4.65$; butter worth $\$ 5.70$.
I have not tried corn meal alone as grain feed, but from former experience am convinced that it is
not as valuable for milk as either bran and corn not as valuable for marts.
meal mixed in equal par
I have no doubt from the above results and my I have no doubt from the above results and my
observations since that no better feed can be given cows than corn meal and bran their keeping in milk, but have steadily gained in flesh, and are
now fair beef. Had I only fed common hay, such now fair beef. Had I only fed common hay, such
as I had, they would not have paid their keeping. as I had, they would not have paid their keepind Per, and cold water added, making a pailful at a time per cow. The butter made was very nice,
far better than it would have been with only hay far better than it would have been with only hay tor shodrts. in value, and to mix with corn it is bet-
to
ter. With bran at $\$ 25$ per ton, and corn at $\$ 40$, ter. With bran at $\$ 25$ per ton, and corn at $\$ 40$,
I would use as much cord as bran, and feed them mixed. I have said little about the roots fed, my object being to determine the best kind of grain or feed to buy. But so well satistied am I with
the result of feeding roots that I would not on any the result of feeding roots that I would not on any find it to his advantage to raise from 75 to 100

Want of Sunshine.- Some idea of the clouded atmosphere of England during the late summer
may be had from the observation of the speaker of the House of Commons. At his harvest home he said :-It is a very remarkable fact that angst,
sun during the months of June, July and Augut sun during the months of June, July and August,
has been veiled by clouds for no less than 1000 has been veiled
out of the 1400 hours it has been above the
horizon. No wonder that the harvest has been horizon
late.
It is said that a company of Germans have
offered to come to Baltimore and set up a large ofrered to come to Baltimore and set up a large
suagr factory, provided the farmers will plant
2,000 acres, at least, with German beetroot. They 2,000 acres, at least, with German beetroot. They guarantee to take the whole produce at the rate of
$\$ 5$ per ton. It is considered that good land ought to produce 30 tons of beets per acre.

## Cuanden aud (0xchand.

## Seasonable Hints-November.

${ }^{\text {by hortus. }}$
OUT-DOORS
The remarkable weather of the past month has been favorable for all out-door work, and no one can have any excuse in not being well prepared for the winter season. It is to be hoped that advantage was taken of it to do everything that will faciitate the spring work. There is still plenty way of planting, manuring, trenching and malch way of planting, manuring, trenching and mulch
ing. A walk through most gardens would reveal a very untidy state of affairs, as after the vegetables are gathered everything is left topsy-turvy to take care of itself till the renovating spring comes round. Now, it is but right to do a little "house-cleaning" in the garden, as it were, and commence by rakirg up all the leaves, tomato and potato vines, and weeds-piling all in a heap and burning, if no other use can be made of them Pick up all stakes that have been used for training up plants, and tie in neat bundles for use next season. Save all the leaves and corn-stalks to use for mulching your strawberry beds or flower bor ders. If your rhubarb patch has been a long time planted, set out a new bed by digging up the or liberal coat of manure to asparagus. Amongst the currants and gooseberries remove old bearing wood and shorten back new growth. Throw up the soil by spade or plow, leaving it in the rough for the frost to make it mellow and friable. Stiff soils may be advantageously treated in this way. Planting may be done till the ground freezes. Many persons decry fall planting, but the experience of a life-long cultivator of fruit in our country is in favor of fall planting. The principal cause of failures in fall planting is that the trees have been dug too soon in the nursery, before their growth was completed, but le ther to their wood well, and for fruit or ornament than from the 20th of October till the ground freezes, generally about the 20th of November.
Graps vines require pruning and laying down. Graps vines require pruning and laying down.
Grape borders should be renewed by the addition Grape borders should be renewed by the addition house refuse you can get to feed your vines.
Hedges, both evergreen and deciduous, should have a final clipping. If done now it will strengthen the growth in spring. Remove any long grass or weeds from the hedge bottoms to prevent mice from harboring therein. Where mice are found to be very destructive a good plan is to set up decoys for them by putting a sheaf of oats or som will furnish your trees. A the boys and dogs and get rid of the vermin.
Praning may be gone on with during fine days; so much time saved in spring. Apple trees should have the loose bark scraped off; thousands of in sects in the chrysalis state will be destroyed by this work. Prepare for the Curculio amongst th plums by top-dressing heavily with ashes
in-doors.
All plants in the house will rise a hundred per cent. in interest since the frost came and destroyed the favorites of the garden. The scarlet Salvia seems to have deepened its color, while the sturdy Geranium grows and blooms as if in defiance of "Jack Frost." The abundance of flowers now grown in greenhouses, and the ease wi excuse to

is first required towards having healthy plants indoors is to keep a moist atmosphere and an even temperature. In the early part of the season, beginning now, it is not desirable to foree much growth on the plants; keep them as dormant as possible. Have them in clean pots, with fresh soil; keep the foliage free from dust and water paringly. Under this treatment they will gain igor, and when the days begin to lengthen yo Pls wil commence growg to Plants require all the show the and days of early winter. Roses are mes are difficult to manage unless they receive proper care at the outset-and that is to eep them quiet, not forcing the growth till they re found to have plenty of working roots. Another thing is to use the knie and cut hard back all the old wood, cansing an entirely new growth, which will have strong vigorous foliage, and give fine flowers.
Greenhouses, now that there is room to work in hem, should be thoroughly cleaned and receive a oat of paint-this they require every year. The be cleaned of the vegetable growth which arises from the secretions and drippings from the roof old plants covered with scale and mealy bug should be cut back and the foliage washed. Plants like Camellias, and other broad-leaved evergreens, require washing. A hateful sight in greenhouses is the presence of the mealy bug, a disgusting insect which infests soft-wooded plants, and once introduced it is extremely difficult to remove. persons receiving new plants should be careful to examine them and see that they are free from insects. An effective rentay frestly with mong flowers is to syringe them with about a half coal oil and wate. Collons of water, stirring it with the syringe till it becomes like soap suds, and the syr
Fruit requires frequent examinations in cellars. Apples becams so ripe from the long hot fall that
they will not winter well, and require decaying they will not winter well, and require decaying
specimens promptly removed. Cellars and rootspecimens promptly removed. Cellars and root
houses should be made frost-proof at once, and prepared for winter.

## Black Knot on Plum Trees.

 This disease is well known to be contagious. Itin not caused by insects, but is found to be the work of a fungus, which is propagated by spores of seeds,
ond spreads in the young wood by its thread-like and spreads in the young wood by its thread-like
roots. These cause warty excresences several roots. long on the sides of the branches, and are greenish and soft during the early part of summer
which attracts the curculio to deposit its eggs there which attracts the curculio to depositits eggs there
in, especially when the stone fruit is scarce in, especially when the
Other larve have also at times been found in these
green knots and this gave rise to the opinion heregreen knots, and this gave rise to the opinion here
tofore held that insects were the cause of the mis tofore held that insects were the cause of the mis-
chief. It is found, howerer, that the disease chief. It is found, howerer, that the bark, where ins can have no access. The spores of the fungus are said to
ripen on the diseased trees during winter. Should ripen on the dos be observed at any time, even in the
the black knot bearing season, the knife should be at once applied
A Word for tie Pear. - There is another advantage in growing the pear. It usually throws
its roots deep down into the earth, and does not its roots deep down into the earth, and docs not
seem to eat out the surface soil for a long way seem
around as the apple does. After an apple-orchard
and comes fully into bearing we must give up the
round wholly to it ; but we can crop up almost to round wholly to it; but we can crop tre ary nearly as trunk of angables there as in any other part of
the garden ground. This is of course in allusion the garden ground. This is of course in allusion
to old standard pear-trees where the branches have been trimmed up to a good height, as howgrown if shaded by branches. The main point is
that the cannot be that the roots of the pear.tree do not rob the [Germantown Telegraph.

The Blossom Buds of Peach Trees. The interest of our country in fruit growing is every year increasing. There are more trees planted,' more coming into bearing and there is an limited to apples, plums and small fruits. No inconsiderable amount is received in our market for Canadian grown pears and peaches, and the grow. ing of them is receiving increased attention. The Massachusetts Moug ands observers know that a peach blossom in its proper state will endure a degree of cold which will nearly congeal the mercury in the thermometer, and that a frost will not injure the blossoms until they are fully expanded, and the fruit has begun to set.
The killing of the peach blossoms he attributes to the expanding of the fruit buds and the gum that holds the outer covering to the bud melting and leaving the buds exposed, the result of warm weather following cold weather about the last of October.
The remedy proposed is as follows :
How shall we avoid this destructive action? shall we go back and adopt the methods of by-gone dayse ?
But few are willing to do this; we are not willing to wait for a slow growth of wood, nor are we satisfied with medium sized fruit; the masses go for
high pressure and two forty speed; ;o our peach high pressure and two forty speed; so our peach
trees must be kept in a high state of cultivation, trees must the risk of losing the entire crop. Being even at the not to go back, but to press. onward, we must set our wits at work to overcome the diffl
culty. If the trouble is in the swelling of the buds in the autumn, then anything we can do to stop it
will be a step in the right direction ; to do this it will be a step in the right direction; to do this it
seems to be necessary to keep the ground cool, so seens to be necessar
that no sap will ascend from the roots of the troe.
This can be accomplished by mulching the lsnd This can be accomplished by mulching the land
with a liberal quantity of any cooling material, like with a liberal quantity of any cooling material, like
wood shavings, hay, leaves or brush. One of the beet peach orchards we ever saw was mulched six inches
in depth with white pine boughs ; oedar, hemiock or even spruce brush, we presume would be equally
good. Leaves make a very cool mulching, but it good. Leaves make a very cool mulching, bal or in quantities sufficient to mulch an orchar away they size, and to keep them from blowing away they
must be covered with some other material. We have found wood shavings an excellent mater, ial and cool enough to prevent the buds swelling in
the autumn. In the most of localities evergreen the ants are the most abundant material and can be obtained the cheapest of any of the above named. When we fully understand the wants of the peach
tree, there is but little doubt but that out of abuntree, there is but itthe dar land affords we shall be able to supply them, and instead of sending sonth or such large quantities of peaches we shall raise considerable portion of what we consume, and by
o doing keep our money at home, and furnish so doing koep our money at home
work for our increasing poputation.

Growing Chinese Primroses. in the cultivation of the Primula-Chinese Primrose - the Gardeners' Chronicle gives the compost used by a most successful English grower as follows: The soil is made up of well-decayed anf sweetened lear-mould, two parts; rich ibry of coarse sand added, to keep the whole free and porous. Later on, when the plants are blooming pots, a to fine mould, is added, and a
manure, reduced
slight sprinkling of guano is found to be very benefical to the plants. A thorough sweetening of
be
the soil is considered of the first importance, and scarcely less important is good drainage, for the
primula is very impatient of anything like a sodscarcely is
primula is
dened soil.
The greatest care should be taken to prevent
. ${ }^{\text {rning } u n d e r ~ t h e ~ g l a s s . ~ T h e ~ p l a n t s ~ s h o u l d ~ b e ~}$ burning ander the pots from time to time, as they
shifted into larger pot
fill them with roots, being finally put into six inch fill them with roots, being finally put into six inch
pots for blooming. It is essential that the plants pots for blooming. It is essential that of prowth.
don not receive any check in any sage of grow
Hence it is best to buy of the green-house man Hence it is best to buy of the green-house man
plants nearly ready for bloom. unless the amatears plants nearly ready for have good conveniences for forcing them.

## Our First Snow Storm.

On the 23rd of October we had in this section a heavy fall of damp snow, the flakes being very large. The leaves were yet green. The snow was just damp enough to remain where it fell, and every leaf was soon covered. The snow continued falling, varying in depth from a few inches to fourteen inches in different localities. The snow in this manner accumulated in heavs masses on the trees, as there was no wind to move them nor frost to dry the snow. The result has been that there are more limbs broken from trees and more trees years. About that length of time past 12 on lived on our farm, we had a beautiful young

orchard, some of the trees of which were so badly damaged by a similar snow storm that we thought they would be of no further use. The trees were, as many of them were at the time of the recent storm, covered with foliage and laden with fruit. One of our finest trees was split nearly in two; one-half of the tree was nearly broken off and lying on the ground, We did not like tor half was left standing. We did not like to destroy it, as it was a full bearing at that time. We cut off the broden half and trimmed back the other limb a little; the following season the tree put ont buds on the side that was damaged. We never saw such a rampant growth of wood as that tree made on the damaged side, and it continued to force wood to replace the damage done. Now it has become a respectable

looking tree agains the great wide split that was made is now only a small flaw in the side of the ree. There are many thousands of apple trees But where trees are young, with a little judicious trimming back of limbs that are left to allow a ree to balance its head, many apparently ruined trees may be restored; if the trees are old and badly broken past'recuperation, it will be best to re-plant, but if young the roots that are now in the ground will force a tremendous growth of young wood. This young wood should not be cut wore dense than is required. It prevents the more dense than is required. It prevents the gradually remove the wood that is not wanted. No one would believe that such an amount of
damage could be done unless they could see it
with their own eyes. In one orchard near this city half the trees are very badly injured, and many are totally destroyed. We have had a few illustrations made to show the forms of trees that are most suitable to resist the heavy weight of a crop of apples or a heavy show fall, for what has happened will most probably be repeated, and as now taught with profit to all.
Cut No. 1 represents a fine tree that was growing on the O'Brien estate. We omit the foliage and show the wreck when split into three pieces and totally destroyed.
Cut No. 2 shows a half tree that in an extreme
case might be made to retain its wood for bearing. case night be made to retain its wood for bearing.


If young it would be better to cut the limb off, but in the case of a mere crack or split in the stem of a tree the plan of putting an iron bolt through the tree and supporting it may be practised with much benefit.
Fig. 3 represents a tree saved. We have seen some trees that most assuredly must have been broken down with their own fruit without the many a heavy load and many a storm. You can easily judge, if you have a mechanical eye, trees that this system would serve, and by the small expense of an iron rod and nut you could strengthen some of yours. It only requires an augur hote bored through the two limbs, and tightening the nut. We have seen no evil effect to the trees where this plan has been adopted. Fig. 4 shows the plan carried out which we sug ested in a previous issue.
Fig. 5 represents a limb that has been made to

support another. This plan may also be adopted, Bore a hole through the limb of a young tree and bend a twig through it. They will grow together, and give great strength to the tree.
Fig. 6 shows the proper form of branches. This can be obtained only by a judicious pruning back many are ans th should always be done. Too op of a young tre above illustrations the bad effects of having badly shaped tops as well as the forms you should try to obtain. If you have trees that you are afraid of being destroyed it is far better to cut them
back or brace them properly than to let them be destroyed. When you remove the limbs that are broken, smooth the part off with a chisel, and smear the wound with grafting wax.

## Garden Cultivation.

As to this matter, we farmers are very negligent. An alre of good soil well cultivated will supply a
small family with all the vegetables and most of the fruit which it ordinarily consumes during the year, while two acres will do the same for quite a
large family. Autumn is the best time to pripare large family. Autumn is the best time to prepare
the garden for spring planting, which if properly the garden for spring planting, which if properly
done greatly lessens the labor in the spring, and
enables the gardener often to get enables the gardener often to get his vregetables
from one to two weeks earlier than if this previous from one to two weeks earlier than if this previous
preparation had not been made. My method is to
first turn each first turn each furrow six to twelve inches deep,

## (4)

according to the nature of the soil, taking care to throw up only the richer part of it, and as fast as
this is done follow with a subsoil plow (of which Miner's patent is the easiest draft and very best yet made for this purpose), stirring and finely great of doing. Thus the fertile soil is kept on the surface from the rapid growth of the crops early in the season, the roots of which, if required, will season. seek the poorer lower soil later in the When the ploughing is finished $I$ do not harrow, soil as spead coarse fresh stable manure over the during the winter, and rots by spring sufticiarm well to be ploughed in. Many contend that by washed out the manure in autumn all its salts are

the time comes round for planting, and are thus lost. I do not think so, for I have had heaps of white sand, lying there for six months, and after removing it I dug into the sand and found it only ches only the slightest discoloring of the surface be Ithink no wastage of the salts of the manure: but even if there was a little of this during benefit of covering the soil and prevent to the being injured by the sun and winds. The surface washing away by from the ploughing, prevents any be the case on a smooth surface manure, as might
zenultry.

## Langshans.

Many of our readers are interested in poultry and are anxious to hear of any improvement in the breed or management, and of the merits of different kinds of poultry. We now introduce to your notice a class of fowls that are not often seen at our general exhibitions. We know not it any are yet introduced into Canada. We quote the following description from the catalogue o Messrs. Benson, Maule \& Co., of Philadelpha, from whom varieties of farm stock for sale:
They are more like the Black Cochins than any other breed with which we are familiar, but
reality they differ very essentially from them.
The Langhan is the latest acquisition to our poultry yards from Asia, and judging from our ex. certainly augurs well for their future in this councertainly augurs weti for their future in this coun-
try. They are natives of Northern China, and conseqnently accustom-
ed to its rugged climate They were first intro-
duced into England in 1872, and have already been remarkably well
received in other parts received in other parts
of Europe. In England, of Europe. In England,
Scotland and France
gold and silver medals gold and silver medals
have been awarded have been awarded their value has been
favorably commented favorably commented
upon.
They have straight red combs, somewhat larger than those of the
Cochins. Their breast is full, broad and round, and carried well forward, being well meat-
ed, similar to the Dorkings. Their body is round and deep, like the sal color of the plumage is a rich metallic black. The tail is long, full
feathered, and of the same color as the body. same color af the collegs
The ocor of thek, leish-black, with is a bluish-black, with
a purplish tint between a purplish tint between
the toes. The average
weight of a cockerel at weight of a cockerel at seven or eight months,
when fatted, is about ten pounds; and a pullet about eight pounds. and stately.

The good
The good qualities
They are hardy, with.
standing readily even
the severest weather. They attain maturity quite as early as any of the large breeds. They lay large
rich eggs all the year around, and are not invete-rate setters. Being of large size, with white flesh and skin, they make an excellent table fowl more especially so on account of
flavor which the flesh possesses.

The common dunghill fowl can be improved very
greatly in value if crossed with some of the improved breeds.
The best as well as the easiest remedy for get-
ing rid of vermin on fowls, and keeping them lean afterward, is first to clean and whitewash the roosts, adding a liberal supply of salt to the wash.
The American Cultivator says: Never before f wheat planted. The area in Illinois and Indithan that of any previous scason.
the langshan fowl. (new variety.)
wheel-barrows, and perhaps on the horses' backs, is just as good as anything else you can give them.
If that is the best you can do, you had better give up keeping birds for proft, for it will cost you
more for repairs in the spring upon your damag more or repairs in the spring upon your
property than they are worth. When our farmer
will provide proper places to wrill provide proper places to keep their fowl
through the winter, and feed properly, they wil through the winter, and feed properly, they wil
get for their pains a well-filled egg basket and get for their pains a well- whed egg basket and
clean, fat fowls for market which will command good prices and pay better for the amount of
money invested than any product of the farm. Be money invested than any product of the arm.
careful to keep your poultry quarters dry. Dampcareut to doep yore to bring on disease and death among poultry than any other thing,
when they are confined in close runs.

It does not follow, because buildings should be well ventilated, that open spaces between the
boards are beneficial. Buildings should be made tight, with ventilators of proportionate size at the tigh
top.

Standard Requisites for Ponltry. There are certain things absolutely necessary for
the thrift, comfort and convenience of fowl stock the thrift, comfort and convenience of fowl stoc which must be These requisites, in general terms, are a suf ficient quantity of lime amongst their food, to assist in egg-shell making; plenty of gravel, w ine
helps to digest their hard, dry grain food ; due allowance of animal substance, such as inseets, meat, scraps, \&c.; a moderate supply of shells,
pounded bones, \&c., and a full modicum of green poundeo boness, \&c., and a full
feed constantly the year round.
All these are necessities. And in some shape or other these must be furnished the fowls or they
will not grow well. If the flocks are permitted to win at large the birds will gather a good share of
run
these supplies abroad, especially in the summer these supplies abroad, especially in the summer
seaso It they are confined within fenced runs, season. If they are confined within fenced rans,
all these provisions must be accorded them artiall these provisions must be accorded them arti-
ficially, or they suffer.-American Poultry Yard.

Fattening Poultry for Market.

## No fowl ave two rear old thould be topt in

 the poultry yard, except for some special reason.An extra good mother or a finely feathered bird An extra good mother or a finely feathered bird
that is desirable as a breeder may be preserved until ten years old with advantage, or at least so - ong as sheiis serviceable.
Bnt ordinary hens and
ond Bat ordinary hens and
cocks should be fatten-
ed at the end of the ed at the ond of the
second year for market. second year for market. may be begun now.
When there is a room or shed that can be
closed, the fowls may be confined there. The
flor should be covered oor should be coverered
with two or three inches of fine sawwinast diry
dirth, sifted coal ashes, earth, sifted coal ashes, should be given four
times a day and olean water be always before
he fowlo. A dozen or more fowls may be put at once in this apart-
ment, so that there may not be too many ready osell at one time. The
est food for rapid fatening, for producing
well flavored flemh and ich fat, is buckwheat neal mixed with sweet thick mush. A teas. oonful of salt should e stirred in the food
or a dozen fowls. Two weeks feeding is suffi-
cient to fatten the fowls, hen they should be delay, and another lot put up for feeding. 1 and cool, as it should all the fowls will fatten American Agriculturist.

Wheat girowing in Nova Scotia.-The farm rrs of the Maritime Provinces are successful wheat their own flour. The Herald (Sydney, C. B.) says: The farmers of the County of Yarmonth are turnonger bread-producing grains-and on the whole with an encouraging degree of success. The yield has been excellent, both in quantity and quaility, the season has been propitious for harvesting, and

An Ivy, if kept in the house, will not flourish unless the leaves are occasionally washed. $\begin{gathered}\text { Each } \\ \text { plant leaf is full of pores or breathing tubes, }\end{gathered}$ plant leaf is full of pores or breathing tubes,
which are closed if the plant is full of dust-thus which are vigorous growth. Fifth-avenue mansions
injuring often almost covered with Wisteria, which are often almost covered with Wisteria, which
grows to a great height, and very rapidly, living grows to a great height, and very rapialy, ${ }^{\text {Red }}$, brick walls at beat a re
out winter.
unsightly, and the timely outlay of a trifle might unsightly, and the timely outlay of a trifle might,
in most cases, make them exceedingly attractive.

## Stack.

## Stock in Winter.

So far as stock is concerned, winter should be
made a continuation of summer as much as can be. This should be the aim in all cases, and persisted in so as to avoid a break in the well doing of the
stock. To the extent that the animals suffer either. from the weather or a lack of good food, there will be loss. Young stock will be retarded in growth, and the lack can never be supplied,
as growth is confined to a certain time and never as growth is confined hee a certain time and never period is lost beyond recovery. Among many of
our farmers do we find young stock but little if our farmers do we find young stock but little if
any advansed in the spring from what it was in the fall-ppuny and in worre condition than when
it went into winter quarters. This continued it went into winter quarters. This continued
during the period of growth, but about half the
size will be obtained. With calves and lambs this is a great loss; with colts it is a greater still. Not only is winter a drag upon the growth, but
it takes a good part of the summer to recover it takes a good part of the summer to recover
sufficient to get well in the growing condition sumicient the get well in the growing condition
again. The effect of the cold upon stock is simply a dead loss, there is no compensation whatever.
This is brutal and reckless. But the feed prepared This is brutal and reckless. But the feed prepared ripe and bleached has but little substance, and what it has is to a large extent locked up in an
indigestible form. Then there are the filthy indigestible form. Then there are the filthy
stables, the inconvenience of obtaining water, exposure to the cold rains, especially in the fall and spring, and other inattention. Our winters are of a large proportion of the farming community, all of which can readily be remedied if only the determination is there and the persistence to carry
it out. Comfortable quarters and goad feed sums up the requirement. It only needs tender, green hay, clover and timothy or other good grasses,
and warm stables sufficiently ventilated and kept and warm stables sufficiently ventilated and kept
clean, which last can only be done by using fine clean, which last can only be done by using fine and saving the manure, particularly its better part, the fuids - [Cor. Utica Herald.

Swine Disease in the United States. The Department of Agriculture at Washington devotes a special report to the investigation of the
disease of swine. It appears from the report of the Commissioner of Agriculture, that information from one-half of the countries of the United States, gives total value of farm animals lost,
principally by infectious and contagious diseases, principally by infectious and contagious diseases,
as upwards of sixteen millions of dollars, ten millions of which lay amoung the swine alone. "About two-thirds of the work is devoted to the made to discover whether the disease was contagious, also proved that it was, and that there is no safety for healthy swine which come into the
neighborhood of those that are diseased. It was niso shown that sheep, rabbits, rats and mice may also take the plague, and that it can be transfrom rats and mice in particular is serious, as they always infest the pens, eat out of the same trough with the pigs, go from one pen to another, and are
often devoured by the swine. often devoured by the swine.
All of the authorities are a
lessness of attempting to cure animals attacked by the swine-plague. It is true that they
frequently recover and live, but they are always frequently recover and live, but they are always
subject to a recurrence of the disease, and never again become heallhy animals. The method advocated for stamping out the disease is to kill
all animals which are attacked by it, to bury them all animals which are attacked by it, to bury them
deeply in secluded places, disenfect the premises, deeply in secluded places, disenfect the premises,
utensils and persons, keep close watch of the remainder of the herd, and as soon as any of
them show signs of the disease, kill them also.
But it will do no them show signs of the disease, kill them also.
But it will do no good for one man to follow these
directions when his neighbors will not do the directions when his neighbors will not do the
same, for his herd will still be in danger from those that surround it.
Putnam County, N.J., is excited over the
ravages of the plague-a. new phase of contagious ravages of the plague-a new phase of contagious
disease, plenro-pneumonia. At a meeting of the disease, plenro-pneumouia. At a meeting of the
citizens of the county on Friday, Mr. John G.
Bordon offered to advance ten thousand dollars towards crushing out the disease. It is supposed the disease was communicated by a drove of cattle
coming from Buffalo via Alsany. It is proposed
to quarantine the whole county.

## Cooking Food.

In an article, which we reprint beneath, from the Germantoon Telegraph, we have additional testimony to the profits from cooking food for pigs. Some doubt if there be any protit from the cooking. The students of the Agricultural College, ried out by them, and from the results they agreed that there was no profit in cooking. This must have been owing to exceptional circumstances, and can only be considered a mere theory from the overwhelming testimonies to the contrary. In a treatise on the "Economy of Cooked Food," published by E. Leonard \& Sons, of this city, they say, truly: "Probably more experiments have been made in cooking food for pigs than for any other animals. These have been uniformly successful, both in saving of materials and in the increased production of fat. Stephens, one of the highest English authorities, says in his "Book of the Farm": "It has been found by direct experiment that pigs fatten much better on cooked than raw food. It is only waste of time and materials, and also loss of flesh, to attempt to fatten pigs on better than thers in the ame state, the same sort of food cooked fattens much forer same sort of food cooked fattens much faster than in Germantown Telegraph is not mere theory. It is a carefully prepared report of facts given by a practical man :-
Several years ago I fed eight shoat pigs for several months with corn and oats, ground together and made into well-cooked mush. They then market price a rate, counting pork at the cient to make double the market price for the grain consumed. Much of this gain was due to
the cooking of the food. The following winter weighed and put into separate pens two sows, wisters, and in the same condition, having bowsth
recently weaned a litter of pigs. Number one recently weaned a litter of pigs. Number one
weighed two hundred and ninety-two pounds ; weighed two hundred and ninety-two pounds; fed number one on cooked shelled unground corn
for seventeen days; she consumed two bushels and twenty-one quarts, and gained thirty-six and twenty-one quarts, and gained thirty-six
pounds. Number two fed same length of time on unground raw shelled corn; she consumed three
bushels and thirteen quarts, and gained thirty bushels and thirteen quarts, and gained thirty
pounds. Now, as it is said it will generally pay to make pork at ten pounds to the bushel of corn, as when corn is low pork is low, and vice versa, then
a gain of five pounds of pork to the bushel (after a gain of five pounds of pork to the bushel (after
deducting the expense of cooking) is quite an item
and should induce more experiments in this line. The above experiment in caoking was with unmush gives, according to experiment, considerably more profit than whole or unground corn cooked. After satisfying myself by several experiments 1
bought a small steamer, fixed it up in brick-work and set a vessel holding some fifty gallons on each and set a vessel holding some firty gallons on each
side the steamer, from which a pipe entered each
vessel vessel; water was run into these vessels from a
fountain pump, which was readlly heated by the fountain pump, which was readily heated by the
steamer. Then I emptied in two or three bushels of ground corn and oats, or corn and bran, stirred it a little with a plunger; and after leaving it to
steam awhile it would swell up and thicken so steam awhile it would swell up and thicken so We sometimes cooked shelled corn without grinding. I followed cooking feed for my hogs, from
thirty to two hundred of them at a time for fifteen years, and considered it a great savirg of grain.
The steamer cost thirty-five dollars, and fixing The steamer cost thirty five dollars, and fixing
up not quite ten. "Subscribers would do well to procure Leonard's judgment.

Cotswold and Southdown sheep formed the pancipal exhibits at American fairs this season,
and an inceased interest is manifested in these
once neglected sheep the once neglected sheep; their profits are becoming
better known and their value on every farm is better kown and their value on every farm is
now conceded, which accounts for the great de-
mand for good sheep.

Bog-Spavin and its Treatment In reply to an Old Subscriber as to the treatment Field contains the required information': BogSpavin is of two kinds, both of which present the same outward appearance, so far as the puffy swell-
ing is concerned, but they differ in the point that in one there is inflammation, tenderness and lameness, while in the other there are none of these, and only an inconvenient blemish results.
It is necessary, therefore, to distinguish betwe these two forms. The more serious is that caused by inflammation of the hock joint; this may occur from over-work, rheumatism, sprains or bruises. There is a soft swelling of the inner, fore, upper
part of the joint, where should naturally be a hollow. Sometimes the swelling occurs upon both sides of the joint, and on pressgre upon either side the swelling is pushed through the joint, and in-
creases upon the opposite side, fluctuating back again when the pressure is removed. This is "thorough" pin. The lameness in this form of the
disease is similar to that from Bone-Spavin, and in disease is similar to that from Bone-Spavin, and in
its result it may produce the worst effects of that disease, viz., ulceration and bony deposit, with a permanently stiff joint. The less serious form of the disease is a simple swelling, which appears to
be the same as the other form in all respects, excepting that there is no lameness, heat, or tenderness. The cause is an excessive secretion of the fluid
which lubricates the joint, which prodnces the soft puffy characteristic swellings ; and this may occur from over-exertion, or a dropsical effusion from constitutional weakness.
The first treatment, in the former case, is to re-
duce the inflammation, and exert an easy pressure upon the s $s$ elling, to induce an absorption of its contents. In the latter case, the pressure, with
cold applications, are sufficient. These, in both cold applications, are sufficient. These, in both
cases, may be accomplished by using a padded cases, may be accomplished by using a padded
bandage fastened above and below the hock with straps. This may be made by any person in a few
minutes, from some strips of stout leather, a few mivets, and two buckles. The pads may be made of pieces of sponge, wrapped in wash-leather or
buck-skin or sheet-rubber. The upper strap is buckled loosely around the leg, above the hock. to prevent the bandage from slipping down, as it is
held by the side straps. The lower strap is proheld by the sida straps. The lower strap is pro-
vided with a pad, or one for each side, placed so as exert a steady pressure upon the swollen parts.
At the same time, cold water dressings are applied. or astringent time, cold water dressings are applied, of tannic acid and water, or an infusion of whiteoak bark. The lotions mayy be made more effect-
ive, as regards coldness, by the addition of ice or ive, as regards coldness, by the addition of ice or a
small quantity of salt-petre to the water. Rest is smanssary during the treatment, and unless the causes that produced the trouble are afterwards avoided, it
application.

## Increase of Steers on Pastures.

One of our subscribers wishes to know what a steer weighing pasture, during the full grazing season. Like all farm questions, there are many conditions to be taken into consideration in answering this question. tween a gravel hillside and a blue grass plain. A wet, cold season may be contrasted with a hot, dry one, the happy medium being, of course, better
than either. than either
Again, the steer himself will cnt a considerabie
figure in the point of profits. A scrub steer raised in a half or three-quarters starved condition from calf-hood will not fatten with half the ease of a
grade or full blood Shorthorn that was never algrade or full blood
lowed to lose his calf fat.
It is the selection and combination of these points
that make the successful grazer. A steer at three years of age that weighs only 750 pounds must be pasture, with an average season, would not take on three hundred pounds.
In going to market a long, way he might lose
fifty pounds of this in "drift." Shorthorn grades fifty pounds of this in "drift." Shorthorn grades
often take on tive or six hundred pounds in the same time, under favorable conditions.- [American
Dairyman.

Sheep that go into winter
ing state will demand extra winter, and produce a light feed and care during spring.

## Agriculture.

## Robbing the Soil.

That the wheat producing soil of the United States is rapidly losing its fertility is no longer a matter of doubt. Such is the testimony or American agriculturists as well as Engish states men. The American Cultivator, Westore repromean the leading article from its last issue
Only a few years ago the agriculture of the East Only a few years ago the agricuture of the Cast,
was self-supporting. We raised enough of corn, wheat, beef, and every commodity, for our own
use. Stately and comfortable farm homes were use. Stately and comfortable fare was present
found all over New England, where wn found all over New eot comfort and independence.
the largest amount
From the State of Maine cattle and wheat were the largest amount of Maine cattle and wheat were both sent to Boston market in large quantities.
What is now seen in many places in Eastern and Northern New England, where once were these large farms, but weed-overgrown fields and dilapidated farm houses and barns. Young men, com-
paratively, of the present day, can remember paratively, of the present day, can remember
when flour began to be purchased from Genesee and corn from Virginia. Then Ohio was in the
Far West. To-day, one of the leading questions Far West. To-day, one of the leading questions
among Ohio farmers is how they shall restore the among Ohio farmers is how they shall restore the
exhausted fertility of her soil. Farms in the exhausted fertinty years ago would carry twenty-
State, which twenty
five cows, are now hardly able to support half of five cows, are now hardly able to support half of
that number. What has caused the impoverish-
ment of this once rich soil? Why is not the valment of this once rich soil? Why is not the val-
ley of the Genesee to-day, as it was for years reley of the Genesee to-day, as it was for years re-
garded, the granary of the East? A depleting gard thoughtless system of land-skinning answers. and thougs of corn, wheat and tobacco, and the
The crops
cattle and horses grown in such abundance upon cattle and horses grown in such abundance up
the productive virgin soil, have robbed it of its the productive virgin soil, have robbed it
ability to longer yield remunerative crops.
The farms have been sold by the bagful and
baleful ; they have been transported by rail and ship and team, to near or distant cities, leaving barren soil that can only recuperate itself by a
long period of rest, or be accomplished by the farmer at an expense almost too great to be undertaken. And westward the system of eastern
spoilation has been transferred. The grand spoilation has been transferred. The grand
prairies are now contributing of their life-blood prairies are now by a hungry world, yet men think their fertility inexhaustible, and forgetting the
lessons of old-time farming in the East, say the lessons of the West is never to need artificial plant land, it will always produce. It will not always
foroduce the crops and the stock it is produciag to. produce the crops and the stock it is producing to
day. Let us be philosophers. Is it not reasonable day. Let us be philosophers. ss ame course which
to expect, to believe, that the saricult dependence to the East,
has brought agricultural dot has brought agricultural dependence to the East,
will alsu bring it to the West, however fertile the
West may be? There is a limit to all natural fer-tility-that limit is only measured by time. In improvident farming, especially, the tuture is sure
to reproduce the past ; for the same conditions and to reproduce the past ; for the same conditions an agencies at work to bring it about in
case, are at
case. Nature self-executes her own laws.
It would seem that we of this generation ought
to have gathered wisdom from the experiences of to have gathered wisdom from the experiences of
the past. But we have not. Had we done so the pasb.
there would have been manifest a more positive principle of economy in using the fertility of na to leave to future occupiers an unimpaired soil. But there are few evidences at the West of providence in agricultural operations. The soil is being
sent across the ocean in wheat and beef. The experiences of the Genesee, the Ohio, the Wisconsin farmers are being repeated, and in less than a
hundred years the story of devastation will have a sad meaning to all prairie farmers of America. Why not stop? Why not be philosophers? Why
not save manure! Why not husband nature's resources? Why notadopt now that well-balanced
system of cattle feeding, sheep husbandry and system of caich shall maintain our land in good
cropping win cropping which shall mantain our land in good
condition, the same time it gives a fair return
for the demands made upon it? for the demands made upon it

> Now is a favorable season for working in the
swamps. The ground is dryer than at other times, swamps. The ground is dryer than at other times,
other work is not pressing, and the interval between the present time and the winter is sufficient
to drain the muck and free it from the greater part to drain the
of its water.

Agriculture in England and AmericaA Contrast.
For many years I have argued that the whole of the United States would be more prosperous, and the farmers be able to take not cultivate so much land. I have continually written about the per manent grass lands in England, which pay a grea
deal better for lying perpetually in sod composed of all the best native varieties, and never plowed. This is no new thing, or any experiment on a smal scale, but $a$ glorious fact on such a magnificent scal
as to astonish every American who goes to England He finds that more than half the kingdom is relig. iously set apart and held sacred from the plow, and hay is made of such fine quality as to surprise me
who have been accustomed to think that old gras who have been accustomed to think that old gra that in addition to half the country being in per
manent grass, there are clover and other grass crops which come in rotation on the arable land, and also that one-sixth to one-fourth of all the plowed land
is in roots every year, all which are eaten by cattle is in roots every year, all which are eaten by cattic and sheep, it it ind barley grown.
The best land in England is in grass, such as farmers here could not resist the temptation to take wheat from. If such land could be kept from being as they are in England. The less money obtained for hay and grain the better it would pay the stockraiser to graze and grow meat, wool and mief
When a farmer has a fine tract of land, chiefl pasture and meadow, his expenditure in labour is comparatively a mere tritte, and in England this i so well unders grass is sought after and is rented readily. Let every farm with soil suitable for
pernament first-class grass be treated as English pernament is ine best districts, and I would wager that more than double the grain, corn and clover
could be grown on the half of the farm. The othe half (in grass) could be the best and cheapest soil The grass land in the Eastern States is thain.
will not pay to cultivate for corn and grain. Let any farmer who reads the papers and has
common sense views of agriculture consider that common sense views of agricultrue consider that
although Mr. Mechi, who has a wonderfully good rable farm, has been telling the landlords an all and bring it into rotation with grain \&c., and conre averse to permanent grass and know little about it, yet under all trying circumstances it is still held nviolable, and instead of plowing in tip mixed seeds, to be kept always in grass. When grass is low in price it is folly to talk of plowing ap grass which is paying by supporting live stock, into grass and never plowed again, the other half would grow more grain that the whole did before, thus saving the labor of attending to the whole. gradually happen, because all the best land being in grass, the other would be at
proved.-[COuntry Gentleman.

Cultivation of Oats
A Wentworth county farmer speaks as follows respecting the cultat grain by the recent tariff the armers of this county sowed large quantities o a most encouraging result, fifty bushels to the quently obtained, and in one instance ninety bushels per acre was realized. The hights
average of wheat in this county this season was
aver twenty-five bushels per acre, and when the
growing a bushel of wheat is compared with that of the same quantity of oats, it will be found
that the oat crop will pay the farmer nearly of the growing of oats. Its straw when properly armers have gone so largely into stock raising that The oat crop is a pleasant one to handle. It easy to bind and store, and is threshed for tw.

The Geological Survey has made important dis coveries of coal a
West Territories.

## Draining Low Land

A convenient method is to dig out a broad drain or 4 feet deep from the highest to the lowest part of the swamp. The muck may be thrown out up-
the bank upon one side only either in a contin. nous row or in heaps ; the latter is a better way, as it offers no obstruction to the escape of surface water into the ditch. After this ditch is finished
others may be dug from it to intersect any low others may be dug from it to intersect any low
places that are softer or wetter than others, or to cut springs, or in case there is no especial need for ny particular direction for the drains, they may and at distances of from 60 to 100 feet apart. A drain three feet deep and six feet wide will yield
more than a ton to the running yard, and 100 lods can be procured from 100 yards of ditch. The ard, or less if it is free from water and not filled with roots. A cubic yard of fresh muck free from sand weighs about 1,600 pounds, and two yards
vill weigh a ton after having been dried for two nonths, but two yards will have shrunk to thirds or one-half that bolk during the drying.
Muck may be used for bedding, for which purpose it is cool and very absorbent. The manure
thus made is fine, and may be spread with the harow. During the fermentation with the droppings
of the cattle it is decomposed, and adds an equal value, at least, to the manure. It may be used ery liberally, so as to absorb perfectly all the
liquids from the animals, and in doing this it will effect a most valuable service. After one year's onstant use of it we are enabled to speak posi-
tively as to the convenience of this substance and tively as to the convenience of this substance and
its great economy as a means of saving liquid its great
manure.
It may
It may be thrown into the yards to form a subwinter, and into manure-cellars as a disinfectant and absorbent of disagreeable odors. As the maure accumulates, 1 , may be drawr out and spread
upon the fields during the winter with advantage. In addition, it may be composed with refuse lime or wood-ashes with great advantage, in which confor meadows and pastures. The coarse fibrous por Tions and the soos and tussocks from the surface
may be thus disposed of. Fortunately, there are may be thus disposed of. Fortunately, there are
many farms which have more or less muck npon cure a supply for the digging of owner could pro
drais making th cure a su
drains f
Times.

Farmers' Clubs
The Massachusetts Ploughman is a strong advo
cate of the formation of Farmers' Clubs, and state cate of the formation of Farmers Clis The benefits of such a club may be summaril told as follows: It makes common property o The isolated farmer draws his conclusions from his own limited reading and observation. Hence the varied opinions and practices of an agricultura
community One ops his corn, another cuts it by the roots ; one does his haying in June, another never cuts a spear of grass till the seeds are prett well developed , ons mik in shallow, an another in deep pans ; one digs his potatoes
soon as the tops die, another defers the potat soon as the coop weather; one ploughs under all his manure and another places it near the surface ; one keeps his meadows perpetually in grass, and an-
other ploughs and re-stocks every few years, and so on inderinitely.
Seldorn can two farmers be found whose opinions
will agree oven on the most common topics of their will agree oven on the most common topics of their
calling. Each is apt to follow the practice of his
father, and from hhis own limited experience thinks father, and from his own limited experience thinks he is right. Now let them cone together, and
with candor state facts and compare views and with candor state facts and compare views and
practices, and their knowledge will be increased,
and their practice modified accordingly. Two and their practice modified accordingly. Two
heads are wiser than one, alway provided that one heads are wiser than one, always provide
head is willing to learn from the other.
A correspondent of the Country Gentleman says:
" iood manure requires that the animals be fed with food rich in the elements which we wish to predominate in the manure, to feed the plants
which we wish to cultivate; and when we have obtained such manure, care must be taken to make the most of it. The fertilizing quality of sunshine and winds, allowing the salts to be disits enriching ashed away. All manure preserves its enriching qualities best by being sheltere
until applied to the soil, or mixed therewith,

## Fall Wheat.

From all parts of the country we receive reports similar :-
Never in the history of this part of the country
has the fall wheat been known by even the oldest farmers to be so far advanced in growth before winter as it is this season. In some parts bunches root to the tip of an extended blade can readily
be found in fields sown in the earlier part of season. Many farmers were feeding it down, as season. Many farmers were feeding it down, as
they believe the top is too heavy to remain sound under a heavy covering of snow, and some are where changes are so sudden, it is pretty hard to tell exactly the best time to get the wheat in the ground, but, as a rule, from the tenth to the proper time. The steady warm growing weather
with which we were favored this year in October may never be repeated in the history of those who
experienced it. Although the mercury was experienced
between eighty and ninety on the 22nd, and everybody wore their summer clothes, yet before the
evening of the 24 th it fell to about forty, and evening of the 24 th it fell to about forty, an
overcoats and underclothing were in demand.

## Almira Farmers' Club.

From the report of the E. F. Club, in the Hus-
bandman, we abridge the following items :Sugar from Sorghum. - Gen. Le Duc has been in the west, where he found evidences of real progress in sugar making. Writing to the Elmira Club he says:-" Having made an inspection of
sugar-boiling among the farmers and manufac-sugar-boiling among the farmers and manufac-
turers throughout the west, I do not hesitate to say that it is a complete success. As an evidence
of this the Crystal Lake works north of Chicag of this the Crystal Lake works north of Chicago
have, this day, (Oct 23) ready for shipment a car hoad of most excellent sugar, to be placed on the market, and this will be followed by another carload this week." With the encouragement of suc-
cess now attained, it is reasonable that the next cess now attained,
year will witness extended planting of amber-cane
and sweet and sweet corn throughout a whole district.
Wood ashes as a fertilizer for potas. to the Secretary of the Club says:-For a fertilizer for potatoes you recommended wood ashes, which but there were more rotten potatoes where they were applied than where the planting was on inverted clover sod. I have found that to cover potatoes four or five inches deep with straw or
coarse manure, will give the best results. I planted three acres of cilover sod, ploughed in spring,
and a part of it being very and a part of it being very stony,
straw to savered it with result was that the potatoes were larger and more of them in the hill. Planted the potatoes in the
usual way covering about four inches deep and usual way, covering about four inches deep, and in
digging all we had to do was to pull the tops and take away the straw, and these were the potatoes clean and good.
Winter Rye,-G. A. Russ writes to the Club,
telling his experience of growing rye, and adds:telling his experience of growing rye, and adds:-
"The conclusion we arrived at was, that if the field and its conditions were promising for a good winter crop of wheat or rye, having the ground
thoroughly fitted, it would be safe to sow with oats, or other spring grain, the usual quantity of rye to the arre in addition, and the rye would not
be in the way of the spring crop sowed and the be in the way of the spring crop sowed, and the
following year we should be able to harvest a good crop of rye without further trouble. By as gowing
the rye early in the spring without other grain the rye early in the spring without other grain,
and after it got big enough so that it would do to and after it got big enough so that it would do and feed, pasture it; or sow in the fall previous and
have it live through two winters, and pasture it
one season and harvest it the nett,and have it done one season and harvest it the next, and have it done
well. I think it wonld be safe to try the last two
methods on a small scale, and the first I have no well. I think it wonld be safe to try the last two
methods on a small seale, and the first I have no
doubt about. Beet Sugar for Canada.-The following
from the Windsor, N. S., Mail: "'The State ${ }_{\text {maine S Sugar Beet Refinery has offered to invest }}$ capital to the amount of $\$ 400,000$ in erecting a
refinery in Nova'Scotia, provided that the counties refinery in NovarScotia, provided that the counties
of Annapolis, Kings, Hants and Colchester will guarantee each to put under cult
of land for raising sugar beets.
The Rat River Mennonites have raised $150,(000)$
bushels of grain this year.

## Texas and English Farmers.

 From an American paper we extract the following pithy article. Will those so-called Canadianswhose great delight it is to malign this Canada of ours, take notice of this revealing of secrets ? An attractive advertisement appears daily in the London papers, orfering the freehold of farms of
eighty acres for sale at less total cost than \&ne year's rental of the same would be in England. "Rich land, mild climate, good markets for proare some of the additional inducements offered.
What more could an impoverished English farme want than a cheap eighty acres of rich land, in enial climate, with good and available markets
or his produce? At least so thought a number of sturdy yeomen who bought their farms and paii
their passage to New Philadelphia Texas The their passage to New Philadelphia, Texas. They
arrived here recently, and, nothing suspecting,
went on their way westward rejoicing went on their way westward rejoicing. It now
appears that they have been grossly deceived, i ot actually swindled. Theland which they wen for agricultural propposes-- dried up, barren and
unproductive. The settlers to whom they took
und etters of introduction had long since leyt the
place in disgust. Without proper irrigation most expensive operation, and entirely beyond the
means of these farmers-nothing could be done, in that part of the country is water, and it is the scarcest. In short, through the misrepresentation of the agent, they were led to expect as the ad-
vertisement implies, rich and productive lands, in-
stead of which they found a very poor grazing country.
Many Crops and a Variety of Stock.
It becomes more apparent every day that the one or two large sources, but from a number of and a variety of stock, and must learn how to times when merely to get a farm was them. The road to wealth are gone probably forever. All that
can be looked for now is that he who takes may get a fair percentage on the capital he had to commence with, if he follows the road $t$
adopted by men of all other professions.
The road to success means almost invariably an aid) is an infinite power of taking trouble ; and success means genius well applied. Cereals can only be made to pay by the greatest possible care
in choosing the varieties best adapted to the and markets, and cultivating them with a special eye to get quality. Cattle can only be made pro-
fitable by those who condescend to watch their peculiarities, to develop the valuable ones, and to all they have to part with. There must be no mere guesswork, no rule of thumb; we must learn
to recognize the best methods of breeding, feeding and marketing, even though we have to abandon
our long-established practices.-Agricul. Gazette.

Potatoes in Qukens Co., New Brinswick.-
Of the Hamstead Fair, the St. John's Telegraph Of the Hamstead Fair, the St. John's Telegraph
says:-The exhibit of potatoos could not have been iner; splendid varieties of Early Blue, Bradleys,
Marquis, Early Rose, Prolifics, Black Kidney, and thers were exhibited, and competent judges pro-
nounce that they were superp. aunce that they were superp. The potato yield
in Queens and Sunbury this year has been un-
usually large. On Senator Wilmot's farm in
What incoln, the yield is 450 bushels to the acre. John Ferris, sisq., has dug 1,500 bushels, and expects
to dig 500 more Mr. I. C. Burpee, of Chipman, planted in the spring
yielled $46 \pm$ barrels.

A farmer says : " $\begin{aligned} & \text { Four years ago my barn was } \\ & \text { fearfully infested with rats. They were so }\end{aligned}$ fearfuly infested hud great fear of my whole crop
numerous that I had
being destren being destroyed by them after it was hoosed; but
having two acres of wild peppermint that grew in having two acres of wild peppermint that grew in
a field of wheat, it drove the rats from my prem.
ises. I have not been troubled with them since, while my neighbors have any quantity of them,
I felt convinced that any person who is troubled felt convinced that any person who is troubled
with these pests could easily get red of them by
gathering a good supply gathering a good supply of mint and placing it
arnuml the walls or loase of their barns."

Top Dressing Fall Grain.
The present season has been unusually favorable
or the Fall-sown crops. The warm weather prefor the Fall-sown crops. The warm weather, pre-
ceded by copious rains, which put the ground into vod condition for the best preparation, has forquestion which may well be considered how the condition of the crops may be maintained. The soil has been drawn upon very closely by the forc-
ing of the favorable weather, and poor soils now carry a verdure which it is scarcely safe to expect
them to maintain when less favorable weather arrives, as it must soon, as a matter of course. Then the plant will need support to resist untoWard circumstances, which will not furnish to the
soil the ability to loosen still further its fertile olements for the support of the plants. Cold is
oil not tavorable for chemical action, and as soon as the unusual warmth of the season departs we may
look for a stoppage of the present vigorous growth, because the soil cannot respond, under the unravorable circumstancos, to the needs of the vigorous crop. Hence, the healthy color will disap.
pear, and the deep green will give place to sickly yellow. More especially when the plants are in-
fested with the fly, whose attacks can be borne patiently while the growth is rapid and the cells are full of sap, but which become destructive When the vigor is lessened, will the change become
apparent. To avoid all this is of the greatest artificial fertilizer will supply precisely the stim. ulant needed to preserve the crop from damage. any of the standard superphosphates any of the standard superphosphates. These fine
fertilizers will at once become available, and, if spread before any harm is done, may prevent They possess the advantage of being easily spread upon the crop without trampling over it or cutting up the surface with horses and wagons, for which
reason top-dressing with manure even were it on reason top-dressing with manure, even were it on
hand for the purpose, might do more harm than would balance the saving in the cost of the fer$\substack{\text { iilizer. } \\ \text { Top.dr }}$
ther
Top-dressing with manure is best done during
the winter, and we prefer to do it with sleds on he winter, and we prefer to do it with sleds on
the snow rather than in the fall. Unless the ma. nure is very fine, and is evenly spread, it will
cover up injuriously much of the plant. When spread in the Winter, on the contrary, it acts as a mulch and a protection while the plantis dormant, perature, with all, that these imply, occar and act destructively. Then, the covering prevents thawing and freezing in sudden changes, by which the
roots are broken and destroyed and the surface is roots are broken and destroyed and the sarface is
strewn with winter-killed plants.-N. Y. Times.

Samples of Manitoulin Produce
Mr. John Emery, township of Gordon, last spring
planted one bushel and a peck of Early Rose potataes, and has gathered puck of Early Rose pota-
W. Hall, of the East Range therefrom. potato weighing three pounds neat, but this has been eclipsed by Mr. Woods, of the West Range.
Mr. Woods' thirteen potatoes, the trought into the village
amounted to 391bs. 12oz, Mr. Weight of which to the Gore Bay Mills a quantity of barley, the like of which has never before been seen on the Mani-
toulin. The shell is black, with a very smooth skin, while the kernel is as white as thy smoth
seneral
run Tan of barley. This barley is said to be very
prolific. Mr. Woods sowed three-fourths of an clean grain as the result.
ch spring, and hat According to an experiment made with potatoes
and corn last season by Mr. S. . West, of Colum.
bia, Conn., the butt ends of potatoes, and the
terne bia, Conn., the butt ends of potatoes, and the
kernels of corn from the butt ends of the ears, each produced crops that were materially better than
where the opposite course was pursued. In the where the opposite course was pursued. In the
case of potatoes, the stalks from the butt ends were much the larger and more forward at the first hoe-
ing. The increase in the corn was some twenty per cent. in favor of the butt end kernels.

Chestavis.- Six years sgo, says the Fruit Recorder, we transplanted some seedling American
chestnuts in a nursery row, and this season they ave a number of chestnuts on them. Such a return is encouraging to those who wish to have a
a small grove of thesc handsome and favorite trecs.

## ©lut ghiary.

## Wintering Bees.

I think there is not one subject in connection with bee culture on which there has been so much Some apiarists advocate one thing and some an other, and it would be very strange indeed to find us all of one opinion. However, I think we will all agree that bees require protection agains the inclemency of the weather, consequently they are taken into bee-houses, cellars, \&c., and if everything is favorable they come through the winter all right, and are placed on their summer Now one would naturally suppose they shonld all right after passing the winter safely but that is where the trouble arises. Hundreds of beekeepers have said they could keep their bees through the winter, but they died in the spring, and they did not know what killed them. In the first place we will suppose the bees are in a box hive, or in a single-boarded frame hive, and are placed in a cellar during the winter; when spring with noy are plan from the sulden changes of the weather which is sure to take place at that season, when one day may be warm and the next cold. Now the animal heat must be kept up in the hive to sustain life and to enable the bees to carry on their labor, such as brood-rearing, \&c., to maintain the strength of the colony, and this must be done by the bees consuming a large amount of honey, and the bees being compelled to consume enough food to keep Dwindling and die off gradually until the hive wecomes so depopulated that they either swarm out, fall a prey to the bee moth or are robbed by other bees. But this is not always the case, although hundreds of swarms perish every spring in the way I have mentioned, and there seems to be no remedy for this disease after it has commenced that we have found of any benefit. The only cure for it is warm weather and new honey, and before they arrive the swarm becomes so weak that it takes nearry all summer to regain plus honey. Now if the bees are placed in a hive plus honey. Now in tonstructed that it may be packed on every side with about three or four inches of chaff or sawdust, and a chaff cushion placed on the top of the frame to absorb the dampness from the hive, the bees will not be affected in the least by sudden changes of weather, and they will therefore swarm much earlier and perform almost double the labor they would otherwise have done had they not been protected.

Hec-keepers in Council. At the opening of the ninth annual mecting of
the National Bee-keepers' Association in Chical the National Bee-keepers' Association in Chicago,
October 21, President Newman, who has lately returned from an extended visit to the apiaries of Europe, in his opening address referred to the
past disastrous winter and the present unfavorpast disastrous winter and the present unfavoris general, while with us, if we except Califormia,
there has been a fair sucess, and the better prices there has been a fair success, and the better prices
will go far to compensate for the poverty of the will go far to compensate for the poverty of the
season. Mr. N. remarked that he had found much prejudice in Europe against American honey, sent 180 tons of comb-honey and many hundred tons of extracted honey to London, much of which has been sold at great prices, Yet this is but a
drop in comparison with what will be exported ir drop in comparison with what will be exported in
the near future. Switzerland stands first in advanced apiculture in Europe, England second and
France last, but all Europe is away behind. Mr.

Newman said we must strive to make our market
more stable and uniform. more stable and uniform. Soon a great foreign
demand will solve the whole question of market. Reports from delegates showed that the honey
crop has been a failure in California, and from one ourth to two-thirds the usual amount in the remainder of the country. The best report was from
Canada. Mr. D. A. Jones, Beeton, Ont., the largest apiarist there, reported, 250 pounds, per colony,
one-third comb.
one wintered (in cellars) 500 colonies, and always with perfect succeess. Good vere, strong colonies and late breeding in autumn half of those present, as was shown by vote,
avored chaff pecking on summer stands the favored chaff-pecking on summer stands, the other
half cellar wintering; all favoring some kind of inter protection.
Mr. Frank Benton expressed the opinion that
he next advance step in Ammerican apiculture will be the introduction of Cyprian bees, which are claimed to be superior; first, in brood-rearing;
second, greater activity; third, they are more rom spring dwindling then other bees. They ane less
of the yellow type and une of the yellow type, and unexcelled in beauty. experiences of foreign apiarians whose only desire is to promote truth.
Prof. Hasbrouck; of New Jersey, reported sucueen and selected drones in a sugar barrol all coesed except a small opening in the upper head,
over which was a glass; queens were at once ferver which was a glass; queens were at once fer
tilized. Several others reported success in the same direction.
Prof. A. J. Clark reported some very interesting
experiments of practical value concerning the bee's experiments of practical value concerning the bee's
tongue. He found the length to vary from .23 to ongue. He found the length to vary from . 23 to
.27 of an inch. The longest were from Italians
rom an imported queen; next came American Irom an imported queen; next came Ameriean-
bred Italians then German bees of Europe, and shortest of all were our American black bees. The
speaker speaker demonstrated, by an ingenious deviee,
that this superior length of the Italian's tongue is a matter of considerable importance. He made a
box half an inch deep without top or botom.
This he covered with ganze which had 15 meshes this he covered with ganze which had
to the inch. He then placed a pane of glass in the box, one end of which rested on the gauze,
the other resting on the edg of the box inch
from the gauze. Honey was spread on the glass,
Hol from the gauze. Honey was spread on the glass,
and the box put in Italian hives, and also in hives
with with black bees. The black bees would clean the
glass for 19 meshes and the Italians for 24 from the edge where the glass rested on the gauze.
Thus it is proved that the Italians can reach down deeper in flowers, and often gather from sources entirely inaccessible to black bees. The speaker
regretted that he had not had opportunity to mea regretted the he of undoubted Cyprians; natural sure the tongues of undoubted sprians, natural
selection, the law that had raised the Italians so
hingh, had quite likely done even more for the Cy. high, had quite likely done even more for the Cy-
prians, through the severe competition which prians, through the severe competition which
must exist on so limited an area as the small
Island must exist on so
Island of Cyprus.
Mr. D. D. Palmer, of Illinois, told how to pre
vent swarming He would nos vent swarming. He would not stimulate in spring
by feed; would have opposite entrances to the hive to fed; would have opposite entrances to the hive
give ample ventiation; would shade the hives, and freely extract and put on honey boxes at dawn
of clover season. The first swarm, if they do of clover season. The first swarm, if they do
swarm, is generally useless to put back; second swarms should be prevented by destroying qucend
sells, and if they come out through neglect he cells, and if they come out through neglect he
would always put them back. Mr. Sherman, of would always put them back. Mr. Sherman, of
Michigan, and Mr. Dart, of Wisconsin, would put Michigan, and hr ine
the swarm in the hives which last swarmed. This satisties the bees, gives large ecolonies and prevent.
increase. Of course the cells in the hive should increase. Of course the celss in rears his gucens
be destroyed. Mr. E.J. Oatman res.
in a lamp-nursery and introduces them just at in a lamp-nursery and introduces in to move Mr. N. P. Allen said that bees, if to lie moved
only a short distance, should be drummed out and
the hived in the new then hived in the new position. To transport bees
we should first fasten the frames so they will not we should first fasten the errames so and carry in a
move, give abundant ventlation and
spring waggon. Mr. Bingham said bees can be more, gaygon. Mr. Bingham said bees can be
spring waggen any distance after brood-rearing has
safely moved safely moved any distance after brood-rearing has
ceased in the fall. Mr. Dadant moves beess at any
time, and for any distance, by simply placing a time, and for any distance, by simply placing a
board over the entrance, a short distance in front of the latter. Mr. Winslow said this would make
it safe to set bees on any stand when removing it sale to set bees on any stand when removing
them from the cellar in the spring. The bees then mark theis line and return to it, rather than to
its former position. its former position.

## Teteriuary.

## Worms iul Horses

SIr,- will you kindly give me the best treat-
ment for horses suffering from the presence of long white worms, about the size of the stem of a pipe, nd seven or eight inches long. The animals are and in low condition.
A Working Farmer.
[We give you the reply of the Agricultural Ga-
zette, England, to a somewhat similar query: The worms in quastion belong to a group of paraatios
sometimes termed round worms. They infest the sometimes termed round worms. They infest the
alimentary canal of all solipeds. In the small intestines it is frequently formed in very large num-
bers. We have counted in this gut as many bers. We have one horse. Not unfrequently the large
spenens ind
intestine and, rarely, also the stomach,
contain these parasites in small numbers. In color they are yellowish white, thick in the centre, and taperng towards each extremity. The full grown worms
neasure about seven or eight inches in length. The emale, however, sometimes exceeds twice this
length length. Having regard to the size of these orea-
tures, and also to the fact that they usually exist in
large large numbers, it is not a matter of surprise that
a hard-worked horse should, when infested with a hard-woome weak and emaciated. Practically it
them, becom
is important to is important to point out that the young or larval
form of this entozoon is usually introduced form of this entozoon is usually introduced into the
syatem through the medium of either food or water. Stagnant pools in the vicinity of stables and farm.
steads are fruitul sources of infection, and, in the steads are fruitful sources of infection, and, in the
case of an outbreak of parasitic disease, should be
scrupulously avoided. The water supply should scruprawn either from a puunp or runnping stream, and the pasture on which the diseased animals
have been and grazed for several months by shoep and oattle.
With regard to treatmeut, grass diet should be dis. continued, and a libefal amount of corn and other eased in their work and. The animals must be adopted in order to fortify the system against the debilitating influences of the parasites. Take two may be given in the morning fasting, and repeated ineight effect repeated doses of Santonine may be ressorted to, under the direction of a good veter-
inary surgeon.]

## Disinfecting Stables.

Disinfection of stables, drains, sheds, cesspools and outhouses should now be attended to, says a
writer. The value of disinfection is no longer a subject of discussion. All malignant maladies have been stayed in their ravages by a free and
constant use of the potent agents of disinfection. constant use of the potent agents of disinfection.
The walls of the stables should be whitewashed. In every livery stable there should be a bucket of
sulphate of iron every morning, dissolve in a bucket of water and every into the drain. It is cheap and effective. So is the chloride of zinc (butter of zinc); dissolve
an ounce in two gallons of water. Where there an ounce in two gallons of water. Where there
are sick animals the sheds and stables shoulo always be fumigated with sulphuf at least every
other day. If mixed with tar the gases generated other day. If mixed with tar the gases generated
are very active disinfectauts. Take flour of sol. are very active disinfectants. Take hour of sul.
phur, half a pound; wood. tar, one quart; mix
with tow, hurn at one or two spots and this will with tow; burn at one or two spots and this will
disinfect a large stable. Carbolic acid is a power disinfect a large stable. Carbolic acid is a power-
ful disinfectant and should be applied to doors, walls and troughs. It is disagreeable to flies,
Blankets should be wet with a solution of it to Blankets should be wet with a solution of it to
destroy all disease germs. Chloride of lime is an. other popular disinfectant. Disinfecting powders (preparations of carbolic acid) are sprinkled daily
throughout the stables of London and Liverpool at an annual cost of only $\$ 1$ for each horse. They
keep the Hies away and the atmosphere pure.

Horse Disease is New York State.-Withseveral horses by a disease which broke out suddenly and proved alarmingly fatal. Eleven other
horses have been attacked. Stagnant water near by is thought to be among the causes bringing on
the disease. It is thought the entire large stock of horses may be more or less affected. When precautions for their health's The losses from
stagnant water are incalculable.

CORRESPONDENCE


Notics to Corraspondsarts. - 1 . Plense write on one side of the paper only. 2. Give full name, Post-Office and Prov-
i.cee, not necessarily for publication, but as guarantee of good taith and to enable us to answer by mail when, for any reason, that course seems desirable. 3. Do not expect anonymous
communications to be noticed. 4. Mark letters "Printers communications to be noticed. 4. Mark letters "Printers
Manuscript," leave open, and postage will be only 1c. per ounce.
Nova Scotia Provincial Exhibition. Sir, -This Exhibition, which took place at Halifax from Sept. 29th to Oct. 3rd, was quite a success. It was one of the best, if not the finest,
ever held in the Province. The citizens of Haliever held in the Province. The citizens of farmers, were determined, if possible, to make it such,
having offered a larger sum for prizes-which al. ways tends to swell the number of entries and brings more competition to the front; also having
just erected a very fine exhibition building, which just erected a very fine exhibition build ang, which
gives credit to the cause it represents and to the gives credit to the cause it represents and belongs; its general appearance is very prepossessing.
The weather was about all that could be desired, fine and dry, though rather warm. The visitor fair day when mud is knee deep. The main buildair would be a crodit to many of the large Exhi bitions in Ontario. The accommodation for stock was not at all equal to that found at Western Ex.
hibitions, the horse stalls being all open, without means of enclosing in case of bad weather or at
night. This, no doubt, will be improved in time. night. This, no doubt, will be improved in time.
The display of horses was very inferior, and the judges decisions would not tend to improve mat-
ters, as they had the horses trotted out and awarded the prizes solely on speed, never leaving ness or size; beauty, endurance or utility were not considered-speed was the only quality wanted to
take a prize. This system han silled this part of the country with a lot of cheap, small scrubs of
horses. The loss to the Province from having such a class of animals must be immense, as they are not the class of horses that bring good
in the English or American markets.
The show in cattle was encouraging, they being
more in numbers and generally better for compemore in numbers and generally better for compe-
tition than for years before. The Durham herds of Messrs. Fraser, Lawson, Eaton, etc., and Ayr-,
shire herds of Messrs. Starrat, Blanchard, etc., were good, and they are striving to advance the breeds of cattle in a good direction. As usual,
Col. Lawrie's herd of Devons was the only one on Col. Lawrie's herd or Devons herd, but publie opinion
the ground; he has a goo here at present. A few is not "Devon" down here at present. A few the Herefords and Galloways were not represented, Masese latter classes not being favored in
Ine Maritime Provinces. In one particular ar re-
gards the cattle the Board deserves credita that is, gards the cattle the Board deserves credit, that is,
in getting foreign judges, two from Canada and one in getting foreign judges, two from Canada and one
from P. E. I. This, in a Province so small, where everybody knows everybody and everybody's business, is almost essential, for judges from the
home Province will not give entire satisfaction home Province will not give entire satisfaction
and almost invariably, show partiality; therefore having foreign judges, particularly for horses and cattle, is usually preferred.
The show of sheep and pigs was fair; there was,
however, considerable ronm for improvement, al however, considerable roon for improvement, al
though some very good pens of were ex-
Other though some very
Other stock on exhibition, not men-
tioned here, may be described in a similar manner. tioned here, may be described in a similar manner.
Quite a creditable display of poultry was made. In farming implements, as usual, home manufactured articles were few. The enterprising firm of Frost \& Wood, of Smith's Falls, had a fine display. In this department a pleasing.
the day's wanderings might be spent.
The fruit and vegetable department occupied a tion, a space being allotted to each connty, so that their respective
readily shown.
The carriage display was very good, and the best part of it was a patent seat for a sleigh or
cutter, got up hy Mr. Murphy, of Halifax. Its
arrangement was so simple, and yet so good, that
it proved attractive to everybody, being made to it proved attractive to everybody, being made to
slide under the ordinary seat of a cutter and not be noticed; by simply pulling out a couple of be noticed, seat coming at the same
braces, the ese
can be made for four instead of two.
can be made for forr instead of two.
The most pleasing time to pass through the main The most pleasing time to pass through the main
building was at night, it being well lighted by gas, builting was at night, it being wel the proceedings
with band of music to enliven the
until 10 oclock. Our Ontario brethren might take until 10 o'clock. Our Ontario brethren, might, fine
pattern in this particular. The ladies' work, pattern in this pared to good advantage in the even-
arts, etc., appear of
ing. Mr. Ar, of Sackville, exhibited nice leather ing. Mr. Ayr, of Sackville, exhibited nice leather
goods, imitation morocco, etc. VITATOR, Nova Scotia. $^{\text {In }}$

What are our Agricultural Exhibitions Coming to:
Sir,-The object of our Agricultural Exhibitions, as I take them, is no doubt the improvedue of ant in in the to the realization of this object, it is likely to be lost sight of in what appears to be the increasing desire to make these exhibitions mere excuses for attracting large as semblages of poprpose of "bringing grist" to the mill of the merchants, tavern and boarding-house keepers, in the towns are concerned two days held. So far as farmers are concerned, One day
are enough for all useful purposes. One day
should be devoted to the exhibition of agricultural and horticultural productions, dairy produce, and the interesting hand-work which shows the taste
and skill of our farmers' wives and daughters and skill of day should be given to the display of live stock, including ponltry and agricultural im plements andioner manuacenrediag into what I should call horse-racing, did I not fear to offend the directors who preter to call them "trials of
speed." Throwing off the fox-hounds on a drag
Tor speed. Nas done at a leading exhibition) from the exhi-
(as was
bition to enable the sportsman to show off their white cads and top boots (this may serve as a new
"wrinkle for cousin Jonathan's horns") but, alas the best laid schemes of nice and hunters " gang oft aulee." The dog must needs put in his inop portune appearance, and paad for his temerity wit
his life, as it seems they could not be whipped off his line,
until they had cruelly mangled the poor little ter-
rier. It was fortunate that no accident occurred. rier. It was fortunate that no accident occurred.
For what are called the fine arts, such as painting For what are called the fine arts, such as paintingl
and statuary, these should be reserved for special
exhibitions, when the services of competent judges exhibitions, when the services of competent judges
might be obtained. Swings and roundabouts might be obtained. Swings and roun of pleas-
should be strictly relegated to occasions of ple ure, such as pic-nics and social assemblages in the
summer season. Many of the features as now managed are mere excuses for gambling. Base
ball and lacrosse matches have no necessar ball and lacrosse matches have in hecesold
connection with agricultural exhibits, and should also be reserved for special occasions. Yet th which either they or their sons are exposed by the neglect of the municipal authorities, or director
of the exhibitions, to exclude peddlers of every discription from the exhibition
frounds, which are worse, because more insidious, grounds, Driving Park meetings, which only serve as means to attract all the rascality in the country
within a radius of fifty miles to the place, to the If I remember rightly, no liguor can be legally sol within three hundred yards of any Agricultura
Exhibition, and this law should be strictly enforced as well as preventing any unlicensed grog-sel-
lers who may make their appearance beyond the prescribed distance. As for the Board of Arts and Agriculture, I believe I am only expressing
very general opiniou when I observe that the very general opinion when out of existence, or remodelled, the better for our farmers generally,
but here I fear political interest will interpose but here I fear political interest will interpose
very formidable obstacle. I cannot agree with very formidable obstacle. Agricultural College at
your strictures on the At at
Guelph. It is but natural that the great stoc Guelph. It is but natural that the great stock
breeders should disapprove of the annual sale of breeders should disapprove of the annual sale of
stock at the College, as they tend to keep down stock athe how which these breeders would undoubtedly charge but for the competition of the
College sales. That the farmers themselves approve of it is proved by their numerous attendance prove of it is proved by their num. And as for your remark that the boys receive no better cducation
there than they ought to get at our public schools,
I may say that they do not get so good an educa-
tion in our public schools. That the farmers
hemselves approve of the college may be fairly themselves approve of the college may be fairly admission than they can accommodate, and as the preparatory examination is very properly not say
strict, many are rejected, which does much for such public schocls as they may have previously attended. The Government have hear, which, when completede, will a acoommodate 80 boys.
The last President, Mr. Johnston, whenever Thich, last President, Mr. Johnston, whenever any
boy had passed his examination, used to examine boy had passed his examination, used
his truuk, and if he found any of the vile sensational books there with which the country has for many years been flooded, they were contiscated,
and their introduction into the College forbidden under a heavy fine, and I I have no reason to suppose
that his successor, Mr. Mills, who bears a high that his successor, Mr. Mils, who bears character as an educationalist, wlll exercise less care in this respect. They are taught Botany as a
Entomology, subjects which ought to be, but as a Entomology, subjects which ought taugh in our public schools for the
rule are not, taugh
plain reason that, so far as I know, not one teacher plain reason that, so far as I know, not one teacher in a hundred is capabie of teaching
besides they have lectures on veterinary surgery, besides they have to take notes of the lectures they hear, which necessitates habits of attention; these are, as a rule, little attended to in our pubic
schools; besides I consider the co-education of the sexes in our public schocls, coupled with the unrestrained reading of in producing the prevailing has had mation so frequent amongst the rising gen eration. Besides, they have been allowed to form themselves into a Battery Company, which necesalways, practised in our public schools. I can readily admit that for some years after that College at Guelph came into existence, but that state of things has now passed away, let us hope never to return. The late President, Mr. Johnston, in his last annual report, recommended that the College
should be endowed with six townships on the line should be endowed with six townships on the
of the Canada Pacific Railway, so as to place it on a firm foundation, and lift it out of the region of politics. This project the Government refused to
entertain, and, so far, I blame them as much as you can do. True, the farmers did not ask for the College, although they seem pleased with it
how. Well, neither did the farmers ask for the Act conferring the franchise on farmers' sons, which was not really necessary, because, any armers might have his sons merely giving him an interest on is farm. But, in fact, meanse they cared for the armers, but avowedly because it was a step furher in the direction of wence events will clear the dust out of armers' eyes, and they find their votes swamped by the votes of the railway and canal labourers, he very classes wis they may have cause to curse the Act and those who passed it. It is to be re gretted that some one who can afford the expense annot be found, possessing dit erent public spirit,
to bring the Council of the Board of Arts and Agriculture into Chancery, and oblige them to giv an account of their stewardship.

Ground Bones as a Fertilizer.
"T. E.," of London Township, says: After
"The aring ground bones on a fertilizer as he knew them to be in England. For the first year after their being applied to the land the benefit is compara
tively very little. Their benefit to the succeeding crop is more marke
for this difference.
[The difference is attributable to the difference of the climate. No fertilizer in an insoluble conEngland being humid, and having at the sam time sufficient warmth, the bone dust is there quickly dissolved and feeds the growing plant, has a tendency to preserve the fertilizer as applied
in an insoluble state. The consequence is that for the first year after its application the beneit by the fall and spring rains it becomes available by the fall and spring rains it becomes avaliabing
as plant food. ground bone avaliable when applied is to add it to
farm yard manure as a compost. The heat and farm yard manure as a compost. The heat
moisture from the fermentation will render it moisture from the fermentation will render
soluble, and the compost will be au excellent fer tilizer, both stimulating and nourishing.]

## Legislation Needed.

SIR.-As you have invited us to show up abuses,
allow me to call attention to an extraordinary an: alow me to call attention to an extraordinary an
onanaly which now exists in our laws: While manu-
focturd fevery municipality, farm and garden produce can enly be sold within many of our towns and cities
only
upon the upon the payment of certain sums of money.
He who sells the produce of the soil within the
bounds of those corporations must pay a specified bounds of those corporations must pay a specified
fine, which varies according to the greed of each particular corporation. This tax apon an ordinary market gardener will usually double the sum total of all or axiesile misown municipality. He pays
this for a privilege which all other men already enjoy, and yet those who oult toverte the sion in in this
Canda of ours are supposid to he fre this Canada of ours are supposed to be free ! This
market fee tax not only discriminates against a market fee tax not only discriminates against ad
classs but against the residents of outsides municipalities.
This sweet privilege of taxing men who are now voters is enjoyed only by town and city councils.
Will they voluntarily, from a sense of iustice
 members of our Local Legislature represent rural municipaies,
ters by removing this power which is possessed by only a few corporations, comparatively speaking. Let every municipality and every class of
people stand npon the same level. Leet no tribute be paid for the privilege of selling the products o
the soil.
E. MoRDEN, Drummondville, Ont.

SrR, -I would like to ask a question or two, and
would feel much obliged if you would answer in the next issue of the Alvo yart, not only for my casions this summer, when driving on the highway, I had to pass other buggies, but the Cauada thistles being so very high and thick-I may say
almost in the centre of the road - my horse re. almost in the centre of the eroad-my horse re-
fused to go into them and give sufficient room for the other buggy to pass without some difificulty.
Now, sir, if a collision took place and caused dam. Now, sir, if a collision tookk place and caused dam-
ages, must I or the other party be at the loss of ages, must 1 or the other party be at the loss of
such damages? Could we get redross from the Township Council or Pathmaster. MMoch has been
said and written on the subject of Canad thistles said and written on the subject of Canada thistles,
and still there remains gross neglect, especially on and still there
the highways.
My next question is -Can the Superintendent ers of such schools for the parpose of pleasure?
Ialso think it it high time that those five days Irant thin to teachers for visiting schooss should be be stopped, and that the teachers had better teach in
their own schools, as those days are generally ap. their own schools, as those days are enenerally ap
plied to other purposes than those intended.
J. W., Bondhead, $O$ ont.
[1-If you were aware that the thistles were so
bad on the raad, and neglected to notify or prosecute the Pa thmaster, you could not recorer damages. If youd rove on such or oad in its bad condition, using every neessary precaution, and another man drove into your buggy and
didit damage, the Council would have to pay the did it damage, the Council would have to pay the
costs. 2 -We believe the Superintendent has the costs. to grant the holidays. We agree with you power to grant the holidays. Whe too agee asily and too often given, not only at sthools , but by numerous
octy and other oorporations.
tite the there adopted -no work no pay-there would city and other corporations. Ap the proper sys
tem were adopted on work no
be less cause for your just complaint.] be less cause for your just complaint.]

Sire, -A word from Napanee may not be out of
Hace, though it only tells you how much we valu place, though it only tells you how much we valu
the ADrocark. We hope you will keep it up to the otyandard, a trae Canadian farmer's paper.
This fear has been a good one for farmers in this country- good crops and good prices. Our market
has been rowded with produce. This week busihas been chowded with produce. This week busi-
ness has been very brisk the barley trade being
Over one thousand loads of of
 within the tweek. What brings a better price
than barley this year, though barley pays well, than barley this year, though barley pays well,
and this is a great section of country for the crop.
Potatoes have been a great crop this year. Some Potatos have been a great crop this year. Some
very large specimens have been shown, weighing
 farmer has raised 70 bags from two bags panted,
or about four huidred bushels to to the acre, and
us ot STBSRRIEER. this no prize crop. AY OLD SLEsCRIEER.

Farming for Pleasure and Profit. SIr,-I have chosen this heading for a series of
rticles detailing some of my farm studies, articles detailing some of my farm studies,
houghts, successes, and failures, because of its thopghts, success
I have no domproving the farn.
n a few years by thating a. good farm and selling of the crops, without giving it much cultivation,
or using much manure; that is, to keep bat little stock and sell most of the hay, without buying much grain or fertilizer-in other words, skinning
the farm ; but I have no taste for such farming can take no pleasure in seeing the farm grow poorer every year, under my hands, but prefer to improve
it from year to year, even if but little. I have seen the farm upon which I was reared grow poore
and poorer for a number of years, under this sys tem of keeping a light stock, planting but little,
and only half tilling that little, until the soil was and only half tilling that little, until the soil wa
not only impoverished, but filled with weed seed not only imporas roots; but now, for a number of years, I have been trying to get it back to its
original fertile condition. I find it is hard and slow for a young man to hire such a farm, and
without much capital of his own, to work it up but it can be done, and there is pleasure in such work, especially if, as in my own case, it is soil on
has learned to love by labor done in his boyhood And who will say that farming does not pay when such a farm is made to support two families, and increase the productiveness year by year, throug
such times as we have recently been passing?
Improvements should begin nearest home.
have made the same mistake that others often do that is, in working and improving lands some dis
tance from the buildings before those nearer home were put in their best condition. The nearer the were is to the buildings, the more it is worth, othe things being equal, for nearness saves much labo
in carting manure and crops, as well as in trave to and from work. The more compact the work of the season is, the better it can be overseen and
managed, especially if much help is employed. underdraining
I know of no farm operation from which I have
derived more pleasure than from what little under draining I have done. It pays well too, although like most permanent improvements, it take
several years to get all of one's money back. several years to get all of one's mone
have done but little draining, and that at odd jobs,
as I had as I had time to spare without hiring extra help
The first was three years ago last fall and th following spring, when I put in fourteen rods in
an orchard near the house, and there I did my first ploughing last spring, and have raised early potatoes this season. A part of this orchard wa
a slight basin, in which water stood until late in spring, and after every great rain in summer. It had not been ploughed for some twenty years,
and the grass was nearly run out by moss, which and the grass was nearly run ont by moss, which
covered the ground, but a drain three feet deep, coveredled with stones, has changed it into dry,
and filled wod
productive land, from which I have taken good crops of cucumbers, oats, clover and potatoes, an have sown it to
A year ago last spring I put in twenty one rod a very wet, heavy spot of about one-third of a a large mowing lot, into a mellow, productive soil which is now neither too wet nor too dry. Refore
draining, this spot was very wet, and would only grow grass of poor quality, being full of ferns and buttercup, and when ploughed was very lumpy the principal crop being Roman wormwoo.
surface soil was a dark vegetable mould ten or twelve inches deep, underneath which was a very hard subsoil, eighteen or twenty inches deep, 8 ,
hard that a pick would make but little impression hapon it, and under that a stratum of gravel, full
of water, which worked out of the hill near by, and in spots this water came up through the har
pan of the surface, where it escaped only by pan of the surface, where it escaped only
evaporation. By digging through the hard pan to
the gravel the gravel, I have drawn the water off below the surface, which is becoming very mellow and pro
ductive under cultivation, and produced, last year and this, better crops than the naturally dry soi surrounding it, and especially this season has
shown indications of shown indications of great fertility. It is
pleasure to work on such land, after one has re claimed it. II really enjoy going to the out-le
occasionally to see the drain discharge, while the surface is so dry and mellow, and to think what
it was before. I put in another drain last fall,
and am digging for more now. I believe that great deal more underdraining might be done to work is not pressing, and then what a nice oppor tunity it gives to put those unsightly stone-heaps
and useless walls where they will be out of sight and out of the way besides making themselves not pay both in proftit and in pleasurre.--[J. W. P .

## Warts on Horses.

## Sir,-I have a valuable horse that is troubled

 with bleeding warts. Would you be kind enoughto tell me some remedy that would not be so severe as to lay him up from his work? W., Collingwood, Ont.

$$
\begin{aligned}
& \text { [There has been many remedies prescribed, but } \\
& \text { the simplest we have met with is bya correspondent }
\end{aligned}
$$ of the Farm Journal (England); it is is andent worthy of a trial. "Inquiries are made for a cure for warts of different kinds on horses, mules, many barbarous and cruel to the animal. I will

matie. give you a remedy often tried and never known to
 large size, rattling warts, and seed warts, to the number of more than one hundred on one horse's head. have never been able to find the warts appear after the second application. I have sent this prescription to several agricultural papers,
hoping it would be of some use to farmers. But they all seem slow to believe, perhaps beoause the remedy is at hand and costs nothing. I own I
was slow to believe young mare with large bleeding warts, that whenever used I the bridle and girths with blood in trying lard on them. When the mare was got up for the third application there were no warts,
and the scars are there now, after more than and the scars are there now, aiter more than
fifteen years, with very little change. I may say that for cuts, bruises, galls, \&o., the application
of fresh lard-either for man or beast- 18 more that any patent liniments in use. It will relieve pain instantly, and does not irritate raw
flesh, as all liniments do."-[Farm Journal Eng.].

## Spring Wheat.

SIR,- Spring wheat in this locality has been a
iserable failure. I sowed between nine and ten acres of the red chaff wheat, and after threshing I only had 351 bushels. The wheat looked first-rate appearance, as if a blight or rust had taken it. My land is clay loam. A neighbor of mine, Mr. homas Shipley, of Falkirk, sowed salt on his
han and he threshed 17 bushels per acre. Can you inform me if there is any better wheat than
the red chaff? THos. GIBson, Duncrieff.
Then [There is no other new variety of spring wheat
that has been sufficiently tried that wo can commend to you from present information of any more service to the country than the red fern, lost nation or white Russian. We are rather pleased yield better than other varietios. The quality of lour made from that variety of wheat has done more to injure the reputation of Canadian flour would be of advantage to Canada if a fine was mposed on any one offering it for sale. The red haff yielded well in several localities a fow years out Canada. Buyers purchased it and put it in he same bins with other wheat. It was sold to milub, but on trial by the bakers it was found to be of a very wealk nature, and reducod the market value of our spring wheat many cents per bushel.
Would it not be well to check its production ?]

Sir,-Can you inform me how burdocks and A. K., Sussex, New Brunswick. [Keep a garden clean, as it should be kept, and
burdocks or wild parsnips will not be seen. If hogs are allowed to run where burdockg grow they
will eradicate them in two years. The wild parsnips and burdocks will both be eradicatod if you
do not allow them to breathe through the leaves for two years. This is easily done by planting a hoed two years. This is easily dine by planting a hoed
crop and keeping it properly cleaned two seamons.]

The Government Sale at the Model Farm, Guelph.
-As you seem desirous that both sides should be heard on questions relating to the interests of farmers, would you kin November:-
In the ADvocate for October, under the above heading, I noticed with considerable surprise your
observations relative to that institution. Now, observations relative in this communication I shall only dwell upon, one, viz :-The sooner this Model Farm is abandoned
the better it will be for the farmers of Ontario. A the better it will be for the farmers of ontario. A
proposition from which I entirely dissent; believproposition trat the farmers of this Province, on
ing as 1 do that account of the importance and magned to higher interests they represent,
eduaational institutions, peculiar to their calling, -edicational institutions that should class as the same relation to
universities and colleges do to professional men, universities and Normal schools to teachers.
From observations extending over a period of
seventeen years, during all of which time I have beven engaged in practical farming and nothing else, I have learned that farmers as a class do not exercise or possess that inagement of public affairs generally to which they are justly entitled from their calling. The principal reason is not that they
have less brains, but an inferior education. Their minds have not been trained in youth so as to enable them to hold their own when brought into
contact with gentlemen of the learned professions. Why, sir, in the present Provncial Cabinet can you point out a single representative farmer.
am credibly informed (I hope I may be mistaken) am credibly in orrmedyers but one, and he is not a farmer-no, not even the Commissioner of Agriculture is a farmer. What a reflection upon the intelligence of this fair Province of Ontario !
You and others may say-Let the farmers use the high schools and colleges to give their sons a better education all. True; but allow me to point they are open to all. The many serious objections: In out one or two or the cannot secure at the university
the first place they or colleges knowledge peculiar to their occupation
and which would be of service to them in the management of their farms. Secondly-it make a farmer hesitate who is desirous that his son
should follow in his footsteps, and who wishes $t$ t should follow in his an education as the country can give them as good an education as erience of others that, nine-tenths of the farmers' sons thuseducated are weaned from their calling during the process,
lose all relish for farming, and ultimately turn lose all relish for far avocations by which they
their attention to the can earn their living without soiling their hatt in my
In order to avoid this deplorable result, In order to avoid this deplorable resuit, in my
humble opinion, it is necessary in the interests o farmers, and I may say of the communal institution for farmers' sons and other people's sons who wish to become farmers, for the honorable pursuit of agriculture is no destroyed, but rather increased and intelligently
of such a character (with all du respect for your opinion to the contrary) I believe
the Ontario School of Agriculture to be, where the students are required to labor with hands half each working day, either at the workshop, amone the stock, in their physical development, which is of much consequence to farmers as well as to most
of of other people; and securing information never get competent instructors will be worth much to them
at home, and which wry when they come to try the realities of a farmer's
life. Agriculture is not a perfect institution, and that
there can be many improvements made. The there can be many improvements made.
course is not long enough to give students a
thorough education, and now that there are so many applicants who cannot be admited, the
standard for entrance should be elevated, so as to do no work in the school rom that We must
attended to at the common schools. We remember that it is comparatively a new institu
tion, and give it time to develop its usefulness, which you apparently think is gone already. You
would evidently decapitate such institutions withwot further ceremony. The college has, in my
out
oppinion under the able management of the late opinion, under the abse manageme great strides
Principal, Mr. Johnston, made
towards efficiency and popularity, which is readily perceived by a discerning pubinc. No better evi-
dence of this can be supplied than the fact that to fill 40 vecancies at the beginning of last term there
were 160 applications, mostly from farmers sons.
"Knowledge is power," says Lord Bacon. Give the farmers sots knowledge without destroying their taste for their occupation, and a good complished ; even suppose the cost be
will considerable for apparatuses, such as land, the different breeds of cattle, sheep, swine, \&c.; these
are indispensable to impart the necessary practical are indispensable to impart the necessary p
information at a school of such a character
With regard to your remarks as to the sale of surplus stock at the farm seriously interfering
with the business of old established breeders, I consider thom "too ridiculous altogether," when consider thom
the annual output, according to the summing up
in your own columns, does not amount to more in your own columns, does not amount to more
than $\$ 2,344.55$, all told -not more than is often than $\$ 2,34.55$, all told-not more than is often
realized by many ordinary farmers, let alone professional breeders.
Now, Mr. Editor, my hamble and candid opin.
ion is that you would be better serving the inte. ion is that you woud be better serving the inte-
rests of the great agricultural community of this Province by endeavoring to elevate the character and reputation of the Ontario School of Agriculeyes of the farmers, with a view to its entire aboeyes of the farmers,
lition. I trust that you will see the error of
your ways, and assist in lifting the Ontario School your ways, and assist in lifting the Ontario Schoo
of Agriculture above the arena of party politics, of Agriculture above the arena of party politics,
where all educational institutions should rest.
J. P. P.. Hespeler, Ont.
[Wishing that both sides be heard, we publish T. P. P.'s" communication, which, we trust, win
"open the ball." We hope some oo our other
.

## Prize Essays.

To Farmers' Clubs, Grangers, officers or students of the Ontario School of Agriculture, or private ndividuals, we will offer a prize of $\$ 5.00$ each onth for the most usefuling to the agricultural in ferests and prosperity of our farmers. The first is ffered for the best reply to the following letter. The article must not exceed one and a half columns of The Advocate, and must be in this office by he 25 th of November. The other subjects for which the awards will be given will be an sounced in subsequent issues of The Advocare.
Sir,-It is with great pleasure I now write to
ou to ask through your paper for advice on a fe hings in farming. The first subject will be the use of lime, when and how to put it on. I wil
give my opinion of it, and should like to hear th give my opinion of it, and should like to hear the on the land just before I sowed my wheat, and
cultivating all in together. In fixing the lime for sowing, as at will be unslaked, I suppose I shall
have to slake it before sowing? How much lime should I put on my land per acre? Some parts o I think ten bushels per acre would be plenty Will salt and ashes do to mix with the lime befor
sowing? Should it be sowed after the grain is up sowing? Should sowed on barley land when you sow the barrey or when the barley is up? I have a
field for barley next spring, but I intend to seed it down; will the salt hurt the young clover? I every field each year? I intend to do so with all except the land plowed up from sod. I shall plow
up in the fall the land I seed in the spring - will it pay to do so ? You will find my questions somewhat mixed in my letter, but you must ex-
cuse it this time, as it is the first letter I have cuse it this time, as it is the first letter I have
written ou any subject like this.
H. M., Newcastle, Ont.

Sir, -I have a 3 -year-old heifer that is very hard to milk. Can anything be done to make her easier
milked? I have heard of putting plugs in the mits. Is it a good plan, and what size ought they
to T. T.
to be?
[A good milker will moderate the complaint. tend to cause the flow of milk. The insertion of tubes or
injury.]

## Lightning Rods Again

 Sir,-We had eome swindlers down here from manufactures lightning rods. They sold orders and promised insurance policies to insure buildings for ten years against lightning. The policy nevercif you know the name of the company, came. If you know the nam
me know, and oblige.
E. READ, Barronsfield, Nova Scotia. [We do not know of such a company. If any they might inform Mr. Read by post card. There are many patent right men and many agents, or pretended agents, Trave live on fraud and deceit, and swindle the farmers out of vast sums. Could not some of our
nuisance ?]

SIR,--I would like to hear through the AdvoCATE from disinterested parties, or persons not
Italian queens
for sale, whether the Italian bee is superior to the black? I have had Italian bee is superior to the black. at present.
both, but have only the black bee
F. C. B., Sussex.

SCARCITY OF CARS.-An important feature connected with the successful handling of grain is the account of the immense amount purchased at the present time, buyers are cramped, owing to the great scarcity of cars that exists at present. The
production of grain in the Western States is enor mous, and the multiplication of railway facilities has enabled it to be poured into the centres in such quantities as to tax their storage capacity to the
utmost, and all the lines to the seaboard are offered more through freight than they can carry. In the storehonses a very large quantity of grain has has been shipped this fall than in the same period of any preceding year. The railway companie seem to be doing their best under the circum stances, but even this is very unsatisfactory
those holding grain, and wishing to realize on it.

## Fresh Air Without Draft

A secret in plant-case management is the preven A of drafts of cold air inward through the foli ny. plant-house, no matter how completely prohided. But it is not so very obvious at first prevented. Here are the results of sone second and third thoughts, and of a good deal of experience to keep the fire going and to carry off the smok As the rarified air pours out at the top of the flu ool air presses with preponderating power to tak its place. It enters at every crevice. To avoid
drafts, then, we must either have no crevices, or we must have a special opening by which air can freely reach th crannies.
through such
When a room, or a mere case for plants, is attach ed to a kitchen or sitting-room, as a projection in to use both precautions, that of using, putty or paint or paper-lining to stop all possible fissures, and to admit air to the room by a special thoe which he floor and rise in or apainst a warm partition, so as to discharge its cold air against the celling, to be warmed before it reaches any of the occupants of the room.
ventilation; although so simple. It nearly equalizes temperature throughout the room and the at
tached plant case; while the plants and the between them consume or carry off the carbonic acid. It is not necessary that such a plant-case should have a door, but it is a convenience when sweeping to be able to prevent dust from esem in
upon the plants, and sometimes to inclose them in a more humid atmosphere than is agreeable in a aitting-room. A kitchen atmosphere is better for plants than that of a sitting-room, but as sitting.
rooms are usually much too dry, the presence of rooms are usually much too dry, the presence
plants is beneficial to them, both by consuming carbon and giving off oxygen, and by supplying
the air with vapor.-[Tribune. the air with vapor.-[Tribune.

A very good position for beds of tulips, or
vacinths, even, is around the trunk of some large hyacinths,
old tree.


The むmmily Cintle. Home, Sweet Home,"

## THE DAY YOU'LL DO WITHOUT ME.

in two chaptrrs.
Concluded from october $N o$ )



LIady Hastings wrotea aorrteous leter to Mr. Baron, thank-



it fradauly the old vicarge house and dult the ocupantst of







## chapter II.

The fritet thre years that pasead atter their parting had gone





 Yayy on warili, enoum
hope and her rine.

 gon highy. Surely if the eould seen
Balton and their old "young love,"


 Tst time in ipipht years.










Nangniticently. I hopen no one wif discover her value ane




away from her. "Never seen her before ; quite new, vid
enty

The acll





 adimired her fingers, but he never notioed the ring




How ine thear one more song, and then I am at your servic




 And opwhen here parly
they fell










 He did not notice the ring. As sonon as she reopgnizd that

 wilow-tree the ane pae poem the had sung this night.



 worth while to correet any one tor anysthing





He tured to his mother as May erosesed the rom nuwy rrom
then.
then "Iy dear Lionel, ghe is very handsome and niec: but she
 att she is reall






Bartie Friel
So now, wit







 Thion that he had given it!
































 she made no answer; and he thought: "Sho io roent him


 old days when we were chilidron together. Canyon She bent tor







## The Album.

My photograph album? Certainly, You can look, if you wish, my
To me it is just like a graveyard, Though I go through in once a year.
Any new face? No, indeed. No. Any new face? No, indeed. No.
I stopped collecting some years ago. Dearest Jeanette, look well at the book It is full of histories strange; To stories of pitiful changeTram and poem and tragedy,
Vhich I alone have the power to see

Ah I I thought you would pause at that face She was fair as the poet's lay, The sweetest rose of her Fnglish home Yet she perished far, far away,
n the black massacre at Cawnore the suffered and died-we know no more.

And that? Ah, yes, 'tis a noble head
Soul sits on the clear, lofty brow ; Soul sits on the clear, lofty brow; And she is my enemy now.
And, Mistake, and wrong, and sorrow-a
One of life's tragedies-let it pass.

This face? He was my lover, Jeanette And perchance he remembers to-day The passionate wrong that wrecked us both Hart-sick aud hopeless through weary years.
At length I forgot him-despite these tears.

That handsome fellow? He loved me too That handsome fellow? He loved me to When I told him "INNo," 'tis long ago ; He married the very next year
That one I liked a little, but he That one I liked a little, but he
Cared much for my gold, nothing for me.
Brides and bridegrooms together, dear,
And most of them parted to-day ; And most of them parted to-day, Some beauties faded and gray; Close the book, for 'tis just as I said-
Full of pale ghosts from a life that's dead.

Hindoo Women. their beauty in youth-their
The Hiudoo women, when young, are delicate The Hiudoo women, when young, are delicate with olive complexion. They are finely propor regular, and their eyes black and languishing ; but regular, and of beauty soon decays, and age makes
the bloom
rapid progress before they have seen thirty years. rapid progress before they have seen thirty years,
This may be accounted for from the heat of the climate and the customs of the country, as they are often mothers at twelve years of age.
No women can be more attentive to cleanliness
than the Hindoos; they take every method to than the Hindoos; they take every method
render their persons delicate, soft and attractive their dress is pecularly becoming, consisting of a
long piece of silk, or cotton, tied round the waist, long piece of silk, or cotton, tied round the waist and hanging in a graceful mandy in negligent fold 3 ,
afterward brought over the body
under this they cover the bosom writh a short waist coat of satin, but wear no linen. Their long black their ears are bored in many places, and loaded their ears are bored in many places, ans trings of pearls and precious stones fall from the neck ove
the bosom ; and the arms are covered with bracelet the bosom; and the arms are covered whave also gold from the wriver chains round the ankles and abund
and
ance of rings on their fingers- frequently a smal ance of rings on their fingers- frequently a smal
mirror. Ithink the richer the dress the less be
coming it appears, and a Hindoo woman of note coming it appears, and a Hindoo woman of not
always seems to be overloaded with finery, while the village nymphs, $\begin{aligned} & \text { rapery, are most captivating } \\ & \text { the same elegant drap }\end{aligned}$ although there are but few women, even of the marriage.
"Live and Let Live." - Village Doctor (to th grave-digger, who is given to whiskey) : "Ah,
John! Im orory to see you in this pitiable con-
dition acain!" (irave-Digger : "Toots, Sir! Can ye no ' let a'e little fau't o ${ }^{\circ}$ mine gae by? It's mony a muckle ane o"yours 1 ha
naething aboo ot? $-[$ Punch

## The Uses of an Enemy

Always keep an enemy in hand-a brisk, hearty, active enemy. Remark the uses of an enemy :1. The having of one is proof that you are somebody. Wishy-washy, empty, worthless people never have enemies. Men who never move never thoroughly dead and utterly buried, nothing ever runs against him. To be run against is proof on existence and posit.
2. An enemy is, to say the least, not partial to you
He will not flatter. He will not exaggerate your irtues. It is very probable that he will magnify
your faults. The benefit of that is two-fold; it permits you to know that you have your faults,
and are therefore not a monster, and it makes and are therefore not a monster, and it makes
them of such a size as to be visible and' manag. hem of such a size os have a fault you desire to able. Of couns you become aware that you have
know wher
a fault you desire to correct it. Your enemy does a fault you desire to correct it. Your enemy does
for you valuable work which your friend cannot for you
perform.
3. In addition, your enemy keeps you wide-
wake. He does not let you sleep at your post. awake. He does not let you sleep at your post. There are two that always keep watch watches that you may sleep. He keeps off noises, excludes lights, adjusts surroundings, that nothing may dis
turb you. Your hater watches that you may no sleep. He stirs you when you are napping. He keeps faculties on the alert. Even when he does
nothing he will have you in such a state of mind nothing he will have you he will do next, and the mental qui vive must be worth something.
4. He is a detective among your friends. You
need to know who your friends are, and who ar need to know who your friends are, and who are
your enemies. The last of these three will dis criminate the other two. When your enemy goes
to one who is neither friend nor enemy, and assails you, the indifferent one will have nothing to say or
chime in, not because he is your enemy, but bechime in, not because he is your enemy, bose, an
cause it is much easier to assent than oppose, casse it is much easier to assent than oppose, and
especially than to refute. But your friend will
tape cudsels for you on the instant. He will especially than to refute. But your
take up cudgels for you on the instant. He will deny everything and insist on proof, and provin
is very hard work. There is scarcely a truthful is very hard work. There is scarcely a drabe to
man in the world that could afford to undertake prove one-tenth of all his truthful assertions
Your friend will carry your enemy to the proof Your friend will carry your enemy to the proof,
and if the indifferent person, through carelessness, and iats the assertions of you enemy, he is soon
repeat
made to feel the inconvenience thereof by the zeal your friend manifests. Follow your enemy around
and you will find your friends, for he will have de andoped them so that they cannot be mistaken. The next best thing to have to a hundred rea
friends is to have one open enemy. But let us May to be.

## One's Friends

Money can buy many things, good and evil. Ald
the wealth of the world could not buy you a friend nor pay you for the loss of one. "I have wante "but, wanting that, have wanted everything.
And, again, "My heart, shut up in the prison-hous of this ruce clay,
find, a heart to speak to.
We are the weakest of spendthrifts if we let one way another through inattention, or let one push ealousy or hedless slight or roughness. Would you throw away a diamond because it pricked you All the earth is if there is coolnoss the jewels o between us, let us come face to face, and have it
out. Quick, before love grows cold. "Life is to short to guarrel in," or to carry black thoughts
friends. If I was wrong, I am sorry ; ;if you the Iriends. If I was wrong, Iam sorry, ;rif yet, for should I not grieve for my friend's misfortune? And the mending of your fault does not lie with me. But the forgiving it does nnd that is the happier oftice. Gise me your han
and call it even. There! it is gone; and I thank kind heaven I keep my friend stili!. A riend ist be a little heart that cannot find room for more me toward all the rest, makes me long to do some
thing to make you all happy. It is easy to lose a friend, but a new one will not come for calling, nor I make up for the old one when he comes.

Proper Exercises.
When we talk about exercise, we are very apt to
We use it as forget that it is a many-sided word. Wene of the moscles. It is necessary to health that all our
powers should be exercised, and the continued dis powers should be exercised, and the continued dis
use of any one of them results in its partial or use of any one of them results in its partial or
total loss. If anyone should lie in bed for years,
without the slightest ailment, one would lose the without the slightest ailment, one would lose the
use of the limbs ; and this is equally true of quite use of the limbs; and this is equally true of quit
different faculties. All our powers grow by use different faculties. All our powers grow by use.
If we neglect to cultivate the habitoo observation,
we might as well go through the world blindfold. If we neglect to cultivate the habit oo observation,
we might as well go through the world blindfold We lose our faculty - what artists call our
"tooch"-by neglect of practice on other things beside the piano. The man who seldom reads,
reads slowly ; the woman whose writing is confin. reads slowly; the woman whose writing is conild
ed to an infrequent letter to some absent child ed to an infrequent er that than does a practised
spends more time over
writer over a dozen pages of manuscript. In the spender overer a dozen pages of manuscript. In th
realm of the emotions it is the same Benevolence realm of the emotions it is the same. Benevolence
is largely a matter of habit. So is affection, selfis largely a matter of habit.
control, gentleness. If, then, exercise in its largest sense is of so great consequence, we at once see
the eimportance of apportioning it to our own per the importan
sonal deeds.
sonal our occupation is sedentary, we need to plan for walks and rides, and active games, to keep our
muscles lithe and serviceable. But if our employ muscles lithe and serviceable. But in our employ
ment gives us enough muscular action, it is not one ment less important to our health of body that we
whit
should plan for mental exercise-for employment should plan for mental exercise-for employment
enough of memory and our reasoning powers to enough of memory and our reasoning powers to
keep them from rusting. And, in either case, that keep must be a dwarfed and unhealthy one that does not provide for our spiritual faculties-for worsmity,
and charity, and patience, and magnanimity. and charity, and patience, and magnanimity.
Exercise of soul, mind and body, can alone bring
us to the stature of the perfect man. Exercise of soul, mind and body, can

## Good Talkers.

The first requisite of a good talker is genuine
social sympathy. A man may not say, out of some selfish motive, or some motive of personal policy, "enoy society and have a a genuine desire to serve and please. We have all seen the talker who talks for his own purposes, or talks to please him-
aelf. He is the well-known character-the talking self. He is the well-known character-the talking
bore. The talker who gets himself up for show, who plans his conversations for an evening, and
crams for them, becomes intolerable. He lectures; crams for them, becomes intolerable. He lectures;
he does not converse. There is no power of a he does not converse. There is no power of a
talker so delightful as that of exciting others to talk and listening to what his own inspiring and social sympathy and a hearty desice to please thers are necessary to produce such a talker as this, and no other is tolerable. Social sympathy is gifts which constitute what may be called esprit, that are very essential to a good talker. This comination includes individualit, which enable a man to use the materials of conversation in an engaging way, entirely his own. Every good talker has his way way of saying good hings, as well as of managing conversation based
on his esprit.-[Dr. Holland in Scribner's for

The Uses of the Potato.
In France the farina is largely used for culinary purposes. The famed gravies, sances, and soups
of France are largely indebted tor their excellence to that source, and the bread and pastry equall so; while a great deal of tre so-ce, is the produce of the potato, Throughout Germany the same uses are common. In Poland the manufacture of spirits
from the potato is a most extensive trade. "Stet. rom the potato is a most extensive trade. "Stet
tin brandy," well known in commerce, is largely imported into England, and in sent from thence to many of our foreign possessions as the produce of
the grape, and is placed on many a table of England as the same; while the fair ladies of our country perfume themselves with the spirit of potato under
the designation of cau de Cologne. But there are other uses which this esculent is turned to abroad. After extracting the farina, the pulp is manufactframes, snuff boxes, and several descriptions of toys, and the water that runs from it in the proces fectly cleansing , woolens, and such like articles, it happens to have chillblains, she becomes cured by the operation.


My Dear Niecrs, -
What a pleasure and advantage it is to be able converse freely, and how difficult it is for many the simple want of practioe. Now good conver sation should by no means be confined to literary political or high social circles, but be cultivated in every home, and the prized accomplishment of every class of society.
Now, dear nieces, why not endeavor during our long winter evenings to have conversational parties, to bring young intellects in friendly collision, and enable each other both to give and get a portio of intellectual wealth. They would serve to tied when they attempt to speak in company Conversation well directed might become a grea means of exercising their intellectual powers, and the exchange of thought and information benefit one another and acquire a fluency of speech which is so necessary in life. Parents may do much to encourage in their children the faculty of talking by teaching them to think and reason as well as speak. In teaching the art of conversation certain everything priggish or conceited, and that frivolity of speech and manner which infests every class of society. The use of slang terms should not be tolersted, but plainness and purity of speech which always mark the true lady or gentleman. The kind of conversation that generally goes on, even in polished and cultivated circles, would make a very poor appearance in print. This fash ionable repugnance to anything like solid conver sation springs from stupidity or sheer affectation, and is one of the with rare felicity Cowper describes conversers and conversations which are quite common at the present day. His satire was never more needed than now, and we would like to draw our readers' attention to the perusal, or re perusal, of his conversation. Denouncing the fierce ness of some kinds of wordy war, he exclaims, "Preserve me from the thing 1 drean
A duel in the form of a debate !"
Then passing from the ferocious to the timid and Then passing from the feroc
hesitating talker, he tells us,
"Dubious is such a serupulous good man-
Yes, you may catch him triping if you can
He would not with a peremptory tone
Assert the nose upon his face his own
Assert the nose upon his face his own;
His evidence, if he were called by law
To swear to some enormity he saw,
For want of prominence and just relief,
For waint of prominence and just relief,
Would hang an honest man instead of a thief
Then your positive people are thus characterised-
"without the means of knowing right or wrong, They are always decisive, clear and strong, Where others toil with philosophic force Their nimble nonsense takes a so t lump,
Fling at your head conviction in
And gains remote convictions in a jump." The And gains remote convictions in a aump. touches up some well meaning but "ping personages

But sedentary Weavers of long tales
Gives me the filgets, and my patience fails, Tis the most asinin, employ patience fails.
To hear then tell of parenturan end harth, birth, To hear then tell of parentage and birth,
And eccho conversations duland and ry
Emtellished with, "H. said", and so said L ", And then he gives some excellent directions
 Tell not as an what eversbody knows,
And, new or old, still hasten to a close.
The following picture will remind many of what ey have felt



## Answers to Inquirers.

Miss Nelule.-The letters "I. H. S." signify,
"Jesus homium Salvator", Jesus homium Salvator"-Jesus the Saviour
men. "In hoc salus"-In Him is salvation.
M. A. J., Kingston.- The best thing to do is to
take the shawl to a professional dyer, who will take the shawl to a professional dyer, who wil
treat it to a mordant that will fix the color. next best plan is to dye it again, being careful to
follow a recipe which will insure a fast color.
Ralph, N.S.-We believe steel, or rather iron, teenth century, but it was not until 1824 that they were produced in quantities as regular articles of nanufasture
Mrs. Carson.- Bird fanciers advise for lice or
mites rubbing a little Persian insect powder under he bird's wings. Also apply sweet oil to the end of the perches and that part of the caye on which
the perches rest; here it it the lice are liable to
breed. At night cover the cage with a piece of white cloth- -llannel is the best -and remove early
in the morning. The insects will leave the bird to in the morning. The insects will eave the bird be ashed each day previous to usi J. C. G.-A man of thirty is
ld to marry a girl of nineteen.

Effie M.-The mere proffer of a nosegay, and ho dancing three or four times with you, should namoured. Wait till his attentions become un
mistakably pointed, before you give way to such mistakably po
JANE G.-You should certainly accept the apo-
logy offered by your young female friend, unde ne circumstances. She did not know of your en
agement to the gentleman all the time she joked argement to the gentlemana all the time she joke
with you upon the subject; and, after all, the jest
was a trivial one was a trivial one.
Rose.-It is not good to habituate yourself to
take citrate of magnesia every morning For ake citrate of magnesia every morning. For ob
tinate pimpular eruptions a person should go through a regular course of medicine, relative to
which a proper practitioner should be consulted. Jerser. - The words "warm" and "hot" do not xpless moderate degree of heat, and the latter a
only a moder great degree.

## RECIPES.

pressed veal.
Take 8 lbs. of veal; hash the meat; 3 eggs beaten, pepper and salt, and nutmeg to taste; 3 table.
spoonfuls of butter melted. Roll 8 crackers; mix half with the meat; the other half to be put on the outside. After making the meat in a form,
bake two or three hours, basting with butter. Half bake two or three hours, basting silt buted. Wath
fill the pan, in which the loaf is baked, with water when it is placed in the oven.
moon-shine.
Beat the whites of two eggs very light. Sweete
to taste. Then slice in v very thin pieces one banana ard stir into it; or if you choose tind of fruit will do. Do not make it until just before going to table. It is a handsome dish, and delicious for tea
hominy gridde-cake-

To one pint of warm, boiled hominy add a pint
of milk or water, and flour enough to make a thin batter; beat up two or three eggs, and stir them
into the batter with a little salt. Fry as any other into the batter
griddle-cakes.

Two eggs well-beaten, stir in a little flour, then solved one teaspoonful of soda, one teacup of sweet milk, then the remainder of one quart of Hour. For batter-cakes, stir in meal instead of
flour. Use plenty of lard in baking-or gravy, or flour. Use plenty of lard
butter.
breaffant biseutr.
Take a piece of risen bread dough and work
into it one beaten egg and a tablespoonful of but er, or lard and butter mixed. When these in gredients are thoroughly amalgamated, thour your hand and make into balls the size of an egg.
Rub a tin baking pan over with lutter, and set
them in a quick oven for twenty minutes, when tuem in a quick oven for twenty minutes, when
they will be ready for the table. Alway break
them open, for to cut would make them yough.

POT-AU-FEU
Into four quarts of cold water put two pound
of "round;" bring very slowly to the boiling point of "round," bring very slowly to the boiling poin
and boil slowly till the meat is about half done then add sawlt and a few vegetables at a time, so as
the not to stop the boiling - three or four carrots,
cabbage cut in quarters and tied together, potatoes, cabbage cot in quarters and tied together, potatoes,
half a dozen onions, a bouquet of herbs-oelery arsley and sweet basil tied together. When the the
pot-au-feu is nearly done, toast slices of ta oot-au-fee is nearly, done, toast slices of sta
bread crisp and brown and put them in the soup fureen. Pour the broth over them when done ani serve, arrange the meat on a platter with th
vegetables around it. This is the French of cooking what in America is called a "boiloil making vinegar.
Mix five quarts of warm rain-water with two
uarts of New orleans molasses and two liquid yeast. In a few weoks you will havo strong vinegar.
pickled nasturtiums.
Soak them twelve hours in brine, drain, and then pour on them boiling vinegar, with whole blac epper and allspioe
Horse-radish sauce.

Grate the horse-radish after it has been well
cleaned and the outer skin peeled off cover it wilh vinegar, and bottle for immediate use. As a con iment for soups, fresh meats and boiled cabbage horse-radish saunee is highly regarded by epicures,
Some persons prefer to eut the root in long thi Some persons prefer to
strips, and boil it in milk.
chopped pickle
Pare and cut cucumbers into pieces an eighth of
an inch thick, and prepare some onions in the same way. Place a layer of each in a a jar, ,pprinkling
lightly among them salt, white mustard eeed, red pepper and cloves. When the jar is nearly full oil vinegar enough to cover them, and then fastc the vesse
possible.
to mull cider.
It your cider is hard, reduce it with water to a palatable strength, and set it ou the fire to boil with the addition of a few grains of allspice. To
each quart of cider take eight egge and beat them in a large pitcher, with as much sugar as you ma deem sufficient. By the time the cider boils the
eggs will be light; then pour over them the boiling
liggid eggs will be light; then pour over them the boiling
liquid, and continue to pour it from one pitcher to andither until it has a fine froth on it. When you
put the cider into glasses, grate nutmeg over the put the
closing cracks in cast-iron stoves.
If finely pulverized clay and a little salt are
nixed with an equal quantity of wood-ashes, sifte through a fine sieve, and made into a paste with water, and then filled into the cracks of a stov
when the stove is cold, it will effectually stop the cracks. It makes a cement that will not pull of
or break, and soon assumes, after being heated, or break, and seen assumes, after being heated, a
great degree of hardness. This can also be used
with grenh geod results in setting the plates of a stove
with fitting the or fitting the pipe, making all the joints perfectly
tight. This is a useful hint to country hous keepers, who annot always get repairs done in short notice. to remove warty.
The best application is said to be that of mono.
hydrated nitric acid. not be used, because its caustic effecte extend much farther than the points touched, while tho limited to the parts to which it is actually applied Vitrate of silver is also frequently used with a hloral has been spoken of as efficient in destroy ing warts.
Sirace (ireenwool relates an an instanse of tho young farmer's wife made her first boy's pants precisely as ample before as behind, the farnic exclaimed: "Goodness, he won't kn
he is going to school or coming home!"
A little fellow, on going for the first time to on conning sut, what he did in the church, when he
replicd: "I went into a cupboard, and took a seat repliced: ""
on a shelf."

## LThe Bear.

How Niagara Looks by Electric Light. $\begin{aligned} & \text { with the pitch black background, afforded by the } \\ & \text { dark mazes of the shrubbery and trees of the park. }\end{aligned}$ How Niagara Looks by Nectric Might. $\begin{gathered}\text { with the pitch black background, afforded by the } \\ \text { The illumination of the Niagara Falls on } \\ \text { dark mazes of the shrubbery and trees of the park. }\end{gathered}$ The familyl of |bears 'is large. The one here the American shore by means of the electric lights. Their weird look could be enhanced beyon sepresented is of the grizzly species, which irs the
light has now given to this far-famed scenery a
doubly attractive aspect. Science by this appli- calculation if the entire vast scenery of the grand
cataract could be lighted up the whole distance most savage of his race. He is not attack, but if attacked he will pursue the assailant to the last, nor will he quit the conflict while life remains. He has survived 20 minutes before succumbing to and has survived 20 minu his wounds. The claws of the beast are sures. Bears to tear even a larger and for each other, especially the female for her young.
There are bears in almost all latitudes from the quator to the pole-the warmer the climate the nore tame and feeble"compared with natives of ing rainbow. The foam and spray at the pit of the cöler ones. The bears again are easonable animals, retiring during the winabroad in the pring. But it pring. But it
not from the is not from the ears retire; it is from the seere oold. The storm is both seed time and harvest to the bear, and during wh atmost fury they range the
the wilds and the wilds and panied by hawks panjed by hawks
and owls, which like the bears are equally remarkable for their strength and for heir impenetrable covering

The color of the grizzly bear is a mixture of brown, white and black. The tail is short, and in completely hidlen by the hair. On the fore paws One claws are rather slender, but
long as well as
crooked and sharp at the tips. The soles
of the hind feet of the hind feet

he cliffs of Staffa
$\mathbf{r}$ the Giant's or the Gia
Causeway.
There is no son why such noson why such nosmall scale could
not be imitated with advantago elsewhere, and
give with less
lost give with less
cost more satis-
faction than evfaction than evanescentand
tly fireworks.

Influence of
Happiness over Happiness over
the MIND. should never be forgotten that the
happier a child happier a child
is the cleverer he is the cleverer he
will be. This is not only because
in a state of hap in a state of hap-
piness, the mind piness, the mind
is free, and at
liberty for the liberty for the
lexercise of its exercise of its
faculties, instead of spending its
of houghts and en thoughts and en
ergies in broodergies in brood
ingover troubles
but also beaus but also because
the action of the the action of the
brain is stronger
when the frame when the fram
is in a state of
hilarity, the ideas are more clear ;
impressions are more clear,
impressions of
outward objects are more vivid
and the memor and the memory
will not let them slip. This is rea
son enough fo son enough fo
the mother $t$ take some care cheerful guide
and comforter of her child. If she is anxious or fa.
tigued, she will tigued, she wil
exercise some control over her
self, and speal
cheer
are in a great
part naked and

| the claws on them considerably smaller than |
| :--- | :--- | \left\lvert\, \(\begin{aligned} \& gaze upon, are no longer spray and mist under <br>

\& those on the fore paws, though much more crooked. <br>

\& this nocturnal fairy transformation, but fiery\end{aligned}\right.\) | Bears are great climbers, passionately fond of | $\begin{array}{l}\text { cloods, amid which the rays of the powerful light } \\ \text { play with magical effect, somewhat resembling, }\end{array}$ |
| :--- | :--- |
| Ben |  | Bears are great crimsers, passionately fheat, and play with magical effect, somewhat resembling, in America green maize, and especial enemies to hogs and young calves.

$\qquad$
"So are you going to keep a school," said a young
". Well, for my part lady to her old maiden aunt. "Well, for my part, soonor than do that, I would marry a widower with
nine children."-"I should prefer that myself,", was the quiet reply ; "but where is the widower!",
He had an auburn-haired girl, and promised to
take her out riding. She mot him at the door when tako hor out riding. She mot him at the door when he drove up, and he exclaimed : "Hello, Ready""
She misunderstood him, and they don't speak now.
$\qquad$ bellish the grounds of of Prosing foupect Park its which em.
for once, in reality as it were brilliant for once, in reality as it were, brilliant showers of of any of the near-by electric flames. The most are but little shadows in comparison with this spectacle. At will the myraids of tiny drops may rubies or sapped eires, changor showers of fiashing twinkling to
golden sprays, almost too intense in their splendor golden sprays, almost too intense in their splendor
aud painful to the eye, through the intense contras
try to enter freely into the subject of the moment making him sink for want in short, instead

The Royal or Golden Eagle.
The illustration given in our last issue of the above bird being driven from its prey by a species
of the deer tribe, is of an unfrequient occurrence as it is one of the surest birds to size its prey. Still all have mishaps sometimes. He appears to bird is found in Europe and some parts of America and measures about seven feet across the wings. it is a more noble bird than the common eagle that may be sometimes seen in our latitude. The lambs and small birds.

## allucte Tom's 刃刃eparturnt.

My Dear Nephews and Nieces,-It is quite evident, from the limited number of correct answers lastions bex planation in regard to deciphering it. Now the planation in regard 1 must stand for either a or $i$, and as we see in the second line 1 written in a small character we know it must be for a. Again, knowing 1 to be for $a$, we also know that $p$ in the fourth line must be for i. Now since the letter e occurs in English more frequently than any other letter, let us try in this. Looking over the puzzle we find $k$ occurring quite a number of times oftener than any other letter, therefore $k$ is for $e$ In the fifth line we see the word that k is and substituting the letters we already have we get a-e; now the most likely letber to go between a and eis r, making the word are; at any rate let us assume $b$ to be for r. Again, at the end of the fourth line we find the word nkb, that is - er, and the only letter that can fill up the blank is $h$; thus we find $u$ to be equivalent to $h$. Again, in the fifth we find muk, or -he, and the only letter that can fill up the blank
is $t$; hence $m$ is $t$; and $m n$ in the fourth lina is for t- and o being the only ling is for $t-$, and o being the only letter that will make a word, $n$ stands
instead of $o$. Now in the fifth and last lines the word leg occurs, and knowing the first letter to be a, we are apt to suspect, from the position of leg in the last line, it to be the common word and; thus we assume e and $g$ to be put respectively for n and d . Again, by substituting for $p$ and $m$ in $p m o$ in the last line, we find that must be for s. From the third word, nerk, or and we know that ny or o-in the third line must be either on, of, or or, and having other letter for n and r we conclude that y is for f. Again, the last word by substitution is cond-ctor; the word conductor is immediately thought of, and hence
$t$ is $u$. In the second word in the third line we have - eddin-, suggesting immediately wedding, thus giving us the letters $w$ and $g$ for $i$ and $c$ From the second word in the fourth line we get -entured, indicaling the seventh line, sugresting the word soul's, hence d is 1 ; and in the second word we have lad-, showing us immediately the word lady, hence z is y . Now by substituting the letters found we find out almost every word in the verse; but if there are yet incomplete words they at once suggest themselves on perusal. In this manner, and by noticing particularly the small and the rhyming words, most puzzles of this
nature can be deciphered.
Uscle Tom.

PUZZLES. $\underset{\text { jia jkg hmff, }}{98-\text { CRy }}$
By nubio j yjml 'qu ejbus,
Djia nuff gqek,
Jkg csqan omw isqek,
Jkg hmff j xu boxcfmkh jnbus.,$~$
99-charades.
1.- My first is used for giving light To many persons every night.
My second gentlemen hold in their hands
And my first in my whole doth stand. And my first in my whole doth stand.
2.-My first light without doubt,
My second keeps the robbers out

That my whole is dangerous by everyone is said,
For it has killed many a person dead. 34-My first is a vowel to be seen in sank

F'AEMERS' ADVOCATM,

My third a small thoroughfare in a town;
My whole is a battle of great renown. My whole is a battle of great renown. 4.-My first is to know; my second is to utter
with musical sounds ; my third is a weight, and with musical sounds ; my third is a weight, a
my whole is the name of a town in England,
School Girl. 5.-My first is a kind of pottery ; my second is
a dwelling:place; my third is a human being, and my whole is a storehouse-keeper

## 1. -To summon. 2. - A river of Italy. 3. - A part of the de <br> 3.-A part of the day. 4.-A cape of Sotland. 5. - A river of America <br> 6-A river of America. My A town in Wales.

My initials will give a city of Asia, and my

1. -1 , a bird; 2 a
tendon ; 5 , to come in.
2.-Part of the face; an animal; a flower; a lake
101—illustrated rebus.



 Anguine, ST Hagerman, E
Gogre Norton Hehrite
Tnos A Corbett, Chas Beans. Credit is due Hattie Haviliand for having answered tho
greatest number of puzzles correetly.

## HUMOROUS.

A German clergyman who was travelling stopped
a hotel mach frequented by wags and jokera at a hotel much frequented by wags and jokers.
The host, not being used to have a clergyman at the table, looked at him with surprise. The guests the ta all their artillery of wit upon him, without
usiciting a remar. The clergyman ate his dinner
elitan eliciting a remark. The clergyman ate his dinner
quietly, apparently withoutobserving the gibes and sneers of his neighbors. One of them at last, in
despair of his forbearance, despair of his forbearance, said to him : "Well, wonder at your patience! "Have you not heard all
that has been said to you ?" "Oh, yes ; but I am ised to it. Do you know who I am, yes ; but I am "Well, I will inform you. I am ohaplai of a lunatic asylum. Such remarks have no effect upon me."
A lady in Boston discovering that her
trunk had been broken open, and her valutrunk had been broken open, and her valuof eighteen summers, and aceused her of oor trunk?" the indignant girl exclaimed; "I haven't any axes, and never had any. ve nothing but a hatchet to split woo with! ! The lady consi
innocent to accuse further.
An abundance of guests and limited lodg, at a neighbor's. On arising in the morning he was invited to remain at breakfast. "Well, I guess
 fasts at our house when we have company. Little Billy was told: "Never ask for any thing
at the table. Little boys should wait until they are served." The other day little Billy was forgotten in the distribution and was not served at all What could he do? Presently, after reflectin serious y, he ath, do they go to heaven ?"
starve to death,

Manvefacture of Isinglass.-One of the most notable industries of Russia depends upon the turgeon, the swim-bladder of which ir manufac-
tured into isinglass. The blader is first placed in water, and left there for some days, with frequent changes of the water, and a removal of all fatty and bloody particles-the warmer the water the more
rapid being the operation. The bladders, on being rapid being the operation. The bladers, on which
removed, are cut longitudinally into sheets, which are exposed to the sun and air, 'beinglaid out to dry,
with the outer face turned down, upon boards of with the outer face turned own, upon boards of
lime-tree wood. The inner face is pure isinglass, which, when well dried, can with care be removed from the external lamellæ, The finer sheets thus obHies, and are. then subjected to a heavy pressure, so as to flaten them out and render them uniorn,
and after this they are assorted and tied in packets. and after this they are assorted and tied in pachers. sturgeon nsaally contain from ten to tifteen sheets, aud weigh a pound and a quarter; and those of
others contain twenty-five sheets, weighing a others $\begin{aligned} & \text { contan twenty-ive sheets, weighing a } \\ & \text { pound. } \\ & \text { Eighty of these packages are usually sewed }\end{aligned}$
in cloth bag or enclosed in sheeet-lead. The Songless Bird. - The sparrow comes from
a good family, having a host of representatives in
Europe and a full list in North America; but, Europe, and a full list in North America; but,
strange to say, it is the only scion of this large distrange to say, itis thie from which the gift of song
vision of the bird trion
sith seems to have been wholly withheld. Everybody
who has strolled in the country during May and who has strolled in the country during hay of our chirping and song sparrows, but no one ever heard
the sparrow in uestion ntter a single sound that possessed the faintest melody - nothing but that incessant complaining chirp and distressful chatter mission, no rest. If it could sing like our cat-bird, or even the clumsy robin, for instance, the opposition to it which now exists would, it is safe to say,
never have been aroused, because in all fainness, waiving the question of song, the sparrow can not
be called any better or worse than the rest of its kind, which are all plump, sober, dull-plumazed kind, which are all paump,
birds.-[Harper's Magazine.

Visit to a Pin Factory A correspondent of an American paper thus dein making
"The pin machine is one of the closest ap-
proaches that mechanios have made to the dexteriproaches the human hand. A small machine, about
ty of the
the height and size of a lady's sewing machine the height and size of a lady's sewing machine,
only stronger, stands before you. On the back only stronger, stands before you. On the back
side alight belt descends from the long shate at
the ceiling that drives all the machines, ranged in the ceiling, that drives all the machines, ranged in
rows on the floor. On the left side of our machine rows on the floor. On the left side of our machine
hangs on a pega a small reel of wire, that has been straightened by running through a compound sys tem of small rollers.
"This wire descends, and the end of it enters
the machine. It pulls it in and bites it off by the machine. It pulls it in and bites it off by
inches, incessantly, one hundred and forty bites to a minute. Just as it seizes each bite, a little han-
mer, with a concave face, hits the end of the wire three taps, and 'upsets' it to a head, while it grips it out in a countersunk hole between its teeth. , ith an outward thrust of its tongue, it then lays of a small wheel that slowly revolves just under its nose. By the external pressure of a stationary hoop, these pins roll in their places, as they are
carried funder two series of small files, three in each. These files grow finer toward the end of the series. They lie at a slight inclination on the
points of the pins, and by a series of cans, levers, points of the pins, and by a series of cans, levers,
and springe, are made to play 'like lightning,
Thus the pins are pointed and dropped in a little Thus the pins are
shower into a box.
"Twenty-eight pounds of pins is a day's work for one of these jerking little automatons, Forty
machines on this floor make five hundred and sixty pounds of pins daily. These are then polished. Two very intelligent machines reject every crook-
ed pin, even the slightest irregularity of form being ed pin, even
"Another automaton assorts half a dozen unerringly, when a careless operator has mixed the contents of boxes from various machines. Lastly, a perfect genius of a machine hangs the pin by the slots' as there are pins in a row on the papers. These slots converge into the exact space, span-
aing the length of a row. Under them runs the strip of pin paper. A hand like part of the machine catches one pin from each of the slots as it
falls, and by one movement sticks them all through falls, and by one movement sticks them all through
two corrugated ridges in the paper, from which two corrugated ridges in the paper, from which
they are to be picked by taper fingers in boudoirs, and all sorts of human fingers in all sorts of human
circumstances. Thus you have its genesis : ircumstances. Thus you have its genesis

Tale and slender, straight
Pretty, little, useful pin.'
Grammar in Rhyme.-It is seldom that one sees so much valuable matter as the following lines contain, comprammarizan just entering upon the mysteries
tof syntax, will tind it highly advantageous to comof syntax, will tind it highly advantageous to commit the "poem" "to memory, as by so doing many
a "black mark" will be avoided, for with these lines at the tongue's end one need never mistake a part of speeटh.

1. Three little words you often see
2. A Noun's the name of anything,
3. A schuol or garden, hoop or swing.
4. As great, small, pretty, white, or brown.
5. Her head, his face, your arm, my hand.
6. To read, count, sing, laugh, jump, or $r$,
7. How things are done the Adverbs tell,

As slovely, quickly, ill or well
Conjunctions join the word
Conjunctions join the words together-
As men and women, with or whether.
The Preposition stands before
A Noun, as in or through a door.
The Interjection shows surprise,
As oh! how pretty-ah ! how wise.
The whole are called Nine Parts of Speech,
Which reading, writing, speaking teach.
To Preserve Peas from being bugigy in the
Spring.-Keep the seed two years; the weevils will emerge the first year, and the second spring
the nueaten peas cau be selected for planting plant late for seed. The pea weevil is singlebrooded, and hence the second crop of peas, or
even an unusually late one, will escape this pest.


## English Market



 or shipment during present or or folowiow mong month, per siniling
cessel to American terma, 50s.

## Toronto Marke



## Montreal Market.





## Chicago Markets.




## New York Market





The great speculation on the psospect and price enormous quantity landing in Europe being now double the quantity delivered at the sam purchasers ; we do not anticipate any rise in the price of wheat during the next two or three month Meat of all kinds should, according to presen prospecta, maintain of the Eastern States.

Turnip Crops in the Far North of Ontario
-The Agricultural Society of the Township
-The Agricultural Society of the Township Derby this year offered prizes ior the best acre amined by the judges during the latter part of las
week with the following result week with the following result
First prize, 1016 bushels per Second prize, 1060 bushels per acre, George Donal Third prize, 925 bushels per acre, DavidjHilts
Fourth prize, 853 bushels per acre, John Duncan

Little Falls Cheese and Butter Marke
he Fararrs' Advocatr by Prof. X. A. Wiluard Little Falls, N. Y., Oct. 27, 1879. The cheese market has been "booming" during the entire month. By the midde of the month prices had advance to 111 c ., and up to 12 to 5 , 5 extreme rate. On Oct. 20 the market showed even more excitement than the previous week; another advance being made, and factorymen holding firmly at 14c. This was a little above the views of buyers, and after considerable discussion on both sides, a concession was made by sellers, transactions for best goods ranging from 134 c . to $13 \frac{1}{2} \mathrm{c}$. $y$ and in one instance, for an extra fancy factory, 144 c . was paid. In the whole history of the cheese market here, there has never been such an advance in cheese Some have regarded the great rise in the market as mostly speculative on the part of shippers, who having large stocks of cheese at 5 c to $5 \frac{\mathrm{t}}{\mathrm{c}}$, were desirous of forcing up rates, so as to unload and a big profit. One shipper is reported to have cleared from $\$ 100,000$ to $\$ 150,000$ by the late advance. But at the interior markets, we do not understand that any large profits have been made, as local and other buyers hardly had the courage to purchase and stock up cheese, holding for a risefrom week to week, soon after its arrival at, small advance on the purchase price in the in. terior.
The main cause of the advance must be at tributed to the severe, and almost unparalleled, fall drought, which has cut off fall feed, and reduced the water supply to the extent that many dairymen are forced to feed hay, and to haul water long distances in cans to meet the requirements of their herds. The dronght has been general all rain having fallen since Augnst, and the drought still continues.
The fall make of cheese in New York will be less than one-half what it was last year. Thus it will be seen, with a greatly reduced yield, and week to week, there is some substantial basis for a rise in prices. Again, as all branches of busines show a better feeling and more activity, dairy pro-
ducts would be likely to sympathise also with adacts would be likety products.
The sales here during the month will aggregate
about 50,000 boxes. The advance on butter has not been in the pro-
portion to that on cheese. Up to Oct. 20th the ortion to that on cheese. Up to Oct. 20 th the
best prices reached for butter were, for fair to oood lots 22 c . to 23 c ., and for extra fine and
reamery, from 24 c . to 25 c . One peculiarity of the market here is, that
" farm-dairy cheese" week, fully as good as the bulk of factory. From 500 to 700 boxes per week are sold, and it is The market to-day ( 27 th Oct.) has been very dull and inactive, the
above those of buyers.
Dairymen come on the market expecting to
realize at least luc., but buyers refused to bid more than 123sc. to 13c., and the resill is that out of over 10,000 boxes offered, less than one thous-
and changed hands at from 10c. to 13 c .-the bulk going at 123!c. Farm dairy cheese sold at from There was a large delivery of butter, and prices Fair to good lots brought from 26c. to 27c., and extra fine and creamery, from 28 c . to 29 c .
The weather continues to be dry, and there is great scarcity of water on the farms.
Our late advices from England are that stocks ing upward. On the l+th Oct, American cheese was quoted in


## \$tork ghoter.

Mr. A. A. McArthur, of Lobo, Ont., has been one of the most successful exhibitors at the American Exhibitions this year. At the great St. Louis Stock Exhibition he carried off four first prizes and two grand sweepstake prizes for his improved Berkshire swine. He has now attained a high po-
eits
this sition among breeders. This is due to his ener-
getic persevering principles.
He met with heavy getic persevering principles. He met with ieavy by many who were in the foremost rank but now have to take a back seat.

The average prices of shorthorns with long pediThe average prices on have been wonderfuly reduced the past grees have been wonderfuly redwe and they are season, and they con dow of fancy. prices and paper
really worth. The days
The highest pedigrees are not what they were. The highest price reported this season was obtained at the sile
of the Fart of Donnmores' herd. Duhess 111 th went for $\$ 16,640$, and Duchess 114 th for $\$ 14,040$.

Mr. George Hood, of Guelph, has taken one carload of sheep for exhibition at the great fat cattle fair to be held in Chicago, U. S. The lot number
thirty of the best sheep ever seen together in that tharty of the countrs
part

Clover.-The prospects are that clover will b in Lookd - deme prospects are that clover will be
advance. advance.

 Intion of Cananian cattle into the U .
Nors.- While in conversation with one of our
leading fruit growers he informed us that he be. leading fruit growers he inforned uet that he be-
lieved the cry about apples not keeping well this lieved the cry about apples not keeping wers, and
season was raised for the benefit of deale
that apples would bring a high price in the spring. The total receipts of the Western Fair (London, The total recipts of the Western
Ont.) were $\$ 11,073.54$ over last year. This will Ont.) were
leavelus on on the year's business of from
$\$ 1,200$ to $\$ 1,500$. The long continued drought in the United $S$ tateses,
extending over the greater paxt of the country, has extending over the greater pare
made the fall supply of hon, y-producoing flowers very scarce.
very scarce.
rotatoes will give as god retur Trs for the careful
selection of seed annually as any other plant.
 remark there will be an abundant yietd.:
The Wheel of Fortune and other stambing devices were permitted by the misman agers of the Colorado state Fair; $\$ 300$ were oftered. s .
racing and $\$ 25$ for agricultural exhibit
The Wheat Croo of Minserota.- The yield
 $\frac{\text { ping irom }}{5}$ in the south-west, north, and sou th of St.
 Paul, the estimated to trage ye the best wheatgrowing States in the Union.
Mr. Newha, one of a party of ninety.t wo Eng-
lish farmers, who went to Toexas somet time ago, lish farmers, who went to Texas some $t$ ime ago,
on the assurance that good farming land. can be
 York diggusted with the land, which he he ys is it only for stock raisiog. The rest of the ninety-
two , with the exception of about twelv e, have ${ }^{t}$ two, with the excoptiton of
A writer in the London Thimes declares -what
general facts in Europeans countris sem to
justify general facts in Europeans countries seem to justify grape phylloxera (grape flea) which will not at the only feasible way wo gate venu temporara,' relief frou the pest is to root out and burn the ve nees and
devote the land to tilled crops for at leist two years.

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