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" Angriculture not onln gives 3aicies to a Nation, but tbe only sictics sbe can call ber obm."

Now Series,
TORONTO, JUNS, 1826.
Vol. II. No. 6.

## How can the Produce of Land be increased to meet a fall in Price?

Probably at this time, no question affecting the farming interests cuuld be put, of greater importance than the above ; and its careful solution surely is a matier worihy the attention of every proprietor ot land in Cunada. Lowcr prices for breads!ufis and the other staple agricultural products will unquestionably have to be received by the Canadian farmere, under the present liberal connererial policy of England, than under the restrictive tariff that has been lately repealed;and it is a matler of the greatest importance to know what colise is best to pursue to enable the agriculturist to meet his necessary and contingent expenses and at the same time pay a liberal inlerest apoas the capital invested in the business. If agricuitural operations will pay in any country, it certainly can be made to do so in Canada.

Nathe has done every thing for us that we conld in reason desire ; and although there may bu an elbing and flowing in the marketable value of agricuitural produce, to a greater degree than in former years, still it by no means follows that agriculture caunot he carried on as prontably as when we enjugted the most liberal protection in the British market. We certainly look for low prices until Canadians learn to become Canadians both in sentiment and interest. We trel confident that thiscountry is abandantly able to maintain, in a must comivitable condition, a papuia-
tion of $10,000,000$ of souls. A fair proportion of this population would necessarily have to be inechanics and artizans, whose business it would be to furnish the agricultural population with almost every description of manufactured goods that would be required tor their comfort. Ever since our connection with this journal we have beenimpressed witi the conviction, that agriculture could not prosper to its fullest extent in the Ca nadas until a united and energetic movement was made to make it a manufacturing as well as an agricultural country. The period has at last arrived, when the public press of the country can advocate the manufacturing interests, without running the risk of meeting opposition by any one at all interested in the future welfare of the country. Believing that by empluying a large share of the capital in manufacturing, which the commercial men now employ in importing British and foreign goods, would have the influence of establishing a permanent and wholesome market, for every description of agricultural produce, we have confidence in the belief that simply a change of this kind would open the eyes of the people so that they might see their true condition and learn the importance of encouraging homindustry and enterprise. Mercantile men, trades. men and farmers, seem now to evince a grea er interest in developing the resources of the ctountry than they bave formerly done; and we have good reason o hope that a large amount of capi-
tal will be invested in monufacturing operations, by gentlemen who are deeply interested in the succese of the ag icultural prosperity of the country. By increasing the home demand for agricultural produce, the external commerce of the country may to some extent be crippled, but this infleence will not be scriously fell by the Canadian capitalists. If Conada thrives at all under free Irade princtples, it must be through her agriculture and manufactures, and not as some pretend to assert, through the agency of her commerce and carrying trade. We lave not advanced a proposition in this some what rambling introduction but what we are able to defend-and in fact whether any take exceptions to those views or not, we shall fearlessly advocute the manufacturing intureste, as being the only cestain means of making capita! abundant, and of providing a steady and remunerating value for every description of agricuitural produce that the agrtculturists may have to spare. Wahout further prelininary remarks we shall briefly state how the produce of land may be increased to meet the lowness in price that may be anticupated through the influence of the operations of Sir Rojert Peel's liberal tariff. It is difficult to conjecture what the average price of wheat and other provisions will be under the new tariff, but from the best data we have to found an opinion, we should judge that the value of wheat in years of plenty like the present, would be about three shillings currency per bushel, and other articles of agricultural produce of a corresponding value. Many will doubless startle at such unwelcome news, and will say, that the farmer cannot keep his head above water under such prices, but to such we would state, that they would do well to quit their fears, until free trade operations have had a fair trial. The system of furming at present pursued, and the monner in which the monetary al. fairs of the country are managed, will ill comport with the genius of free trade. Bat there is not the least doubt, but that the whole machinery of the country, or at least such paris as affect the industrial resources, moy be placed upon a sound footing, so that the Garmers and mechanics of this fine province may defy foreign competition.

There are wany influences at present that bear Learily upon the pioductige inderest of the country, all of which shall receive attention at our hanils 23 scon as a favourable opportunity offers. te foc manativio we difect the affantion of gux
readers to the following excellent temarke from a correspondent of the London Agricultural Gazette, which will be found to have a practical bearing upon the main point at issue:-

You said you would be ghad to receive my comments on our farming. The report is very imperfact; still you will be able to understand my object, viz., by solling the cartle, or house-leeding, to keep as large, or a larger stock than is now kept, and grow more coll than is how grown. It is surprising the acreage tequired for 12 to 14 milk-cows out of a farm of 100 actes.-Richard Darker, Whitehaven.
"How can the produce of land be increased ro meet a fall in price ?" I answer-first, by preserving all manutes which now run to waste, and increasing the efficacy of these manures. Secondly, by keeping the stock in the house all the year os far as possible, thereby producing more manure, decreasing the breadth of pasiure-land on each farm, and increas:ng the beeodih of green crop and white crop, these being the sourcts whence the farmer pays his rent. I shall confino myself as much as possble to authornies bearing on the questions, to satisly you there are fair grounds for believing that by inproved husbandry an average price of $\$ 5 \mathrm{~s}$. per gr, for Wheat, with other products in propostion, would enable the farmer to pay his present remt and be better off ibn he now is with a price of 55 s ., by applying the same skill and enterprise 10 land that 19 applied to manufactures. First, then, "What is the value of the manures now wasted in this country ?" I always like to give the opinions of other persons on subjects of such rital importance as the one which I am attrmpting to discuss; and as Mr. Hannam has beenengaged for a length of tise in making practical experiments, and has general judgment as a chemical agriculturist and a poltical economist, is so well known, I shall quote him as an authority for our increased wall. He says-"We learn, acenrding to the calculationa of the Poor Law Commissioners (on the sanitary condition of the peuple), the increase of the population in England is 230,000 per annum, and that this is an increase reguiring annaolly tenements; 27,327 catzle; 64,715 lambs; 70,319 sheep; and 7,894 calves, whinh is equal to the produce of 81,000 acres of pasture land; and, at 56 oz . daily for a mon, wife, and three childrens 105,060 quarters of wheat, equal to the produco of 28,058 acres of land, at 30 bushels (which is more than the regular average) per acte. Being nltogether the produce of 109,000 ncres of good land required every year to fecd the increace of our population."

With respect to waste . nures, which is who subject on which we are now treating, Mr. Man. nam says- "That the question of the cconomy of these matters is one at the present period of preuliar interest and importance, and will eneblo as, in some degree, to accorplish an object which we have showa to be of naticalal impor-
ance-the production of a greater quantity offood an less cost to the community than at present."
Thiz is one means whereby the farmer may, in eome degree, lessen lus expenses and incrense his returns If Inm paying for that extra produce which 1 might by judicinus economy oblainat no rost null nim in fart farming badly; if I neglect the waste momeres no my own farm and buy no other ather, Inm not producing ns much as pos. sbie ; and if I huy marure, I nm not producing as etipopy na maseble. There is another tem to In wheth 1 ti g'tl call your attention, that is the dramagr mira the shoda, whict, enys Davy--"Contains the ess ntral elements of wegetables in a vate of solutuon. The analysis of unne will exphan this ; acearding to Sprengel, of 1000 partis, of cow's urme, 926 are water, whte of the remainmf 74 paris, 40 parts arr organte substance, contaning a large porthon of nutrogen, which it affords the ptants in the shape of ammonia."
"The value of liquid," says Leturs," is when a monure is wanted wheh bloll supply natrgen to the suil" And when we consider tha, by every pound of ammonin whech evapurates, a lase of 60 lbs of wheat is sustaned, and chat with every pound of urne a pound of wheat might be produced, that each cow kept in the house would supply many hhds arnually. the indifierence with wheh these liquid excrements are regarded is incompreliensble. The dramage from the manare heaps is scarcely less potent than that from the sheds; it is, however, certanly not less valuable, as it coneisis of ur,ne and a solution of the richest atatier of the dung and compost. Willa be beheved that the manure heap loses no less than half of the ferthising properues, which, but for mismanagement, it would otherwise contan. The amnuat of loss which farmers sustan in this way is lamentable. Add to this the whole of the liquid, wheh is of more value, if praperly oppled, than the sold, as it comazns twice the gunnury of nurogen and all the alkabine salts. The eng of Straquare, wheh is situated in a corn conntry recelves $12,000 l$ per annum, which is equal to 10 s. per head upon the population. This nono in Great Britan would annmat to 13,500. 0001., and on Engiand alone to $7,500,0091$. This is independent of the loss which is sustaned in mar farm-pards, which would amount to even a stul greate: sum. The amount and the qualty of manare which might be obtaned by the farmer from our gas works, would be something very cons:derahile. There is no less than 7000 gallods of ammonial hquid annaally thrown away at our gas-works.
The autho: of "Oudines of Flemish Husbandry" says that, "We surpass the Flemish farmers reatly in cap, tal, in vacred implements of tillage, in the chnice and breeding of catcle and sheep, and the British farmer is, in general, a man ot sapprior educarion to the Flemsh peasant, but in the munde altention to the quatitues of the ant, 3 the management and nipplicaum of maaures of difierent kinda, ing the judicious skecession of crops, and especially ia the economy of
land, so that every part of it shall ha in a senstant state of production, we havestill somithing to learn from the Flemings; bus the nuxibary of the Flemish farmer is the tank wherein are collected not only the liquid from the cows and horses, but also the dratumgs of the dung-hill;" which to the discrace of ourselves as n mople, are allowed to run down the diches, fertulising as thry pass along, the ground which sa appropriated to no purpose. These tanks, whech nre abous jeizht feet square, are trequently covered over wath loose buards. The. Flemishi farmer would as soon think of dispensing wath his plaugh as with his tank. The system of Flemish husbandry is well worthy of our attention: "The number of beasts fred on a farm of which the whole is arable land, is surprisug to those who are nor acquain ed with the mode in which the foon is prepared for the cattle. A beast for every three acres of land is a common proportion, and in very small occupatione, where much spade husbandry is used, the propotuon is still grearter. In every farm a fifh as heast of the lond 13 sown with 'I urmps immedsateiy after the harvest. Carrots, which have been sown in spring, either alone or amongt the Rarley, Flax, or Colza,complete the wanter's provision."
fifere we have a bref summary of the merise of Flemiah husbandry. The cows are in the house all the year ronad, except perhaps on fine days for experesse. Two cows are kept for every six acres of land, that is, thirty-three cows for each farm of one-hundred acres, nad yet the land is all under the plough, and producing yearly heavy crops, minnained in this high cundition by the liquid manure tank aud cart alone; for they pay but little attention to sold manure such as we make, or raher it gnes into the liquid as it is made, because they wil-not waste straw as bedding. Thus is an immense incrense on the stock supported upon farms of the same extent in ths country, and at the same time growing more corn; but there is also another feature in thoir hushandry almost as important, which 18, that they endenvour to obtain an extra crop from ong portion of their land every year. As their cattle are supported throvgh wipter on roots and straw (considering hay :oo expensive,) they sow late Turmps, and" Rape or Vetches, "immediacely affer hafvest" They also sow Carrots betwits the rows of their Wheat and Flax-both drilled -and these cropspushed on with their "liquid," yield a produce that would surprise any farmer who has neverused thes manure. Their summer feed is almost universally Clover. As I passed through the country from Brucsels to Bruges in the monh of October, 3843, I s2w Carrots and Cabbages growing whence crops had been taken. which very clearly shows that by growing more hay under a five-course rotation, our cs:tle would always be in goed condition, our manure rich, and a large farm could be almost as easily man. aged as a small one. The smail farmers migat adopt the four coursic ici., lion afier his land was. in good heart, and theteby increase his profit.

Morthumberiand, N. B. Agricultural Societs.
The Gleaner of the dih Aprul contans an Annual Report of this Society, whuch has been ably drawn ap, and shews in a most conclusve man. ner the benefits of ngriculural societies. The legislature of New Bunnswek has appropriated a large sum of money fur the purchase of, seed potatoes, which are to be distributed among the Cirmers of the several counucs of the Province. It omens well to see so much interest teil in the cause of agriculture by thuse in authonts, and we : hope that the farmets whll apprectate such add by giving due diligence to buestess, and pracucong such improvements as will pay a handsome interest upon the coputal invested.

Agricultural Cluts and Colleges are highly reconmended on the report, and as the vievs set forth are such as we higlity approve, and as those matituuons, if carned out in conformay to their true spitt, are calculated to give a simulus to theiragriouse It a itaproved agacu'sure, we have thought at proper, schools of Scotand and Ireland, Agricultare is to copy the following exracis. Our readers whll!now taught just as any other science; and in please bear these muortant topics in mond, and England a College has tately been erceted in if poseble exert thear anfuence in havarg those Wiltshire, solely for that purpose. A Catechism pairotic instatutions carredinto pracuce an therr several localaties.
"Few men enjoy the advantages which farm. ers do. Freed from the feverish and tietful life of speculation or ambition, to which so many around them are su'jected, the fammer, while hoidng his plougit, or casting his seed into the gromed, enjoys fit seasons for meditation; and during the vinter evenings finds abundant leisure for intellectual pursaus; but it will be admitted, that notwathitanding ail these advantages, the mind as seil as the body of not a few of our farcuere, is totaily unemploged, durng the evening of many a wruer's night. The Board would therefore point outs a field, on which farmers may spend a portion of this leisure time, and expect to reap an abundant hervest, is the shape of va. luable information. In the Agriculurat D.stricts of the Northem Countries, the American States, and on the Continent of Extope, there have long existed what are called "Farmers" Clabs," or "Conitrence Meetinss," at which withall the freedom and familiarity of the fireside, each farner offirs the dictates of his evers-day practice, and the results of bis own experience. What is 1kere then to prevent the establiahment of such maneting in various sections-of.this county? Muchuis introduction."

## Revolving Iron Fanning Mill.

Mr. Natulew Jones, Secretary of the Darling. ion Agricultural Society, desures further information about the Fanning Machine deserrbed in the September number of the Cultivator. We inadvertently omitled toguve credu to the arucle in guestion, but believe it was copred from the Gouthern Caltivator, pubhshed at Augusta, Georgia. The desciption given in our journal was so plain that any moll- wseghs could consusues is. We are unable tu further allustrate the principles of this machine, but we fancy that it would not be a difficult mater to builis one from the drawing, that would perfurm all that the wrterstated in its favor.
The same corrospendent is anxious to purchase a Reaping Machine, and desires us to furwish him with any additonal information that we may be in possersion of. We would beg to state in reply, that there are six or eight patent reaping machines in different parts of the Untted Siates, each of whin differs so maternilly in us construction, that the inventors have secured an exclusive right to manufacture them.
The following extracts are taken from the Newo Forl: Farmer and Mrechanic, which will serve to illustrate the principles of a machine invented the past summer.
"It scems to us worthy of the strong recommendation it has received from the farmers in teat vicinity. It requires two hors-s to work it, and will cut about four acres in an hour It is adapted to stony, uneven, and side hill grounds.
I claim, says Mr. Woodward, the fullowing sdvantages over other machines:
First. By the conabination of a sheaf-bos within the platform, I ain able to cat 9 feet or more in width.

Sccond. I can raise or lowermy machine from 4 inches to 3 feet-cutting at these and intermediate heights.

Third. The grain is left in grips or quantities the right size for sheaves.

Fourth. The machine can be introduced in any part of the field wisbout cutting a place for the horses to walk.
Fifhl. It can cut a wisle field of grnin. before any of the sheaves are bivind.
Mts. W. in'orms us that he has cut bercknbra' which was so small that it was not worth cutting with the scythe. The knives are on the self*hargening principle, and.are eet-in motion by
coy-wheels. The price of the machine is aboust, \$125."

## Tho Art of Palnting.

"Compounding Colors.-White is considered as not only a principal color in painting, but the base or foundation of all light colored paints. White lead is the principal white in use, though a more deitcate whene, called fake white, is used in ornamental worl. Several common colors, known as lead color, \&c., are produced by mixing lamp black with white lead in different propor-tions. $\Lambda$ emall quantity o: Prussan blue, finely ground and added to whate lead, constitutes the common sky blue. Minute quantities of biac and yellow added to whue, produce the delicata pearl color, much in vogue in parlors and halls. Straw color is produced by the addition of a litthe chrome yellow to white; and pea green by the addition of Paris green. A beautuful highs: purple, or peach blossom color 18 produced by adding to whise lead, small quantines of ultramarine glue, and drop lake. It is needless to specify the exact proportions of the ingredients in these compounds; the only rule benng to add the colonng. ingredients in manute quanuthes, till the required color is produced. Tlite most common color for floors, is composed of white leal and yellow ochre, in about equal quantaties by weight, with the addition of one ounce of red lead to each pound of the mizture. In painting carriages or ships a variety of compouide colors are used, a few of which may be here noticed. The best black is composed of lamp black and Prussian blue. A. dark green consists of a misture of chrome green and Prussian blue. A brilliant plum color is produced by a misture of lamp black and vermillion. Olive color is produced by mising lemp black and chrome yellow. A brilliant orange coior is produced by mixing chrome yellow and orange lead-a pigmerit similar to red lead, hat mose refined.) A stone brown is composed of lianop hlack, yellow ochre and Venetian red, equal parts; the addition of white to this compound reduces this color to a drab, or a light stone color. A mixture of lamp tlack wish Venetian red, consitutes the chocolate color. A bright rose color, which is much used in ornamenting, is composed of white lead and drop lake. As a general rule, the colors should be mixed with oil and groand separately, before being compounded, or mixed: togesher; but should not be diluted any move. than is requil $d$ tor grinding, natid the celor-inu. perfected.-Scientific American. -

Now York Agricultural Warehome.
A descriplive cataloguo of Horticultaral and Agricultural implements and too's, and field and garden seeds, with brief direcions for plaming, and sowing, and rules for he appication of guano, lime, plaster, bone dust and other manures; and also a choice hist of fruit trees, with directionsfor planting and culture, with a description of the beat brepd of dompatim animing, has been sent us by A B. Allen, Esquire, the propnetor of the New York Agricultural Warehouse. Mr. Allen is one of the ablest advocatrs of impruved hus. bandry, and appears to be we'l suppotted by the American farmers and mechanics, in the vatious useful enterprisesin which he is actively engagrd.

The Agricultural and Mechanical Warehouse, ander Mr Allen's able supe antendence, whih prove a great acquasition to the producave antereste of $f$ our neighbouring country. The list of farming implements, seeds, \&c., whech are alrady on hand at the warehouse, is not only extenstre, but on the whole complete; in fact there ss not a vingle article that comes within the province of Mr. Allen's business, but what may be had upon the most reasonable terms for cash.

Our priaciple object in atracting attention to the New York Agricultural Warehouse is, 10 show what has been so praiseworthily aicomplished in the great commercial emporium of the Empire State, and to simply'ask the question, whether it would not be to the interest of the agricutural community of Canada to establish a similar warehouse in sume central position in this country? We have no desire to embark in such an enterprise, but no doubt some enterprising individual could be found who would give his attention to it, in a manner that would secure success and also advance the great interests of ogriculture and agricultural mechanics.
Tho goods on sale in an agricuitural warehouse, are sold almost exclusively upon commission. It therefore will not require a very heavy capital to conduct an extensive bus:ness. We frel satiefed that an Agricultural Warchouse, conducted upon the principles of the New York establishment, is much wanted in this Province, inasmach as Agricultaral Societies and enterprising farmers, are at present much' put about to -obtain the agricultural machinery, seed, atock. fruite, \&e. that they require to purchnse from: year to year. The farmors of be Un"ted Slates
and Canada are much indebled to Mr. Allen, for the patriotic zeal which he has nobly exhibited, in giving facilitirs for ite sale of every description of goods appertaining to :mproved agriculuto.

## Provincial Agricaltural Saciotr.

Thase whan arefir $\bar{J} y$ tu be organsation of
 be d fightat iv leal, hat the primary steps have bren takm, to ermblathe institu'th. At ths Home Ditrict Secirejs trating, hatd on the 13h of Mry hast, tio Proul of of that iastitutiono E W Thang $\cdot \cdots$, Eirf., troceret forward the folhowing resoly inn, whith was ui.animously carried
Resoltod that this enc: $\cdot$ y's of ofenion that the conser of a rim!? greativ promntod throush the agoncy of a Provimeial Agrien'mond Soristy, and in order that the various Agricultural Sccietirs in Canada West should have a wice in ite proper organisation, his society is of npinim, that a meeting ai delegates from each of the ganeral and local $A_{\Sigma}$. ricultural Societ tirsshuold be called at the earliest possible oppertuni'y; and in arder to carry thls object into effect, that G. D Wells, Esq., W. B. Crew, and W. G. Edmundsoa, form a Committes to appoint a period and place of meeting, and atso to open a correspondence with the several Agriculdural Soctetes in Canada West, endicining therr co operation in the proposed gereral orgaxisaturn.
The advantages resulting fom a Provisel: 1 Agricultural Asesciation bengestablshed in each of the two grear divisons of tits Province, have been so repeatedly and fulty decussed in the columns of the Cultirator, that at this tine $=$ in who thave g.ven the satyect therr serious attension, must feel prepared to second sny rational movemeat that would appear atkety to bring about itu complete organsanon. A: sections of the country are to be benefitted ty ats operations; therefore all should have a vole in its orgmisation. Thisa can be done through efficient delegates; and it is to be hoped that no society in Canacia will neglect to be represented at the approaching meeting. Owirg to the ammense prese of business in hasds, we are unabie persunally to write to our fuends golicuing the:r co-operation in securing a gergeral representation at the propood weet.ng of decgeses, and have entrasted wet
part of the business to Mr. W. B. Crew, who is abuadantly able to do justice to the subject. If, howeiter, any sociery should not receive Mr. Crew's circular, tney will neverihelegs (we trust,) take the proper measures to have tien society represented at the convenuon of delegates.

In the hope of being able to have a Provincial Show in the euriy part of nest autumn, the com milte have concluded that the convention ehould sake place on the 15ih, llith, and 17 sh , of July Hext, at the Court House in the City of Toron:e.
The great distance wheh the inembers of the minutes, the stratner is then epread in the cheemecommittee reside from each other tas rendered, basket, the whole mass put inso $1 t$, breaking is at aimost nmpossbte to present to the puble any up as the whey drans out. A pail of cold whey oficial circular ; but it is to be hoped that the ${ }^{3 s}$ then put on to cool it. After being sufficiently explanation previousiy given, will render such a drained, it is returned to the checse-tub and course unnecessary. The oilicers and managers, ealted, one gill of salt to 16 lbs . then put into the of: Every Agticumal Society in the Province wh, tuop and pressed whith about half of the proper suve the oppontunty of reading this nouce, and, weight put on, wil near night, it is then turned, we trust. that all wat oct in unison with us sparat, the who'e weight put on, and pressed until nexa and mean:ng. If would, we icel certan, be lughly cratifying to all whotahe part in the proceedings of the meenng, to see a number oidelegates from the agricultural societies of Eistern Canada at the convenuor., who would after witnessing the proceedings, be better abie to judge of the adapation of such institutions.

## Cheose.

It is diffizult to give intellighble written directions on thes subject, as success depends so much on experience that it requires practical teaching; buc when this is not to be had, we must make np by care and observation in practice, what is neecsatily deficient in theory. To make the chrese of a small dairy-say eight or ten cows which would produce seven pals of milk per day, which if properly managed would make twenty 3be. of cisecse, I give the following rules: one poont being constantly objersed-mat is tempe-ature. as too much heat not oaly affects the gaatiy, making tt hard and poor, but diminishes the ģantity. The mulk when set for curd, should be at 90 degrees, or sbout iwo degrees teiow milk heat. The rennet is then added, swe or three spoonsful to seven pails of milk. The exact quantity can only be ascertained by sfying its etrengih. If the proper measure has thes: ased the curd wall be fit to break upin.one aour trons the anne it was set; whicia mazy be cane with a long handiod skimmer or curd treake3. This proat by dose verp, gevtly if appid lare wot.

## Thlore.

As the question as to the advan:ages of lime is now determined on all sdes, 1 may not be very iuteresting to the practical farmer to go into any examination of its merits as a manute, but there may be some men of thes clas-and there may be many but recently engaged in agraculure -who would like to know comethang as to the theory of its operation-as to the tme when at should be used-as to the manaer of using $2 t$-as to the quantisy-and as to the had of son on whicit it should be used. All these are maters of great moment to cultivators of the earth. Mature appears to indicate the value of lame, by pulting it in some form into all soils capable of being cultivated. All we have to do ihen, seems simply to continue by artificial application, wat alue designed should never be abient; and $m$ this way to renew that which has been removed and exhausied by cultivation. Directed by thissimple fact, the farmer must proceed next to determine as 13 the other points that we have mentioned, ad being matters of importance. Lime has both a physical and a chemical action. By the first of these it divides soils and opens thern to the inAuence of the air and moisture; this is one of the cources of its value as an afplication to clay grounds. By its chemical action it decoraposes or hastens the decomposition of the humus, and renders it capable of being absorbed by the most ${ }^{i}$ mmute fibres of the roots of plants; and is also ! surposed, by the carbonic acid it contsins or draws from the atmosphere, io act specifically on some plants, and supply shem with nourishruent, or it may be that there are plants which require carbonic acid for their active growtia and vegetation, aud thence display ; a more marked manner the efeets of hane, when receiving from it an additional amount of nourisbment. Johnson, in his Agricultural Chemistry, says:-"The results of all the chemical examinations hitherto made in regard to the nature of the inorganic matter contained in the sap and substance of plants, indicate-if not the absolute necessity of lame to the growth of plants-at least, that in nature all culupated plants do absorb it by their roots from the soil, and make use of it in some way in aid of their growth." Admiting the entire truth of this statement, it proves that lime is
indispensable to a high degree of fertility and

- Jusuriant vegetation, and that without if, land must become less productave, umal a sinks to at-
solute sterility. Thia remark is intended to apply to cultivated grounds alone, where c:ops are every jear tahen from the ground, and the hone it naturally contann, in thes way removed, while no artificial adduon $1 s$ made. As to the quantuy of lime that chould be thrown on land there seems no fised rulc. We have never heard two farmers agree on this point, each one, no doubt, bengiaHuenced in his opmon by has own capertence, and not by any general principees or observatione. From iorty to a hundred buathels to the acre, appear the quantity between which farmers in general vibrate-some ansertugg very positively that the first amount isenough, whle others with equal strength, fay that no ads antage canbe derived from less than a hundred bushels. Both these op,inions may be correct, if the carcumstances under whach the application is to be made are considered; but we reach no conclusion and attain no princople to gonde us, as a general rule. It is neccasary, in the first place, to know the character, condition, and circumstances of the boil, to which the apylication is to be made. Newly cleared land, containing, as it must, the vegetable deposits of years, perhaps of ages, will bear a very large dressing of lime, as there is an immense amount cf vegetable matter for it to act on ; the whole of which it desolves, and fits it, more rapidly than would be done by the slower process of natural decomposition, to becone the richest and most lasting of manures. Of course, land the next best sutted for the reception of lime, will be that conraming a large potion of regetable matter, though not equal to that of recently cleared ground. ands containing clay, will bear fir larger dressings with lime than the sandy; while newly dramed ground and marshes seem to require the very largest and mast frequent:y repeated applications; and ne.at to these, those that are by datiners known as sour sails, which contain a guantity of some of the acids that exist in all soils, and are cextremely prejodicial to veretation when tuo abundaut. We have hatle doubt that the stuation of our fields must be conssdered, whether on low or high gronnds, or whether exposed to the north or south. In a climate like ours with a acorching summer sun, the sudes of hills lying to the south. will in stasons of drought suffer extremely; while those to the north wall hard'y feel it. This may have been observed in Chester county during the last iwo sumuers. As a general role, thosu fulds
with a southern exposure, and which have the whole force of the sun through th hottest past of the day, Nhould, it appears probable, have less lime thrown upon them than those to the notth. Thens last would be cooler cid moister in such sessons, and have a considerable advantage over the others; but taking a number of years torether, those to the scuth, from having the full influence of sun and air, and greater equality of enaperature, would be the most productive. But as is is impossible to anticipate seasons of drought, the farmer, as a general rule, cannut dootherwise than manure all his fields ahke, without regard to their stuation, or whether they lie to the north or the south ; but if there is any truth in the remark that we have hazarded above, then he will know how to govern himself. Still the question relurns on us, as to the quantity we ought to apply. We may evade, by as many negative circumstances as we please, the clear and straigbt formard reply to this question, still we have to meet it , and who is there that can answer it 3 It seems one of those questons to which no one can gove anything but an evasive reply. No matter to whom the question isput, whether to one even who has had the experience of a life in agraculture; he can give you no other answer than that It depends on the quality and conduon of your land; and this leaves you exactly where you were before the question was asked, so that if you happen to be engaged in agriculture, and somewhat new to the business, you mast grope your way as well as you can, throwing the lead along the shore of your doubts ahd conjectures, till experience at length puts you afoat. A few general principles are all that can be offered to guide the young agriculturist. We have already given them, aba he may rest assured that very ferr, unless they lave been precisely in his circum:stances, ean do more for him. But in this question of quanlity, there is another involved of almos: equal importance; and here will be found the same difficulty in giving decisive and determinate replies as in the case of quantity; it is as to how ofen lime shculd be applied, whether in smaller amounts, at short intervals. We have very little doubt that the last is the best mode of proceeding. But we must be understood only to epeak generally, particular circumstances must be met by particular modes of action. If one clears a piece of ground where there is a large amount of undecomposed vegetable matter, he may and
ought to throw or a large dresing of lime, and if shis land is not cultivated, but remaina in grass, used, we mean for grazing alone, then it will not require more for several years; but if crope are taken from the ground, then we are under the imperative neceesity of replacing at least as much as we withdraw. From these remarks we can draw two general conclusions, the ane, that on a virgin soll we may put a large dreasing of lime, and be periectly surn that we are doing right; while on land under cultivation, we need put no more than will preserve its fertility. Also, that in the first case, the liming need not Le repeated for a long time, while in the other case a heary dresing at first is unnecessary, and that the liming had better be at short intervals, and not in large quantitieg. We are inclined to think from what we have geen and know of the management of land in this quarter, that 100 mnch lime is generally put on, or perhaps it would be fairer to say, $t 00$ much in proportion to the barn-yard manure used. Besides regarding lime as a nutriment to plants, and a necessary aid to their vegetation, we must also regard it as more or less of a stimulant. The not keeping this in view, has, we are disposed to believe,occasioned a good deal of the murmuring and disappointment that may be heard notunfrequently expressed, as to the effects of this agent. Lime requires something to act on, or it will be of very little use. In long cultivated soits, in which the organic matter has been exhausted, and not returned by farm-yard manure, lime will do more harm than good, or to state the thing more strongly, it will lead to barrenness. It is in this matter of barn-yard manure thut our farmers ingeneral are deficient. They do not treasure it with sufficient care or attempt to increase it with sufficient indastry, aud the little they have they spread over too much ground. This carelessness not only tells upon the crope, but leads to dissatisfaction in the use of lime. From there not being vegetable matter enough in the ground for the lime to act on, it of course fails, disappnints, ind spends much of its foree in stimulating instead of fertilizing; thence we are driven to the conclusion, that farmers use lime too liberally and too freguently, and that is would be better, while they remain inattentive io vo their batn-gards, in filling them with the meape of enriching their lands, either to put on lese limes or to repeat it at longer intervals.
The practice of England will be no guide to ne
ir this matter. There they throw two and three zandred bushels on the acre, and find an advanrage in it, probably from the clayes nature of the aoil; while in France, sixty or seventy bushels, repeated every seven or eight years, are thought enough. In otherparis of Europe, le9s than this, and at intervals of ten and tivetve years, is found to place and preserve the soit in a fertule condution. So that as we have already said, the practuce of others, whether individaals or natuons, will not asist us, or but vory butie, unless there is an analogy in the circumstances. It would be a matter of interest to know how much lime is ! withdrawn from the land every year. If we could ascertain this with certainly, or any thing ap. proaching it, then we should be able to tell dow , much lime was wanted each year, and whether it would be totter to apply it at long or short inter- ! rals. One thing we presume will be conreded, that land only requiresa certain quantily of lime in bring it to the highest degree of fertility that ${ }^{\prime}$ is possible by the meuns of this agent. Now.! who shall decide whether this shall be attempted by applying one hundted busheis to the acte, and in this way amm at success by a bold effort, or whether we shall undertake it by a more gradual process? If the first quantity is thrown on, the land receives a surfeit, from which it does not reoover for sometime; in other words, it takes sometime torso large an application to be assimilated with the soil, while with a smaller amount we gain the same end as rapidly, if not more so, and far more prudently, for we feel our way, and watch the progress of our land towards the degree of fertility we are endeavouring to reach, and in chis way mark the action of the manure, andstudy the capacity and condtion of our land.

We presume that one of the sources of complaint amainst lime, comes inom ite not showing its effect wilh sufficient rapidity to flease the burried and excited hopes of those who app'y it, and it is perhaps for this ressen that they heap on large quatatitics to meet thearimpatient eapectations.
It as seldom, if ever, that this agent talies the srouble to try to make ats:if popular by actung int a harry. It has, in the first place, to make the acquaintance of the new freend to which it is just, introduced, and at may be a considerathe ume before their tastes are foand so congenial os to admit of the reserve and hesitation of a first approsh, ripening into tise warmith of friendsaig. (probably be very late diterence of opinion ca

Two or three years may pass over-in one case we heard of five-before much effect is observed, But then during this period of apparent inemness, it is very far from dong nothing. On the contrary it is hard at work, acting upon all the meterials about it worthy of its nonce, or destined by nature to and it inthe great end of cultevation. These may not, however, be in a state to be easily rapidly affected by the lime. Much will depend of this, not perhaps as to the ultumate purpose, but as to the effecis of the application being more or less unmediately perceptible; and If its influence were rapd, it is clear that the intervals of its application must be short. While one of the great recommendanons of thas material is, that after a sufficuent quanuty is put on the ground, the farmer may fold lus hands and mark hoov beautifully it will unfold the frrilizing and rich qualities of his soil.
There is one argument against the use of large quanuties of lime at a single dressung, unles when authorized by circumstances, and in favor of small amount at short intervals, that is perhaps worthy of notice. Every me who has seen fields ploughed laat have been haned, must have remarked the very considerable quamuy remaining below the sarlace, and at some depth. Is not this an indication that more has been put on the ground than was of any usc-more than the soil could employ? and if so, this portion is alrown away, for it lies on the sabsoll, out of reach of all crops, and pating at a very sullen defiance all cultication, unless we turn it up by deep ploughrig, and with at the virgin soll on which it rests; a pracuce, that although eminently useful, most farmers oppose. A superficral working of the earth is more to their tasteby which predilecuon the g lose thas manure, that has fallen some six molirs or more out of their reach, and we have lulte doubr some portions of wher d.essings, that have substed untal they came upon a compaci inert subsoll, irat did not allow of any fartiter achoa. L ine, as well as fother manures, must be near enough to the sartace to be acted on by the ammosplare, nnd where 11 has gravitated lowards the centre of our orbas above mentoned, it is veyond the influence of , any actoon-or agent known to man. In the remarks that we have made, we have had to ercounter great varieties and great diferences a opinion, in the few that now temann, there will
reconcile. In the application of lime, the first great and indisp.nealle end to secure, is its complete incorporation with the soil To effect this thoroughly, the lime must be in a state of veiy fixe division, as ch $m$ cal action takes place only alightly and imperfectly, whre the particles of sodies are not as minute as it is possible to make them. The mannor of making the application is therefore of grat imporsance. Our mude of doing it is, it has apprared to us, somewhat too careless and inartificial The throwing it from n cart, very ofien, as we have seen, in a hight wind, is a.mode ofd stibutio n fur too slovenly for any one who wishes to attain the character of a neat and careful farmer. It must in this manner be far too unequally distributed. The throwing it in heaps, and then spreadug, is no doubt far preferable; it may take more time and labour, but does it not secure the object every farmer has in riew? But what would be better than either of these comman $m$ odes of spreadug this manure, would be sume machune on whers, or attached to a cart, that would dust our fietds as it moved along: an menemon of thas find would distribute at equally over thr gromad an Itell the farmer the exact quantery that he had used. It seems a prevailing namion $m$ parts of Europe, that lime is of much more use when thrown on a fillow, than when put upor the sod; and we have no doubt that it effects one ingortant object, better in this waython in the other-ihat of extirpating weeds. A good dral of habour is necessary in this mode of cultivation ; aflor the land is fullowed and harrowed, an I the lime spread, it is then harrowed again, and hin plowed with a very shallow fursow, to bary the manure.

Feb. $2 \mathrm{nd}, 18.45$.

## A. L. Elwsy.

We are indabisa to the American Asricalturist for the drawing of a Maschastis Bara, which will be frund in this nomber of the Cuitivator. As many cf our resu-rs are partial to piclures, we bave.determits a to treat them with such as would be uscful as wall as crnamental. The ctyle of barn bere represented ii hi_hly spiten of in those parts ef Canadz whare thes have bnen built, and so far as we are ahte to julde co their marits, we should consider then the bist and most convenient barn la use.

Parta Agncolitural Socisty.-The Catle Sing of this Sxeiety will be held in Perth oa Tues-
day the Gth October next. The premium list aypcars liberal and embraces almest every articlo af agricultural produce and demestic manufactures, A part of the premiums to be avarded will corrsint cf agricultural bocks. For the information of the committee we weuld mention, that we afford the sccend and third vols. (old series) neatly bound in ctie; and velume 1. (new serics,) fer the very trifling sum of 3s. 9d. each, when crdered by Agricuttural Sccieties, or by persens in trade. Scma sccicties have not yet adcpted the plan or furnishing their members with a cepy of an agricultural pericdical; probsbly such wculd find that they would greatly promote agricultural improvemeal, by encouraging the circulation of such werks.

Potato Picier.-A subscriher requests inform tien respecting the potato picker that we noticed in the list volume of the Cultivator. In reply to his enquiry we wculd site, that the mechine we crdered nerer recelicd us, but we underst nd that it rrived s fey t Mentreal. It passib'y m y have jurncy d into the Cnited St:tes; this cpinion is $f$. mod from the fact thet a similar machinc bas I tely made its appearance in two cr three sections of that ccuntry. These who require further infer$m$ tion in rel tion to the pot to picker, $h$ d better write to Mr. Watts, Ficderickton, N. B., who would $n$ n deubt fuvor them with any prticulars.

Newo Method of Clearing Feathers from theis Animal Obl.-Take fur cuery gailen cf clear water, a pound of quick lime; mix them well tegether, and inhen undissilved lime is precipited in fine powder, pour cff the clear lime water icr use at the time it is ranted. Put the feathers to be cleaned in another tub, and add to them a sufficient quantity ci the clear lime water to cover the feathers about 3 inehes; when well immersed and stirrcd therein, the feathers when tharcuzhly mestened wall sink duwn-und should remain in the lime water three or four days; after whed the fcul liquor should be separated from the featiors by layng themen a sierc. The feathers should be afterrwards well washed in cleaa watcr and dried cn nets, the meshes bcing about the same fincness as thze ef cabbags sels. The foathers must, frem time w ime, bo shaten on the nets; and as they dry they will fall throogh the meshes and are to be collected for use. The admission of air will be serriceable in the dit? ing, and the whoie process may be completed in absut three wecks The Peathers, after being thapg preparcit, wili want nothing more than besting gor use, citherior bods, bisitrros, pillows, or eumbione -Am. Farmer.

## On tho ase of Iinseod.

In Norfolk generally, and in many parts of other counties, the use of Linseed, to fatten butlocks and sheep, is beginang to be understood. Many suppose that they ate sufficiently acquanted with its propertus, but we have yet much to learn as to the extent ot at value, partuculariy for rearing store stoch in combinauca with box-feeding and summer grazing. The direct advantage is seen in the rapid progress of the catte-the indirect, in the superionty of the crops where the manure, thus obtaned, has been applted. Fermerly, through ignorance of management, Lull ceed, as catle-food, fated to remunerate, and consequently its use had long been discontunued in this country. But, dunag the last four gears, the demand has been greater than the supply. An incontesuble provi of the efficacy of Lanseed compounds: Many farm-premises have been. metamorphosed through the conversion ot sheds, into boxes, and the addition of new ones; not by amateur tarmers alone, who are too often ma fluenced by plausible theones, but by men of long! experience and sound judgment. I subjon, waih much satisfaction, an esaraci from a letter by Sur C. Burrell, Bart. ; and those of many other landorpners and tenant-farmers I purpose to enibody in my forthcoming work on the cultivation of Flas, the fattening of cattle upon native produce, \&ie - -" I canaot lose the opportunty of repeating my entire satisfaction derived fiom Mr Warnes's bos-feeding system as set furhan bis pamphlete, and brought into toth summer and winter practice on my farm, the beasts thriving | rapidly on the compound inode of crushang Lin-1 seed, with Beon, Barley, ot other meal boiled and formed into a mass, with which my beass have thriven more advantageously than oiters on oncakr, and at lris cest and, as regards the excerlence and flavor of the meat, it is superior, and specially tenderand juicy. I have sound groands for preferring the box-feeding system to every other mode; the food being cheaper, the catile thriving faster, and the dung made being so much better, that we consider 12 loads thereof equal to 20 ioads from oil-cake fed beasts, whether tied aporotherwise.-C.M. Burrel!." W.W.Whitmore, Esq., of Dudmanston, Shropshire, is engaged in transforming a barn into a double, and some adjoining bullock-sheds into a single row of boses, with lofis for provender; all which, communicating with the coming-honse, originally a
dairy, form a complete establisbment, and at a cost comparatrely somamal. The genteman's plan embraces 40 boses, cupable of containang 50 or 60 bullocks. The Rev. J. C. B. Warren, ot Horkesly Hall, has abuut 50 boses, arranged and constiucted upua prancuples anke economicat. But the most warpat estabistment that I have yet had the pleasure of aspecung, is that of H . S Patridge, Esy, of Huchham Hali, comprising, ander one roof, acco.nmodation for 14 buitocks, a boiling-house, wath coppers, and a pump; a Turnip-house and clusubers for hay, cutung and Linseed crushang machatas. I mentun these circumstances to show, that al farm-premses may, by a hale consderatuon and contrivance, be similatly convered, and every farmer in the kingdom be straulated to adopt a system that will insure prolit to huaseil, reat to his landiord, and employnent tolus lalorers, vecause $1 t$ woatd enable him to doulle his usual number ot came, to mabe swo returus of fat bunochs in a year, and to apply to has land an abundance of effeacious manure-a system based upon fundamental principles, dependang upuan ats uwn resources, requaring reither fureggn fuod, furengu manares, bor chemical preparations. A system, sumple in practice, powerful in effect, and appicable to every grade of farmer. A system, more important, if possille, to the breeder than to the grazier, if we may judge from the remarks of the Duke of Buccieach, at the meening of the Dumfries igrituiturai Assucatiou, atad hom the miserable spectacits thai appear in our cattle markets - spectucles al varance boh wahh humanty and judicious mahage.aent. Inis Grace ammadverted upon the deterwatang effect of keeping catute upon straw in viatuer, and adused the adopton of some mechod that woud, at least, retan the condition acyuired in the summer, and mprove the manure Linseed meal boled for a few monutes, and intimately ancurporated with straw, will achieve boh objects. The allowance, wi:ther much or little, will produce a proporionable effect, such as those only whatry the experiment can believe. For instance, Mr. Patridge has 21 score of eves, to which a peck only is given per day, at the cost of 1 s .9 d ., or a penny per score, including the expense of crashing, boiling, se.
That so small a quantuty of Linseed should be divided amongst 420 sheep, must, of course, appear paradoxical, but the following explanation of the means employed will remove doubt:- $\mathbf{A}$
peck of Linseed, reduced to fine meal, is stirred The ground had once been the sate of a blackinto 20 gallons of boiling water In about 10 minutes, the mucilage being formed, a paiful is poured. by one parson, upen two bushels of cut hay thrown into a strong trough, while another mixes it with a fork, and hastens the absorptica with a smaller rammer The like quan'ity of chaff is nest added with the mucilage as before, till the copper is empty. The mass being firmly pressed down, is, ofter a short time, carried in sucks to the fold, whire I had the pleasure of witnessing the avidity with which sheep devour hay, before so ordinary that they refused to eat. As the lambing season advances, and circumstances require, ths proportion of Linseed whit be increased; a method, that all who are straitened for proventer will find it their interest to adopt, remembering that this mixture is alike serviceable to lean catte and to horses, and that the straw of Peas and the stalks of Beans are second only to hay A lew Sweed Tumips, Manguld Wurzel, or Carrots, sliced very small, and adled to the water when fi-st put into the copper, will much improve the compound-John IVarnes, jun, in Bell's Messenger.

## Remariable Properties of Oharcoal.

It is weal hnown that under certain carcum-1 stances, charcual is almost indestrucubie. The stakes driven intu the Thames by the anctent Britons, for ubsarucung the approach of Julus Casar, were tahen up, about fitty jears since, having becorac charred, and thas preserved trom decay.-The wheat and rye found an the en-1 tombed Yompeac and Hcrculanoum, bad become charred in the slow changes of ume, and are soi perfectly preserved as to be easity disunguished from each oher. Fragments of charred wood are familiar to the geologist, under the name of lignite which have exasted for pernods meoncervably longer than those of human lustory. It would seem that wood, under certan circumsiances has the properties of charnng spontancously, as appears in the extertor of the umbers of the houses of Pompeii and Herculáneum, as well as in the above examples. In all these cases, the charcoal was protected from direct atmospheric agency by being braied in water or eauth. It is very remarkable, however, that charcoal, under other conditions, decays rapidly A few years since, the writer dug up a quentily of grarel, containing a large proportion of fine charcoal.
smithia shop, and was subsequenty covered wha a layer of other gravei. It was black with the charcoal, and was used wath some bam-yard manare in mahong anarufictal soll for a garden over clay ground, and on being well exposed by the tillage is atmosphenc agencies, in two years the charcuai enutely disappeared, leaving a dark, rich louhug sond, which all the while supported a dense growith of vegetation.
One of the must extraordinary, and we may say mysterious, properiues of charcoal, (for scrence can only show us the fact, whitout explaming it satisfactorify, is that a prece of charcoal wha absoib, whihout chemical change, many unmes ats baik of ass and viher gasts and vapors. It wht absurb more than erght tunes as volume of aur, and it is a fact of great interest to the agricutturist, that at will absorb more of ammonercal gas than of any whet, viz. 90 tumes ats volume if it has been recendy baned. The porosny of charcoan seems to be dee cause of this absorpnon, and the differemelastuay of different gases has been suppused to be the cause of the dafferent degress in which they are absorbed. But that it should absorb more than its bulk of any gas, wirhous chemicial agency, seems truly wonderful.

How valuable are these propertus to the ta:mer: Charred yosts, weil set, wail gove ham an endurias fact. Refuse charooal freely used aboul the siaute, wail staze on and preserve from esaporation the nethest manurb-anmonaca gas-and then in the sual waingradeatiy yietd : as warted is vegetuma, and loy its uwn decay alsu addu'suadanaly tu he foud oi prants. Thas, as the travedicr bien hou and coid wath the same brcath, so by the satue piveress of charring, the farmer prepares a substance which wat ether bast for ceatorits, us decay di as many munhs, as may le required.-NT. E. Farmer.

Nevo Wind Poucer.-A machinst at Cabotville Mlass, has crected a shrp at that place, the machinery of whinch is propelled by wind, in a somewhat novel manner. A large wheel, measuring 14 feet in diameter, fumished with woolen sails, or floats, is placed upon a perpendicular siaft, on each sude of whech, in a room below is an inveration samalar to window shutters, wheh, when opened causcs the wind to rush in, and nining sets. the auls and whecl in nootion, and produces a velocity equal to that of any water wheel.-Ex.

## A Iincolnshiro Lowland Farm.

The arable lond is divided into 12 fields of nearly equal size, which are cropped in the following rotation: commencing, with a half fallow for turnips or rape; 2 d , on the turnip land, Oats; 3d, Wheat ; 41h, Clover; 5th, Wheat ; Gth Beans, manured; 7th, Wheat. The Rape is sown to wheat ; 3d, Clover; 4th, wheat; 5 th beans or peas; 6th, wheat. These ro'ationsare alternate, the land growng turnips one course being sown to rape next. Deviations, however, are occasionally made; Barley sometimes succeeding the wheat after rape, followed by clover on grass seeds. Potatoes, in some cases, are taken nona few acres; a'so carsols and mangoids in small quantiters only. The land to be fallowed is ploughed up in dry weather, in the autumn or during the winter, at a depth of about 7 inches. It is cioss ploughed as carly in the spring as possible, and left for a tune. It is then well worked wih a common scanfier, heavy harrows, and roller, tating care that it is not brcught into a fine tilh too som, but hept in what is termed a "chequery" state, the danger being in its ran. ning or setting anto a compact waxy state from heavy rans, if too fine a mould is obianed. The root-weeds are thas liopt on the top and dreed up, white the land is fine enongh at the same time to promote the growth of tie seeds. Im-: mediately before puitug the crop us ploughed a third time, well worked os before, and the silth is then obianned as fine as possible; all! weeds are picked off and burnt, wath sods pared; from the head-lands or elsewhere, for driling in with the setd. The whole force of the farm is now brougat to bear upon the field; nuging, manuring, preparing ashes, drilling, and rolling down, are all cartied on simultaneously About I large iwo-horse cart loads of farm-yard dung are deposited in the ruges, which are 25 inches ayait. Épon these are drilled from 20 to 60 bushels of ashes nused wath $4 \frac{1}{2}$ buchels of bones, or lit cwt. of gamo per acre, and 3 lis of tarnip seed. If guano 13 sown the seed is drilled wath the double or after couliers, so as not to come in contact with the guano; for if it does it dies. The same mode of operation is adopted with rape, which requires about 1 peck oi seed an acre. The ridges are generally rolled again When the turnip or rape plants are from 5 to 6 inches in height, if the land is then diy enough. Fhey are thus more consolidated, and the plante
will imbibe moisture from the subsoil and grow much faster. Boh ciops are repeatedly hand and horse-hoed during the summer, so that the Jand obtains ncarly the pulverisation of a summer fallow, at the same tume producing a profitable crop. Occasionally the fallowing takes place oftenet than is laid down by the rotation, by giving up the last two crops, beans and wheat. The land is very subject to the small varsety of couch-grass, so that it sumetimes becomes necessary to fallow after the second crop of wheat. The varieties of turnips most approved of are the purple-lop swede (of which Mr. C. has long bren a successfal grower), the green-top Scotch ypllow, and the red round. After the rape crop is consumed these are fed off in esccession; the red round, first, Scotch yellow second, and Swedes last. This rule is in accordance with the most approved system, it being ascertaned the comnion varieties are best first. The sheep are foldrd on the field, being allowed 2 oz each of linseed cake, which $1 s$ gradually mereased to $\frac{\ddagger}{2} \mathrm{lb}$. The tarmips are taken up, cut, and given to the s!n:ep in flat-bottomed troughs, raised 15 inches frome the groumd. This year Mr Clarke has three sheds, ernstructed of large bullock hurdles, and covered with straw, as sheliers for them. These are well bedded, and found to be a great benefit, for the sheep are comparatively dry and clean, and much more healhy and comforiable. There can be no doubt that dise plan of hovelling in any shape is a great saving in food, but espectally in winter, when a great part of what the stock consume $1 s$ eaten to maintain the heat of their bodies The oat crop is pui in alter the same manner as wheat, and as early in the spring as possible. The Dutch brew, Fruesland, and Poland are most preferred. The Hopetown was cultivated two or three gears, but dad not ripen well. The Potato-oat is another kind which has not yiclded well. About 12 pecks per acre is enough for seeding. Wheat: this crop is sown between the lst of November and Christmas, but ail is done in November if possible. The wheat after rape is sown much later, because of eating off the keeping, but seldom later than Janaary. The "lands" are laid out so that the drill covers them at a round, the horses wolling down the furrows; and the ploughing and harrowing are both done without 2 horse treading upon the part ploughed, except in the furrows. The seed is deposited at 9 inches apart, and about 7 to 10 pectis per sese.
according to the state of the soil." The favourite varieties are the Taunton dean white, Sheriff's white, the old Essex white, nud the short-strawed hoary white, the spalding's red, golden drop, the Burwell red (a variety of old red lammes) and emooth's' red. Mr. Clarke has for several years cultuated many sorts in plots sometimes to the amount of 60 , and has found none to exceed the above for general purposes. Clover.-This is drilled between the rows of wheat, and about 10 ibs per acre produces an excellent plant. Part of the clover is mown, and part depastured; the clover affer the first crop of wheat is eaten off, and that afier the second crop of wheat is mown. Beans.-These are drilled in double rows for borse hoeing, that is, the rows are placed at a!ternate distances of 6 and 18 inches. The varieties most preferred are the small religoland and the. Cambridge white; the tick beans are never grown. The land is frequenily prepared for beans by the skelcton ploughs and scarifier alone. The favorite sorts of pea are the partridge grey, the Prussian blue, the white boiling pea, and the numble tailor pea. Mr. C. has, for the past four years, endeavored to adapt to field culture a most prohfic dwarf pea, selected by an oid gardener for its extraordinary yields, and has succeeded well. The implements principally in ase upon the farm are Ransome's cast-iron ploughs, four-harse thrashing machine, and chaff engine; Cooch's dressing machine; Hornsby's drill; harruws in varnety, Howard's patent common six bulled, \&c. ; large scarifier; the unive:sal plough, invented by Mr. C.: this implement is very useful in several ways; it can be adapted so as to make a perlect horse-hoe for ridge culture, a good two-horse scarifier, a capital broadshare plough, and a very effective subsoil plough. The Rackheath subsoil plongh; waggons and carts, light and heavg. The ploughs are all worked by two horses, except Ransome's S. M., one or two of which are kept to take up the mould-furrows, and other light work. Stacks. The hay, beans, peas, oats, and barley are in long stacks; the whear stacksor "cobs" are after the best East Lothian model, being round, and widening gradually as the height increases. The roof is short and well thatched, and the eaves are 2 feet from the grouna Mangolds, and occasioually turnips, are taken up carty in November, and placed in long heaps or "graves," about 8 feet wide at bottom. They are thatched down
tor two or three weeks, to give time for any fetmentation to escape, and are then earthed up within a foot of the top, which is left open with an additional covering of thatch. 'The mangolds are never consumed until the spring. The manure made in the fold-yards remains there till' required ior use, being turned over about 6 weeks before leading, and is in its most fermenting otate when covered up in the ridges.-Ag. Gaz.

## Tho Prospocts of the Orops.

Having been of late through some of the best cullivated districts of this section of the country, we feel prepared to give an opinion of the present condition of the crops. Winter wheat could not possibly look better than it dees at present. Many are apprehending serious less from the fact that their crops are too grcss, and present a dark green color, which, in ordimary seasins, indicates a dispestion for the crop to be infected with the disease known as rust. From the pericd the seed was sown, up to the present, the weather and season upon the whole have been ss well adapted to the growth of the wheat p'ant, that feve instances can be fcund where the plants have suffercd to any considerable degrec. The growth being natural-not chceked and afterwards fereed-the prebability is, that atthough the crops are exuberant in the extreme, unless the seasen should prove exiremely wet, the average gield will be great indeed. The lastard fallow system which we have spoten of from time to time, in such commendable terms, will have a fair trial this season. A pea, clover, or flax-fallow is infinitely better, as a preparative crep for winter wheat, upon mest soils, than a naked summer-\{allow. In the course of other two menths this problem will be clearly solved to the satisfaction of thousands of Canadian farme s.
Nearly dsuble the number of acre3 cf winter wheat was sown last autumn than in any previous year; and ss far as presentindications would warrant ene in forming an opinicn, we shzuld judge that the average yie'd per acre will be greater than that of the past year, which is acknowledged en all hands to be the best ever harvested in Canada. The hay and spring grain creps premise on abundant gield; indecd hay in same districts must be so abundaut that it will scarcely find a market at remuneratiag prices. In shcrt, every description of grain and fruit crops promise a most abendant rcturn, fer wheh the husbandman should be thanikful to an Ahbomiss Providence.


Description of Elecation.- 6 b, Large doors, 'centre, through which the doors pass. The posta which open on to the barn floor.
$d_{2}$ Stable door.
The windows slide back and forth, for the purpose of ventulation when necessary.
fare framed into the sills with a double cock-tenon, to give strengh.
ce, Stone door sills, 16 teet long by 18 inches
Description of Ground Fluor.-a, Barn f

12 feet by 60.
$6 b$, Doors hung on iron rods and rollers over
ibevel outward.
d, Siable, 12 feet by 24 , with fixtures for one parr working horses, and two yoke of exen.
$e$, Bny, 8 feet high, until it rises above the stable, then it runs the whole length of the bant, 60 fet.
$f$, Store room, 16 feet square, with a fight of stairs leading into the cellar. 8 feet high.
g , Bay, 16 feet by 44, unul it risea above the
cling of the store room, then it goes the whole lagth of the barn, 60 feet.
$h h$, Upright posts framed into timbers above and below, with ranga ineerted for ladders, to asand and descend at pleasute.
iii, Narrow scutle doore, through which the bam is passed down into the stable below, to woer the hardpan, over which the boards and plak are laid, as described ia $b$, of the basentent.
Description of Bascment.-a, Open shed, facing east, 12 feet by 60 .
$\$$ Staile, wath waduws the whole iength, hung; Eth strong suap hages to open and shat at, plesure, alsu a whiduw at the south end. The, dject of so uinde waduav as, to threw out the, marure, and to rentidete the stabie, which is 12 , feetby 60 . The ground onder the stawe is a barpan, over wimh is piaced every summer a, laga of lyame or o melies itheck, and careinily, leveled. On this, boards are land lenghwise, some inches apart, and on these boards plank ate laid cross-wise. Through the interstices of these the liquid manure runs down, and mixes with the losn, whech is thrown out in the spring, and mixed wilh the manure under the shed, and frech loam put in place of it, and the boords and ptank replaced. This takes but a short time to do.
$c$, Manger, 3 feet wide, made with plank forma into timbers and pinned; not a nall about it, and perfectly tight. Stalls are divided off for tro cows or osen each, to be ned with ropes, fastened at each outer corner.
$d$, Open space, 5 feet by 60 feet.
e, Celiar, $S$ feet by 16 , filled whth roots in the, fill, and supplied from the pris dung wnet as they are wanted.
$f$, Bay, 8 feet by 34 , rannng up to the roof, 27 feet to the eaves.
$g g g$, A bank of loam the whole length of strble, exceptaidgainst the doors, whech are gaurded by a narrow plank fisture to keep the loam in its place, which is mased in small quantues wath the | manare every morning as the stables are cleared.

## $h h$, Stable doors.

$i_{i t}$, Seven stone pillars 10 teet long, standing on flat stones 2 fect under ground, boited to the sills of the apper story with iron bolts, made of $1 \frac{1}{2}$ inch round rods.
The barn stands upon a atrong foundation of None on the west side; both ends are laid in lime mortars and well pointed with the eame material. The top miones of this fourdation are
from 10 to 14 feet long, by about a foot square: At the south end, the walls jut out on each side of the barn doors, and the space is filled up with earth between, to make a gradual descent, and the egress casy for an empty cart or wagon mo pass out int the edjoming meadow. The outside covering is of clear pine boards, well sessoned, planed, tongued, and grooved together, runting up and down, panted, and the foof well shingled, and every part of the work done an the most substantial manner.
Cost.-The siune and tuiber beng on DI. K. 'a won iant, the whole cost ofthas barn dul not exceti SCO , the werk of the owner reckoned at the ussuitutes he pad to other mecinanics. The presumpisu, huwever, in my own mind is, that if he did not do the woik of three mea himself, he did and eaved what nas equivalent in at by persunaliy superintending every stroke, by being up at the early dawn of day with teams all fed, yoked, and harnessed, and every man placed as his proper post the moment he came upon the ground. I make these observations that no one may be disappointed who shall undertake to build a similar barn, hire his builders, stone-catters, masons, and carpenters, find them plenty of alcohol, while he sits at the neighboring tavern taking into his own stomach copicus draughs of ibe good creature, talking'politics, \&ecr; \&c., and finds on footing up all his billa shat they amount to $\$ 1,200$. Here is a building which, if keps properiy covered and painted, will last a century or upivardi.
The yard adjoining on the east, hases foumtain of running water brought iato it bypipes. A high wall supports the boits on the north side nest to the road, which breaks off all portherly winds, and it is intended tghe sqrrounded with sheds on all sides.

Coal Tar for Seed Corn.-Mr. Editor,-Li may be oi service to some of yoar readers to know that crows will not eat or scratch up, com that has been eaturated whih conl bar. It dota not prevent. regetation as the common pine tar does: is much less tronble to put on, and half a pint is sufficient to satarate a bushel, if poured over it and well stirred. It may be well to say, that coal tar can be obtained in any of the cities, and is rade at the gas works, and is most excetIent to preserve ont side wood wark. Bryer-field, near Hamton, Va., Febraary 15ity 1846.
-Far. Vis.

## ETedge Fancer.

Wo have repeatedly stated, that ferr subjects of agricultural interest are of greater importance to the farmer than that of obtaining a thorough knowledge of managing hedge fences. Tumber maltable for fencing is becoming extremely scarce in some seetions of the country, and as no steps are being taken to propagate a new supuly, thss atate of hings argues, as a matter of course, that ather stone or live-fences will have to be generaily employed before the lapse of many years. In arose sections where material does not exist in abundance, the thorn or some other description of live-fence will of a necessity have to be grown. It is the opinion of competent judges, that the common Canadian thorn is equal, of not suptrior to the English white thorn for fencing purposes. The grounds for forming thes opinion are, tirst, that they are thoroughly adapted to the climate; eccondly, that the ground mice are not so apt to bark them in winter; and thirdly, that they will much sooner be an efficient fence than the Eng. lish hawithorn The proper method to obtam a uniform thrify hedge is, to gather the haws in the autumn, and have them placed in a box in a warm celiar, and kept in a moist state, by sepeatecily applying water to them untal the opening of spring. As soon as the ground is capable of pulverisation in the spring, a seed-bed should be made, and enriched with well fermented manure ; after which the bed should be ribbed either with a plough or hoe, each row being aloul fifteen inches asunder. The seed should then be scattered pretty thickly in the botton of the drills, and covered lighty with fine rich soil. By keeping the seed wain and mosst daring the whole period they are in the cellar, they will vegetate by the first of June. The only collure necessary will be to keep down the weeds, which may east iy be done wath a common the. The following spring the goung trees moy be planted in the: fence row. The strip of ground upon which the fence is to be planted, should not only be rich in the extreme, tut should be thoroughly cleaned ot weeds and widd grasses. An old fence-ron ahoroughly summer-faliowed would be well sured to ensure a thrifty groopth of young thorn. Be fore planting the thorn the ground should $b$ r raised about fifteen inches in the centre, whici, may be done by rounding up the ridge iwo on three times with a common plough. When thr sentre of the intended fence row is rained suffict-

- nly high, the surface ground may bo ince. red with a pair of seed harrows. $\boldsymbol{\Lambda}$ futton nay then be made with a common plough it ot exact line where the fence is to be planted, and as soon as this is done, the young thorns mod th planted about eight inches asunder. This'process may be considerably faciltated by statding the young plants in on oblique position agoina the land-side of the furrow-and whilst on per: sun is performing this work, another may blemployed in coverng thern whth the loose soilthad by futming the furrow. The following epritg the young wood should be shorn down even whit th surface of the ground, and the stumps sighty covered with fresh mould. In three yeds th hedge will get sufficiently high to make o goos fence; and the after-management, as it ngard tumming, will be mo:e a matter of tast thas u:slaty.

In our travels through different sectionsiof to province, we have occasionally met with some excellem specimens of hedges; and the two ben monaged fences that we have any knowledge of were made by the late Mr. Blanchard of the Townslip of Toromo, and George Simpson of Newmarhet Gange Farm. The former planted 50 d rods, and the latter nearly 300 rods, abous ten years since, all of which is now an efficiett fence.

We are delighted to see our correspondens take up the matter in such a spirited mannet, and tope that his efforts will be crowned with success.
-
I have dhas spirng been trying the experiment of mah ing a He dge from the common whe thorn, and would wish to acquire through the medium of gour valuabte journal, some information on the subject. I will state the way I have proceeded which wat to assont my shoots, hey being all s 2-e, pulung a large one and then a small one, with a view of culting down the limbe of the lorgo ones to fill up any vacancies that may occur, they beng planted so as to accomplish thisobject I hase put them atout one foot apart, on a rich fana, catefudy planted and well embanked. I to not intead io then them any sill next season in order tha they may the firity t . ted; whethes this may he correct or not. I donot know, as my knowledge of thear proper treatment is very limir red. Are yoa aware of any of our common whity horn haveng been tried for this purpose? If so, how has it succeeded? the mformation I an rery anstous to abtan; as shoutd they answer a youd purpose, I intend, if sjared till another vear, to go on planting. I have large quantities of the thorn growing on my promises, which I

Sipo to lurn to a good accours, the exacnse of plining, is by no means as nuch is lamemated, afour days work of one mon, has dug up and phinted sisteen sods, the outside cost thas non ben over thece and a quater duitars. I thank miny of our farmers woukd find is thuch to then merest sa curn theit antminit to the cuthivathan dHedges; I allt confident they will be leunds the cheapesi fence on the long rinn, and stheir supetority otcr our common fat fence as nut to be wh Perhaps I may be too sanguine in tay andipanons, but I am prety conlident I can make a good hedge wili what 1 have already tried Any hformanons you can import on thrs 1 cibject-asio, where, and upun what terms I can procire inom quichs, will be thankfally secenved. Yours raspectially,

Charles E. Chadwick.

## Develam, Brock Distrea,

May 4h, 1846.
P. S.-As I see you stated in a former number of your journal, that wheat wh not tam so chese, you moy hear from me again on the sulpeet; as from my own obeervaion and expertence, 1 an decadedry convineted that at wall.

Mr. Entor. - Shouk you think the anm iad worh insernon an the Caltizatur, it is at yuur service.
Many remedues have been proposed fire the cure of Poll tival in Horses, somer of bas arth.isg paiue, olhers parifecty wonhlases, complereis hymg open the says (or pipe) wibl a houe, I s been considerad, and yery juasty so, as the moal efferent means of effecin: a cure, thave on screrai oc asisuns recommended to my fremets ties potasea fusa, (יI caustuc putash,y whele can be readily procuied of any respectable drugesi The mode of us.ng is is torm a holdet, by "rupping a ppere of the canstic in dry wreterg maner, leaviag about a guarter of an mehexposed, and
 It is to be slowly passed tho the sithos, by a ser cusrotatory mation unsel it rasches the bottom of the prep, whore is should be retaned a fesw seconds. and then withdrawn-two of stree appacanons of the caustic wall geatally ellecta pedecterue, In is safer in inexperi-aced hands thin the hade, and its actions the same, viz. - the dostructm, of the secreting surface of the stons, and the exelting a beation action in the sore. Strouts the granulations appear to requise a linde simulus, the ulcer may aherwards be diessed whith a ithle red precipitate or blae stone powder, Lasam getseral, they will be sufficiesily lusurian in is advisable in us ngthe enostie, that the surroundligg parts should be well annomed with tand or yllow, so prevent the spreading of the potash.
Pomssa fusa having a great endency to slack and abstract moisture from the aur, must be kept in a perlect tigh bortle, well corlied, and not be exposed to the air leager than is absolutely necesangry to periorm the eperation.

CDicheater, May 20, 1846.

Pind Grovo Woolien Oloth Manulactaring Ebtat blimanent.
-
We lately passed through ine rear part of Vaughan and avaled ourselves of the opporiuniry of colung at the above estabtishment. John Gamble Eisq. The proprietor, was alsent fom the tactury, lut the foreman in charge look grema pans in showing us chrough lise sanous apart ments of the buidings, logether with the machinery, which rendered ourvisit very agreeable There are 43 bands, 450 spindles, and 13 powerboons employed in the rall; and the annual quannty of wool worked up is estumated at 80,400 bs. The whalesale price of cloth ranges fram 3s. 10 5s. per yard; 8 ib. blankets from 18s. 9d. w 21s. 3d. per pair, ond other goods at the samo rates of puces. The grices pand tur wool at this faciory varues from 1s. to 1 s . Gd. per lb., and wo suppose the fairest qualities of Spanish wool would be worih about is. per fb.
A praper division of labor is observed in tha ssablshmens, and every banch of the businesm is carried on upon equally as correcs a styse osin estahlishments where ten citues she number of hands sie empioyed. An invoret wif the goodo wade dungy the weck is tahen, the whole of wheh are assarsed and made ap m:o cases, labebed, and sent to market in quie as goud a stybe as is practieed in the largest fuctorms in the UniIed Suases ond England. Through the efiorts of such sproted men as Mr. Gatuble, a permanent home marliet has bees established for waol, by "hach means an addaional staple has been ad. ded tu the agicuhural produces of the country; and an a bicle of clothing wen adopted to the wants of he councry is produced and afforded as cheager rates han a could be purchased from foredgn coucures. We feel certan hat our readers wil joun wat as in wishing ilf, Gambie, and all others engaged in simhar entrpnses, much suocess.

Tar for Sheep.-A gentlcman, who keeps a largo lock of sheep, says that during the season of grizing he grves his sheeg tar, at the rate of a gill a day for every twonty sheep. He puis the tar in a trough, sprimiles a litule fine salt over it, and the sheep consume it with eager ness. This preserves them from worms in the head, promotes their general healthy and is thought to be aspecifio againstith rot.

## Manares and Oaltivation.

Mr. R. L. Pell's rematks at the January meet-f ing of the American Agncultural Assoctation, on manures and culuvation.

On cultivation, Mr. P. satd:-On the 9th of Oetober, 1844, I cleared the tops from a dug posato field-burnt them and returned the asheswith a view of sowng wheat. The seed was than prepared thas. soaked four hours in brine! that would foat an egg; then ecalded wuh boil-1 ing hot water mixed with pearlush; passed tarough a sieve, distributed thanly over the barn t Dloor, and a dry composiuonsifted on it composed of the following substances: oyster-shell lime, charcoal dust, oleaginous charcoal dust, ashes, Sersey marl, or blue sand, brown sugar, salt, Peravian guano, silicate-of potash, nutrate of soda, and sulphate of ammona. The sun was.permit-1 ted to shine upon it for half an hour, when the particles crystallized upon the gram. In this gtate it was sown at the rate of two-and-a-balf bushels to the acre, directly on the unplowed potato ground, and immediately plowed in to the depth of five inches, with a Scotch plow ; harrowed once; a bushel of tumothy seed sown to the acre, and harrowed wisce. At the expiration ©f fifteen days the wheat was so far above ground as to be in advance of some which had been sown on the 1st of September-thurty-nne days earlier, in the usual manner, wathout any preparation Nrear it I sowed wheat prepared, on turnip and carrot ground, the tops not having been removed, and plowed the whole in together with like success. Still adjoming I sowed three bushels to the acre in a dry state, on potato ground; plowed and harrowed first; wheat then sown and twice harrowed; the first parcel, alchough plowed in the depth of five unches, was $9 \frac{1}{y}$ inches high before the last appeared above ground, although the whole field received the benefit of the following compostion sown by hand, at an expense of 1 wo dollars per acre, viz.: stable manure, itry shar- ${ }^{-}$ coal dust, heckory wood soot, bone dust, olpaginous charcoat dust, oyster-shell lime, deenyod leaves, leached ashes, unleached ashes, guano. sal soda, nutrate of potash, fine salt, poudrette. hom shavings, refuse sugar, ammoniacal liquer ' blood, sulphuricacid, magnesia, plaster from walls ground, decayed grass, decayed straw, decayed weeds, fish, refuse oil, sea-weed, oxide of irnm, and oride of manganese. My object was to consribute to that growing crop, every substance re-
quired for its growth. It is possible that ted a twelve of the above named substances might bite produced the same effects. The wheat raisedy the experiment just detailed produced flour con tainang 18 per cent. of gluten.
In 1e.43 I sowed thirty acres with profared wheat, and top-dressed it with charcoal dust is grew rapidy, was not atlacked by rust, mildew, or blight, when fields near it were almost destroged. A smatl portion of the lot, which had recerved by accident a large supply of charcou' dust, produced at the rate of $78 \mathrm{~S}^{2}$ bushels to tha acre. I cutit when the straw presented a yellor appearance four mehes above the ground. At that stage of sts growth a milly substante could be expressed readily from the kernels. It wa allowed to reman three days in the fie'd, whea it was carried to the barn, and threshed imme. dataty. It weaghed nearly 64 lbs to the busheb and soid by weight for 128 cents above the mar het price.
A few acres were left standing, and cot three weeks after, when the farmers in the neighbor hood harvested their wheat. The grain wa small, struvelled, and weighed 56 lbs . only pes bushel; the straw had lost its most nutrition substances; was much lighter than that cut ear her, and consequently less valuable. I beliere that atter the stem curned yellow near the ground, there being no connection between the root and tassel, the kernel wastes daily. By cutting early there is preserved in the straw all its nutritive matter, and thus it is rendered almost as valuabie for fodder as hay.
In conclusion, Mr. P. said that his processes tooked not ouly to sesulis through science, but to economy in expendture.-Am. Ag.

Farm Stablos.
As the preservation of health ought to be con sidered of more impurtance than the mere curing of diseases, and as thus can only be accomplushed by proper management in respect to feeding, ax. ercise, and general economy of the stable, I consider it proper to offer a few remarks on conatructing and venulaung farm-stables. In the ronstruction of the stable there is nothing so deserving of attention as ventilation, $i$ e., having proper contrivances for the ready admission of fresh air, and for the escape of that which is nosious. Let any one for a moment consider thg foul atmosphere which 23 generated in a olose
aslle where several horses are kept, by the constatt exhalation of unwholesonve vapours from! the litter, the noxious air from the lungs, \&c., nat he will not be surprised at hie long catalogue of ciseases to which improper treatment has subjected the horse. Let him enter a stable early in the mormng, and it will afford him ample proof $\alpha$ the noxious state of the atmosphere. Farm stables are in general built 100 low; the ceiling thould never be lower than 13 or 14 feet, so that we forl air may circulate in the higher part, and find its escape through apertures made in the ceiling These apertures should be made so as 1. to admit rain, and to be readily opened and thut inside by means of a cord and pully. Fresh air should be admitted by the wandons, which should be large and on different sides of the building; so that when a cold wind biows from cane side, fresh air may be admitted by the one opposite. By this means the temperature also of the stable can be regulated according to circums:ances, and the more accurately if a thermometer is kept-a very necessary instrument in all baildings where animals are kept. Light is also of great importance in the stable; for there can be no doubt that horses' eyes are often injured by being kept in dark stable s. Nolhing injures that delicate organ more than being brought out of a dark stable into the light, particularly if brought immediately into sunshine. Though a light stabee is desirable, the sun's rays should not be allowed to fall upon the horse while slanding in tis stall; this may easily be prevented. Nor ssould the walls or ceiling be whitewashed, for tnder such circumstances the eyes of horses are liable to be rendered weak. The best color for the ceiling and walls is a stone color, whech can easily be made by mixing a little lamp-bla . with the common white-wash. The walls of all buildings, as well as stables, shouid be bull hollow, less material will be required, and the butding will be rendered drier and warmer, and will not cost half as much in building as af buth solid. [3] The doors should be high and wide-what are turmed folding doors are preferable, z. c., doors which open in the middle. In fiung up the interior, particular attention should be pasd to the size of the stalls, which should never be less than Gfeet wide, and the sides should be sufficiently high and long to prevent any communication betreen the animals. I have no doubt it will be argued by some, that horses are sqciable animals,
and stails are not requisite. But I am convinced, that when horses are separated by stalls they thrive much better, and numerous accidenis aro prevented, as kicking, bung, and otherwise injuring each other. Horses should not be too much deprived of the liberty of monon, as they too often are, close confinement after hard labor will too suddenly abate carculauon, stulen thear joints, and make them chully. The halters should be long enough to allow the omunal to reach any part of its body with ease. Long halters are disapproved of oy some farmers, because of the animals emangling themselves in them; but nocidents of the sort arely occur. The floor of the stable should be laid wath hard brichs, as a smoother surface can be obtained than by flante, and the horses are not so hable to injure their knees in the act of lying down and nising up. Very litule declivity is necessary to drain off the utine. Great inconvemence often occurs from suffering a horse to stand where the fall in the stall is considerable. It has, however, been recommended, and is in use m many stables, to place the gatter in the middle of the stall, so that the fore and hind legs of the ammal may stand on a level. This is the best plan for horses. In whatever way the stail ss made, the fatl should never exceed 1 inch in 10 feet. The gutter if placed behind should be broad and very shallow. Where a stable is properly attended to scarcely any gutter is necessary. Iron rachs are prefernble to wooden ones, which should be fitted up so that the animal can feed with the greatest ease; or, what is preferable, fit the raclis in one corner on a level with the manger, so that the ammal may feed as he does in a state of nature. The marger should be so constructed as to slide into the wall like a drawer, and should be ratherdeep and wide, whech will prevent them from throm ing out thear fuod wath there nuses, which ofeen occurs where shallow mungers are ased, particularly when chaff or cut hay 13 mased wath their oats. I hope the above remarhs whinduce some of your readers to come durward on this subject, for it is shameful in sume parts of the United Kingium to see the mannes in wheh the companion and co laboser of nan is fed and shelered. -Ag. Gaz.

Ointment for Ringbonc.--Corrosire sublimate, Spanish flees, hog's lard and Venice turpenine. Mix. This omment it in sald will dissolve a ringbone.

We have much satisfaction in giving insertion Wthe ollowing conmunication It is writen by a young tamer, who we sre happy to pereeive is a zealous advocate of Agriculiural improvement. It is gratifying to learn that the wet days and leisure moments of our correspondent will be pent in writing useful matter for the Caltivator, and in adding to his general stock of useful information. There is not a selliement in Canada, io which there are not one, two, or more persons, engaged in agriculture and the mechanic arts, but that maghe render a useful assistance in moving cunvard the car of agricultural knowledge, and it is to be hoped that by this time every friend of are produclive interests of Camada, see the necesaty of unating their efforts in sustaining such branches of business, os have for their wbecti the creation of real wroth in the Colony. It is *uly desirable, that the Caltivator should have a numerous list of practical and scientific correspondents, and from present indicaloous, we are almost warranted in expressing the hope, that mome scores will, without furiher solicnation, and us in storing the columns of the Cultivator, with deir experience and observations upon practucal poinis ot improved husbardry. We wont prachcal communications, and only such should have a place in oir journal. There is no want of valnable matter, but to make the work as onginal, aud Canadian as poss ble, it is essential that its readers should contribute useful hints from time to time, in which they should observe to eabody the most useful points of their own, or their neighbours' practice in agriculture. Great and mportant results are constamly being achieved in agriculture, and the freends of agricultural improvement should lose no opportunity of havingsuch as are calculated to benefit their profession or their country, properly clironseled in some zeneral medum of communcation. Thus is the ! true spirit of broging about that reform in agriculture whicis would enable its followers :o auccessfully sompere in the production of breadstuffs and ather products of the farm, with the cheap labour of Europe and the superior national addantages possessed by thetr netghbours of the Western States.

## A Wet Day....No 1.

Ma Edrror,--I have been an attentive reader The Cultivator for the last two or three years. Ind it has become a companion that I would not willingiy be deprived of. I have watched the
progress with an anxious eye, and am now mas fied that it needs but the exerttons of our iof pendent farmers, to renable it to sustain the by postion to which it has already ottcined

Its benefit to the farmer cannot easily be ere. mated, ond at is only those who make an invenis gation moto the theory and pracuce of oibes comained in its columus, call apprectate ns valas In addution to the pleasure I recrive from : perusat of to pages, I would take it as a mathe of economy, tor 1 am confident no farmer ay read it one year, whout recelving twice it amount of actual ben-fit above its cost. Maxy will say, it is chrowing away so much ronoty. but it is throwing it away in the same manner th the farmer throws away thes seed wheat. Then is, I find, from my own observation, (though) an sorry to make the remark;) a very grew indifference among our farmers to cultivate the mand; talk to them on ther point, they will admis the necessuly of educallun, and apparenily evira a desire fir nis extension, but hute indeed is is effort that is made. I contend that agricultan requires education in order to ensure success, it a propottonate estent, as much os any of th peofessions. There is much uuth in the adage, "that tarmers are the hiveral supporters of even interest but their own," they widingly agree t the appropriation of puolic monies for literer, theological, or medreal sehogls; bor ask shea for schools for the ben-fit of agriculture, in whids their sons may be mestucted in the best modelsc. forming, and at the same time acquire the megas of becoming intelligent r.nd distinguished in lite, and they deny henselves the bron. Every mas nust be couvniced, that mind is capable of greatif aidung the operations of the hands, otherwas Jabour would be the mere exercise of anima strength, such as is afforded by the ox, or th horse; and it the mind is benefictal to labour by its shitl and contrivance, the morett is instructed in those laws which nature has established fot the government of matter. and in the experienso and improvement of others, the more likely is 4 to prove beneficial to our plysical powers. Th more knowledge the more power, and every farmer hag at withn himself the chooses, to increás bath his linowledge and hs power. The education we receive in youth, eerves but as ths foundation at best, of the superstructure which is to be reared in manhood, and every individual is in a measure, his own architect To the farmer, this trulh applics wish as mach force as to any oller employinent. The busmess of husbandry is so diversified, that the wisest men engaged in its pursuits, continue to add to their knowledge, as long as they retain the powers of intelliccl All who choose, may benefit by the concentrated and increasing wisdom of the age, and advance progressively in improvement, in usefumess, and in intellectual enjoyment. The farmer is urged to the effort by a trple consideration, the imp provement which upromises to his mind and his means; the benefit which his exainple conkert upon his children, and the increased ability it mal
rifod of doing good to those around him. If etery young farmer would read regularly, and atcenively some ngticultural poper, the most happy resalis might be icszonably onticipated; it needs out pressing ir instry to oblain the neccssary intormation uequiqite to form the ecientific farmer. Now these are not the metaphorical exprossinns of an enthusiast, they are the plain ideas of a juang farmer, une who is treading the path he is pinting out te others; and which. if persevered in, will be sure to lead him on to ultimate success. I would humbly implore that every young farmer, as he values his own wealth or reputation, or that of his country, should exert himselt to procure that description of education, which shall enab:e him to reap the greatest pecuniary revard. and the highest honours from his profession. But I fear, Mr. Editor, I am trespassing uonn your space, I will conclude, and as it is neceesary to the support of the Cultivator, that practeal men sot only take $i t$, but that they communicate through it, their observation, and experience, $t$ propose spendiag some of my leisure mriments in this manner, and if my fellow firmers derive ang lenefit therelrom, I shall have attamed my qject; if I ndvance any erroneous ofinions, I bope those who have had nore experience than mpselt, will correct me.

Yours respectfullv, Cinarles E. Cuadwick. Deveham, Brock District, May, 1846.

Scripture's Cariago Whecl.


Descruption of the Drawing.-A is a perspec-1 tipe elevatoon of the wheel enure-B, is a de-1 tached, or one-half part of the nave or hab, in -huch rests the ends of one-hall of the spukes$\mathrm{C}^{\prime}$, is a cross section of the entire wheel, showing ,
the position of the apokez and the separate partr of the hub- $a, a, a$, represent the pipe-box, palsing through the two naves, or cheek piecen-ce, $c$, having on the insude a connected flange of the same dameter as the naves, and covering tho open end of the one nest the rehicle, while at the other end a screw threadis cut to receive the screw flange, or front of the hub, represented by 0 . whech, by means of a wrench, is screwed firmly upon the pipe box; by which means, the tue naves being accurately fitted to the pipe, are made to approach each oiher, thereby causing the spokes to act as powerful levers, and producing the same effect that is sought to be obtained by resatting the tire of the ordinary wheel, bur with the very imporaant difference, that whate the one is effected by a consudetable expense of timo and money, and wath a positive injury to tho wheel, the sime result is brought about in thes other by a few minutes application, and wathous ineurring any expense or injung the wheel. The advantages claimed for this wheel, are great economy, consisting an the durability of the hat, which, it is said, " will last for a generation;" and the facility with which at moy be kept in order. Ordinary wheels become rim-bound in corisequence of inadequate suppo:t in the hab; while by this methed of constmenng wheels, this difficulty is obviated at once, by applsing tho i wrench to the hub and turningit up, more ockess, as the case requires.

The investor and inannfacturer is E. S. Scripture, Stapleton, Staten Island, N. Y.-Alb. Culd.

For the Freaves or Broken Winded Horses.Whever is ss unfertunate as to have a hearey cr broken-winded herse, and desires to cure or maks I him bitter, shzuld not sulfer him to drink for somos flime any other drink: than weak lime water. Tha horse will scen rel sh this, and it seliom fails to preduce a radical cure.

I wil state another way for those who may prefer it. Take frem ene to two table spernsful of ground plaster ol Paris, and stir the same into hat messes three times a day. At first, if at hand bran for two cr three days-then bran and oats fer tivo or three days, with ground plaster, as abger directed, in cachef the messcy.
L. S .

Kane co., March, 1846.
Stamulating Ointment for fiorses - Yellow rostn, spirt of turpentme, sallon $/$, flour of mustard each one pound; rape oil, 8 ounces : red preciprate, 4 ounces. Mix.

Gas-tarring Walks.-Happening to be at Margate a few days ago, 1 observed that the pablic walk upon the cliff was covered over with gesear. Upon inquiry I found that this plan had answered perfectly upon the gravel-walk in the oentre of the pier, which has been done some years, is quite smooth and hard, and has all the appearance of being covered with Claridge's asphalte. I consider this plan of gns-tarring walks a great hit. They are thus made dry in all weathers, the worms are destroyed, no weeds can grow, and all trouble of keeping them in order is saved. The gas-tar is applied hot to the gravel walk with a brush, and dry sand is sifted over the tar to harden it. I should say that some powdered quick-lime migh be added to the sand with advantage. Three or four coats ase required, which may be renewed every two or three years as neediul. I laid down two barnnoors in 1839 with Clarides's asphalte, hall an inci thick. They are now in as good a state as when first done, and have answered my wishes in every respect. They cost me one shilling per square foot, which included a heavy land carriage for the materials. Aiter having seen the gas-tar applied to the walks at Margate, I should now not go to the expense of laying down a barn-floor with Claridge's asphntie. I should prepare the foor with a solid conercte of broken stones, and then apply three or four coats of gastar with sand and quick-lime sifted over the tar. I think it would pay a farmer to prepare in this way all his homesteads. He would save all loss by rats, mice, and dampness. In using gas-tar as a covering for boards, I have found great advantage in mixing a litte resn will each kette of gas-tar. Thus mixed it will hast longer and have more body and glossiness -Gar. Chron.

Mr. Tur'but-I notice in the April No. of the Bricligan Farmer some "suggestions for preventing injury to fruit by late spring frosts." I have successfully practiced the following method. About the time the tree is in bloom, or very litte before, I deposit in a heap, say, half a cart load of coarse barn-yard manure under eachbearing tree: let the manure be such as you would *eleci for making a hot bed, or even coarser, and daring the process of decomposition the evaporation will protect the fruit. Place the heap near the trunk of the tree or the north side, as what fitllo air there may be will come from or sear
that cold point. On the night of the 7th of Myy last, (by reference to my journal,) I find we hat a hard frost, which destroyed the fruit ; the sace was the case on the night of the 20th of Ma 1844, at which times I was fully protected a above, though I may add that a great portion as all my fruit was destroyed by the wind and ha? on the evening of the $24 t$ th of April, last yest, nearly a month prior to the frost. But somx trees, sheltered from the storm, produced abundandy, notwilhstanding the frost.
'Ihe old New England weather we had in D. cember seems to have destroyed the peaches, and perhaps some other fruit. We insist, howerer, on a crop of apples by affordug them the abore protccion. Try it.

Respectiuly, \&c.,
L. A. LELAND.

Colon, St. Joseph Co., Apr. 12, 1846.
—Mich. Far.
Raising Water ly a Simple Process.-Havitg long felt the want of water in our barn-yard and fields, we have succeeded in bringing a plentifol supply from a spring by means of a machine fo: raising water, upon a simple, cheap, and durabie plan, which is withon reach of every one who thes a spring or rivulet at command, with not les than three feet fall. With this amount of fall, we may throw up to the yard one-sixth of the amount used by the machine;-or, in other word, if a man has a stream or spring furnishing sis quarts per minute, he may throw one-sixth of it into his yard for the use of his stock. If there be a greater fall, a greater proportion of the water may be thrown into the yard. Our spring furnishes three quarts per minute; we have 17 feet fall from the spring to the machine, and from to machine to the yard 42 feet rise, and while the machine is at work, it sends into the yard three quarts per minute; and as we can only get ontthird of the quantity into the yard, we can consequently only work our machine eight hours oux the twenty-four.

We make this communication, believing then a knowledge of our success may be valuable to the readers of the Cabinet.-Farmer's Cabingt.

A Cure for the Piles.-Take I scruple of pormdered oplum, 2 scruples flour of sulphur, and 1 ounce of simple cerate. Keep the affected wass well anomped. Be pradent in your dies.

Curing Clover.-Every farmer knows that Here is a difficulty in curing elover for hay, fithout the loss of much that is valuable. Ifexsed to a hot sun long enough to dry the stems, teleares and their foot stalks become crisped, 1 os to scatter off in the proces: of raking, and tch as remain are much deterionated. To preat this, clover is sometimes raked into small acha, as soon as wilted, and left to complete the aring, in that state. -Should a rain occur in the, atreval, however, injury to a greater or less ex. ent occurs; and 20 guard against this, some ape preferred covers of pamted canvass to throw -ar the cocks while standing, secured form being Sown off by weights at the four corners. This arolves quite an expense. A method has been Tgrested of accomplishing the same object withmat txpunse, and with but little trouble. It is ew to us, and may be so to ohers. We gave i2s a hint for experiment.

Prepare a stack bottom, raised some 18 inches from the ground, so that the air may have free acess below. Take three poles, as long as the atended beight of the stack, stack them in the gound at a few feet distance from each oiber in the midule oi the stack botiom, bear the tops wrards each other, and fasten them together, so at the three poles will form a pyramid. Around Ls, stack the clover as soon as wilted, coveriag ser the top of the pyramid with bay to caedude se rain. As the steam risesfrom the hall-cured Cover, it will pass up the interior of the pyramid, and oat through the cap or covering, and a draft ritl be formed from the open sides below, like das of a chemney.--hluch. Far.

Nros Bricit Mrochine.-Mesers. Cuthbertson and McMiilan have in operation, at Cincinnati, a new brick machine, whele excels any ching of the tiad in ase. The clay; in a crude state, is thrown whit a shovel into a hopper, in which a mill, or relverizer, is phaced over the upper press-wheel in sth a manner as to discharge the clay into the would on both sides of the press-wheel. The moulds being filld in this mannes with pulveruni cay, pass under the press-wheel twicefring the brick a double presure and shaving Geen smooth by means of a knife antached to the zachune. The brickis are then thrown ont of the croalde by an admarable contavance on a table कo ceah and of live machice, si therrate, the pro-
prietors say, of 5000 per hour, sufficiently hard to be attached to the kiln. As the whole works will be under cover, they can work as well to ramy or foul weather as when it is dry.-Scientific Farmer.

Potato Jelly.-'The potato may with ease be made into a rech and nutritious jelly, and the process should be generally known. It is as followa: Let a coupte of good stecd, mealy potators be wached, peeled and grated; throw the pulp thus procured in a basin of waser andstir it well; let it stand a few minutes, and a suffictem quanthty of starch will have fallen for the purpose requised; pour off the water, and pour on bolling water, sturing the starch the while, and it will soon and suddenly pass to the state of $j \in t l y$. The only nicety required, is to be careful that the water is absolutely botung, otherwise the change will nat take place. On comparing this jelly with that obtained from Bermuda, a difficulty in discriminating between the awo wall be appareat The differense, however, becomes more obvious on applying sugar to sweeten the jellies, for then the superior flavor of the potato jelly is at once perceived, and it is equal, if not superior, also to arrow root in ts nutritious properties.

Laquier Ayple.-Three or four years ago, wo first sarr the Laquier, in Perrinton, at the house of Gideon Ramsdell, Esq., who has a yery estensivo orchard, and many finc varieties. Since that time we have propagated it pretty extensive'y. A shent time ago, a few specimens ef it were presented ux by X . Fellors, Eeq., of Penficlu. From one cl these retock the above outline drating. Mr. Feh lorrs seems to be familiar with the listory cf itsir.treduction to Western New York. He intermed us that it was brought from Lancaster, Pa, hy Col. Antis of Canandaigua, in the carly stulcreent cfitc ceuntry, same 40 or 50 years aso. It was, at that time, a popular fruit among the Dutchinhabitants of Penmsliania It is a very handsome, high faverid fine apple, and should bave a face in exery geca collection.
Fruit-medium size, llatish and censiderably forroved. Sjin-smooth and glass, ncestly corered with a clear red. Stall-short and rather tences, inertcd in a rather decp carity. Calyz-clesed ta a deep, wrinkicd bain. Flesh-white, crisp, end very iuicy. Flatar-iigh and pleasant. It is to cating frem Norcmilcr to Bars.

## Ptantiag Oranbirribs.

In its wild and natural state, the cranterry is found in wet stuations; in boggy grounds, in damp sandy lands, and on the low margins of ponds and strcums. It will live and grow in comparatively dry solls; but it will not bear fruit without its roots are immersed in water at all reasons of the year.

Soil and Cultivation.-The first object of the ativator should be to select the soil for his cranberry yard. Every wet situation is not suitable. The soil must either be sand, mud, peat, or a mixture of these. There must be an abundant sapply of water at all seasons of the year. It the ground is so situated that it can be flooded during the winter and sprong, it is better, but it is rot indispensable to success. The ground must be saturaied with water, either from springs, runaing streams, or the drainings from high land On the low sandy margins of ponis the water is not much affected by the season, a sufficient spp. ply of moisture will ascend, because the late zpaces betwren the grains of sand act as so many eapillary tubes for the ascent of the water; bul rhea the margin is compact carth or unmaxed peat, the dampress will not on that principle rise so the surface. In a selection of a situation for his cranberry yard, the calivator must observe Grst, whether the soil is of a loose, porous characser, easily permeable to water, andsecond, whether there will be an abandant suppiy of waterin fie driest seasons. If either of these two requilshes is wanting, it will be useless tc: hmm to attapapt the cultivation of the cranberry.
Planting and Culture.-In boggy grounds it madrisable so retan the top sod, and cover the! eurface wihh beach sand st $s$ can be easity prosured; if not, whin any sand that does not conmia lam or surface sath. Till recently the comcoon mode of setting out the vines was, after the bog was covesed with sand, it was marked off in parallel rows, like a corn field, and sods of wines net from three to four feet apart each way. The asua! method now 15 , to set in drills about swo foct apart. The vines are seprated, and only two or three uprigit stalks are set together, and ero placed from sis to iwelve inclesapart fengthwise of the drill. On wet barren sandy land, the upense of setting out the vines is much less tian cabaga
Cultings fom any part of the siem trill strike reasp and mor be uned where is is diffiryth or ex.
pensive to procure a sufficient quantity will room Where vites cannot be procured cranberries misy be sown. It is not certain but that sowing wis ultimately prove the cheapest and most expedir tious method. We know of but one instanem where cranberries were sown. The experimens was successful, and the ground is now thicklyse with vines.
The best time for setting the vines, we an unable to state. The common practice has bees to set them at any time when the weather woo: admit, from March to November. The spricit we should think preierable for sowing.
During the first season they are set, vines fro quently put forth numerous runners four or fin feet lang. The next gear the sunnros put font upright bearing stems, which produce cranber. ries on the thurd year. The vines do nct usualit become so thick set as to cover the ground befou the filth year.
Manure is worse than useless, and any vegetz ble or animal matter that will cause fermentation is injurious As a general rule, the mo:e barren the surface of the soil, the letter it is adapted mo the growth of the cranberry. The growth of th grasses in such situations will be fe cile, while the cranderry ebtaining its sustenance mainly from water and the atmosphere, groms luxuriantly and vill ultimately kill out the srasses and cbtah complete possessicn af the sal.

During the first three years it is better to pall out the grasses than to wait for the cranberry einet to overcome them. Bushes must be carefully remered no fast as they spring up, because if suffered to grow they would do great injurg. No other attostion is necessary, cxceptung that gocd fences must be maintained around the vnes to prevent the do predations of herbaceous animals.

Profits.-One bushel oferanberries to the squas red may be considered a goad crop from riso that have been set fire years, though we could cist particular instanecs in which four arid five bushe's have been obtaincd. Raising cranberries.is lim every other business in life; if a man judges righly, is prodent and industrious, he wit commonly sut ceed; but if hedepends more en rocd luck than on gocd management, in nine casescut cf ten he rith fiall. The cranberry fever is now running high amons us, and almest erery mon yea meet cshibin some symploms of the diseasc. That fortunes an suddenly to be made by all who cmbark in. the busincss we do not belicve; but that large, prosin

sutch as are above described, there is no dcubt. The experiment of Capt. Henry Hall, Hiram Hall, of Dennis ; of Capt. Edward B. Hallet and Edward Thacher, of this town, and many others that could be named, prove that the raising of cranberries in recd situations is a prcfitab'e business.
We know that some of the opinions which we bare given in this article will militate against the theories of a few of our friends; but we cannct help a. We have carefully examined almost every cranberry log and yard in the country, and have careBlly compared the infermaticn thus cbtained, and we know that our epinions are correbcrated and sopported by all who have had the largest experience th the business. We do not wish to discourage any from planting vines. Far from it. We say go chead. All we wish is to discourage men from ranning biindfo'd into a business, respecting which all the necessary information can be so casily and so meadiy obtained -Yarmouth Register.

Fire Cement.-Inquiries are being made, I observe, after a cement that will Withstand fire. For lime-kilns and suchLike igneous works, in this part of the country, a strong loam alone is used; but, not having access to any such, I bave lately used for the erection of one of Mr. Rivers's brick Arnott stoves the following composition :-Stiffclay, liqueGed to the consistency of yeast or thick cream, and passed through a coarse sieve, two parts; sharp sand, one part; and coal-ashes, one part, passed through the same sieve. The clay should not be so lonse as not to be made sufficiently stitf again by the admixture of the dry ashes and sand to be worked up as mortar. This composition assimilates sn much to What appears to be that of the "firelumps " and fire-bricks, that I have very Little doubt of its solidification when the fre comes to be applied. I propose to let the water dry out, as bricks are treated, before the fire is lighted.

Bots'in Horses.-The stage-drivers onthe routes leading from Albany to the western parts of tho state of New York, in giving to their horses on the road, mix qlittle wood ashes with their drink, which they say, effectually preserves them against the bots.

Cure for Colds.--Take a large tea-sproon-
ful of flax-seed, with two pennyworth of extract of liquorice, and a quarter of a pound of sun raisins. Put it into two quarts of soft water, and let it simmer over a slow fire till it is reduced to one; then add to it a quarter of a pound of brown sugar candy, pounded, a table-spoonful of white wine vinegar, or lemon-juice.

Note. - The vinegar is best to be added only to that quantity you are going immediately to take; for if it be put int the whole, it is liable in a little time to grow flat.-Drink a half pint on going to bed, and take a little when the cough is troublesome.

This recipe generally cures the worst of colds in two or three days, and, if taken in time, may be said to be almost an infallible remedy. It is a sovereign balsamic cordial for the lungs, without the opening qualities which engender fresh colds on going out. It has been known to cure colds, that have almost been settled into consumptions, in less than three weeks.

Distemper in Dogs - Pass a red-hot iron through the skin on top of his neck, and pass through the aperture a thick woollen string; this must be drawn round once or twice a day, to p:omote a free dhe charge of matter. If the dog is bound, give him some laxative medicine ; if eos loose, give a little strong salt and water, once a day. In many instances the same medicines that would be recommended to man, would in like manner prove benoficial to dogs.

To Mix Paints.-In mixing patits, ob. serve, that for out-door work you must use principally, or wholly, boiled oil, unless it is for the decorative parts of houses, \&c., then mix as for in-door work. For in-door work use linseed oih, turpentine, and a little dryers, observint that the less oil, the less will be the glogs, and that for flattecl white, \&c., the colbor being ground in oil, will scarcely requise any further addition of that aricle; asub object is to have it dull.

Farewall to Winter.-Fare thee well old Wintori After lingering thus long with usthou seemcat to be 'passing away.'

Thou'st laid aside thy icy-sceptre, gathered about thee thy slowy robe, and art only pausing to bidus adieu. The trump of Bareas which first heralded. dy coming is no longer heard, the spirit of the storm which proclamed thy stay has suok torest, and nows the united preans of cinging birds murmuring streams, and gentle zephyrs note thy departure. We sorrow not at thy going, nor would we wish to say to thee a last farawell, but hope in thine own good time to meet again. Though thy aspect is eften stern, yet it is not always unlovely-it is sametimes beautiful, yea glorious. Thcu art called cruel, but methinks there are come latent sparks whichoccasionally warm thy cold heart, and almest corce a smile upon thy dark visage- In the raidst of ty severity, thou art sometimes kind.

But thy reign is over.. Thy fetters, which bound the blue watcrs, are breken, and they leap joyously ia their freedom, and earth no longer wears, thy saor-white muntle. Thy sparkling corenet and icy throne have melted away, as frem the lucid chambers of the syuth, the joyous spring looked out and swided, and thou must be gone cre thy glery has all đeparted. So fare ye well, till the ever moving ohariot cf time shall bring thee back again.

To make a strons Water pronf Glur.-Dissdive common glue in water in the usual way, and dip into some clean paper, sufficient to take ap an ounce or more of the glue. When the paper is nearly dry, roll it up, or cut it into a widemonthed phial or flask, with about four ounces of adeahol; suspend this over a fire so es to bonlt genty for an hout, having the cork set in sughty to prevent its taking fire, but not so as to peevent the escape of the vapor eatirely. Then take out the paper (the only use of which is to give the glue more surface for the action of the aleohol) and add one onnce of gam-shelac in powder. eontinue the hat, often shaking the misure :ill tha shellaz is dissolved. Then evanorate is to the proper consistence for wee.

Note-Many experiments have been made, in order to discover some aquecus sase, that when dy, woald resist moicture: and some have recoramended shimmed milk, and others vine gar, as \& menstrum for theglue. Butit does not apgear from trial, that either of these ase but very tule beter for this purpose thanwaser, nor:su
probable that any similar composition of size wh resist moisture much better than common gion, especially if it be mixed with sulphate of lime, of some similar substance by way of support.-Stientife Mechanic.

To make Ginger Beer.-Bruised ginger, : ounces; water, 5 gallons. Boil for one hou, then add when sufficiently cool, lump-sugar, 3 \} pounds; cream of tartar, $1 \frac{1}{2}$ ounce; essence of lemon, I drachm; yeast, $\ddagger$ pint. Strain, both, and wire down the corks.
2. Loaf.sugar, 1 pound; rasped ginger, 1 ounce ; cream of tartar, $\frac{7}{4}$ ounce; bolling water, 1 gallon. Mix and cover them up close for oct hour, then add essence of lemon, 15 drops. year, 2 or 3 spoonsful. Strain, bottle, and wire dona the corks.

Manure.-Put on your land all the manure that can be scraped from your premises, or that yor are entitled to from the rond. Leave not a particle in the barm-yard. It matters not how coars or long it is, if you can ploughit in. All youge from it before another season is clear gain, for i: will lose but little more under the ground winh crop uver it, than exposed to the action of the cas and rams in the vard. If at cannot be used, place it in heaps and cover it two feet thick with eanh which will inhale and retain most of its enriching gases till wanted.

An Ointment for a Pain in the Sille.-Btad two ounces of cammin-seed very fine; sift itand put to it two spocnfuls of neatsloot ont, and two spoonfuls of haseed onl: make it hot over the fire and anoint the side whith. Dip a flanael in the ointraent, and lay at on as hot as you can endureit.

To restore Tainted Meat.-II salted, rash ix and throw away the old brine, then replace it with the followng composition, and let it he in it for a few days: Fresh-burat charcoal, powdered, 32 parts ; common salt, 11 parts; salupetre, 4 pints. Mix. This must be used the same as common salt; and when you want to cook the meat, the black colour may be removed with clean watur.

To Cure Smblet Chimurys-T. Contract the draught. This is infallible, if properiy done. 2. Increas the height or crookedness of the chimusy. The more lurns a chimney has, the geator t: (usually) the dravgat.

To make the best Copal Varnish.-Take one poond of gum copal, and melt it in a flask over a brisk fire oi charcoal; at the same time in anoher flask, boil or heat to the point of bolling, zre pint of linseed oil ; as somn as the gum is melted, take it from the fire, and add the hot on in small quan.utities, at the same time surring or dahing it till they are thoroughly incorporated. sllow the mixture to cool Lelow the boilng point of water, and then add nearly a quart of tpirits of turpentine: cork the flask slighty, and apose it for a few days to the rays of the sun, which will make it work more smonth and stun. brg. If a larger quanitity is to be made, a copper boiler, that is snall at the top wilt answer to melt the gum in. For ordinary or coare work, a larger proportion of oil and a little rosin may be sdded. If oil is used, in which red lead and litharge (in the proportion of half a pound of each to a gallon of onl) have been previously boted, die varnsh will the sooner dry.-Sct. Amer.

For Wounds in Horses.-Whale wrung, 1 will give you the following recupe for a preparaton to cure wounds-in horses. I have never seen it published, if it is new to you, perkaps it may be of service:

Take one gill of turpentine, two gills of whisbey, and one egg. Beat the egg well, and mis the three together. It should be appled with a feather or swab iwice a day. It keeps a wound heaithy, and prevents its healing too rapidly. Far its efficacy I can wouch.-Cor. Alb. Cult.

To makc Tomato Wine.-To one quart of juice, pot a pound of sugar, and clarify it as for sweetmeats. The above $1 s$ very much improved by adding a small propornon of the jutce of the comanon grape. Thas wine is believed to be far better and much safer for a tonic or orher medical ases than the wines generalls sold as port.wines, \&ic., for such purposes. It is preuliariy adapted to some diseases and patticularly recommended Sar derangements of the hever.-Prairie Farmer.

Ginger Cake.-Flou:: 3 pounds; sugar and butter, each 1 pound; singcr, 2 ounces; treacle, 1 Mat; cream, $\ddagger$ pint; a little nutneg, Mis warm, and bake in a slack oven.

Gold-Coloured Sealing-Wax:-1. Bleached ${ }^{2}$ ell lae, 1 pound; Venice tarpersiac, 4 oumes. Helt and add gold-cyoresed tale asartequired.
2. Bleached shell lac, 3 pounds; turpentine, 1 gend ; Dutch livar, ground fine, 1. pcund.or. Liss.

Mix witha gentle heat. The leaf should be ground or porvered sulficiently fine without bcing redused to dust.

Bees.-When the weather is cool, take out the an-der loard, wash it clean, if any filth has accumblatedon it. Then whitewash the under board, and the inside of the hive up to the comb, and on the loncr cdge of the hive also. Put fine sall in the whitewash. . This promotes the health of bees, anach we think it prevents the intrusion of moths.

To Stop Diarrhaca-Take halfa pint of brandy and stir it with aniron nearly sed-hot, previously adding loaf-sugar sufficient to make at agreeably sweet. A spoonful or two to be taken two or three times a day.

Wash for the Hair. - The American Parmer says, a quarter of anounce oil of bergamot, put in a quart of uncolored New England rum, well shaken together in a glass vessel, and applied twice a day, is one of the best washes ever: apphed to the human hair, and preventsits falling out.

To Extract Paint or Grease Spots.-Dip a pen in spirit cf turpentine and transferit to the paint spot, in sufficient quantity to discharge the cil and sluten. Let it stand some hours, then rubit. Fer large or numerous spots apply the spirit of turfeor tine with a spenge if pessible, befre it jecemes dry.

To Extinguish Fire in Climneys.-1. Throw screral handfuls of flower cf suiphur on the burning. coals. 2 Throw scme wet straw, cr herse litter cn the fire, and keep sprinkling it with water. This must be neither so wret as to put cut the fire nor so dry as 20 burst into a flamc.

To bring Horses out of a Slalle on fire.Throw the hamess cr saddie, \&e. oper them and is. is said they will come immediatcls.

Frast counteracted.-As the blossoms of thais trees are more parncularly affected by early frosre, the following plan has be en recommended to counteract the injurious effects of the same: A row is to be intersooven among the branctes of the tree, and oneend of it 1 mmersed. in a pail of water. Thus rope is.is said will act as ergondactor and convey the eficter of the frost from the tree to thoware. Both hemp andstraw have.bego swarne mended for this purpuse.

To prevent Horses being teased by fics. -Take two or ihree handfuls of walnut Leaves, upon which pour 2 or three quarts at cold water ; let it infuse one night, and pour the whole, next morning, into a kettle, and let it boil for a quarter of an bour ; when cold, it will be fit for use. No more is required than to moisten a sponge, and, batore the horse gines nut of tie stable, let those parts which are most irritable be snee eed over with the liqum. viz. between and upon the cars, the neck, the flank, \&c. Not only the lidy or gentleman who riles out for pleasure, will derive bencfit from this preparation, but the eonchman, the wagoner, and all ethers who use horses during the hot manths.

To ascertain wohether a Horse has gooll simht.-Esamine the size of the pupil of the eye in a dull light, then gradually expose to a brighter one, and observe Whether it contracts of not; ifit does, the horse can sce, and according to the amount of the contraction will be the koenuess of his sight.

Grafing wax of excellent quality may bormade by melting together 3 parts of besswax, 2 parts of rosin and 2 of talluw. -DDowning.

To remóve Spots from Piece Goods.Dxmpen them over witha sponge dip. ped into a weak solution of pearl-ash and water, (from one to two ounces to the gallon, according to the strength or delicacy of the color,) and immediately roll up the goods, so that they may remain damp for two or three hours, ( sometimes a whole night is necessary; ) then hang ont to dry in the shade, never alloniag the sun to shine on them, or they wall be spailed.

Faltering Turkeys.-Experiments have been successfully tried of shutting up torkeys in a small apartment made perfecilly dark. They were fattened, it is said, in one quarter of the usual time The reason assigned is, that they are thus kept still, and have nothing to atract thair attention.

Importation of Saerp.-We learn from ife Albany Eventag Journal, that Mir. S W. Jewel, of Weybridge, Vh., has just imported from Ent land, ten yearing ewes, from the fumous Mend flock of the late Lurd Western In 1508, the Spanish Corteq tendered to the King of England five bundred Merino sheep to dispribute amons ha subjects. From itus fluck Lord Western was aliowed tu select furty. He was a diaringmished bueder In our last number but one, we gavo an arcount of has sucerss in forming a croa betwean the Mermo and long wortled breeds. In am was to "engrate the Menno wool on a Lek cester caic3se."

A portion of the flock were kept pure, except. ing sa sonv bneks were occasmonilly used. It h catd that Lord Western, by a judicious course of breedmg, mereased the weight of fleece, without drerroraning the fineness. Mr. J.'s mportation 15 from thes lot.-Des. Cul.

Simple Cure for Worms.-One spoon. ful cf'syrup of peach-Clussoms, taken in a glass of the water distilled from the leaves, or in which the leaves and worm. sred have bern drcooted, is a most sab and certain medicine for the worms in children

To cure Deafness.-Take clean, fins lack wool, dip it in civet, and put it into the ear ; as it dries, which in a day or th it will, dip it again; and keep is moistened in the ear for three weeks or a month.

Te Prevent the Nail growing tato the Toe.-If the nail of your toe be hard and ant to grow round, and into the corners of your toe, take a piece of broken glass and scrape the top very thin; ©o this whenever you cut your nails, and, by constant use, it makes the corners fir up and grow flat so that it is impossiblo they should give you any pain.

Butternut or IWhatc Walnut.-This aburdant tree in our country. Its sap affiords sugar equal to the maple. The bark of the roos of thus tree will excite a blister, and the bark and shofls of the nut dye a good brown color. A decoction of the inner bark is advantageousy employed as a catharic in the disease of horsee cailed the yellow water. The extract should, for medice enal purposes be made trom the nneer bath especialiy of the root, in the nonth of May or June It is an efficacious and mild laxative ta ${ }^{\prime}$ doses of from ten to twenty grains.-AlbrCult

THRESHING MACHINES.
-HE Subscriber begg 10 announce to the Farmers of the Gore and adjacent D.strict, hat - coninnues to manufacture THRESHING LACHINES of two, tour, and eIght horse-power. laving riade recent aprovements in his Machine nd obtained a Patent fur the same, he is, enaind to offer his Customers superior advantages. It thinks the large and increasing demand his lachme lias obtamed for several years past, 135 made and sold last year, ) is sutfictent evsence of their superiority.
He has olso commenced manufactunngSEPAsATORS, that can be applied to any horseower, wheh he will sell as low for Cash or aproved Credu, as can be parchased in the State ff New York.

WM. MEKINLAY. Yest Flan Boro' C. W. May 28, 1846.

## HAHILTUN TANNERY, (Directly East of the Court House,) HAMILTON, C. W.

THE Su3scribers thanliful for 2 all past farors, beg to remind their old Customers and the Trade generally, that thry still carry on at their old stand as usual, and hrving taken all the princtpal Premiums at the Annual Fatr. for the last three years, can therefore with confidence say, that they can supply them woth as goot, of not better Artic!cs, and at as low rates for Cush, as can be bought in any other establesidnient in Canada.
$\sqrt{3}$ Cash pard for Hides, Calf and Sheep Sians.

CLEITEVT \& MOORE.
IJamilton, March,1846. $\}$

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Topersons at a distance we srould recommend to procure their Fruit Trees in the Fall, more particularly where the soil is dry and warm: October and November, immedis tely after the cold weathes has arrested vegctation, is estecmed the best season of all for transplanting Trees. When Trees an transplanted in Autumn, the earth becomes censolidated at their roots, and they are ready to regetate with the first auvancement of spring

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Bytown, 10 th April, I 846. tr

## TO THE FARMERS.

INN consequence of the coatemplated clanges bs, the Imperisl Parliament of the Corn Laws of Great Britain, which, if carried into effect, will materialy alter the prespects of this Province as an Arricultural -Country, and as it will be incumbent on us to malie a hourc market for as much of vur suiplus putince as possible, the only way to do this is to encuuruge Home Manufactures; by doing this you will create e Market in the Country for a large amuant a your surplus produce at a much better price hith you can crpect to get by exporting it to other cowniries.

As we have been known to a great many of you for some time back, we do not consider that much is required to be said bj us, but that we lave gone to a great expense duriug the past jour in mucreasing oor Establishments both herc and at Slrectsvilie, by adding all the latest improvements in Machnery. We are enabled to offer a large stah of the fultowing articles manufactured by $u_{i}$, Cluth, twaticd and main, of different colors and qualities; baltinett, Twesds, Checks for men and women's wear, flannels, in all the different varieties, Carpeting of superior quality, and Blankes, which we will be reudy toerchange for any quantity or quality of wool, on our well ktown principle of

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Goorgetown, 13th Apsil, 1840.\}..

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3 . Toranto, Jen, 1845.

