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## dat fitld.

## Steam Oultivation,

## the enaine.

Is order that our readers may understand the merits and advantages of the different systems of steam cultivation, it is necemary that we briefly point out some of the leading peculiaritics of the various implements that compose what is known as a set of apparatus." First and foremont the engine, as the source of the Titantic energies employed, clalms our attention. Engines have been constructed on a variety of principles. Pablic opinion In Dritain, at the present time, howerer, seems to be declared in farour of three kinds, Smith's, Fowler's, and Howard's. That or the first named maker differs chiefly from thowe of Fowler and Howard, in not being constructed on the locomotive principle. In other words, it has to bo dragged by horses to the ficld where its power is

cessary driving porser to trarel from place to place. | reached, he take the seat, and grasps the guiding When wo come to treat of the comparative prime handlo at the othe: end of the implement, and so on. cost, and expenso of working the varions systems of In Fowler's systen, therefore, the engine is at one steam tacklo, we may have something further to say in reference to the clajms of Smith's engine on the agricultural community.

Fowler's engine, as we have already intimated, is constructicd on the locomotive principle, and moves along the beadland as the land is plonghed or caltivated. The plough, an in all the aystems, is louble acting; or, in other words, works back and forward cad of the furrow, and the "anchor" at the other. The latter is a simple, bat ingenious, self-acting mochanical contrivance. It is constracted with a frum on which the ropo is wound, while by means of large plate-like flanges on its travelling wheels, which peuetrate some ten inches into the soil, it moves aloag the headland, opponito to the engine, and offers the requisite amonnt of remistance to the power exerted on the plough. Travelling back and forward, then, between the engine and the anchor, the plough, or cultivator, may be aaid to bo attached to an endless rope, which is wound of and on the two drame, -0, at each end of the furrow. This ateel wire rope is composed of several "lengths," and may .be easily shortoned or lengthaned, to suit the dimensions of the field. Fowler's iocomotive travels on four wheels, and the boilex, as In most agricultural engines, is placed transversoly, or lengthrise, on the frame work. This arrangement, though
to be cmployed. It is, therefore, an might be expected, more simple in its construction, and much more moderate in its cost. The necessity of having a pretty large team of horses alwar at hand when it is to be remored from feld to ficld, and from farm to farm, is somewhat of a disadvantage. Still, so the steam-engine does not entirely supersede the use of lorses on a farm, but only necessitates the emplogment of a lesser number, this defect, In all probability is not so great as, at first sight, might appear. The employment of horees, oren when it is found necessary to hire thom, is neariy, if not quito as cheap as the expense liacurred by the conanmption of fuel in prodactog the ne-
 we expone the crown of the fire-box to be baracd." two seta of ploug lis ared on the same implement. (certainly the natural one, has, as we shall presently

Our second illusitation, which represents IIoward's plough, will ren ler this explanation easily understood. The two .. its of ploughs are constructed so as to balance on tiu whecis, and the weight of the ploughman, who steers the implement, is sufficient to introduce the pl 1 gh -sha:cs, and keep them in the soil at the required depth. When the headland is see, some important drawbacks. In moving along headlands where, not onfrequently, stecp inclinet occur, a great variation of water lerel naturally takes pluoe in the boiler. "In aseending an incline with tho fire-box bebind, wo drown the steam space in ita most productive positon, and in descending, knows how impor$\tan t$ it is to socure a. herizontal position for a tubular baller. Consequently an engine-man, generally apoaking, takes the precaution of "setting her looldng a little up" - phrase which simply signities that be prefers thesmoke box ead to be jual
a little moro cleratod than tho frebox end. With plenty of timo, and any quantity of picks and ahorels at command, it is, of oourse, quito possiblo to planta stationary ongino as armly and anlovel ona hill ahle as on a bowling green. Wben, howerer, the engine bas to adrance a feem feet along an inclined hendiand erery two or three minutes, the level of the bolter must ineritably be altered at each onvard morement. In such a caso, the engline-man is entirely at tho mercy of the slope he is working on, for the presenco, or absence, of water upon the crown of the Are-box. At the samo timo, the possiblo over-heating, or proper cooting of the tubes, and the object ionablo priming which tabes place when the water level is too high at the dre-bor end of the boiler, are entirely besond his control.
In their englae, as represented in our frst illustration, Messrs. Howard hare entirely overcomo those difficulties. Their arrangerment simply conelsts in placing the boller, with ito cyllinder and crank-bhan, acruss the frame work, instead of lengthwise, as in Fowler's engino. By this rethod the form and gencrally acknowledged adrantages of the locomotivo boiler are retained; while, on tho steepest hill, the steam epace is undiminished, and tho water level nover varies sumiciently to leave any part of the firebox or tubes uncorered. "In case tho field should Glape in tro directions, that is, if the surfaco inclines at right angles to the headland, one side of the carriago frame rould be lower than the other, and consequently the boiler (set across it) would 'pitch.' Bat then headlands are rarely, if ever, flat ; and tho engino driver, by choosing the right or lefthand side of it, can, in most casce, ensure that the wheels on one side stall be lercl with those on the other." The engine is monated upou three wheels, and hence it stands steadicr on ground that is not parfectly level.
Both Howard's and Fowler's locomotives are adapted to work on tho double ssstem. By this arrangement, two engines are emplosed at the eame plough. They work opposite to each other, and nove forward on the headland as the work proceeds. By the emplosment of two locomotires, " anclor," "snatch.block," and "windlass" aro unnecessary; while a considerable baring of time is effected. Fhen they flaish a field, ane of them instantly marches of with the plongh, cultivator or harrows, and the other winds up the furrows length of rope, and quickly follows. In commencing the next piece "there is nothing to be lowered into a hole in the hard ground, no heary apparatas to be lagged round the feld in a cart or waggon, to be left in instalments at tho several corners, no rope to be trailed round the same journey by a pair of horses, no windlass to bo carefully placed by 'backing' and 'locking,' \&c., the wheels dropped into holea purposely dag, held by stakes drivon down into ibe ground, attached to the engine by adjusted rod or chain, and the engine-sflecle secured in position by wedges drisen beneath their fellocs. One engine enters the field, takes the implement and trailing-rone to the far side, while the other engine takes up its position on the near side, and without more ado the tillage begins."
beas as a Lavocleainio Crop.-My peas giolded about thirty bushels par acre. Bot they are fall of bugs! Can nothing be done to get rid of this pest? Lato sowing is said to be a remeds, but it is often worsc than tho discase, as, if dry weather sets in, the crop will be light. A good, amothering crop of peas will sometimes clean the land as well as a summer fallow but a light cropleares it fonl. Notprthstanding tho bugs, I think that I bavo had no more profitablo
crop this seasua than these peas. Ihad forty of vines, nicely cured, brightadedsweet, which I consider mure nutritious than over-ripo and poorly-cured clorer hay. There was an immense growth of vines, and they nmotbered the reeds. I ploughed the land twlicy ailier tho crop was uff, and as the Doacon says,
it louks as well us a smart summer fallow, and in his it louks as well us a smart summer fallow, and in his
op pinun will , ire better wheat than if if had beon

## Rice and the Rice Orop.

The Nerr-iork Joumal of Commerce has the follorring interesting articlo on this subject:
This grain, which is one of the staple proluctions of our countryand an importantarticlo of commerce It has been estimatod, forms the principal food of nt least one-third of tho human race. Where it origi-
nated is not now hnown, but from time immemorial it has been the chief subsistence of the commou people, and a prime article of diet with all clases in Southern and Eastern Asia, whero it has boen most extensively cultivated. It has been supposed by some that it was in commnn usuamongst the ancients, and that it mentioned in scriptnre under a name
that is not familiar at tho present day. Its very early use is begond question, but we have no dennite accounts regarding lt, as wh hare of some other grains, nor is it found, like wheat forinstance, among too remains of antiquity. It probably bad its origin somenhere in South-eastera Asia, and from there Fas introduced iuto Southern Europe, where it is caltirated to some extent, but it has never been produced or used so largely in any othrr part of the
world as in India and China. It was frst introduced Forld as in India and China. It was Arst introduced
into this country bs Sir William Berkeley of Virginia. in 1647, who receired half a bushel of the seed, from Which he is said to have raised tho first year 16 bushels of excellent rice, and thus the cultivation of it was commenced and carried on. It has been raised to some oxtent in Virginia ever since, but the amount has beon rery small compared with that raised in some other southern Statee, and especially South Carolina, which has produced 75 per ceat of the rico crop of all the States. Various accounts are siren of its introduction into South Carolina, one of which is that in 1694 a Dutch brig which put into Charleston left about a peak of paddy (which is rice in the busk,) and that Gov Smith distributed it among his fricnds for cultiration. Another account states that it was introduced into Charleston from Canton, in
1772, by John Bradley Blake. The production of rice in South Carolina rapidly increased, and in 1550 it amounted to $150,930,613 \mathrm{lbs}$., the production of the wholo country the same year bcing $215,313,097$ lbs From these States the cultiration of it extended into others, Georgia rankingnext to South Carolina in the amount produced. It is generally supposed that a hot climato and wet soil are essential 10 its cultiration; but it ls raised on high aud dry land, and the range of latitude in which it can be successfully cultivated is very wide. Irrigation, however, greatly increases the crop, à does a warm climate; and there is probably no part of tho roorld better actapted to it than the low marshee of South Carolina and Georgia. On account of the extreme unbealthfulness of these regions, it has always been thought that negro labour alone could bo emplojed, the blacks haring the same immunity as in Africa from the ferer which is deadly to the whites. This opinion is undoubtedly correct. and unless the blacks continue the rultivation of these rice plantations, they will probably run to waste, and the amount of the crop irmer gears, when thero was nothing to interfere with its production. It is needless to say this would be a great calamity, as the rice from South Carolina and Georgia is undoubtedly the finest raised in any part of the world. At the great Industrial Exhibition at London, in 1851, the rice from South Carolina exhibited by E. J. Heriot, receired a prize medal and was pronounced bs the jury to bo "magnificent in size, colour and clearness," and the American was regarded as much the Enest in quality of any on exbibition. Its importance as an article of commerce may bo inferred from the fact that the amount expurted froma this countrg las reached as high as 212,983 tierces in a ycar.
It may be interesting to some of our readers to harean account of the mode of cultivation adopted on the rice plantations where tho overflowing of tho land is resorted to. The land selected is that which is abore the reach of tide or salt
Water, and which is not liablo to the heary freshets that flood the country on the upper parts of the rivers, as the irrigation must bo completels under control. The land is prepared by the erection of dykes and digging of ditches, and divided into as many soparate felds as can bo separately attended to, in tho rarious operations required, in a single dar, each field capablo of being shut of from all the rest. The felds are plunghed in the fall or carly wioter. and orerfowed when the weather is warm. In
March the land is druncd and hept dry, and nhen in a pruper stato to trork, it is hariutred or hoed, and trenches for the seed aro made 12 or 15 inclias apart, and running at right ungles to tho drains or ditches The meed is вown in tho ironches in Aprit, and covered lightly with soil, and thon tho wator is let in upon It through the grates and suffered to stand from rour
to six. deys, until the grain begins to swell. The
water is let in a second timo when the hlado is just
abovo the ground, abd alloral to romain about the gamo length of timo, when it is thoroughly drained. In about ilro or six weoks the Irst hoeng takesplace, and a fecond ubout ton days later, Fhen the "long water," ns it is called, is let on for tro wecks, deep for fuur dags and gradually diminishing untit it is daained agath. When the feld becomes dry it is hoed again. Un the appoarance of a joint it has another bocing and the "joint water" is put on, which remams until the grain is matured, a period it may be of tiro months. A few days beforo cuttlog, the water is drawn off for tho last time. The rico is cut with a sickle, and after threshing another important operation is to ve gone through, the removal of the hask or shell, which closely envelopes the kernel, and to which it adheres with great tenscity. This was formerly accomplished by braying it in a morter, and thesame course is nor pursucd to some extent, but mills are constructed in whish it is partially ground, without destroying the kernel altogether. Tho wholo is then run through a graduated cyhader siore, similar to tho screcns by which coal is assorted, and the hulled rioe comes ouv in three separate parcels or grades, first the llour and fino picecs which have been abraded by milling, then the " middling," and after that tbe " prime" rice, which consists of kernels nearly or quito whole. Tho prime rice is subjected to still another process, which is called polishing or brushing, and which is effected by running it through a rapidly revolving wiro screen, lined in part with slreds of sheepskin. This removes tho flour adhering to tho surface of tho kernels, and the rice is then ready for market. Tho prime rice is the rice of commerce. The other portions are reserved for homo consumption.
Tho chemical properties of rice adapt it much more for use in warm than in cold climates. It has a great amount of starch and gluten in its composition, and very little oil, so that its nlesh-producing quality is limited. Whether from the knowledge of its chemlcal propertics or as the result of long experience, it bas come into very extensive use in the warmest regions of the glove, as in India for instance, where the heat is most intense and long continued. It has always been in much more general uso in the Southern states of our own country than at the North, but it is an article of extensiso consumption in all the States, and we think it might bo still more largely used with great adrantage to the general health, especinlly during the summer season.

## The Potato Disease.

Tuz Irish Furmers' Gazette says on this subject: $\because$ During the present prevalence of the potato disease in somo parts of Ireland, where Peruvian guano and other ammoniacal stimulating inanures are so universally used in the cultivation of this plant, most particularly would we desire to draw the attention of our readers to the following statoment of Baron Liebig. Offrntimes, through the columns of the Gavetle have we directed our readers, previous to the putting in of the potato crop, to substitute the uso of the l'hospho-guano or other manures rich in phosphates for the indiscriminate use of the Peruvian or bighly ammoniacal guavo. Year after year lave wo tho sad experienco of the potato disease to record. Liebig tells us plainly what should be done to alleviale the disease, and field practico has most universally and decidedly endorsed his statement in proof that plosphates and polash, not ammonia, are the vements the potato requires, and must hare, in order to effect ity healthy and vigorous development, thus providing the plant with the power, in a great measure, to withstand the climatio intlucoce which, in its weak state, it so easily and readily falls a proy to. The statistics of this year
will sher that the increased uso of strong ammoniacal manures for the culture of the potato is accompanied with increased experience of the disease.
"Though tre cannot over-estimate the value of well-saved farm-yard manuro for special and judiciors application, we thiak that its sole use for the cultivation of the potato is much to lo deplored; its proportion of phosphates must be increased if probtable results are to be looked for in the potato crop.Err another senoon passes over our heads we carnestly trust that the cultivators of tho potato will seok to apply to the land intended for its growth thoso rements necessary and essential to its healthy and vigorous developinent. If the indiscriminato use of aromoniacal manures bo continucd in polato culture,
it will most assuredly be accompanied with that irregular and weak cxpansion of tissue, at the ex pense of the quality and strength of vital sap neees gary to euable it to withstand the clima ic influence ycarly brought to bear upou it. Ae in the caso ol animal life, so is it in regetable life-conetitutional orerstimalating food."

ADDRESS Of 3L, JCSTCS DARON FON LIEBIG TO TAE AOSDEMY OE SOLESCES AT MENTCI.
"During last year, oxperiments rolativo to the establidiment of lams on tho nutrition of plants have been pursur , tho Instituto of Physiology of Plants, under direc iof Professur Negedi and Dr. Zaller. There experiments wero mado upon tho potato, as tho plant most important for food after tho cereals (corn). Thite dulds were prepared for experimentlig on; the first-cumposed of mould (pulrerised peat) from the turf beds of Kolb ; the second, of the samo soil, mised rith ammoniacal salts, as the principnl agent in animal manure ; and the third of the same mould, to which was addod the fixed elements same monld, to which was addod the ixed elements
constituting tho ashes of the potato. An equal numconstituting the ashes of the potato. An equal num-
ber of tubers of the same lind were planted in each feld.

Withont detailling the various stages of derelopment, I will confine myself to calling attention to the differences between the crops. That from the land manured with the ammoniacal salts was 20 per cent. larger than that of the field No. 1, which had receired no addition; but that of the third field (which had the manure of phosphate of lime and of potenh) was nearly triple. The proportion of the three crops ran thus- 100,120 and 285. Tho quantity of potatoes gathered on fleld No. 3, to whech had been furnished the elements composing tho ashes of the Fant, wa3 282 hundredreigbt to each vorkman, -nearly double the crop given by the best arable
"The results so very different of the theec experiments can only bo attributed to tho different coraposition of the land of the thres fields, all other condi. tions being identically alize. In the troo first, a number of circumstances rere to produce in the subterrancan organs as many organic sabstances (or tubercules) as in the third ; or rather, which is the same, to take from the atic as sum equal to their constituent clements.

These indications, although important enough in themselves, ure nerertheless not the most remarkable results of these experiments; for here is the precions information they give us: All the potatoes gathered from the two fielids mhich, by the cumposition of their soil, presented the elements necessary for the development of the plaats only in insumcient quantity, or ill false proportous. were the prey of disease. Frum the shass, whech became black, decomposition spread, and at the end of a fer weets had thoronghly gone through the interior. In opposition, the polatoes in the thard field. manured with
thu firud clements of the plant, are now (Dec. 1) the fred clements of the plant, see traces of the ravages commonly attributed to the oidium. Ifence, from these observations we see that undoubtedly the conditions farourable to the normal derelopment of plants are also those rhich prevent disease, and that in consequence the fir canse of the disastrousepidemic shond be sought in tho land. If the land presont in sugicient quantity the elements indispensable to organic late, wr the gruwth of the plant, the later reccires the porrer of opposing resistance great enough to paralysi completely all hurtfal induences which can afect it from outside.

These facts throw the greatest light on the diseases of regetables in gerurat, and on that of the rine in particular. Oh, tha' man would remember that the land rlich has furnshed him with the most important elements of his body expects to be cared for by his: with discertirar.nt and solicituise! Only on this co?dition can the faiure and exieaenco of his descendania be assured. The cunsequence of the infraction of tuis great law will fall in divers ways on their children and their descendants to tho thousandth generation.'

## Irrigation of Pasture Land.

For sereral years, Mr. Isanc Brown, 50 Dick Place, G.ange, Edinburgh, has been endearouring to conrinco farmers of the good results upor. grass crops of irrigation by pure water. On Thursday afternoon he exhibited his rystem of disiributing rater orer
the Iand in a small Ged adjoining his house. Among the agriculturists present were Mir. Rubert Binnie, Scton Mains, East Lothian ; Mr. Milne, Niddry Mains Mr. Curror, Myreside ; Mr. Hutchisun, Kirkualdy Mr Suttie, C. L. to the Lands' Inprovement Company, sec. The general opinion appeared to be that Browns plau was superior to that of any other pre-
riously introduced. It consists of a serics of leaden pipes, placed 11 yards apart, from which tho water rscapes in small juts at rarious angles, and falls on the ground in the form of a gentlo shower. The distanco between the pipes requires, of course, to bo regulated by tho amount of Fater pressure. As abowlag tho adrantago of Mr , Drorn's method, it may bo mentionod that in 10 di , with Fater from the river Eden, in Cumberlani,
sovon crops rerere out from tho first of May to the first Wrek in Octobermeach crop aroraking 1,000 stonos per acro, or equivalont to about eloren tons of dry hay for tho soven cuitings. Niext yoar, from tho last Frek in April to the secund week in Suptember, six acre, or equivalont to moro than nino tons of dry hay for tho six cuttings. A light dressing of a mirture of saper-phosplate of lime, nitrato of soda, and sulphate of ammonia, was given to every second crop, and had tho effect, with such a supply of moisturo, of maintaining the growth from the beginaing to tho enil of tho season, although the heat in both jears was much bolow an aserage. In theso cases tho pipos wero laid at a distanco of 15 fards apart, and having a prossuro of 70 feot of wator, throw a reguar shower over the whole ground. at Battersea, in
1862 , with a pressure of irom 150 to 250 feet of water, obtained from the water-works, tho pipes wero laid 20 fards apart, and the fround was most effectually moistened. The present crop at Grange is the third which has been grown ujon tho ground this season. Tho land was bown with Italian rycgrass on the 15th May, and a crop, 2 feet in height, was cut on the 23th of June. In 21 days afterwards a crop of the samu height was cut, each cron giving five tons of Italian ryegrass per acre, mhich was sold at 20 s , a ton. The third crop of grass will buready for cutting on Satur day first. Future crops, it is supposed, will be better than thoso previously cut; as, tho seed having been only somu in May, tho plant is not yet dereloped for full bearing, and it is estimated that as yet only two-thirds of the ground is properly covered rith plants. Cutting erery threo weels from the first of April to tho midalo of Octobor rill give cight crops. Thas 40 tons of Italian ryerrass may bo safoly calculated on, and with artificial manure giren to erery alteraato crop, the expeaso would not be over £is per acre in the year. To cor-fecders and others, ryegrass is worth more than Ll per ton, and 3 Mr . b. Own estimates that by his ssatem tho price of cultiration would not be abore 4s. Gd. to 5s. a ton after the pipes are laid down-the cetire eost of laying, with interest un plant, fucl, \&c., being undur £ 20 an acre. Granting money on the land drainage system, interest at $6 \exists \mathrm{FC}$ cent. it is calculated that the profit on the growth of Italian ryegrass for the production of milk iathe vicinity of large towns rould be from $£ 20$ to $£ 30 \mathrm{n}$ acre. The Grst cost of pipes will amomint to from .. 12 to fl 5 per acro, which no doubt seems a large sun.i, but as the difference betrece the new and the ohd iaterial is comparativaly trining
irriratuts was Mf, Brunn's method can, if $\cdots$ tho wors irrig.atots u.t M. Brownis method can, if " tho wors
shumh cume to t worst" which is not at all likely at any time sell ic old pipes for rithin 23 or fit of their original co. .-scollish Farmer.

## Honry T'Tard Beecher's Farm.

Tmis furm is at .'echskitl, Westchester County, New lork, about two .ales from the railroad station. It contains forty ac sof excellent land, and is pleasantly situated wi u a sumbern aspect, commanding an extensive and most charming punoramic view of the IIrdson river. the high and surrounding mountains, such as no we knows better how to aspreciate and enjoy than the: ruralloring owner himself.
When Mr. Becher purchased the place, a few ycars ago, there was scarcely a fruit tree of any valuo upon it. Now thero are twenty-fre hupdred choice fruit trees, most of then already beginning to bear. He has crected a large model barn, but as yet occupies the humblo cottage he found upon the place, though ho has mado important additions and improvements.
Mr. Beecher is eonverting tho place, to a great ex tent, cxcepting a extensiro lawn in front of the house, into a frait and regetable farm. Ho has nearly an acre filled with Delawaro and lona grape rines. And as tho trees are yet small, ho has raised among them
this year betreen seren and cight lundred barrels of onions.
Around his little cottage Flora reigns in all her glory. Thero is the greatest profusion of all the choicest flowers, and the wholo air
their sweet and mingle perfanes.
Tho barn and out-buiddings are well stocked with ine horses, oxcn, choice breeding cors, stine, forls, ett. This autumn, Mr. Beocher bas been making many improrements in the drainage of his lands and the arenue to his house : all adding greally to the value and attractiveness of the place.
Tho induenco of a farm conducted like this, though all farmers may not be ablo to adopt all tho improve meats that haro been thero made, must be of tho
greatest bencft to tho agricultural interests of any greatest bencat to tho agricultural interests of any 0 all the fring as rell as religtous lnterests of the country.-Correspondence of the Boston Traveller.

## Esterminating Oharlook, or Field Mustard.

(Sinapis arwnsis.)
We know of no reced in tho grain-growing districte of Fino York, that is 80 difficult to exterminate as this. Canada thistles, daisies and dock, can be cradlcated with facility, compared with this. Field mastard is an annual plant, having leaves like the turnip, and bright yellow flowers. It starts from the seed at any timo betweon ensly spring and late autamn. The planta grow rapidly, and produce a large number of geeds in a short time. In ordinary seasons, two cropa will maturo on the same deld, but winter kills every plant. The secds will romain in tho gronnd a life time, without losing their vitality. We hare cultirated a field of sisteen succebsive seasons, allowing no mustard to go to scod; but deep ploughing brought seed to the surfaco the seventegnth Year, so that the round was nearly covered with the joung plants.
When wheat, rye, barley, oats, thax, and such crops are raised, if there is mustard seed la the soll, it will appear, and will ripen its seed before the crops. Much of the seed will shell out whilo the graln is being harveated. If it should not be covered with earlh sufilciently deep to promoto vegetation, it will remain until the next season, or undl tho molifore and heat happen to be just right to canso germination.
There are tro things indispensably necessary to exterminate mustard. One is to allow no seed to maturo ; and tho other is to cnltivate auch crops as will induce all the secd to vegetate, that the plants may bo destroyed before they go to seed. Graln haring mustard sced among it, should nerer be fed to stock until after it is ground into meal.
When mustard comes up very thick, harrow the ground thosnugly, as soon as the crop of grain has been remored. After a few reeks haro elapsed, harrow it again. This will destroy most of the young plants in the sced leaf. Anter this, use a cultivator instead of a harrow. Theso repeated scarifyings will cover the seed and bring others near tho surface 0 that a large proportion will regetato and die before Finter. Tho noxt season harrow the ground early is tho spring so as to start a nem crop of the seed. Plongh itsoon after the time for planting Indian corn. Harrow again in about two weeks. After another fortnight, plough and sow buckwheat. is soon as the buckwheat is harvested, harrow the ground again. The next season manure well, and raise a hoed orop; and allow no musiard to go seed. Nest sow a crop of winter grain. The mastard may now appcar quite thick. But none of it will haro time to ripen before minter, when every plant will die. Alimited namber of plants will appear the nert season among the standing grain. When they aro in full blossom, let rery ono wo pulled. A careful, insthal maa wil be able to pull all the mustard in a day that Fill appear manner recommended. After this any kind of grain may bo raised. But for moro than trenty years,
muetard rill come up every season, and must be pulled up before it ripens. This is the ouly way that our cultivablo ficlds can bo rid of this pestiferous plant. Incessant vigilance from year to year will exterminate it effectually.-American Agricuiturist.

## Odds and Ends of Farming Facts,

FROM TIE MARE LaNE EXPRESS.
Tre fact seems frequestly to be overlooked that weeds do more than merely occupy the space of they exhaust the soil almost as much as the valamble crops. We sas "almost:" for, in tho absence of direct experiments upon the point, we only conjecturo it ; but wo may say that the conjecture is well founded. So far as analyses have been carried ont, Professor Buckman shows that field-weeds carry ofi from the soil an abundant supply of alkalies and phosphates.
The extirpation of weeds in pasture-land is best brought about by continual mowing down of their leares. Let the "fact" be always borne in mind, as the groat anthority on weeds says, "As the leares are tho lungs of the plant, never in
allow the lungs to develop themselves."
A steep for seed-wheat is thas given in a contemporary journal: "Mir one pound of chloride of lime with one gallon of Fater; ailer which, lot it solution. In this, steep the soed-whest for two hours; then drain, and dry with a sufficient quantity of sand and asbea."
The proportion of hnak of the bean in pod to the geed If 141586 . The arerage Foight of a bean

The strans per acre of the rheat crop amonnts to, on an arerage, from 3,000lb. to $3,6001 \mathrm{l}$.; of the ont, $2,5001 \mathrm{l}$. to $3,5001 \mathrm{~b}$. ; of the barleg. 2,i001b. to $2,5401 \mathrm{~b}$. ; of the rre, 4.000 lb . to $5,0001 \mathrm{l}$. ; of the bean, $2,7001 \mathrm{lb}$. to $3,200 \mathrm{lb}$; of the pea, $2,700 \mathrm{lb}$.
The following are average grosa crops of the seed-producing plants of the farm. Wheas, 25 to 30 bushels; oata, 40 to 60 bushels; barley, 35 to 40 buabels; r50, 25 to 30 lusbels, beans, 25 to 30 wuhels; peas, 25 bnshels.
Tho following bas been recommonded as a manure for tho turnip crop: Tro crt. of superphosphate, one CFt. of bonedust, half-ewt. of guano.
Tho kobl-rabi-erroneously termed the "turniprooted cabbaga"- is held in high esteem by some feeders. Mr. Baldrin, who has experimented on the plant, states, howeper, that, as a milk-producing plant, ho has not found it to be so valuable as some bare stated it to be. The troo name for it is the Brassica rapo-brassica. One great adrantage the root undoubtedly possesses is, its power to resist sorero frosts. We bare had crops of it cut in the sererest rinter we can recollect; and we foand them, after long erposure, as soand as coald be. We do not, hoferer, recommend them to be giren to the cors in a raw, cold state: they are botter coolsed.
The kohl-rabi requires heary manaring: 25 tons of dung to the acre is the least which shonld be giren, and to this should be added 6 ckt . of superphosphate and 2 cxt . of common salt. Like all the cruciferous plants, the kobl rabi requires this last constituent ; it is essentially a marine plant. The best crops aro gropn from transplanted plants: 8 ounces of aced rill raise plants enough to stock an acre. The ficla ehould bo prepared the same an for turnips, in drills, with 27 -inch interrals. The plants should bo dibbled on the summit of the ridge of the drills from 9 to 12 inches apart. The plants shoald be transplanted in May, June, and up to the end of July. The secd in the seed-bed should be sown for these transplartings respectively in March (beginning), second week in $\Delta$ pril, and first week of June.
Stockhardt estimates the amonnt of nitrogen taken by the hay crop per acre at 69.77, equal to 1293 lbs. of ammonia; Licbig at 66 , cqual to 104 lbs. of ammonia ; and'Boursingault at Git, equal to $119 \frac{1}{2}$ bs. of ammonia.
The following analysis of the ash of turnips is by Bonrsingault. Potash 41.96, soda 5.09 , lime 13.60, magnesia 634 , phosphoric acid 753 , oxide of iron 128 , sulphuric acid 1360 , chlorino $12 \cdot 60$, silicia 7.95.
In raking superphosphate, Dr. Andorson recommends the following proportion of the ingredients: Ono toa of inch-tize bones (that is, bones broken to such a size as to allow them to pass easily through a ring one inch in diameter), $t$ ton of salphurir acid, co gallons (or + ton of bouling water) The following is the way of making it: The cistern ehould be made by preference of lead, or strong kood, and a watering ressel of lead. The bones should bo spread in small quantity upor the bottom of tho cistern, and the acid gradnally poared in apon of the cistern, and the acid graduan ap the same time a quantity (proportionate to the acid) of the boiling water.
In dibling wheat, experience has shown a good distance betreen the rows to be 9 inchen apart, and the holes 9 inches in the rows, thas making a series of 9 inches squarc. Wo havo fonnd 12 inches equare to gire the best results, although we have seen it stated that 6 inches square are the begt. This, we should say, is too small. The depth of the holes should not exceed, nor bo each leas than 2 jaches. The number of grains to put into each bole has been disputed: certainly tho minimum is tro, but three is a ugual aumber. At 5 iach distance a good dibbler ghould with three droppers get over half an acro per day.

## An Excellent Gate.

Ayova a number of atgles of fences and gates on exhbition at the Now York State Fair, in September last, wo were particularly pleased with a newly invented gate, of which wo now propose to give our readers a brief deseription, with accompanying cuts. This gato consists of an npper and lower bar, with pirkets put on at right angles with the bars. The cut at the top of next column, shows the appearance of the gate when it is shut, and it will be obserred that the upper baris considerably longer than the lorer one, having on the projecting end of it a box which is fillod with sand or grarel, to opersto somerthat on the plan of tho old-fashioned well sweeps, and the rough gates you sometimes sec piroted by means of a pin on the top of the post. This sate opens by virtae of the way in which the pickete

are put on. They are fustened with sorows, which, by means of boring and rimming the pickets, fit thom rory loosely, while they are tightly driven unto the bars. The gate is bung uyon a three-quarter iron bolt, the head of which is plainly shown in the cuts, and which goes through the top bar. An oak pin through the bottom bar works up and domn in a slot which is also slown in the cuts. On lifting the free end of the gate, the pickets easily slide in the mannor seen in the second illustration, niich represents the gate in the act of opening.


The piekets continue to close upon each other, somerhat after the manner of a lady's fan, until tho gate attains the perpendicular, whon the whole thing is tightly brought together, and presenta the appearance shown in the third cut.
The posts may be as usual of cedaror oak logs, the one cis which the gate hangs being flattened to receive the outer plank. Or the post may have a four inch space cut in the top, and the slit may boformed by nailit, strips on the inside of the post for the pin to work in ; or the post may consist simply of two upright planks, as shomin in the cuts.


We consider this, on the whole, the best farn gate wo know of. It is easily constructed, so much so that any furmer can mako at for himself. It is light. and yet strong ; properly put together, it is not liable to get out of order. It can never be left lalf open, and is not, therefore, liable to damage by the carelessness of teamsters. It must either bo entrely shat or ontirely open. The chronic dificulty with gates, viz : troable with the hinges, is avoided on this principle. Finally, it is an excellent winter gate, as it can neither be blocked up, nor racked by attompts to draw it over an acoumalation of ice and四OT.

## The Brocucr aud crazier.

## "Infiltration" of Meats.

Sthenst. cospriments in the comparatirely new process of intilitratiog meats so as to preservo them for food, were mado last week at a packing establishment, in Now York, in the presence of a considerable number of persons who had veen iarited to fitness them. Among the number vere Drs. Sayres, Crane and White, besides sereral well-known men in the provision trade. The experiments were made under the direction of Dr. Courtnes At rood.
The process rias invented ly Prof. John Morgan, of the liogal College of Surgeons in Ireland, aud a full description of it was prepared loy him and published in the Journal of tho Society of Arts. Liebig declares that the process is founded on correct scientife principles, besides beiog simple, rapid and ceonomical ; and ho makes some important fuggestions in regard to the care of the meat after it has been treated or "curcd."
The process requires the proper slaughtering of the animal by a blow on the head. Tho chest is then opened to expose the heart, rhich is immediately plerced on the right sido for the discharge of the blood. The carcass is then ready for operating ; and the process is analagous to that of injectins a cadaver for the purpose of disection.
A pipo is introduced into tho left rentriclo of the heart, passing into the aorta or great artery, where it is firmly fastczed with a cord and noose. The pipe is then connected by a coupling with a stop-cock fied to a floxiblo tube, to a tank filled with brine. This brine caters the great artery, traverses all the arteries and capillaries, and passing into the reins, issues from the incision in the right side of the heart. This thorougbly frecs the blood resselg from tho blood and lymph which would interfero with tbe preservation of the muscle. Fromfive to trenty seconds only are required for this operation.
The incision on the right sido of the heart is thet closed. The fluid used-ordinary brine or any similar sabstanco-is injected into the arteries, to make the circuit through the capillarics and into the veing, thoroughly distending all the vessels. Efery tissue of the body is thus saturated.
After about forty minutes the carcass is to be cut into pieces of suitablosize, and pressed or bung up to dry in a roum haring a good current of air. A well ventilated chimney is a very proper place for the purpose

The addition of certain substances to the fluid employed has been suggested, as sugar, small quantities of phosphoric acid, (to coagulato the albumen and prevent scurvy, spices, \&c. "Pickle" and saltpetre, or nitrato of soda, aro all that aro really required; but the additions improve the meat.

## A Plea for Pork.

Ir is getting to be the fashion among a certain class of peoplo to decry the use of port, as being unwholesome. It roold seem that tho use of it for centuries among civilized nations, as animal food, must establish the fact that it is not injurious to the health of man. It is too lato in the day to commence a crusade against pork. Some few whoso tastes have become vitiated by luxuriant living, may, perbaps, be permitted to declaim against the use of swino: geth ; but men of temperato habits, engaged in the laborious occupations of lifo, know from expericnce that the uso of pork and hams is conducive to the health and strength of the body. It is to be borno in mind that the varietics of animal food obtained in any given place aro few. If pork fere to be dig. carded from tho table, becf and mutton would then be the principal animal food, and it is manifest that in very populous countries, tho supply would not bo equal to the demand. The common people especially rould be deprived of an important part of the food, now deemed essential to their living. Take away from them the pork which now they iry or boil, the hams whioh they justly value, and the lard which every cooking establishment must have and use, and what a deprivation every cook at once experiences. Butter might bo used in many cases instead of lard; but the latter is an essential ingredient in the dough nut, which we all of us prize so highly. You discard pork, and you must discard lard ; and this you cannot do, without greatly ourtailing the mrans of comfortablo living. Among the good gifts of Previdence to largo numbors of our race we certainly may congider swine to be one of thern.
Tho objection to tho use of pork, that its tendenoy is to produce scrofula, is of no weight, because it is a mers assumption without proof. It is taking a thing for granted that is denied by the community in gene-
ral. It must be admitted that the class of farmers who laigely use pork, are as healthy and as freo from scrofula as any other clase. Tho American people of the rural districts are not tainted, or affect d by scrofula. If you will inqniro within the circle of your acquaintance, you will find this to be a fact. but consider how lat go an incomo the farmer derives from raising and selling his pork-low extensive is de commerco in this branch of business. Go, for astance, to Cincinnati or Chicago, and visit the elaughter houses and pork cstablishments, and you will bo astonished at tho extent to which tho pork business is carried.
In conclusion, Fo are forced to say, that instead of wishing the quantity of pork to bo diminisbed in our country, wo would raiher wish that it might be an be its substitute and mect the wants of tho com munity.-Iutea Mumestcud.

## Farm Stock.

Tue raising and care of stock demands the attention of cvery farmer. Tho manner in which he performs this part of has labour, is a very true criterion by which to judge of hus merits and success na a farmer The man who keeps a lot of lean, hatery looking cattle, is not the man to stand lugh as a farmer, nor to find farming very profitable m the long run. Viar
too little attention is paid to the choice of stock. Very many farmers, because they can get a litthe more money from the butcher for a nice calf than for a common one, sell the best and raise the other. But this course, except for a very short tume, is tar from being proftable; It is a law of nature that "like produces like," and from this law there are few deviations. Now, the larmer who rases an mferior
calf, not only makes sure of one interior anmal, but all the deseendants of that animal will be a low grade. This is an item worthy of consideration. The difference in the ralue of a good and an inferior cow, for the purpose of raising stock, is very much greater than the difference in the price. Feeding is an important part of the care of stock. The best breeds of animals, unless well fel, will be of hitle profit. Mang farmers seem to think that the greater the number of
cattle they can keep on a girca quantity of hay, the moro profitable it will be. But thes is a mistabe. The old maxim, "anything that is wurth duing at all is worth doing well," is cminently true of feeding stock. It is cruel and unprofitable to kecp an animal so short for food as to hare it grow poor. Cruel. because nearly all the comfort and happinces of animals consist in gratifying the appetite. Unprofitable, because they are losing fesh, when by a more liberal fecding, they mould be gaining in llest and ralic. Somo farmers sell tbeir best hay and feed their poorest, and seem to thint they are on the high read to wealth. They are on the road; but they are moving backwards. Good cattlo can no more be raised on poor bay than a good house can be built with shaky boards. In either case thero is an utter impossibility, because the materials used are not of the right description. Good breeds, good care, and last, but not least, good feed, aro the three principal, essential elements of success in this department of farming.-Cor. Rural American.

Feedno Peas.- When peas are to be fed to swine without threshing, those who practice feeding them prefer putting in large stacks. Then, thoso that are wet by rains can be fed out before they havo been injured. If designed for sheep next winter, it is betfor to house them, or put them in long and narrow stacks, and cover with a lean-to roof of boards.
Breedng Mogs.- $A$ recent writer says: "Blecding is a remedy for most of the diseases to which a hog is liable, and one of tho best places to bleed a bleeding from tho artery insido the forc-arm just above the knee, because it is more difficult to stop the flow of blood there than in the roof of the mouth. In the latier place it is stopped by applying a cloth well saturated with cold witer.
A New Dodge for Getmig over a DiffictlityRiding a high-couraged maro the other evening up a narrow lane, I met a threshing machine coming afty yards, there was a me. Of course, when within the men came forward to lead the mare past, but she reared up, and would go no nearer; the other then camo up and said, "Let me have her, sir, and IJt warrant sbe'll go, for I never saw one that I couldn $t$ get by yet." Ithen got off the mare-for there was barely room for her to pass between the machine and the hedge-and he began rubling ler noso with his oily bands, when he took her by the reid, athe leil her by the machine. withou furilur truub:
in The सield

Cenrcoal ror Shate-- il' your yrine charcoal Its nutritive qualities are uca, that they subsist on it for weeks logether witho. . 0 der reod. Geese, when conflacd so as to depriro se a of motion, and fattened on the grains of corn les ured, have become fat in eight days. Ilogs eat to aciously after a littlo ime, nad are never sick: bil they have a good sup ply. It should bo altay ki p, in the ety, and fed to the inmates regularly like all other food.-Iowa Ifome stcal.
IIow a IIou Sweats-Not like a horso or a man, but torough his forelegs. Thero is a epot on cach leg, juct brlow the knev, in the form of a siere. Through this the sreat passes off. And it is necessary that this is kept open. If it gets closed, as is sometimes the case, the hog will get sick; be will appear stiff and cramped-and unlegs be gets relief it will go hard with him. To curo him, simply open the pores. This is dnno by rubbing the spot witt a corn-cobs and washing with warm water.-Rural Word.
"Kieer a Pig anda Cow."-Good adrice where one has a fancy for pigs, but I confess I havo no such fancy, and so far as a pecuaiary gnin my experionce las been against rather than for the pig. For some years I kept pigs, fecding on weeds, sour milk, slops, etc., until the time of sweet apples, then fattening on apples, and ripening of with corn, but I found ibe moncy paid for inv pigs, and the ralue of my apples and corn, at twenty-fivo cents a bushel, amointed to more than my pork would sell for when taken to marhet. I now practico a compost heap of my weeds moistened with slops, using occasionally a sprinkluag cr salt, and plaster paris (gypsum.) I prefer it to he pig practice.
The cow is indispensable to comfort in the country, and a great deal might be advanced in her favour.Aside from daily csefulness there is additional beanty added to every scene by some addition of active life in the laudscape.-Cor. Gardener's Jonthly.
Clean Pios and Dibty Plos.-Pigs enjoy the reputation of having a real liking for dirt; and, certainly, the way in which they are kept on some farms would show that their owners are determined to give them ample opportunties for carrying ont this liking. Nio notion can, bowerer, be more erroneous than this, as none is certainly so productive of loss to the keeper. Let any one not convinced of this try the two modes of pig.keeping-the dirty and the clean-the food in both cases, and other general treatpuent, being the same; and the result wall show hum which of the two
is best in the end. A great deal depends upon the is best in the end. A great deal depends upon the modo in which they are housed. Mr. Raines, of Mills, adopts the following : $-A$ large out-house is enclosed at the sides, so as to be warm and dry. The floor is paved, and spriakled over with burnt clay, and ashes obtained by burning weeds. In this the pigs are fed; while for resting and sleeping they have a compartment railed off at the other end, and which is amply provided with clean straw. In another case, the principle of box feeding has been applied, the pigs being kept in a pit, into which the manure from the ox or cow stables and the horse stables is put. The pigs tread this down, and cojoe themselves amazingly. In one case, where this plan has been adopted, the farmer states that his pigs "have given him a profit
by their meat, and left the dung-as good as guanoby their ment, and left the dung
for nothing."-Scollish Farmer.
Sinorthory Cattle ne Frasice.-The Joumal d' Agricullure Pratiqu has an engraving of Ben, a pare Durham bull, which carried of tho prize for soung bulls at the district show in Erreux in 1864. M. de Grosourdy de Saint-Pierre, the late owner of Ben, writes: "Ho was born at La Vente, in the communc of Silly-en-Gouffern, in the Orne, December 25, 1862. II has been sold to M. Paul de Dannes, at Angers. His fatiter is Balzac ; lis mother, Dogberry, by Dapple; bis grandmother Cendrillon, by Gambol; bis second grandmother, lrarinette, by Morning Star, \&c. Cendrillon, the grandmother of Ben, was a very good milker ; she fives four kilogrammes of butter (a kilogramme is the fiftieth part of an Eng-
lish cwh.) per week, and raniatained her milk up to the period of calring. I cannot say anything as to the offspring of this bull ; will I can tesify that the best Durham blood runs in nis veins. It is sufficient to name to you the most perfect bulls of the Pin such as Veray, Tinker. Duchesne, and Baltic. began to form a herd in ISt, and I havo endeavored to select bulls obtaiacd tron. milking corss. Being a neighbor of the I'in vachert., I often assist at sales, and by this means I ame e abbled to recognize tho
best milkers. Thus I hare constantly 30 to 34 animals of the pure Durbar brecd, among which count 10 to 12 cows or $1 \equiv n$ rs with their first calf. All miy colfs gifo abou. 7- kilugrammes of butter per cow per annum.

## Itat गairy.

## Widow Jones' Cow.

Mr Weld, editor of the New York Dcepatch, tells the following atory
"Widower Smith's waggon stopped one morning before widow Jones' door and garo the usual signal tbut he wanted somebody in tha house, ly dropping the reins, and sitting double, with lis elbows on his knees. Out tripped the Fidow, lively as a cricket with a tremendous black ribbon on her snow-white cap. Good morning was soon said on both stdes, and the widow maited for what was further to be said.

Well, ma'am Jones ; perhaps you don't want to sell one of your cows, no how, for nothin', no way, do you ?:

Well, there, Mister Smith, you couldn't have spoten my mind better.- $\boldsymbol{A}$ poor, lono woman like me, does not know what to do with eo many creatures, and I should be glad to trade, if we can fix it.:
So they adjourned to the meadow.-Farmer Smith looked at Roan-then at the widow, then at Brindlethen at the widow-at the Dorning cow-then at the widow again-and 80 on through the whole forty Tho same call was made erery day for a weck, but farmer Smith could not decide which cow he wanted. At length, on Saturday, when widow Jones was in a burry to get through her baking for Sunday - and had ever so much to do in the house, as all farmer's wires and ridops baro on Saturday, sho was a little im patient. Farmer Smith ras as irresolute as crer.
"That Downing cow is a pretty fair creature-but Walked around her-not the widow, but the cow-
"That cre shorthorn Durham is not a bad looking beast, but I don't know-" another look at the widow
"The Downing cow I knew before the late Mr. Jones bought ber." Hero he gighed at the allusion to the late Mr. Jones. Sho sighed, and they both looked at each other. It was a bighly interesting moment.
"Old Roan is a faithful old milch, and so is Brindlo -but I hare known better" A long stare succee. ded this speech-the pause was getting awkward, and
at last Mrr. Jones broke out: at last Mrs. Jones broke out:
"Law! Mfr. Smith, if I'm the cow you want, do say sol'
The intentions of the widower Smith and the widow Jones were duly publighed the nert day, as is the law and custom in Massashusetts, and as soon as they were "out-pablibhed" they were married.

Tie Hoof or a Good Cow.-A correspondent of tho Rural American says:-" For a good dairy cow, choose one with a striped hoof; she whl never fail. A cow with dark hoofs may be good for a large quantity of milk, but it Fill not be rich. For a medium cow, choose one with part of the hoof striped, or any other colour except dark."
Bomen Poratoes for Milcir Cons.-A successful farmer informs us that he has practiced, the last summer, giring to each of his milch cows five quarts of cold boiled potatocs a day, and that they were worth halfa dollar a bushel for this purpose. His old potatoes were worth nothing in the market, and so he boiled up some trenty-fice or thirty galluy at a time. He eays that he could see no benefit what-
erer from giving them old potatoes in a raw state. There is a period from the first of July to the first of August when corss necd some additional food, and if boiled potatoes Will help them hold out their mill till it is time to feed out the Southern corn, we may hope to carry cows through the whole summer season in a condition to gicld a good profit, especially on arms remote from the market.-ife. Earmer.
Selectisa Mrlcte Cows.-A correspondent of the N. X'. Farmers' Club, says that Col. Woodman, in the State of Maine, for about forty scars has kept a dairy, and generally reared his orrn cows. Ho has always found, in his experience, that if a heifer's first calf was a malo she never proved to bo much of a milker-indeed, that sho in subsequent years, never gare moro milk than on her first calving. ; but it her girst product was a heifer, she was sure to represent all the milking qualities of a raluable moth... He did not know how this might bo in other's experience, but in forty Jears of bis own, he had known of no exception to the rulo aboro indicated. Coming from a man so trustworthy in every respectas I know him to be, I thought I should like to submit it for the connideration of our farmeri and sock brecders.

## Shefy 8 usbandyy.

## Dressing Sheep with Oastor Oil.

Mr. James Wilzon. Itr George Etreet, Felinburch has sddressed tho following communicatiou on this eubject to the Irish Farmer's Gatetle:

- I think I made a promise last year to you or sume of your subscribers that I wond hat you knote the re*ults of my experience in applying castor oil to the antuma dressing of my tock of fheep on my farm of antuma dressing of my dock of ancep on ray farm of Sceggan, near Tullawore, I napighat to say, with out a grest suceess. Nut to speak of the much mone comforable state it kept the ebeep in, the exira length and glreagh - beare weight-of the pile of nool was rery considerable; so much so that my clip of rool janmbering nearly the same, that the kecp getling ine same beep), which was pold this
 ceason at tid per 1 b . under the prico of last jeay.
camo to more monry in the aggragato. Thich 1 nttri came to more monry in the aggrigate wation oil gare I learo pheso facta to speak for themsclves.
"The'exception: that I referred to abore, was this: I gare my lambs and one-shear shecp at second dressine of the castor oll alone about the ead of Jan uary, which, no doubt, produced a most extraordinary grorth; but it discoloured the rool a lithe, and leftsome black ends on it. Dat for this I might have got from 134 . 102 d . per ib, more fur it. However, I think the additionsl weight fully corertal the reduction in price.
I do not rettect in the lenat on myself for doing this. I was trying an experiment, and I am now satisfied that I did Frong. 1 will, herefore, nut to it again and I will adrise all ohlers against doing it tuv. 1 am quite convinced that one good nutum dressing is quite subticient for all good and useful purposes.
As carly uressias is rery important, I cannot too strongly recommend you to inpress upoa the fockownersin Ireland, who bave nay regard for the comfort of their sheep turian winter, and alfo an eye to having, kay, from 10 to 15 per cent. ndled to their next year's mool neconat, the great necesett of hayling their sheep dressed without dehy, betore he broken reather sets in


## Free Trade in Wool denounced

Tee Editor of the nhepp department of the Rurad New Forker (Dr. Mandall, discourees as follows on protection for American wool: "American farmers, who live zell, and educate their chiliren, and pay Goiernment faxes, cannot compete in cheap wool production with serfs, and demi-8avages, and dirt-esters of other descriptions, in other conatries. This fact may ws well be distinctly aromed by farmers, and undet. atood by all. Our $2 c 00 \mathrm{~m}$ masi have goterment profection, in mite of all Utopian iree irade theories, or else we mast throw their production on other countrieg, and thus kill our own sheep farmers.
The time has come to turm orer a ner heaf in thess matters. Protction must hereafter be a necessity of our commercial polity, or the repablic must be buried under its debta, or clac resort to the more shame ful alternative of repudiation. This protection must be honesty and fairly distributed between different iniereate, the producer aharing its advantages equally With the manufacturer, becanse he takes on his shoul ders an equal propartion of all the hurdens of gorernment.

On the shore we hare two questions to ask:

1. Who are the "gesfs, dem-savages, aad ditt-caters," whoee competition in the wool market car contamporary wishes to exclude 1
2. Has tha imponsibility of American shecp-farmers to compete with all the world ia wool, sny connexion with the enormous prices at which their favorite Men inoes are bought and sold? Barmsa Yuports asp Exrobis of Wools.-ma om-
cini fablefor the firet cight montlus of the years named,
 Eritala was:

| - ixporra or | ${ }^{\text {cout }} 1863$. | 340738. | 18 es. |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
| Henct zownt and oluer |  |  |  |
| Britinh pommetion in |  |  |  |
| 8onth 4 rita. | 9,333,524 | 10,200,101 | 24,401,801 |
| Bitcun Indim | 11,217,343 | $7 \cos { }^{2} 63$ | 0,20, 213 |
| masralla. | 60,233.43 | -9029301 | 88,034,621 |
| gher counume. | 15,001,123 | 13,004, 85'4 | 11, 200 , 115 |
| Tous, | 110,283,573 | 129,472,802 | 137,800,640 |
| The exports in the same periods were |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  | \% |  |

## Mutton the Meat for Farmera

Tue cleapest meat for farmecs is matton. It may safoly bo enin it costa nothine. Tho wool that is anamally sheared from the body of every sheep, richly pays fur its keeping. Then thero is the in-crease-n ni lem of great japortadee. The increase is eo much clear proat. From this increaso, the farmer can get all his meat for the jear if he likes. Or he may eare the lambs and the some of the older sbeep in their places. The pelt of the gheep, if killed. for matton, is also sared and sold-another credi item.
It is alos the most converingt meat to lare on band. In the warmest weather a farmer can take care of one gheop after bnag hilled, whout lething it spuil. Wha beef this is not eo casy. One man can kill nod itress n sheep in wh home. If thates but linde time or trouble to hill a shecp, not near as much as to dreas a log or a beef. On accomt of conrenience and economy, we kay deep blacep and line
 est food. Fbis i* admit.rd It necds the arguments or facts to prove it. If is true that pork is the chief meat of farmers it is the athealshest of all, whetha frebls or saturnded whitialt to preserse it somad.

1. texery farmer heap sheth. They ate the mut proftable stock on a farm. The loug's baek only viclds bristles, white the sheeps yiedus tlowny wool. All that you feed to the log is roae, unles y yon kill it, shate the sheep will pas you for us herpang wat ita flecece geath. The ling ss a flltig, sarations animal-the therp fente as a duve and neat nat cleanly.-Rural Ford.

## Tho Profit and Loss on a Big Merino Fleece.

TuE followiog communicstion apyears in the gheep department of the last Mural Ne. Forker, and rill probably mise some commotion among American Merino breedera:

Lima, N..̌.. Oct. 30, 1865.
Dean Sin,-In busing wool the past season I determined to have the leariest flece I bought cieansed, by way of experizent., This proved to be the tleece of the ram "Osceola," orned by Josiah Tan of West Dloomfld, N.X. It weghed in the dirt 30 los. when I bought it. I was iaformed that it weighed 30d lbs. when taken from the shoep, but that it had bren teducpll thus mach by fiving array eamples. I took it to Mr. Mather's mill at Demlock loke, and had it worked into yarn, and here is Mr. Matber's statement of resulis :
Me. Mocirox,-When I took the feece of Mr. Tat's ram from gon it weighed 30 lus. I cleansed it myselt thoronghy, iried it perfectly dry, and obtained from it cight llos. of well cleansed wod. I worked it into mixed yarn, amilhad six lus. of the lerst quality threethreaded yarn, worih $\$ 2.50$ per 16 . The ace unt with this Deece stands this:
 Cot of cleanakg and worklog
c
30

$\because$.

31460
1500
et galn
00
It in proper that I say that Mr Taft had no knowledge that tue geece was to be cleansed separately, until at was done; and that my object was not so rach to sue how much wooll conld get from $i t$, as to ascertain the amount of traste.
lours, respectrully,
N. Boctron.

Havoc among the Sneer-Thake Sweetser of Ambesst, hal a superior flock of finely bred and selected Southowns. Fear in and year vik, he had matched thrm, ralling out those that fe could aftord to bell without detriment to the let, till ho had got the fnest toek of that breed, probably, in that part of the State. Its a sual thing, it's a berious public calamity, to have such a lock broken up, or in any way interfered wilh. A few nights ago the dare got aroong them mad killed and maimed some balf a dozen. The men nat kince nad mamed some hald a dozen. The men
deternined to wath with loaded gums, but left the shecp in the yard instead of the pasture, and the dogs did not apmear. In the morning the gheep wero let nut again, and in half an hour it ras discovered that thr. was trouble among then. Seizing the guns the men crept out and shot he big dog of a acighbour, but not thl after he had killed one and neanly killed nix of cight others. Out of a guperb lock of thirtyfour but seventeca are teft. The loes of the otbers, and the injury to the remainder, was unquestionably greater than all the dops in the torn tro worth.Pablle sentiment on doys still needs edacsing. Why not keep sheep instead !-Mass. Pioughmin.

## extamolagy.

## The Yellow-seoked Epple-tree Caterpillar.

Drmax the past eeason many guthers and pus sessor: of orebards in Toronto and the neighbourhood, as well as la some other parts of the $\mathrm{l}^{\text {r }}$ torinct obecred with nlarm the appearance in groat num bers, of stange looking and vity furaciuls caterpillars upon their apple-trese. Their attention was usually first directed to these deprudators, by seeing that many branehes of their trens wre almost entirely striped or their folinge ; and, on luwhing eluaty to ascertain the cause, ibey very goon detected a cammonity of caterpillars, busily engaged in the work of destruction.
These noxions insects, though sitherto rare am seldum noticed in Canath, have beve ling aga obscryed in the Unised States. So early us the year 1773, Mr. Drury, a nistinguished eatumologint, des ribed and farused the moh into whith these watr pillars turn, having cellected specimeas of it wa the State of New York. Ile named it I'kalena minisira. the Llandmaiden modis; it is nov known by the appellation of Datana minista, Drury. It bulungs wa the fumily Notuluntide, of ha order I.cpudopueri. most of the members of Fhich are injurions to regetation. The great peculiarity of this famity, and oac which is eminently characteristic of the species befure 49, is the extraordianty posture uthen assumed by the caterpillars. When at rest after eating they aro usually crowded together as closely as possible upon the trigs where tiey hare been feeding, olinging to them with the four intermediate pairs of legs, and with the extremities of hacir bodies raised uprards. If tonched, or olherwise disturbed, they throw their tails upwands with a jerk, and at the same time bend heir beads backward semicircularls, till the two ertremitios almost meet; in this posiion they will remain for a considerable time, presenting, as may be imagined, a rery odd and grotesgue mpearance. The accompanying figure will canble the reader to form somo conception of this peculiarut.


The egge from which these caterpillars come forth, are laid in patches of about a hunured together, on the mader side of the terminal leares of a limb, and the young ara baiched out ahout the end of July or beginaing of sugust, sometimes there are oither broods later in the season. At first they eat only the parcncligma on the under side of the leares, the upper side and reins remaining natouched; but as they gradually incrase in size and powers of digestion, and consequently of appecite also, they consume the whole of the leares excopt the stem and a pertion of the midrib. Biginning thus with the frest and tender leaves at the end of the branch, they deseend by degrees devonring all before them, till we limb is perfectly bare. Should they not then have attained their fall growth, they proceed to another to complete what is lacking, and fually descend to the ground for their transformation inte the puph state. When Grat hatched ont they are less than quarter or an inch in length, tawny fellow, with black heads and feet, and four slender, pale yellow stripes along each side of the body, the whole being thinly clathed with long face whiteish hairs. Then full gromb, the ground colonr of the caterpillar is black, with the pale ycllow stripes as at first; the head is black; the second segment, or neck, as it may le called, is gellow and "ax-like (bence its ordinary name); the fore-legs or claws are black, whilo the four pair of intermodiato pro-legs are waxy jelluw, epotted with bleck. Its greatcet lengih is abont tro inches.

The caborpillar staie lagts hive or six weoks, at the sod of which time they usually all deecend the troe it night, nad catering the ground bury themselves wout three or four inches below the surface, there they become transformed into the chrysalis otate, and remain till the following summer. This usually occurs in September, but the perfect insect or moth loes not come out until the easuing June or July.


These mothe are of a light brown colour; the head and a large rectaggular syot on the thorax are deep chesnut brown; the anterior wings are crossed by four transrerse lines of a rusty brown colour, the first of which is regularly curred, the remaining three being nearly straight, oblique, and parallel to the exterior margin,-sometimes a fifh line is visible between the two last,-there are also one or two dark brown spots near the middle between the first and eccond lines, and an oblique streak of the same colour at the tip. The posterior wings are pale yellow, without markingr. The antenne of the males have two rows of fringe along the under side, while those of the female are entirely frec. They measure from an inch and three quarters to two incles and a half across the wings. The moths themselves are not rery often met with, but are sometimes captured indoors, whither they have been attracted hy the lights at night, the open windows at that sea son of the year affording them a ready means of entrance.
The best mode of preventing the ravages of the caterpillars, is to go round all the apple trees in the garden or orchard, and examine closely wherever the end of a branch appears to be stripped of its leares. Should this insect be the cause of the destruction, it will be readily fuund, and the caterpillars can be as easily destroycd, by simply cutting off the twig on which they aro clustered and throwing it into the fre. An orchard can thus be effectually cleared of the pest in a very short space of time, and without much labour.

## The Tomato-Worm Story.

Tre fatuity which the human mind displays in returning to the idea, through successive generations, that whatever object is inesplicable at the moment to its ignorance in the entomological world, is hartful and will "sting," is distressing to those who beliere in the progressive intelligeace of the human race.
At the present time there is going the rounds of the country press, the following article, which we give in full:
"Tomato Wors.-The Port Byron (N. I.) Times sajs, that several persons near Auburn have recently been stung by a large worm that infested tomato vines, death ensuing within a few hours. A lady in Port Byron discovered one of these monsters on ber omato vines one day last week, and narrowly esc.rped being stung. The worm is described as about three inches loug, of a green colour and armed with claws and nippers, with a black liorn extending in front sone three-fourths of an inch long. A w riter in the Rochester Express states that a few days sinco he took one of theso worns from his tomato vines, and confined it about a week in a glass jar, awaiting its chango into a chrysalis state. Upon locing released it bultowed its way into the ground nearly a foot, or as far as a thread by which it washeld routd permit Under the impression that it migit resurrect itself another season in the miller form and become the parent of a numerous und destructuve progeny, it was killed."
We hare Fitnessed assemblages of hoys armud with long sticks, engaged in tho perilous attempt of andiring up" a solltary moth, which rested sloepily on a fence. Ensconced behind some tie or othor
peojecting object, for secarity, the boys would sally
out from this rantage srou ad and courngeonsly altack tho "monster," and wo feel sare that these boys, grown up men, fill ever retain a rocollection of the address that sared them in snch perilous enterprises. Bat what are these dangers to those encountered by the lady who narrowly ercaped being stung by the harmless caterpillar of Sphins carolina 9 And then the deatha; how is it that these nerer appeared in thin obituary notices?
By whom orerit was described, the person, with some similarity to Uncle Toby in this respeot, eridently did not know the right from the wrong end of a-caterpillas. The grown-up child, who confined the larra of a Spbinx in a glass jar, expecting it in that locallty to clange into a chrysalis, and who afterwards tied $n$ thread around it while tho poor thing was intent on performing its natural transtormations was intent on performiog its natural transtormations
appointed by the Alnighty, may perhaps be pardoned his ignorance from the circamstance, that he expected the worm would "resurreci itself in the miller shape,"-a reasonable conclusion, and one which woncrer bad expected from his cenduct, the latter leading us rather to maticipate, that ho believed the poor thread-tied worm would transform itself into veneruons reptile, cr full-Ledged grifin. The "claws" and "nippers" indece seem to farour the supposition that such a transformation might be expected, on the ariptural anthority that the "last state" shall be "worse than the birst." Scriously speaking, need wo state that the "worm" is the caterpillar of Sphinr carolina, a lepidoptcrous insect incapable of inflicting harm on any one, except by devouring a few elecmosynary leares of the plant from which it derizes its sustenance; that the "horn" is situate posteriorly on the "tail" segments, and not "in front "' that it undergoes its transformation into the clirysalis state underground, and emerges the following spring as a " muth"? Truly, rhen we read this article, wo thought the rorld could ill dispense rith an Entomological Society, were it only to free it from imaginary fears and dangers.-Practical Ehtomologist.

Dor Fitch describes a large yellorish hairy y hat derours honcy bees, catching them on the ring and cating ont their entrails. Ono will hijl
hundreds of bees in a day, and it is not affected by stinge, nor even poison, such as prussiate of potash In some sections this insect depopulater hires.
Ants. - A short time ngo we gare a pluw. forgetting rid of adis oaches, etc. Mere is :another simpler method. Darb a prece ot thel brown paper with mol.usses, and thea sprinhle whh arsenic. Distribute along your closets, bins, di.wers, etc., and in three or four dage you will find that theg have all disappeared.
Do Betrerrlies Feed os Fretr?-Being an in-alid for some weeks past, I have, amongst other ways of killing time, placed a decayed pear on my window sill, and amused myself by watching the habits of a varicty of the insect tribe. I hare been much astonighed now, for three days, at tho constant attendance ighed now, for three days, at tho consiant aticndance
of threc or four large butterfics. Though vizorously of threc or four large butterfics. Thongh vizorously
atacked by the wasps, they find no dificulty in utterly routing a crowd of insects, including wasps, becs, lumble bees, and blue-bottle fies. One stroke of their large wings clears the whole surface of the bruised pear. These fino and gorgeous butterfics lave only four legs (my encyclopxedia eass butterdies hare six), tro long horns tufted at the end, and a lovg altenna springing from the centro of the a loug aztenna springing from the centre of the throat. Which is curled up like the spring of a watch,
when not in use. This antenna they insert into the soundest part of the pear, apparently extracting the juice. The butterfies frequintly gight, rising ligh into the air.-Amosro.- [Butterfites very commonly alight on ripe pears and plums, and imbibe their juices with great apparent gusto. Instead of horns our correspundent should bave written andennce, and instedd of antenna, trunk.-- Ev.]-Fiteld.

## Tifterinary glepartment.

Diseases of the Hock Joint.
LOO-SP」 MA.
Tae bock joint is the geat lever by which the body is propelled; and as a batter of course it must buerposed to more wear and tear than any other joint. Heace we find it subject to conditions identical to those in which windgalls are caused. This is lnorn by the name of bog-spavin, or by some people called blood-sparin, because they belleve the tumour to cansist in a collection of blood. This if not the
case, as bog-oparin and blood-spavin are apparoto affections. However, the formation of tho latter is alrays dependant on the existance of the formor. The rein passing orer the bock, lics on the seat of bog-spavin; and when the bruiso becomes distended it causes a certain amount of pressure on the veja, thus impeding the fow of blood, and resalting in a permanent dilitation of the walls of the vessel.
Blood-spavin, therefore, consists in distension of the vein; while bog-sparin is an increased secretion of synoria in the hock joinh As theso affections aro of the same origin, and must be similarly treated, wo will only notice the latter. When bog-sparin occurs in young horses, recently put to work, it may bo resored; but in old horses it is seldom treated with bresess, as the diveaso is oflen aesocisted with rubb.og of the articular cartilage3, causing the aynovial proceses to become influmed, and thus leading to a disease of a more acute and hardened charactor. In thoso cases it is almost lmpossible to remow the tumour. Bog-sparin Is most common in young horses, which are put too early to work. At the eame time, animals with badly formed, small hocke are most subject to it, because in the formation of such animals there is manifestly a want of wearing surface. Hence, if the animal is put to any groat cxertion, an increase of synoria takes place, to aupply the rants of undue friction, until the joint becomes so filled with thit albuminous duid, that the absorbents are inadequate to take up the over-abundant quantity, and a bogspavin is the resalt. Suppose at this stage no attention is paid to the discase, and the animal is kept continually at hard work, the secretion becomes augmented, and in order to promote those secretions, a greater amount of blood is sent to the gyicvial membranes, which of course becomes congested, and as a consequence inflammation scts in, and the animal gocs lame. Lymph is exaded iato the joint, and the cartilages become upbraided, from not receiring saficient nutrition. If he is still kept at work, the cartilages will be destroyed, and the bone itsell comes into wear, which, after a while, presents a series of ridges, caused by tho unequal movement of the sarface of the opposing bone. This stafe of the disusso is invariably associated with an ossidic deposit on the synorial membrane and surrounding parts. When a joint assumes that character, there is no artiticial means which we can adopt to restore it to its normal condition.
In the treatment of bog-spavin, attention must be paid to the exiating stage. Perfect rest must be allowed, and the animal pat on a larative diet. A dose of purgatire medicine should begiven. Shorten the tre, and apply a rhoo with high heels, which relieves the strain on the joint, to a certain extent. Fomentations of hot water should be applied several times a day, and the hock bandaged with wet cloths. At the same time occasional doses of diuretic medicine should bo given. Aner uning hot wator for some days, cold applications may bo tried, and the joint ahould be kept constantly moist. After the inflammation is subdued, blisters are useibl, ard should be applied over a considerable extent of surface. Tho whole front of the hock should be invested, and the blister repeated, at intervals of ten or fourteen days.

## Remedy for Bloat in Oattile,

The term bloat significs a gascous distention of the stomach and bowels; it is occasioned by the evolution of gas from food in a state of fermentation, which results from an impaired state of the digestivo functions. The best remedy for the same is as follows: Dissolve in a quart of warm water, about two ounces of hspo-sulphite of soda; then add two ounces of fuid extract of ginger, and drench the animal with the same; give encmas of soap-suds about every 20 minates, or until tho animal passes fatus from the rectum, when immediate relief is the result. Every farmer should keep a supply of the hypo-sulphate of soda on hand ; it is valuable medicine for fatulency or winly distensions in all its forms, and combined with a small quantity of ginger and golden seal, is make an eficient remedy for collc occurring in make an eficient remed


Professor Buckland's intonded Tours.

## To the Editor of Tue Casama Faryer :

Sin,-In an article in your last number, on the aubject of Agricultural and Veterinary instruction. jou laticuate that it is mg intention to make agricul-
tural tours in the conntry, with a riew to excite a greater idercet among the people, in the promotion of agricultural knowledge and improrement.

Will youn allow me a brief apace in your valuable colamas, just to state what my intentions are, and bow I propose to carry them into exccution?
Ocenpying the chair of agriculture in our Prosin. cial Universits, I hare long felt the great deairability. if not absolute neccessits, of becoming more intlmately acquainted, by perional observation, with the 3tate of agriculture throughout the Province, and of a more frequent intercourne with the cultivalors of the soil. Such a course, as results hare already shomn, is cssential to the malntenance of my agricultural poshion in the country. Former's. when I bad leisure and opportunity for geting about the country, not only mas my class in the college better attended, but in other respects my means of public usefularss were increased.
In undertaking the charge of residener in l'nierersity College six years ago, I resigued the situation of Secretary to the Board of Agriculture, and deroted my best allention to the duties of my new position. These, by gradually increasing, as also from their nature. kept me confned mainiy to one place, thereby cutting of that personal intercourso with farmers,
except in the richisy of Toronto, which is mo necesexcept it be ricisity or Toronto, which is po neces-
sary to the full discharge of my prefessioual obligations. Hence, I bare been led to resign the charge of renidence in the coHege, simply because I found the duties of that position became every year more incompatible will the clajms of argiculture. And here, I may be permitted to remari, that during the
period in wiich I held that situation, I enjosed the period in wiich I held that situation, I enjosed the
respect and conflenco of the Coun ${ }^{\prime}$, 1 , whoso kindness will be erer gratefully remembered.
It is thought that the agricultural conrse in the college might be comprised within Easter Term, embracing the first three monthe of the Year; an
arrangement that would afford me ample time for arrangement that would afford me ample time for visiting the country; which 1 propose to do in a thorough and systematic manner.
I could wisk to spend sumicient time in cach county to meet crery aqricultural society in it, and to make myself practically actuainted, by personal observation, with the existing state of agricultare, with special reference to its improvement, and the more eficient working of eocietics. I hare long been of opinion that these important objects could be more effectually obtained, if the members of agricultaral Eocieties were to hold more frequent intercourse with each other, by attending stated meetings, for the consideration and discussion of such subjects as have an Immediate bearing on their own pursuits, and the locality in which they live. Wherever these means hare been fairly tried, the best results hare followed The agricultural mind is peculiarly liable to become sluggish, rhen not occasionally aroused ; and the farmer, perhaps, abore all men, needs reminding that his personal success in business, as well as the adrancement of bis art, requires as much the exerelse
of his'mind as the labour of his hands. In going of his mind as the labour of his hands. In going
tbrough the country, I hope to be able to do something effectually towards the formation of a Provincial Agricultural Museum, for which the Board has already provided a capacions hall in this city, to Fhich visiiors and emigrants coming to this section of the Province might resort, and obtain much needful and reliable information.
Further, it appears to me that in perambulating the Province, much valuable makrial may be collected, for illuetrating its condition and capabilities,
at least as far as its agricultural and rural life are at east as far as its agricultural and rural lifo are
concerned; and I think tuat an occasional article on what hare been subjects of personal observation, sadressed to our leading agricultural journals in the United Kingdom, would tend to arwaken more attenthon to this country, and its vast, and, as yet, in a great measure, undeveloped resoarcee.

Until the lato deplorable ciril war in the neighbouring liepublic had attained such gigantic proportions, as to render, in the ceres of the world, our position in theae British Colonica, aomerbat uncasy
-and precarious, I was in the habit of frequenty receiring letters of enquary from parties in the old country, for practical purposes. As a brigbter day lia at leagth darniug upan 10 . Mrnidence harinf, | this gear tlessed the labours of the husbandmen rith abundance, and our neighbours with the still greater bleasing of peace, we may reasonably hopo liat an improred emigration will specdily set in towards our shores; and that, by a wise improrement of our opportunities, a long period of tranquility and prose perity atrates us in the future.

GEO. BCCKLAND.
Ontrerstit College.
Toronto, Nor. 23, 186:
Maple Sugar at the late Provincial Fair.
To the Eitior of Tine Clyada Fabien:
Sir, Althongh it is sumu tirae ennce the Promncial Fair took place at london, I think it quite worth while to send ron three epecimens of maple sugar, which were all cxhibited at that fair.-in order to prore the neccesity for competent judges being appointed, 10 do justice 10 the arlicles exhibited, and to cacourage the ininatry of the enterprising exhibilors.
Mr. Samuel Williams. of the townolhip of Duntich, was tae exbibitor of these sugars. He has two modes of manufacture-one, by the urdinary mode of pouring the hot sugar into a mould, which becomes cake sugar, and the other of graining it. The latter pro-
cess consists of rubbing the sugar in the hot kettle cess consists of rubbing the sugar in the hot kettle.
and keepin: it stirred until tho water is entirely and keepin: it stirred until tho water is entirely,
eraporated. This is called "stirred" or "grained" sugar Tho sapicet gentlemen who passed their opinion upon theso augars. woult not beliere that the two fider apecimens of these three parcels were pure and unadulterated sugar at all, but insisted that they must have been mised with "something" to gire them the beantiful, bright and white appearance which ther bear. Now, as I bappeand to be present last spring when Mr. Williams was making sugar, I can testify that they are the aimple and pure produce of maple sap, and I exad these specimens to you to test them in any way you thank proper, because Mr. Williams thinks injustice has been done him. For the two grained sugars le receired no prizo at all! Whilst for the hard or cake sugar, be receired the frst prize; which any one, who knows ought about it, rill sec is the inferior specimen.
While alluding to the subject of the I'rovincial Exhibltion, I may stale that the practice of exhibitors attaching their names to articles cxhibited, affords the judges the opportunity of shoring great favouritism, leads to dissatisfaction, and puts the honest exbibitor in a false position, against the exhibitor who rishes his own name or reputation to help him to a prize, which the article exhibited often does not znerit.
St. Thomas, C. W.
Nore by F.d. C. F.-The specimens of maple sugar submitted, entirely bear out our respected correspondent's remarks. The importance of having, as far as is practicable, thoronghly competent judges for each department of the show, cannot be too strongly insisted on. At the next Provincinl Fair, we trust there will be less ground for complaint. With respect o the name of the exhibitor being attached to competing articles, great dirergity of opinion exists, and $\cdot$ much might he said on both sides" of the
question. The same practice is adopted at the exhabitions of some of the principal agricultural socicties in Briain, and we searcely remember an instanch wher a shator of suspicion has been athempted to be rast on the hor nur and integrity of the judges. If the name of 1 'lo exhibitor did 1.0 t appear, we presume there would be little difliculty for judges, who were open to improper infuences, to arertain all particulars rospen, ing any artucle, on which they were called upon to exerciso their functions. At the same time the abernrin of the names of exmbitors, so far as the press and the general public "ere concerned, would rob the show of muin of its interest.
IIow to Register.-"A Subscrihcr," writing from Wellington Square, propounds the following enquiry: -. Would you please inform me how I am to proceed in order to reqister a Deron beifer, two years old this Enl both of ber parenta ar, registerea in the thper
Canada Stock Regiater, bit bo snme aeglect she was nut entr; d. If you can merdy inform mo to whom I am . ply, in urder to do so, you will greatly Ais.- Apply to the Secretary of the Board of Agri

Precoctors Fowis. -"R A. W," of Toronto, communicates the following: - I hare Brahma l'oc' a forls, hatched ith June, laying now (Nov. 11th.) I would like some of our ponltry friends to take a note of this, and let us know if lhey can beat it."
Iomo Aldernet Blhs. Waited. 'J.S.Smitb," or Yort Hope, akks the folloring questions. -"Can you tell me where 1 can buy a young Alderney bul:, not more than one jear oldi What price ought I to pay for a flac animal of that age:"
Asis. - Afer careful enquiry, in well informed quarters, wo haro failed to hear of the existenco of any puro Alderneys in this l'rovinee. None, at least, are publicly known. There are several eminent brectiers of Alderness in the States, chief among whom ke may name John Gilea, Woodstock, Connecticut, Dr. Traddell, I'hiladelphia, and John T. Norton, Esq., of Farmington Cl., -all of Hhom. wo learn, hare used this somerhat delicato breed for uprards of ten years, fur dairy purposes If our correspondent communicates with any of tho ${ }^{2} 0$ gentlemen, we liare no doubt ho will bo furnisbed with any particulars ho may desire.
Nos-Recert op "Tur Cavadun Dee Eeepera' Gride."-"II. E. Jaffary," of Macrille, writes nnent this subject as follows: "I send my aduress as requested in your issue of Oet. 1G, and beg to say that nddressed a letter to J. II. Thomas E Bros., Brooklin, U.S., nad said, I send jou caclosed two dimes and a half a dime, which I understand is the price of your Bee Book.'"
Als.-It turns out precisely as we suspected. The non-appearance of the book is the result of your letThomas \& Bros., Brooklin, Canada Wesh-not Brooklin, I'nited States. Enclose twenty-cight cents, -twenty-ire for the book, and three cents to defray postage.
The Gorernyeat Aomictlitral Grlit.-"W. E.," Frites as follows:-"Will you please answer the following questions in your next issue of Thy Clvada Fanyer, and oblige a large class of agriculturists, in the East Miding of Northamberiard. What season of the year is the Government Grant, for agricultural purposes, paid to the different County Treasurcrs, 80 as to be available to the Branch Socictics? Dres the law provide for Connty Treasurers to hold the funds until the day of cahibition, (to the rery great annoyance and iaconrenienco of the Branch Societies,) without any official notice in reference to them?
Ass.-The ime at which the Government Grant is mado arailable, entirely depends on the date at Which the Supply Bill is soted in the Provincial Parliameat. This jcar, for example, it was not piassed till the summer scession, somernere about September 20th. The County Treasurers were, therefore, unusilally late in receiving their respectireallotments of the funds. There is no legel provision made as to thelengith of time, during which, the County Treasurers may of time, during which, the County it is understood
hold the funds; but, we presume, it that they will hand it orer to the respective Branch Socicties, with all cosvenient speed.
Freis Trees Prodecna Thice is a Seasos:-" W. Whittet," of Moore, writes as follows:-" Can you tell me of any instances of fruit trecs producing twico in one yeary I enclose a few blossoms from my plum trees, which present the appearance of epring in the month of September. The trecsare of different ages, from fle to seven years old. They flourished profusely last spring; and though partly destruged by frost, a few plums came to maturity. About three weeks ago the leares commenced falling off, and for a week the trees had the appearance of antumn. But as if repenting their too hasty preparation for winter, they again attempted to re-attire in their spriag and summer garb. Can any practical nurseryman tell the cause of such a phenomenon, and say what will be the effect on the trees? What might be done to assist nature in forming a new set of buds for next spring:

Ass.-Similar phenomena were ubserved ia sureral districts in Britain during the present autumn. An unusually mild and open season was obriously the cause. We do not apprebend that any special treatment of the trees will be requisite to make amends for the very slight additional exhaustion, caused by a second grofth of blossom.
A Rexedy Wasted for the Aplie Burer.-- W. B ," of Landadown, writes as follows:-" Can gou inform me of a cure fur the burer in fruit trees? I planted an urchard three gears ago; and I have cultivated it and mulched the trees cerery spring, and in the fall boed or dag the manure in. This fall I found the borer bad done a good deal of damage to
them. You recommend to wash tho trees with soapeuds and sulphur, I haro washed them every gear with soap-suds, nithout the sulphur. I will try tho sulphur next spring, but I think that there must be other presentives."
Ass, - We are not awaro that nny specife remedy has been found fur this destructive orchard pest. The viggestions of the Rural Word, which appear at p:333 of the present vol. of the Casida Farmer, may probably lo useful to our corrcepondent. A recert exchange bas the following:- "Wo aro deterthated to persecuto the borers till they shall seek nther gluriers than our orchards. We are trying a norel experiment. We box up tho trees a foot from the ground and oll in witt ebavings or eaw-dust. If they attack the tree, it must be nbove the box where they can casily bo seen. It is easily done, and we ser no reason why it will not be a preventive."
A phonley to Solve.-"A. C. A." writes as follows: "We find in raising stock that by proper breculag, eood feeding and judicious management, nearly every kind of animal can be brought to a state approaching perfection. Sheep, however, appear to be an exception to this rule. Notwithstanding all the feedng and breeding, washing and clipping' a perfect sheep is not produced, unless nbout two thirds of the tail is cut off. Does nature make an awful blunder in producing lambs with long tails, or is the fastion of cutting them of at fualt? I know of no other case where universal opinion disapproves of nature's productions. I know there are a lot of fast young men in the world, who crop and dock their dogs' tails, and thereby think they improve their looks; but I thank if some of them were cropt and docked themselves, they would look quite as well as their dogs do."
Ass.-At first glance, the practice of docking lambs seems to savour of the barbarous. Experience proves, huwerer, that the custom is prompted by humane intentiong. In many instances it sares the animal from much future suffering, by proventing anaccumulation of filth, and the production of maggots therein.
Falif Fars in the Ottata Vadiex.-On this subject "Rusticus" communicates the following gratifying information:-Theagricultural community lave taken a more decided interest in the many show fairs which have taken place in this county than they gencrally do. Five of the townships bave participated in the Government grant this year, and I don't think there were ever more than three before. The competition at each was very spirited. It is granted on all sides that thero is a vast improvement in the number and quality of the articles displayed, particularly in sbeep and horses. Some of Mr. Snell's celebrated Leicester sheep have found their way dowe here, and have won the ho $\cdot . . \mathrm{s}$, both themselves and progeny. As an instance, a neigbbour of mine, who bought a ram lamb of Mr. Snell at Hamilton last year, took first for both ram and ewe lambs, although he got nothing for ewes. Another neighbour of mine, in 1862, from 29 ewes, raised 53 lambs and sold $173 \frac{1}{2}$ lbs. of wool. Nows this beats Mr. D.W. Dubois, mentioned in The Casada Faryer of Sept. 15, as having productive sheep. Owing to the drouthy weather, the root crops have suffered severely. Bany farmers will also have much less straw than usual on the same account."
Mecipe for Maning Grape Whe.-"J. S. H.," of Belleville, sends a recipe for making grape wine, prefacing it as follows:-"As your correspondent, A. B. Brownson, of Bayfield, expresses a wish fo: sume instruction in wine-making, I send a recipo which I believe may be depended upon. At the same time I would request that in case it may prove successful, an acknowledgment may be mado in Tre Canada Farier."
Take 50 lbs of grapes, and 37 lbs . of fine moist sugar. Provide a tub that will hold from 15 to 20 sallons, taking care that it has a hole for a tap near the bottom. In this tub bruise the grapes, when done add 4 gallons of mater, let the whole be well atirred together : cover the tob with a cloth; and let
the materials stand fur 21 hours. Then drave of tho liquor through tho tap, add one or moro gallons of water to the pulp, let it bo well surned, and then allowed to remain an hour to settle. Then draw off, mir the tro licuors together, and in it dissolve tho sugar. Lot tho tub be cleanel, and return the lifaors to it, cover it with a blanket, and placo it in a room, the temperature of which is not belos $60^{\circ} \mathrm{Fah} .,-$ here it ought to remain 48 hours or more,-until there is an appearance of fermentation having begun, wher it should be drawn off into a 10 gallon cask as ane as possible. The cask mast be filled up to the bung holo with water. If there is any liquor left in the tub not quite fine, pars it through flanael, and fill up with that instedu of water. As the fermentation proceeds and the liguor dimmashes, it taust be filled up daily to encourage tio fermentation, for 10 or 12 days. It then moderates, and the bung should be put in, and a gime thele thade at the vide of it, fited with a ppile. Thes spite should be tahen out every 2 or 3 days, according to the shite of the fermentation, for 5 or 10 days, to allow some of the generated gas to escape. When this state is passed, the cayk may be kept full by pouring a little liquor in at the rent hole once a week, for 3 or 4 weeks. This operation is performed at long intervals, of a month or more, till the end of December, when on a fine fruaty day it whould be drawn off from the lees as fine as possibie, and the turbid part passed through flaunel. Clean the cask, return the liquor to it, with one drachm of pure isinglass dissolved in a little water. Stir the whole together, and put the bung in firmly. Choose a clear dry day in March for boting it.

## (lat cianda dimmer

TORONTO, UPPER C.ANADA, IDEC 1, 1865.

## Winter and its Daties,

Tue season that is now upon us, is regarded by many as dreary, unprufitable and tedious. Winter is not unfrequently rechoned as nearly all :ost time, so far as the labours of the farm are concerned. The indoor feeding and care of stock, are connted among the hardships of our northern latitude, and multitudes sigh for a home in a milder climate, or wish that, by some physical recolution, our seasons could be ameliorated.
A Canadian winter, it must be confessed, is not without its rigours and inconveniencies. It is doubtless very pleasant to think of a mild and genial climate, in which catlle need no shelter, roots no housing, and the plough can move every day in the year. But our winters have their advantages, and even charms, while the moderate weather of more southern regions is associated with counterbalancing and compensating drawbacks. It is a farourite theory of ours that, the lot of human beings, on this earth, is pretty well equalized, and that a fair statoment of pros and cons would show that while special considerations may properly enough dictate a choice, there is no region that is absolutely best. Health statistics make it appear that the temperate regions are the most salubrious in the world. These climes are also most favourable to mental vigour, to the development of encrgy, and the promotion of true refnement, and elevation of character and manners. The bone and sinew, the liower and clite of the world's population, are to bo found in these regions. A delicacy of constitution, and an effeminacy of mind and character, seem insenarable from perpetual summer. Just as the winter of adversity toughens and strengthens human character, so dows the physical winter harden vegetable fibre and animal muscle, and exert an inrigurating influence upon both mind and body. Winter is a most valabble tonic. though, per-
haps, liko some other tonice, it may not bo quite pleasaut to take.
But we will not now attempt an exhaustive discus. sion respecting the adrantages and disadrantages of winter. Enough that tho stern reality is before us, and must bo accepted as an unalterable condition of lifo in Canada. Our widdom is to adopt buch measures as we can to mitigato its hardships, to reap its alvantages, aud tura it to useful account. Tbis is the scason for consuming the crops that have been grown during the genial summer-time. In the growing season, good cconomy dictates that the farmer should raise heary crops, and, in the feeding scason, good coonomy demands that there be no waste but that tho food provided be mf e to go as far ns possible. Comfortable shelter tot only promotes tho warmith and well-being of namals, but makes their food go farther. By preventing waste of animal heat, it is casier to keep stock in good condition. Regularity in feeding, also important. The chaming of hay and straw, mincing of corn stalks, and grtading of grain, are modes of economizing feed, which it pars to adopt. Straw should be carefully saved. With a littlo meal added, it forms a most useful fodder, and will keep growing animals in fair condition. Clean, br. hht straw, is better than poor hay. Refuse, dirty straw, should be dried and hept for litter. It is also useful for covering roots in the deld, and in cellars not quite frost-proof. Where straw is abundant, very comfortable cattle and sheep shec, may be made with it. The care of his animals, may be put down first on the list of the farmer's winter duties. Every arrangement possible, for facilitating and lightening this duty, should be resorted to. $\Delta$ little trouble and expense, at the beginning of winter, will often secure conveniencies which will greatly lighten the labour of attending to stuck. Cracks and openings, that admit cold currents of air, should be stopped; doors well hinged and prorided with fastenings ; and a convenient plan adopted for clearing out mazure. Stables zequire means of ventilation, and should at all times bo kept sweet and clean. Fresh air is a necessary of health and life, in the case of all animals.
Next to the care of stock, we should put on the list of winter duties, manare-making. Thousands of acres of land are suffering for want of dung. Liko the daughters of the horse-leech, the soil sontinually cries, "give," "gire." How can it be otherwise, when man is constantly taking of its wealth, in the form of vegetablo products? The great want of every farm in the land is maneme! wastre!! The manufacture of this important article ghould be constantly and carefully attended to. It is, however, greatly neglected. Tons upon tons of rich fertiizizing material are wasted, by drainage and evaporation, uvery year. Manure cannot be properly saved without a cellar or tank, and a roof of some sort. Into the cellar everything should be tumbled, that is capable of decomposing. The roof will prevent the washing away of the soluble particles by the rain. Both the solid and liquid droppings of animals should be eared with rigid economy. With these may be mixed, swamp muck, leaves, turf, spent tan bark, in short, whatever can be ecraped together, that will rot. The contents of the pig-sty and fowl-house are among the richest manuros, and should be turned to good account. Most farms bave on them some low place in which muck may be found. It will be good exercise for the teams to haul up a large supply o. this raluable material, in the winter time. It can be got at and dug at this season of the year, better thas any otber.
In many parts of the country, where wood brings, a good price, and farmers have considerable timber, wool-chopping and hauling is proftable winter work. When only the family supply of wood can bo afforded, year by year, this is the season to get up a stock of firing. It is wretched policy to burn green wood, and very poor management to bring it up, a load ata time. as it is wanted. The farmer's wood
lot is beginning to be a most important affair. In many parts of the country, umber groms scarce. Those - bo have it will do will to avoid all maste, and provide wisely fur coming years. All fallen timber that can be ueed shonld be cooverted intofirewood. Dead trees should be felled. A culling process that will mike the piece of woods last as loug as possible should be adopted. All fence timber ehond we carefully preserved. Fuel and fencing will be costly things on manya C.andian farm before long. Not only firing, lut material for making neff fences :und repairing ohd oues, ough: to be grovided in the winter time.
This is usually regarded as ascanom of comparatiro leisure, but it may, if derered, be mude as husy a time ns any in the gear. In athentun to the duties already spoken of, there are many uscful and uecessary matters that c.an be attendid to in winter, befter thau atany other time. Most furmers bave some saill in the use of tools, and can make a variety of articles needed ou the farm. buch as gates, waggon racks, sleds, stone-boats, rollers, dras- \&e There is no better time than winter for prosiding such things. Farm accounts should now be straghteued up, and much thought bestored on the doings of the past sear. The questions." what errors lhite I committed ? what successes hase I gineds and whercin cat my farmmg be improved.:" should be well weighed during many an anxions hour. Plans for the coming busy season shonid be canfally formed. Books and periodicals deroted to agriculture should be closely sludied, and a nolo made of vanable bints, for fature referencu:and us, limading on general subjecte, wath a riew to the improwinent of the mind, may property claim a prition of time. The farmer need not de a duner or it ignoramus. Let him eeck and intermedde with all widtom It is an objection urged sometimes againit miral pursuits, that farmers, as a class, are so unedyיntm and uninformed, and that it is not casy to find intelligrnt and refined societs among them. Let this repioach be taben away from this most noble of all sccular pursuits. Tho long winter ereninga not onty give oppurtanity for reading and reflection, but for lectures, farmers' clubs, dic. These ought to be established in every neighwourhood. Prejudice against book-farming and innorations ought to be laid aside, mad "Excelsion!" allopted as the univerail inotto.
These hints may sumice to show how much of real work may be crowded into the season of winter. But wo by no means ndrocate a tread mill mode of existence, -one in wheh incessant plodding, at rork of some sort or other is to be going on. We believe in recreation, and winter is a good time for that. There are many indonr cojoyments that may be had: musie, singing senable games, social gathcrings, and the like. There are out-door recreations also: sleigh-rid.ng, hmmting, shating. dic. As we pointed out about a atar ago, erery rural neigh. bourhood might have, at small expense, a rink for skating, curliug, de.; and many farmers, with crects flowing beside their doors, might providesuch asource of amusement fur their wha familhes. We beliere that as a class, farmers unbend from hard work too little. A day now and then during the other seasons, as well as in winter, may be well spent in relaxation and recreation. The farmer himsilf, his often too hard-worked wife, and his children, eccluded from the lusy world. would b, gainers ercry way, by perious of wisely chosen amusement. "All work rod no play: not only "' makes Jack a cull boy," hut has upon the wible family. Or, to quote Asop; graver sam, "the bow always luent loses its epring:"

## The Rinderpest

Tms fatal pestilence still stands foremost among the agricultural questions of the day. The London Times does not now derote turo or threr columns dails to chronicle fresh oulbreaks, as it was wont to do some weeks since. The Britush public are, therefore. mainly indebted to the culpably mragre, and confessedly incorrect retirna, ineurd hy the l'ripy Council Omec, for a record of the deadly operations of the plaguc. The etatisties in question are a kide of rague cattle-wortality-lnil, sitare the first appearame of the rinderpest in Dritain, up to the becond day of Norcmber. It is not attempied to lin roncealed, by the authoridies thomedres, that the numbers they pabligh are unceliable. Imperfert as nir statistics are, however, they aro yet sufficient to prote that tho
widely cir?ulated reports of the gradual cessation of tho plaguo were mithout foundation. Tho number of cases tabulated in the Government returns are as follows :-

| During the week ending the 1 th Octuber, 1054 |  |  |  |  |  |  |
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| 1729 |  |  |  |  |  |  |
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| 1573 |  |  |  |  |  |  |

There can be no disguising the fact that when nearly two thousand animals are prustrated in one week, the infection of an cunrmous monont of stock is indicated. Judging from the reports of newspapers published in the rural districts of britain, wo are disposed to believe that the are:t of infected country is widening every day. Since the commenerment of the outbreak, it is probable that close upon 30,060 animals hare succumbed to the fatal plague. It is difficult to conceive the 'uss to the country, which this statement implies. Apart from the immense pecuniary value of the animals themselves, the loss in grass rotting in fields, the income from the mill supply, tho rents from the untenanted sheds, and other obvious considerations, would fugure up a much larger sum of money, than is nerely represented by the net value of thirty thousand head of catlle.
We notice that much discussion,-not always good-natured,-is still going on in the liritish agricultural journals, as to the origin, and curability uf the phigne. The balance of evidence seems to be poised pretty equally between the Russian and home generation theories. It scems questionable, whether or not a satisfactory eolution of this question will lee ev ulved from the lempest of epeculative discussion gong on at present, between the allopathic and homuep.thic medical practitioners. With respect to the treatment of the plague, the former are mecting it by barbarously recommendiag the immediate slanghter of its tioners in Eagland and Molland, not ouly proless to cure, but are actually curing a considerable majority of the cases committed to their care. As Jucll's Mrssenger aptly remarks,-" The doctor who says he
can cure a disease which ofler tuctors hive procan cure a disease which ohled ductors hare pro-
nounced incurable, or havo failed to cure, will naturally be regarded either with extreme respect, or extreme contenp:." But, "to the owner of stock upon which the plague falls, it matlers very little-1t natters, in fact, nothing-whether his catile are re-
stored to healh through the agency of a 'regular' stored to health through the agency of a 'regular'
veterinarian, or through the instrumentality of one whose system is based upon principlet and duta. th which long-established custom has not yet impariod the prestige of respectability. He praises the bridye that carries him over, and believes in the worker of what is equivalent to a miracle." With respect to the successful treatment of tho disease, some very important statements, from relial)le statistics, were recently made at Norwich, ly Lord Bury. Sons 4,700 cases of rinderpest, it appears, have been trealed in Holland, and of these fin per cent. have been saved, through the means of the allopathic and
momopathic treatment,-the latter having proved by far the more successful. The following exitract from Lord Bury s spech, as reported in an English contemporary is conclusive on this point. "In September, when the cattle plague was raging in llolland, two belgian gentlemen, M Gandy, a member of the Veterinary College, Brussels, and M. Sulin, a Lomocopathic chemist, offered to the Dutch Government that if a district rere put under their charge, and if they would not allow them to beinterfercd with, and would not require them to make a report until a sufficat number of cases lad hecen treatrd. they
would on their part give their eervices gratuitously. Fould on their part gire thrir ecrvices gratuitously, and try the system fairly. This was accepted by the Dutch Gorerament, who agreed to giro a commune up to the homocopaths, it being unuerstood that the veterinary surgeon of that commane should be re. quired to certify that erery caso which came under homoopathic treatment was an actual case of Minderpeat. Matterness, thedistrict assiencd to the bomeco-
patbs, was a commune situated m the very centre of tho infected district. The peasants and proprictora were somertaat prejudsed apainst ther homoropathic 8ystem in the frst instance, and did not onter cordially into the vice of the homocopaths, but before the ermination of the experiment they wrre greatly pleased with it, and gare ercry assistance in llecir nower. At tho commeneement of the ceperiment the
proportion of rures effecter ant of the animnt.
 tho bomesopathists sared nine olit or rery ten cattle Which came under their treatmbind. Inabirnmeg was situated within a mile of Kethel, in the very centro
of what had como to be styled the 'black district'; 80 that tho homaopathists diu not enter upon their tirsks under pecaliarly favournble circunstances

Thes continued it tull Sept. 22, and 80 beasts came under thair care, ach cise being certitied by the veterinary surgeon as one of actual riaderpest. Of theso 80 unimals 60 recovered und 20 dita. Besides these, 230 beasts in the commune were put under proplylactic homocopathic treatment; 25 took the disease beforo tho treatment had had time to work, but in the forrth week no fresth cases had occurred, and on the 2 lat of October the commune was pronounced free from disease, and had remained freo from that time to the yresent. A large proportion of tho cattle attacked in the communc of Matterness had been treated by the allopatbists before the homeopaths came into the district. In all, 189 cases oame under treatment, 80 under tho homoopathic system, and 109 under tho oiber. As 73 cures only wery effected, of which 60 were attributed in an offcial report to the homcopaths, the balanre was largely in fivour of the homeopathic mode of treatment. To the 73 cured ought, hoverer, to be maded a portion of those still reported as under treatment, as some of them, no donbt, yecosered. The remedies which were cmployed ly the homcopaths were arsenicum, phosphorus. phosphoric acid, rhus tox., and sulphur. It was found that all cattle could not be treated alike. as every case had to be dealt with on its own merits. These details proved, he thought, that the disease was ameaable to tratment, and that our plan of knocking on the head every animal which happened to be attacked was barbarons and unwise."
It will, in all probalility, be ubjected by the orthudov practitioners in Britain, that the sbove medicines are prescribed as specific:, and that, therefore, the homoopathic practitioners are quacks. "l'ossibly," as has been well observed, "the hurdiny after specifics is a mark of ignorance and weakness in medicine, yet the neglect of them is proof alse of immaturity; for, in fact, all medicines acill be found specific is the prrjection of the sciencc." Dispassionate consideration is necessary on this, as well as on all other subjects. In an age of progress, 2 despotism of preconceptions cannot be tolerated. It docs not follow that the dictum oi eren the greatest medical anthorities is infalliblo. In the present lamentable condition of things, the British farmer who cannot bring the requisite amount of moral courago to form an independent opiaion for himself-in spite of the sneers and sarcasms of eminent veterinary authorities-is a "Blave not only to others but to himself."
Deati on Dr. Implet - We regret to learn, from our recent British exclanges, that Dr. John Lindley, the distiagui hed lrofessor of Botany; in Cuirersity College, London, is no more. He was horn in $\mathrm{Feb}^{-}$ ruary, 1793, at Catton, near Norwich, whers his father was propriotor of a large nursery garden. At an carly age, he devoted lis attention to botanieal science, aud, when quite a south, contributed some able papers to the "Transactions of the Linnoan Socirly" About the year 1820 , ho proceeded to London, where he becume Assistant Secretary to the IIorticultural Society. Mr. Loulon soon after engaged him to write the descriptive portion of bis "Encsclopxdia of llants," the merit of mhich, as a botanical work, was entirely due to Dr Lindley, as was stated in the I'refice. This work was completod in 1829, and in the same sear ho was appoinct Profes sor of Botany, at the London University. In a " Natural Systen of Botany," published in 1836, Dr. Lindley took new riews of botanical classification, and proposed a new nomenelature for the families of plants. Ten years later, his great work, "The Vegchible Kingdom" ras pablished. "This work, the most elaborate that had appeared on systemadic botany, gate a description of all the families of plants, and moro especially of those most useful to man. It gave very crtended lists of the gencra, nud was generally recogniscd as one of the most important contributions which had appeared at that time on systematic botany. While engaged in writouplned wris, Dr Jiadley was most diligeaity new epecies, on which he rroto a large number of papers contributed to botavical publications. ISsl lie lirrame the editor of the "Garden-
Chrouicli," a weckly publication, which tho acted with areat abillif: In In 1500 lie was appointed Examiacr in the University of London. Lo pias a Pl. D. of Kunich, and a Fcllow of the Royal Socioty, of mhich in 1858 ho reociped the medal

## Brifith Giraniags.

## Hints on Furmishing.

A writer in Londin Socicly gives the following in structions on this bubject:

- Our theory is that no one thing should catch tho ese, Theronhouk be harmony throughont; and we Wuth meommend that great atiention bo paid to the colour of the walls. If they, the ceillog knd the carpetare well selected all other points of detail are
like the finishing touches of a pieture. The right like the finisting touches of a picture. The right
tone having been atained, the rest is comparatirely casy.
We have found grays, light greens, and pale maure to work uy well ; and the less pattern there is in the paper the better, unless for some epecial reason, a chint papar is desired. If tho room faces tho south, a cool gray or maure is giod ; and for a north room we hive seen a yollowish green answer admirably, imparing to tho room an appearance of sunshine.

As a rule, we have found it best to aroid reds
-precially is dark red, which is offeasively dagy.
Blat is a dangeraus colour to use. It is 80 apt to make a room eitber gaudy or cold; though we have seen it
p.elour look.

For carpets we incline to cmall inoffensive pattcma and generally aroid those which are fowery, is being in theory and effect bad.

As to the arrangement of tho furniture it is dificult 10 say much, as everything depends upon what consists of. But we have geacrally found it desirable to heep the centre of the room and the epace berore the lire quito free, and to cscher a round table. If we must hare one we prefer pusting it into some corner of the room- anywhero but in the middle.

We once asked a lady who was conspicuous for the excellent taste she displayed in farnishing her rooms, wherein her secret lay, and sho said that she invatiably made it a rute never to employ any one person exclusively. She bought what ble panted wherever fie could find it; and certainly the result was perfeck. There was a barmony and a variety that was most pleasiog."

3zer As Jrish gentleman parting with a lazy gervant-woman, was asked. with respect to her industry, whether she was what is termed afratid to work. "O, not nt all", said be; "not at all ; Bhe'll frequently lie doten and fall asleep by the very side ofit."
A Fict yon Thi Beemsten,-The Scotish Farmer relates tho following: In a cottage near Eranton, Ross-shire, a beest nest was last month found in a pair of men's drawers that had been laid aside! The fathe colony had established themselves in the other squatters, have been cricted.

A Mev.thr I'susu.-Says the Danffshire Journal: Tho parish of Alrih boasts of its climate as boing very frvourable to longesity. The climate seems to be especinlly farourable to feathered life. A correspondent informs us that "Mr. Yirie, blach8mith, Anton, Claytolds, has at goose 25 years old.
An Uncomyon Drans Disense.-The Carlisle Eraminer says :-" A coroner's inquest was concluded a few days since at Carlisle, upon the body of a fictory woman named Gallagber, aged 22, who dibd somewhat suducnly last week. It was at irst zuspected sho had been poisoned; bnt a post mortemexamination prored that death had been caused by appplery, induced by be presence of a parasite called Cystlecreus in the lef verticle of the brain."
Inthodrction of Pantmidees nito New Zahand-the (Cantcrbury Times,) aro glad to welcome back from Eagland an old setticr, Mr. Dunnage, who arrired hero on Friday reck last, making the phanage
from Eaglani to Timaru in clgatyeight days. Yr. from England to Timara in clghtyeight days, Mr
Dunnago brings ont with him eight patridges, all healikg, aad is fine condition, wich be intends to turn loose on his run. We most heartly wish him every success in the nftempit to introduce such o caluable bird into this district.
Scnit Mrik Meascmes-Wo learn from Bells Messenger that recently at the Sebsion Mouse, Newington Ganswar, the magistrates were engaged for a long tidue in investigatiug cases of unjust reights, meales, and measures, and nmongst them were several refer ring to measures taken from tho poscesion of cow-
kepers in the neighbourhood of Keniggton, Claplam, to. Tho evidence shored that the measurcs
muposed to bo half.pints weramuch below tho stand
inatances ras, that oring to the callo plageo, the prico of mill had been ritised, and to moct the wants of tho public, measures had been mado whioh held less than lalla-pint. The Chairman sail it was the opinion of tho beach that the conkeepers or milksellers secmed to hare imgined, because they bad been compelled through the cattle phaghe, to raise the price of milk, that they might give short measures as well, but tho lar wonid not admit of such an excese for robbing the pablic peratites in cach case from $\mathfrak{L 2}$ to $f_{3}$ were inticted. with a caution that next time the full penalties would be indicted.
Saxe of Emtine Ifomsen-We learn from the N. IV. Agricallorist that Mr. Milher, Beith. Jas purchased three first-class staltions, for exportatien to Australis: "One of these, viz. Champion (better known in the west comatry as the Bilbirnic llorse)-a very superior animal. gainer of many prizes in England and cotland, to the value of mol, was bought from Mr. Harshall, Llowes, Amman. Another, a very excellent four jearsold, winner of the 101. prize at Glasgow last summer, was purchased from Mr. Jamos Kerr, Lochend, Lilbirne ; and the thira, a canital three year-old horse, mamed Tooraladde, well knoma in the Opper Ward, from Jesers J, ami W. Muir, Mardington laias. The prices of the three amounted to 700!."
Ifrated Fert Atter Wiling.-The following sug gestinas are thate by courcespundents of The Madi: Ibeg to inform II. II. that sonhing my feet in mater, as hot as I could bear it, after every wall, soon hardened my feet and reduced the great heat in tbem.-Dn土aimst.

If II. If. will fullow ont my instractions, I think he will not safter long in the way he describeg. Alwaks walk in hnitted woollen socks. Afer walking to bathe the feat in lepid water, with one ounce of eal ammonac to the galfu. To bo quite certain that the soles of his shots are sufficiently wide not to wrinkle the skin of has feet the boots made by Messrs Fagg, of Panton-stret, ara admimble ia this respect. I speak frou experieme baving at one time suffere mueh in the way II. M. mentions.-Finorn.
 from the Mforti Ianc Eitpress that "Earl Dudley has just made a very liberal coucession in his temantry in Worcestershire, his lordship having graated permission to them to hall the game, for ther own use, on their respective farms. Hindesto the game has been reserved by his lordship for his own shooting and that of his friends; but. in a circular just issucd to the tenant, lis lordhip gives them permission to kill it on all the farms, reserving only the covers for himsetf and his friends. ITe stipulates, however, that nono of the game shall yo sold, but that, if there 8bould be any surphis, ater supplying the teanis and their friends. it sinisl be given to the poor of the parish in which it is killed."
Nover Nest Retlong.--A recent itriter in Science Gossip, relates the following :-At Shalford, a farm on the banks of the Tyne, near the Stockisfield station on the Neweastio and Carlisle railmay, a mir of bluecaps built their nest in a somewhat curious place. A farm labeurer who is acenstomed to wash sheep in the Tyne owns a pair of old hools, which he uses for the purpose of protecting his fect during the process of blecp-rashing. These thoots are each yearar tied together and suspended on the lower branches of an asd which grows near the edge of the river. This season, on taking down his boots, he was sur-
prised to find sereral ects roll ont, and that apair of bluecans had bailt their nest in one of his boots Hu restored the egge to their nest, lang ap the boots Without using them, and in the course of a few days a colony of yonng whecaps issued from the pedal cerclopes wi ich had been this season, at least, put to a novel parpose."
A Doo Menoxenon.-The Aberdeen Bree Press rejates this strange incident:-A collio bitch, the property of Mr. D. MCratosh, shecp farmer, Glenfinaie, Glencairn, some time ago had threo or four gups. Mr. NUntosh adrised his son to droma the foung family, as the roother was ranted to the sleecp, and be cond not rell spare her services on the hill any longer. Tho lad, glad of the job, took his live freight to a pool, wherein he drowned them, and for better security, and to prevent tho mother carrging the dead careascs home to the house, ho atterwards
buricd them in o hole nid covered them up. Now comes the extmordinary and almostincrediblo feature of the story. The bitch having soon missed her young, in a albort time disappeared and was seen no moro that evening, binde was found next morning in the outhonsc, whera she used to bo with her pro geng, and the jups that had been dromned nod
carefilly buried, alive sucting her Tho matter carefilly buried, alive sucking her: Tho matter
appears inerphicible, null only one sugection cat
bo offered to account for the atubborn fact, viz., that they had not been entirely drowned, as the lad bupposed them to have bea, and that the mother laving soon after sceated out the place of eatombment, bad dug them up and carried them lome in her month, where by her crama and sagacious care ele had revired them to life.
Feat Bogs in Ineland.-We learn from a British exelange that, at a meeting of tho Friends' Institute, Mr. John Gough read an essay on peat and its products, which contained the following lnformation about the bags of Treland :-

There are nearly three million aeres of the surface of Ireland covered with $\log ;$ yet of this only about $1,250,000$ is sufiscieatly deep to justify the out. lay of capial in conycriag it into fuel on a large scale. But, busides this, thereure about balt-a-million acres of mountain bog where rery hard black tuif may be found. This tog may bo prollably utilized by farmens in the neighbowhood of each; nod. aithough it is dificult to carry the peat when made from such places, it is of so good a quality as to lse worth alt the costand tronbte. In tho trre great beds rumning through-one from Sligo to Fowih, and the other from Wichlow to Galoay-there is material enongh for a period far too long to be looked formard to with fear of the supply running out, bowerer great may be the enterprise in the utilization of tho bog.

Tise to Manme Gaiss Lands.-A writer in the Mark Lanc Express says:-

All sorts of opinions diverse enough are held as to the period uhen grass lands should be manurcd, some mainaiaing "any fime" may be chosen, and graphically enongh saying that, "any quantity" may be given, and that it is searedy possible to give too much. This, of coarse, refers to the farm-yard manare or dang; when artifical or portable manures are 1 sed, the best time for their application is in spring. Antumm manurimg with dung seems to be the mont in farour, and jusily so. especially if the dung is long and uot easiy assimilated with the crop. One great admatage-and it is not niways thought of-oblained by the top-dressiog of meadows with long manure in
antumn is the procection or shelter yielded by it to antuan is the prosection or shelter yiedded by it $h$
the grass in the sercre frosts of winter. Some who hare paid attcation to this maintain that fully oncbalf of the advantage obtained by antumn top-dressing of grass lands is oring to the shelter giren to the
plants during frosta by the comparatirely bulky plants dand

Theeims fon Kitura Fleas ay Dogs.-FTe had the following in The Ficld:- Having geen Eereral cnquiries an your journal for the best method of killing fleas if your readers will try tho following, I think hey will not use any other method, for it not only lills the fleas, but cleans the dog's coat and skin:-
Saturate a plece of fannel with common naptha, well ribl the dog with it, and the Reas will dio instanter. For a rough coated dog use a small brush.-lionery Asuser, (Aantwich).

If "F. T. S." wishes an effectual remedy for Geas, les him try benzole, and ITl warrant it will kill grery wne before it has eren time to make its will.ill. 1.

An old Scotch yecper many years ago gave me an infalhble remedy tor fleas in dogs. hub tho dog well all over with salt butter, and then wash wilh coft soap. I bave found this answer perfectly for the last thirty yearg.-Deraspeter.
Recents fon Manno Tomato Sacee.-In The Find of Sept 16, "A Constant Reader" asks for a bood receipt for tomato sauce. In reply E. C. II. Ears :-- Lioil 12 lbs. of tomatocs until they come to a phlp, then girain them through a sieve, and ada thb. of salt,

 togehicr threc hourm, strain, and mase up in smalt botlles."

Another corrceppondent ausmers the questron thus:-"The following receipt for fomato sance, Which has been in our family for many Jears, is always considered most excelient. The tomatoes are to be rousted until quite son, without being in the least burnt; when cold the kkin and core must be taken clean from the pulp. To a pint and a half of pulp pat a tablespoonful of ground ginger, two
gpooneful or young onions shred very fane, a whole apooneful of young onions shred rery hae, a whole suincient caleped small (or caycono pepper, and quarter of a pint of the best vinegar. When rell muxat, put it into clean dry bottles. A spoonful of sfect of should be pourcd into the neck of each bothe, and the month iied orer with a pieca of
blatuor. Wo niwase mat it foto rather small bottles, nmi, if crpt in a cool place, it will be good in tro


CONSERVATORY AT CHESNUT PIRE

## finctitulturs.

## Hon. D. L. McPherson's Grounds and Conservatory,

Tus late illustrious and lamented Princo Consort finely pronounced gardenivg ${ }^{-}$one of the fino arts." It deserves to be recognized in this character, just in proportion as it rive abote supplying the merocravings of the appetite. Gardening, whenever it contemplates reimed and innocent pleawhe, certainly dearres to rank among what are known as the fine arts. It deserves the charac terization as fully as music. painting. or poetry. It is eminently fitted to be the medina of the jures and mos: exquisite evjoyment. In the morning of the world it was deemed pure coough by the Grat Arehitect of the unirerse to be a fitting employment for unsullied humanity in Paradise In this utilitarian aincteenth century of ours; the mose we seek to appreciate the dignity and wondrons beauty of "erery freckle. streak, and stain of His unrivalled prencil." as seen in the gay parterre, the green-house, on the dusty mareide, the better do wr comprehend the eilent molodics of nature, and obtain larecrand broader riows of man and his miss:on. A sens ${ }^{n}$ of natural beauty may he said to be ingate in human nature. In tbe flowet garden we have not only every varicty of classic beauty in at high dugren. but the accompaniments of fresh ar. cxercise, and pleasai.t surroundinge The enjoyment of the dhowr garden does not depend on an accurate botanical acquaintance with the gnters composing it. A las verit, hat slight kuowledge of ghans: anay vajoy de as a bind of open air drawingrome, carpeted with nature's veriant hanlimont, its walls
 and ligbted rith the glorinne. Afilgence of the birsed mun. To a fincly-tuncd mind. the mere pleasure of beholding and oppreciatiate pum a gercien mive bo
tromed "a liberal education." In Britain we could point to many charming landscape gardens, but in our comparatirely new country they are not yet so unmerous. We are glad to observe, howerer, ihat a taste for the beantiful is steadily assumint a sbape in our midst. In many localities. we cond indicate, choice lawns, thwer borders, and cen consorvo tories, have sprung into existence within recent years. Furemost among these gratifyine manifestatous of elovited tase and sumeriomy ib mere monery-

beyond the village of lorkville. That the enterprising proprietor, the Hon. D. L. McPherion, is a gentloman of cultivated mind and refincd taste, is erident from the charming scene of matural and artificial beauty he has created about him. The place, we understand, came into his possession somewhere about ten gears ago. At that tive, the ground which now forms Chesnut Park was merely an undulating table-land of uakindly clay soil, pleasantly orerlooking a pretty wooded valley on the south. Daring these ten years an artistic conception of natural resources at command, backed by carefirl and conscientious erecution, and a liberal expenditure of means, have transformed the placo from its original wild state into a comparative paradise, as our illustration will abundantly show. Our space will not admit of cren a bare enumer ation of the many charming features which attract the eye everywhere about the grounds, and especially in the conservatory and rinerics. The cxtent of the larens, and tho soft relsely turf wh which they are covered, are superb. During the doral scason, the flower-plots and borders,-cultivated on what is known as the ribbon pattern,-are conceived in the most esquisite taste. The trees which skirt the margin of the grounds are uncxceptionably fine. An occasional specimen of choice statuary lends a classic abarm to the place, winle the delightful play of the fountain in the summer months, has a refreshing influence on the spectator. The riew of the canscrvatory, as represented by vur artist, is its castern aspect. As will be observed, the direction of the main building is north and south. The rinery is connected with jt , and is that portion shown branching castward at a right angle to the congervators. Tho whole rango of tho
boarding, are the sphe ndul ground and couservatory at Chesnat Parh, which furan the : where of the elegant illustration, herewith preco:bled the air readers As many of them are, dombtess, nware, llis fine resedench iz nitapted on Fonge Strect, a alaort distance
two departments measures close unou $2: 10$ fect in length. In their construction no less than 12,000 square fict of ghass rere cmployed. Duriog winter, and when the temperature of tho atmosphere renders it necessary, the baildings are heated by meane of

3,700 feet of plpe, in which hot water circulates from ' yards of thas raricts wre being planted as rapidly as the engine-house. Ono of Hitching's useful and, the vines can lec rased. The Delaware Grapes had compact littlo engines is used for this purpose, ns well as fur pumping water to a large reservoir, which dupplies the fountains. The dome of the conserratory measures about 33 fect in diameter, by 40 feet in teight. $\Lambda$ fuuntain is appropriately placed immediately beneath it; while fromits graceful roof depends a choice profusion of pastion flotsers and other creepers. The splendid effect produced by those graceflly intortrined irreaths -drooping profusely round the fountain-is a rare treat, not soon to be forgotten Indeed the whole interior of the conserratory presents a scene of wondrons and raried beauty.-Begonias, Caladians, somewhere about cighty rarietics of Azaleas, and as mang of Camellias, choice ferns, and an almost en Vees profusion of other stove and greet. house plants, attract the eyo of the beholdor, and fill him with admiration. In the hothouse, which is situated near the northern end of the conservatory, an almost equally varied and choice display invites the eye. It is, huwever, quite impossible to convey, in the limits of this article, a deecription of its appearance or contents. The whole place,-grounds as well as green-houses - must be seen to be appreciated. Wie hare selected two plants from this fine establishment, for illustration, by our artist. They will convey a fair iden of the average flowers which grace the conservatory of Chesnat Fark, withont any pretengion to special beauty, or excellence. Tho first is the Cissus Discolor, a climbing plant, and a natire of Japan. Its name, wo believe, is derived from kissos, ivy, no doubt in reference to the scrambling habit of this family of plants. The next flower is the Dalura Knightii, a native of l'eru. It belongs to the Thorn-apple family, and has a peculiarly fine scent, although its secds and leaves are highly poisonous. The flowers of the specimen before us are large and trumpet shaped, -somerhat resembling the blossom of the Conrolrulus, greatly enlarged. This notice would be incomplete, did we omit to stato that tho floral and horticultural departments of Chesnut


Park, are under tho management of Mr. Geo. Fair Me is a thorough gardener in the widest and best sense of the rord, with a genuine knowledge and loro of his profession. His name cannot be altogether unfamiliar to our readers, as sereral ablo articles, from his pen, on subjects connected with his profes sion, hare from timo to time appeared in our columns

## Visit to the Lake Erio Grape Islands. The Delaware Grape.

## To the Elitor of The, Casima Fimutin:

It was my privilege to make a visit, turing the last days of Seniember, to the islands in Lake Eirie, alreads become famous for tho fine Catamba Grapes which aro raised thero. I mado sa short stay upon each of them, and examined tho diferent rineyards, the mode of training the rines, and the sereral raricties of grapes in cultiration. I also went into some of the wine cellars, and witnessed the process of winc-making in some of its stages. It was a very inlerenting and instractivo visit. Thero aro moro Catawba Grapes grown thero than of any other kind, and they wers solling readly at $\$ 160$ per ton, for the purpose of being made into winc. But tho Delafaro Grape secms to bo fast growing in farour, and rinc-
been all buargt up when I was there, at twenty-five cento pel puad, to lee made into wine, and Delarrare Winu uf last foor's sintage had all been sold at $\$ 6$ per gallon.
I made a careful eamination of the vinegards of the Delanare Grupe, fur the renson that this variety is perfectly hardy in our uwn climate, and ripens so early that it will perfect its crop every scason. I felt that erery Canadian lade an interest in knowiag whether this Grape rould sield to him, in his more Northern hume, returns as satisfactory as it ifforderl

Catcr 'ey Alarn: Ol-Paries troubled by night trespassers on their gardeu rights, may possibly pick up a suggestion from the fullowing, which we cull from the Gardener's Magazinc.-A gentleman who had long been subject to the nocturnal visitation of thlores in his orchards, wishing to preserre his property rithout endangering any one's life, procured from an tospital the leg of a "subjent," which he placed ono evening in a stecl trap in his garden, and next morning sent the crier round torn to announce that " the owner of the log len in Mr.-_-'s grounds last night, might receire it upon application." He was never robbed again.

## DATURA RNIGHTII.

to these Islandors of Ohio, and the result of all my investigation and encuiry has fully satisfied me that we can, in this part of Canada at least, raise the Delaware in greater perfection, and of higher flavour, than any that I saw upon the Islands. It is true that at the time of any visit the best of the crop of Delawares hal been gathered, but the condition of the remaing fruit and of the foliage of the vines told an unmistakable tale. If these conclusions bo correct, What a field of enterpriso and remuncrativo indostry is opencd to us. A rinegard of tho Delaware grapo in full bearing will casily yield threo tons of grapes to the acre. An acre of land may be set down say as worth one limulred dollars. Suppose that it costs one lundred and fifty dollars to get it planted with first class Delaware vines, and another hundred dollars to put up a suitablo trellis, and fifty dollars a year for four ycars to cultivate it. This will mako a total cost of fivo lundred and nfly dollars for the acre of vincyard. One crop of threo tons at ten cents per pound will repay the catiro outlay.
Such are my convictions on this subject that I intend to plant a rineyard of firo aoree noxt spring with Delarare vines, and should wo lire to sco its first fill cropl. I will tell you just what it has cost, and what it yiolds.
St. Oxtmindises,
Nov. 0, 1865.
Yours tralr,
D. W. Beadme.

Nothi. Method op Waternig Piants. - While travelling in Ohio last sum: mer, during that excecdingly dry season, I noticed in a friend's garden a contrivance for watering plants, which struck mo as being the best that has as yet come to my knowledge. It may be old to yon and to some of sour many readers, yet will ventare to give it. It was nothing more than the principle of capillary attraction, applled to moistening the oarth around cucumber rines. A veasel containing the water was placed near the plants, from which extended a pieco of old cloth to the roots of the plant. Thus water was conveyed from the ressel to the plant slowly, keeping the ground constantly in a good degree of moisture. One vessel answerad for several hills. This method I think much superior to pouring on water, which generally flows of and hardens tho ground, sometimes injuring tho plant more than if it had received no water at all. I also saw in another gardon another mohod, equally good, in practical operation. A barrel with both heads out was set in the ground half-way, and partly flled with manure. Around the outside of the barrel the cucumbers were phanted. All watering was done through the barrel and the manuro. Tho water reaches the rooks from beneath. and keeps the soil moist and rich. In both methods tho plants wero moro thrifty than thoso treated in tho common way.-Cor. Ilural Nieso Forker.
A Tree-DigaEr-One of tho most complete affairs wo havo seen is a machino for taking up trees, in nurseries, for shipment, whieh is used by Mr. George W. Turner of this city. Drawn by sis borses, and manned by elx persons, it passes at onco on both sides andi under a row of trees, as rapidly as a team in ordinary pluaghing, and leares the trees erect, with their roote still corcred with dirt, but in such a position that they can be lifted readily for packing. Those not aceded can we left standing until they are neoded. This machine will lig 30,000 good sized trecs in one day, while by the ordinary method it takes six mon a das to dig one thousand trecs, and then they do not take up is many of the roots as are secared by this machine. We sperk of this matter merely as a norelte, quite interesting to any man Fho bas tho lésure to exaunine it.-Springfidd. Ohio, Jictes and lipublic.

Tobacco fron Eigrat. - lhayard Taylor informs the cditor of tho Rura! Adectiscr, Mhiladelphia, that be raised the present scason a fer plants of the real Lalakia Tobacco, probably the first ever gromn in the Unitod States. Tho seed was brought from Egypt, and he considors the plants he has grown filly equal to any he erer gav on Mount Leloanon, from whenco the celebrated Latakia tobacco comes. It is quito a dislinct species, baring a broad velvety leaf, and a palo ycllow blossom. Lo sced for distribution until panother joar.

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## Wentworth and Hamilton Agriculturnl Societies.

hefort of the jedoes on til: hoot chots of 156.3.
Wh hare been faroured by the Secretarg, Mr. W. A. Cooler, with the annexed report of the committee appointed, by the abore societies, to eramine the nolds of turnips, carrots, and mangel wrurzel, which had been entered, by their respective proprietors, for the annual competition. The racilts are highly interesting, and will abundantly repay an atontion perusal.

The undersigned jubges, appointed to nward prizes at the Annual Turnip Match for the yoar 196. submit the folloring report:-
The duty assigned was to arrard in 1at, 2nd, and 3rd prize, for fields of turnip; of not less than four acres; and a l-t, 2ad. and 3rd prize for finds of turnips of not less than one acre. Onr rule in cach case ras to measure off a square of $\mathbf{2 5}$ feet (being within a fraction of the 70th of an acre), in such portion of the field as presented a fair average of the whole, and to weigh and measure the produce carefully.
lst We procreded to Fdward Markle"s. Lont No. 12, in the Gih Con. of Ent Flamboro ; 4 arres of Purpletop Swelle: soil, sandy loam : pioughed nuce in the fall and frire in the cyring, then ridged shout at incher iper': seen somb by hanil; callimated threw times and hoed trice; sieh. G9it $168 \times-0=21$ tone S25 lbs, or $813: 5$ bushels per acre.
2nd. Mather Burns, Lot No. 11 , in the th Cun. us East Fian'ono ${ }^{\circ}$; 2表, acres Laing's Purple-top and Skirving's Srede ; soil, sandy loam, barley ssubblo; plonghed in the fall and once in epring. manured in the drills with l- loads barn garl manare. suwn on the loth June in arills 2 inches apart, thinned. and hoed twice atad cultirated once: yiold. $i=0$ the van



 loads bara-g.ard manure per acre; sown 20:h June. 3 lbs seed per acre ; varicty, old P'urple-tup; yiehd.
 acre.
the. Thomas Stock. I.nt No. 9, in the Srit Con of East Flamboro ; soil, chay loam, about Git acres, oat stubble. plonghed in tho fiall, and manarid whith 1 loads of barn-yard munyrs in the acre, phateded



 libe., or suuge bushads par arre.
5th Geopge d. Stork Lat Sn 8 , in the ura Con. of Eist Fibmboro' ; soil, gand loam, oat stmbble. ploughedmathe sprinas, buruwed and tirice culavated with fallow caltirator, manured at the rate of $1 \overline{1}$ loads of han-g, mat matue per acre, manure plonghed in and harrowol three times, drille 23 inches apart. hoed tuice athe cultirated three times; yield, 573 lbs. $\times 70=29$ tons 110 lbs , or $\mathbf{6} 6 \mathrm{Sig}_{3}$ bushels per acre.
Gth. John Weir, Loi No. 4. Lst Con, of West Flamhoro'; Ef acres.-soll, clay loam, oat stubble, manured wiff la lualy of haritsard manare per acre, plonghen in the fatl with trench plough sinches deep, ploughed twice in the spring. harrowed and rolled unth suliciently fine : sown in drills 26 inches rpart, on the ird, ith, sth, jeth ard loth June, with 'urple top and W'atson's Improctd I'urpletop Swede, about zof the frirmer and is of the latier, 3 los of seed per


 7th. Gcorge Lecith, Iotivo. A1, ist Con. of Ancaster; 5 acres,-soll. clay loam, oat stubble, ploughed in the fall, 12 loads of bian-s ard manure, and lis $3: 1 \mathrm{ss}$. Coce Suprphosplate, dhicd in whon tho sced was sown.
horse hocd once, uid hand hoed twice $;$ Siedd, $6 z 0$ borse hocd once, uid hand hoed trice jacld, 620
lbs $\times 70=21$ tons 1400 lbs ., or $723 g{ }^{g}$ buhels per acre; variety, y'urple-top Swede.

Sth. Roburt Taracr, Lot 4 s , 2ad Con. of Ancaster 7 neres,-soil, clay loam, pea stubble, manured rith 15 loads farm- yard manure por acre, plonghed in tho fall with trench plough, Ifnughed ngain in apring, harrowed and rolled ; seed sown 17th, 19th and 20.4 Junc, at the rate of 3 lbs. per acre, in drils 21 inohes asunder; rariety, old lurple-top and Laing's Srede; field, sti lbs . X $70=19$ tons 1690 ll 3. , or C 611 , bushels per acre.
3th. l'eter Grant. Lot No. S, 1st Con. of Barton ; G neres. - soil, 6adal loun. barley stabble, ploughed in the fill and in the spring, manured with 15 loads of farm gard minnre and leached agles per acre; seed sown from 17 th to 27 th June, $2 \frac{2}{} \mathrm{lbs}$. per acro, in drills 2 fect apart; variety, Stirringes King of
 bushels per acre.

10th Georse Darnus. Lat Nu. 8, 3ra Con. of Barton. abont 3 acres; suit, sand hutru, wat stubble, ploughed in the fall and spring, and manurell widh 20 loads manare, nud 7 bushels salt per acre; seed sown 21 st June, 3 llos. per acre, ratiots, l'arpletop surede
 per acre.
marifrlution:
Result of examination of 1 an re fieldy. -

| Edumad Mashlo, | 21 teas | 8 cwl | 20 lis |
| :---: | :---: | :---: | :---: |
| James Sfe louncis | 14. | $0 \cdot \square$ | 33 "' |
| Thos Stwek, | 菬: |  |  |
| John Welr, |  | 13 | $33^{3}$ |
|  |  | 14 |  |
| Rovert Tumer, | 13 | 16 |  |
| Peter Grant, |  |  |  |

Result oi cxamination of 1 acre felds:-
31. Burns,
Georor dithe


40 Ibs
$10 \%$
00.

With the aboverentis before ns. waward for the 1 are field, lst prize to bilward Marthle. of Fast Thabboro'; the -at maze is 'lhumas Etock, of East
 Fla aboro:
For the one acre fields. we arard the 1st prize to Geurge A. Stocin, of Lat 1 :3raboro' ; the 2nd prize to M. Burns, of h.ast $\cdot$ Lembote , atid the 3rd prize to George Barnes, of b.ar.ua.

## calion:

Wo mere al=o appoinerd to arard a l-t and 2 nd prizer fir the lest ficid of carrots, of aut less than $\}$ acre. Our mile was to whet anaverage of the field
 part of an arre and woigh anit motur carefully.
1st. Edward Jarkle, Lot No. 12, Ght Cou.. East Flamboro'; soil, s.med luam, plonghed onco in the fall and twice in the - pradr. danarah. faw phoughing in ther fpring, then 1 it rid up Abuth 21 ineluce apart, hord twire and cultir diml tirer times, deld, 3123X

2nd. M. Burns, Lot ©o. 1, ithCon., Eaist Flamboro'
 pring no manure, 3 lis. of scad peracre, sorn on the 13th April, in erits 2linches apart, thaned and hoed hree hanes: yiela. 260$\}$ lbs. $\times 110=18$ tons 500


3r,h. Jatury Melotats, Lot Su. 5 , th Cun, of Fast
 lx tona $61:$ llie, or tilnas bushels pier ure.

Hh. Dr. Millur. Lot Mu. 1, Znd Con. of West Mambroo ; soil, wh luam, in turnips last sear, plonghed th 1 mimar, 1 an she fall at the rate of 24 loads per acre, then cultivated nhughed, hatruwed, and rolled, ploughed in the spring, then drilled 21 inches apart. $\lambda$ small trark was then made on the tup of tho drill th which Coes Superphosplate was sown, at the rate of 300 lbs . per acre; 8 lhs. nocd per acre, thinned threc times during the feason, yieh, 25id lbs. $\times 1.40$ $=15$ tons 50 lus., or 60050 bushels per acre.
sth. Joha Weir. Lot 1 , 1st Cun of West Flamboro'; soil, clay loam, one-third or an acre, oat stubinle. 18 loads of farm-yard manure per acre. ploughed 9 incles deep, ploughed once in the spring, harrowed and rolled. sown in drills 21 inches apart, on the 13 th May, with White 13elgian seed, at the rato of 4 lbs. per ucre, manured in tbe drill' with farm-gard manure, at the rate of 10 londs per acre ; yield. 359 lbs $\times 110=25$ tons 260 lbs ., or $s .549$ instuels per acre.
Cth. Charles Rymal, Lot No. Z0. Sth Con, of Barton: soil, heary hlark loam. nat sibbble. plonghed in the fall and in the spring. 20 lnady utable manure to the acre : secd sown on the 15 h May, in drills tro fect apart. at the rato of 3 lise sood per acre, gield, 307
 black gravelly loam, in notatocs last year; yield 2is lbs. $\times 110-19$ tons 10601 hs ., or, 651 bushels per acre.
Rth. Gonrgn Jharnea, Yat No \&, 3ral Con. of Barton soil. sand loam, in pntapnia lnet year, ploughed in spring ; secd somn May and and 3rd, in drills 2 fect apart, at the rato of 3 lus jer acre; yield 989 lbs $x$ $1: 0=26$ tons 1620 lbs., or, s93as lrustels per acre.
recaptrclation.
Result of examination of dolds of carrots:-

| E.dmard Markle, | E. Fiamboro', | 23 tons | 10 crt | 83 llss |
| :---: | :---: | :---: | :---: | :---: |
| Yaubat Buram, |  |  |  |  |
| Jas. Mcluoules, | E. flamboro', | 18 | ${ }_{6}$ | 45 |
| Dr. ylller, | W. Flamboro | 18 " |  | ${ }^{60}$ |
| John Wer, | H. FT mbors, | $2{ }^{25}$ |  | ${ }^{\infty}$ |
| Chas Rymal, | Barton, | 21 " | 9 " | 60 " |
| R. J. Hamition, | Hamilion, | 19 " | 10 " | 60 " |
| Georgo Bardos, | Darton, | 26 | 18 | 30 |

With the above results before us, we nward, for the acre of carrots, the lat prize to George Baraes, Barton; the second prize to Joln Weir, West Flamboro.
mavosl kizzel.
We were also instructed to amard a first and second prize for tho hest deld of mangel wurzel, of not
less than
Ist. R.
of an acre,
IIamilton, City of IImilton; soil, black gravelly loam; varicty, Long Red; jield, 308; lbs. $X$ $10=27$ tons 1970 lbs ., or 92958 bus.; per acre.
2nd. Peter Grant, Lot No. 8, 1st Con. of Barton; soil, sand loam, barley stubble, ploughed in the fall and in the spring, manured with 15 loads farm-gard manuro und leacled ashes, per acre ; soma 25 th May, in drills 2 fect apart; varioty, Long Ied. Long Yellow; yield, 280 lbs. $\times 140=10$ tons 1200 lbs., or, 65338 bus., per acre

3rd. Gcorgo Barnes, Lot No. 8, 3rd Con. of Barton; soil, black clay loam ; rariety, Long Red; fall wheat stubblo plougled in the fall and spring; sown 25th 3 Iay, in drills 26 inches apart ; sicld, $413 \mathrm{lbs} . \times 140=$ 28 tons 1820 lbs , or, $9633^{48}$ bushels per acre.

## RECAPITCLATION.

Result of camination of felds of mangel warzel --
 Poter Grant
Gcorgo Barnes
Barton.
With the above results before us, we arrard, for $\frac{1}{4}$ acro mangel wurzel, the 1st prize to George lbarnes, Barton ; and the 2nd prize to li. J. Mamilton, City of Lamilton.
Before concluding this report, the Judges hare much pleasuro in bearing testimony to the great care and improred culture of the different fields of turnips which they inepected. From the great increase in the breadth sown, there is satisfactory evidenco shown that our farmers now look upon the turnip crop as one of the most important grown upon the farm. The general average has not been so large this season as in former years, orring to the very dry weathor which prevailed about the timo oi sowing. With reference to the diffrent varielieg sown, the judges hare no hesitation in recommending tho folluwiug for heavy upland souls, viz: Skirsing's Purple Top, and Skirving's King of the Srredes; and for allurial, lighter, and moro lirely loamy soils, the Old I'urple Top, Watson's, Laing's Improsed, and Bronze Top. Theg hare also much pleasure in drareing the attention of tho agriculturists of Canada to a new turnip, which thes saw growing on the farm of Mrr. Robert Turner, of Ancaster, named tho "Grey Stone." It is a white-fleshed turnip, suited for lute sowing, and wo understand, keeps in good condition until the end of January. It grows to a very lergo size, and is well worthy of extended cultiration. Tho judges are pleased to obserro that tho culture of carrote is receiving that attention which they so iustly deserve. Thay also notice that greater caro is exhibited in thinning and keeping them ciean than was tho rule in past years. We were also pleased to notico that the cultivation of mangel wurzel is on tho increase. This crop deserces still more extended cultiration. They aro invaluable for milch cattle, as rell as for fattening stock. In conclusion, the judges congratulato the farmers of Wentrorth on tho deen interest exhiblted in the culture of Celd roat crops, crincing, as it docs, rapid progress toward a: thorough system of proftable and scientific farming ; and they bope the day is not far distant when orery county in Canada will hold similar matches.
All of which is respectfully submiticd.
(Sigued, JAMES FLEMMNG, Toronto.
Novemher, 1865.
GEORGE LARGG, Iamilton.
JNO. A. BRUCE, Mamilton.
Protection aganst tre Cattie: Macce.-It is stated that the collector of tho port of Boston is cooperating heartily with the Catile Commissioners of Massachusetta to prerent the introduction of the marrain into that Stato. Ie has ordered all ollicers, who may know of any caftlo about to land on our shore" from Europe, to hold them in quarantino till they can be cramined by the Commissionors, and pronounced free from infection. The Mass. Ploughman, remarking on the above, observes, that " if all custom-house offeers throughont tho country, would adopt the the same courne, of If Congress would pase a lav thoald feel confdeat of esoaping the Infectloz."

## Huron County Ploughing Match.

## To the Elltor of Tae Casada Faryer:

Str,-Our anaual ploughing match this joar has been rery successful, both as regards the value of tho prizes and the number of tho competitors. I think no apology nocessary for asking you to mako room for a short description of it in the only agricultural paper wo have in the Province.
Mr. Bell, whe enterprising agricultural implemont maker, of St. George's, ofered to give a roaper as a prize for the ploughing matoh this gear. The offer, I need scarcely say, was accepted. Sach liborality was infectious, and othor donations came in rapidls. The Hon. Donald McDonald, M. L. C., gave $\$ 40$ James Dickson, Esq., M. P.P., gare an iron plough, worth $\$ 40$; McFaggart, of Clinton, a fanning mill; Runceman, of Goderich, an iron plough : McPhorion dCo., of Clinton, a cultivator; Screl, of Clinton, a plough ; Illorton, of Goderich, a riding saddlo ; Fulton \& Rude, of Egmondrille, a neck-golk and whipple trees; Joo. Gray, plough maker, of Egmondrille, $\$ 10$ in cask ; the County and Branch Societies making 1.p nearly $\$ 100$ more. The whole was divided into nine prizes for men, and ten for boys. Such a furmidablo prize list, $I$ am positive, was nerer plougbed for in any County in Canada, on any previous occasion. The " match" cams off on Tuesday, the 31st October, on the farms of Messers. Caraahan, and McLean, in the township of Tuckersmith, threo milles from Harperhag, on the Buffalo and Goderich R. R.,-the men being at Carnaban's, and the boys at McLean's. The morning was wet and stormy, till about $110^{\circ}$ clock, which made it very disagrecable, but the after part of tho day was pleasant enough. T"renty-Eour men entered the ists-most of them stout "brampy chiels"- tho very pick oi'our plougbmen. The field was a clay loan, and with the exception of eome gravel spots birse and thero was very well calculated for the purpose. A start was mado at $100^{\prime}$ clock, and by 4 , all were $\operatorname{cinished}$ Great interest mas manitested by the spectators dur ing the match. Tho judges must havo had an arduous but as they were all practical ploughmen, no doubt they had good reasons to assign for their respective awards. The frat prizo-tho Leuper-was presented to James Thomas, Tuckersmith. Some of tho other awards in the man's clase, I have not yet ascertained. The boys' field mas a mile and a quarter from the men's, and was reached by a road ankle deep in mud, but the sight amply repaid the tramp. They had a splendid ield, superior to the men's, older sod, : smoother surface, and less gravel. I found twentyeight lads stripped and at pork, holding on wide : determination that wis pleasant to look at. Some half dozen of them were tho smallest fellows I ever sam holding a plough. The sceno was a hopeful picture of "Young Canada." Their plouqhing was the theme of general admiration,-in lact some of it was swecter to the ese than any of tho men's.
Tho judges armards wers as follows :- 1 st, A. Thompson, Stanloy; 2nd, R. Sharne, Stanley; 3rd, Jno. McTavibh, Tuclersmith; 4th, D. McLean, Tuckersmith; 5th, S. Carnaban, Tuckersmith; Gth, Peter McDugald, Goderich; 7th, H. Wise, Goderich; Silh, J. Caraahan, Tuckersmith; 9ib, W. Chesney, Tuckersmith ; 10th, A. Broadfoot, Tuckersmith.
Tho men at Mr. Carnahan's, and tho boys at Mr. McLeau's, wero treated to a substantial dinner, to Which, no doubt, their seen appotites enabled them to do amplo justice.
Mills Green P. O.
a Groantic Poraer. - We learn from the Western Rural that "a bog ras exhibited at a fair in Fountain county, Ind., recentls, that weighed 1,115 pounds. The fact is well authenticated."

A Monster Carrot.-William Damson, Esq., of East Zorra, has brought to our offle, for the inspection of the curious, what ree belieso will bo admitted to bo the largest specimen of a field carrot grown in this or any other country; and as the sample is by no means an unfair one of Mr. Dawson's crop generally, we may claim for bim tho reputation of being the most succeseful root grower in this section-a result the excellont character of his land, with his mode of tillage, will caable him long to enjoy. The carrot, mosiared in tho presenco of William Grey, Esq., the Secretary of sho North Riding Agrionltural Society,
a trife over 40 inches, exclusive of the slightest pora trife over 40 incbes, exclusive of the slightent por-
tion of top. We ahall bo picased to hear of another to equal this.-Woodslock Times.

## あht Alpiary.

Managemont of tho Apiary for December. in s. u. thoyas.

Ir prepurations hare been mado for winter, in Novomber, but little is required in this month. Stocks wintered out of doors, should be protected from sorere rinds and storms. If they should become banked oror with enow, let thom remain, if they hare been properly rentiated, as thoy will winter all the better. Let it bo remembered that the more rapour that is alluwed to escape by uprard ventilatien, the less dampnese and frost there will bo in the bive. I would, lowerer, again adrise that all stocks bo housed. I' not already put into winter quarters, it should bo attended to at once. If it is desirable to winter stocks that aro libelg to want for honoy before spring, a fow pounds of sugar sticks (the whiter and drier the candy is, the better,) may be laid upon the top of the frames, in my moveablo comb hives, and the bees will mako use of it as they need. In common box hives that are inverted, it may be placed on tho combs. All hives that aro situated where mice can get at them, should have their entrances protected with wiro cloth, unless it is desirable to let the bees pass in and out. In that case the entrance should be contracted. A near neighbour, lost a fine stock last winter, by neglecting to guard against mice. Strong stocks that have been froperly housed according to the directions given in the "Bee-beepers" Guide," will require no more attention; let them remain undisturbed.

## Differences betreen Langstroth and "The Canadian Bee Keepers' Guide."

## To the Editor of Tan Casida Farmer.

Sm, -It is with pleasure that I reply to your cor respondent "Briar," who, in No. 20, Vol. II., of Tre Chada Fanuer, makes some remarks on the difference of opinion between Langstroth and myself, believing that he will see the truth on those "important points."
I am well arraro that Langstroth, after haring admitted that a tall hire had somo "obrious adrantages," still claims what "Briar" has quoted, viz.: "that a hive long from front to rear, and moderately low and narrow, seems on the whole to unite the most adrantages," and, therefore, makes his hives only ten inclucs deep. Now what are the advantages claimed by Langstroth in his shallow hives, over tall ones? Ho says they greatly facilitato tho handling of the frames, besides diminishing their number and cost." Allow mo to enquire how that can be? asmy hise contains only cight frames, and Langstroth's ten. The adrantage, therefore, in this respect, is in favour of my hive. $\mathfrak{X}$ also fail to see how the shape of tho frame can materially affect tho handling of them. This, however, I offer to do, I will remore the frames from three of my hires while Langstroth, or any other man, is removing the frames from two of the Langstroth hires. It is not, horrever, the shape of mg frame that enables me to to handlo them with greater facility, but the construction of the bive. Again, be remarks in a foot note, concerniog tall hires: "Tho decper the frames, the more difficult it is to make them lang true on tho rabbits, and the greater the diftculty of handling them without crushing tho bees: or breaking the combs." Now if Langstroth found difficulty in making deep frames hang true, $I$ do not.Hencu that objection amounts to nothing, if my hires are used.
As to the difficulty of handling decp frames, exporience prores that such was only imaginary on the part of Langstroth. I nover think of crabhing beee or breaking combs. In another foot note Langatroth remarks, that Quimby informed him that bees wintered in hifes of tho slape of his about es well as in
tall hives. Tot it appears after all that Quimby pre-
fers a fall blvo, for lu makes his frames deepur than Lers a tall bivo, for bu makes his frames deeper than
Langstroth's, and calls has hare $\cdot \cdot$ Langstroth's 1 ma proved." Nearly all eminent Apiariaus use a tall bivo in preferonco to a shallow one. Says J. S. Uarbison, "many ominent Apiariaus liear testimony to the superiority of deep hives over those that are low and shallons." Experieuco has lilly convinced me that a deep hive, preperly constructed, combines mory advantagus thau any other shape in use. Bees aro farmore likely to build thor combe straight in deep frames than iu shallow ones. These and many other points wero not as well understood when Langstroth constructed his hive as they aro now.
"Briar" again quotes from Langstroth, who speaks of moreable botrom boards thas : "If moveable bottom boards aro used, it is next to impossible to pre vent the noth from laying her eggs between them and the edges of the hives." It rould appear from the above quotation that Langstroth supposed that all moveablo bottom boards must rest against the edgee of the hircs. Such is not the case with my hives, and experience has prored that no objection can be raised against them on account of moths, while the advantages given to tho apiarian by them, as compared with a stationary bokom board are many. Says Mr Holden, an experienced apiarian of jlerrickrille C.W., speaking of my hiro, "tho bottom board is constructed opon a plan tho best that I have ever seen." "Briar" also seems to think that smoking becs often Fill mako them moro irritable, and quotes from I angstroth to shew that there is a difference of opinion botween us on that point ; but I fail to see any great difference. Langstroth docs not say that smoke makes the bees more irritable, but that it failed infts effect after it was used troo or three times a day, to mako the bees fill .themselves with honey. Ho says: "The ounning creatures, instead of filling themselres with honey, rushed out to attack me." I do not understand that they rushed ont to attack him because irritated with the smoke, but because it is their naturo to do so when often disturbed, unlese they aro filled with honey. If "Briar" would be fully satisficd, let him select tro stocks next season of about equal strength, and operato with each stock threo times aday. With one stock use smoke according to directions giren in the "Canadian Bee Keepers' Guide," with tho other stock uso no smoke and seo which becomes the more irritable. Again "Briar" finds a difference of opiuion betreen Lang strothand myself, I haringstated that bees co not die of a diseaso called dysentery, whilo Langstroth men tions it as the effect of improper ventilation, dampness \&c., \&c. Now, on this point thero is really no cesential difference, as I freely admit that bees die from an un due accunulation of freces, discharged in and abou tho hire, being the efiect of improper rentilation dampness, \&c. ; but not dssentery; for if, at such times, the weather was sufficiently warm to allow the bees to fly and dischargo themselves niray from the hire, thero rould bo no discaso and no death. Say: Metcalf, "Onco during winter it is quito necessary that bees should be allowed to dy, or they are apt to bo attacked with what is improperly called 'dysentery:" "If, however, bees aro wintered in a proper place, whero they cannot frecze, and properly ren tilated, no unduo accumulation of faces mill takd place, and thero mill bo no necessity for their dring to discharge themselres, and they will neverdie from a dieease called "dysentery.
Broomin, C.W.
J. I. Tromas.

## Eoultry xitad.

## Dressing Poultry for Market

Tas following hints on poultry-dressing aro zathered from a circular lately issucd by Norrison Taylor \& Co., of this city. The instructions are so thoroughly practical, that we believe we will bo consulting the interests of such of our readers as aro in tho habit of marketing forls, by giring them a place in our columns.
" Wo would here remark that "scallimas" poultry always sells low in this market, and that between a well dressed form and a poorly dressed one, the diference in price whit make a fur pruft. lst. Food in the crop injures the appearance und sale, therefore Eeep from food twenty-four hours before killing 2nd. Opening the reins in the veck is the best modo of killing. If tho head ho taken of at first, tho skin will recedo from the neck-bono, presenting a repul sive ppectacle. 3rd. Alust of tho ponliry sold in this markot fa " acalded," or "wet piched,' "dry pioked" is preforred by a fow, and sellis, to a limited oxtent only, at full prices. Poultry may be picked dry

For acalding poultry, the water ehouht be as near to tho boinge punt as possible, withont actunlly buning. The bird held by the legs, should be immersed and lifted up and down in the water three tomes Continue to hold the bird bs the legs $\pi$ ith one hand while placking the feathers with the other Wathuat a moment's delay after tikiug out. If akilfully handled in this ray, the feathers and pin-festhers may all be remored without breaking the skin. A torn or broken ekin greatly injures the appearance. th. The intestinesshould not be "drawn." After remorfog tho feathers, tho head may be taken off and the skin drawn orer the neck bone and tied. This is the skin drakn orer the neck bone and tied. This is the best method, though much comes to market with being dipped about two seconds into water nearly or quite, boulmg hot, and then at onee into cold matit about the same length of time. It shomh be entoriy cold, but not frozen, befure weing pached. wh. In packing nse clean hand-threshed rye straw. If thas packing nse clean hand-threshed rye straw. In be bad, wheat or oat-straw will answer, hut cannot be bad, wheat or oat-straw will answer, but bo sure tbat it is clean and free from dust. Pace a
layer of straw at the bottom, then alteraate lagers of poultry and straw, taking caro to stow snugly, back unwards, legs under the body, filling racancies with strav, and filling the package so that the cover will drive down very closely upon the contents, tu prevent shifting on the way. luoxes are the best packares. and should cuntain from, say $1 \dot{0} 0$ tu 300 pounds.

## zoctry.

## Zong of the Kerlock.*

The kerlock plant is a zito to zio As le zlaes in the rields liko gould; but all gent goald that gititers free, I wis once by my veather tomic.

20 I taso a heors and cut unall up, All out of the bartes ground; And arter that I'd lise to tincow, Whero a blt of nast cas be round

But a $2358,735 \mathrm{shc}$, It atat no use For to 60 to a girt cxpence;
Fo: twull cotno asain whatorer theo dus., Eur a feas or two from hesce.

But passon zags as cvery weed, laho the turm ts add mhato re seoxt. Slust all como up vrom a cort o' 2 ced . 7.01 ruat lct un zeed ir 1 neors.

But I'lt tako a heor and heor'a all clane, All out of tho barles ground; Vor it I dount ict un zeed, tis plaze Not a but or asst will be round.
*Chartocti or rilld musurd.

## 

## Toronto Marketa.

"Canada Farmer" Omce, Dec. 1, 1805. Tho supply of produco brousht tato maskot during tho gast fortolsht has been unusually small. I'ricai wero well matatalned, chors bitn: lltue chango to noto finm our las: quotations. Tie country roads are nows so sor that It Is impositble to team heavily toaded maginns to mariol In consequenro, busimess in the grate marict bas been light, although there is a betice demand spanging up, procipally for loun consumption.
Sureks of all kinds aro small, as the export morement keps up with the rec.jpis Wo aro laformed that there is stalt a great quantity of grada in tho hands of farmers, but uath tho winter roats ary formech, it is tot diely muc! whided its way into mare hen Fan whint hat utea dud, whit serg lught recemps. Tho reasou for shipplat tesen apre all but over, teaters aro not so

 notninal
Geacral business laterg dall Iatest alfuces from Furope offer iftho cosourajement Local trado is limued to tho merest sciall.
F'tour-m phict nomhturl, no demand, and fere transactions corvinz to quality.

## 

barley dill at G0: to joc jet bushel
Peas juict, at 5\% to 53c
Duts puct is 33c to 3 JC
Com unrhanacd.
 keg. chwo dint, 20c to - le. roils, 2ic w 3uc, retail
Cheesemoro plentiful, imerican pinac, 14c to 15 c . Egps-markol steady, rinh falr sujply; mutng thom 20cto 22 c
 Potctors - Hoptiful, and of excellcot qualif, Fith fals demand, Wholemio, asc; rctali, 30 c

Huns-ciressed, arrising freels, and selling at $\$ 360$ to $\$ 025$ jer If fr lica the hits, and $\$ 7$ to $\$ 8$ fur luRLt nclglats, pork,

litre stork - Tho market is moterately actiso and prices am firm Two híures licrownell aro off red by tho butchers anid droanrs ta thes mafact jer lutitis, dressed ire ishts:-Cutte, 13t Clase \&
 Lamis, wach, $\$ 20$ to $\$ 2$
drussid wolght, $\$ 90$ to $\$ 10$
Ficir -iphles, farmers inchod, $\$ 160$ to $\$ 250$, good shippiog barre's, 82 to $8 t$
IIamilton Marketa, Nor. 23.-F7our, TKX, $\$ 780$ extra, $\$ 8$ to $\$ 060 ;$ f.ncy, \$0 : 8uperdic, $\$ 500$, Dran, per 100 lbs, 62s. lieef, jer $100163, \$ 46010 \$ 0$, Nullon, per 100 lbs
 Apples, per bug, $\$ 1$ to $: 125$ Butler, per Ib, $\$ \mathrm{c}$ to 26 a Eggs,


 Spectator.
Hondion Mnrkele, Nior. 23.-Full $B$ heat-Oratbarg Eam.






 rots be tho losd lic to owi pro bushel. Turning 10 c to 15 c De busuci-Free I'ress.
Galt Markets. Nov: $95-F O u r$, ner $100 \mathrm{lbs}, \$ 3$ to 9375 Fall Wheat, oer bushel, il wh to $\$ 1$.5. spring Wheat, per





Osvece Karkofu, Nov. :3. - Fiour-Tho marlet is un. changed, with a good local, mer.or, and eastern demand, at $\$ 8$
 double extra from primo white wheat Gratis-wheat ia IIgh mllifg demand; No 1 Milwauke club at $\$ 180,01$ bags wbito



 do. untolted $\$ 190$ to $\&: 2$; 60 lus bolted in paper sacks $\$ 205$; do in c!oth do $\$ 115$ Salt unclapged, iso is quotel at i'2 $^{2} 45$ ner brl. and $1+10$ sacks ne 20c. Waterlime $\$ 160$ whotesalo, 8170 retal per larel. 1 Haster quoted at 5120 jwr barrel.
Now Tork Marketw, Nor ol-F7our-lieccintis, 10,400 buls : market dull and Sc to 10 c lower for lFesicen, and steady for
 to $\$ 16$ for supernto Western, $\$ 9.20$ to $\$ 3$ GS for common to me dium catra Western; and $\$ 9$ to $\$ 11$ at for conituon to Rood ship plog urajds extra round hoop obse. canada:i flowr 6 c to 10 C luxer; \&S 35 tu $\$ 8$ co for commun, and $\$ 3$ IU $10 \$ 12$ for good to cholcucrira di hearThye quict: sales 800 vushels at $\$ 116$. Iharlry dull; Canade Eaet 8110 Barley Malt dull. Corn-Recelpts, $\mathbf{2} .500$ busthels; marke quitontm at yic to 01c for unsuund, and 9je to 960 for sound mised Western; 37 c to 97 jic for nearly yellow. Oats dull at ble to G.c fur Canadizu, obu ur sulte and 10000 orm, and 43 to 30 or un sound Jork-matict lower; Eales 10,000 bbls at $\$ 2075$ to $\$ 28$ for mess, cloatnent $\$ 27$ for mgular. lienf steady: Dulfer quifet at soc to tec for oltio; 3 Se to tić for Stato.
Intest 3larifits - Flour chond heary, iJe lurer fir Wastern Wheat quet and unchanget com a shado firmer Oats decilo Ho Purh unsottled, mess $\$ 2: 50$ Yardotuads at 19c to 33 c .

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In Connection Fith the Board of Agriculture, U. C.

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Ozo. Brckland, Unlversity Collrge-iltstory, Briodng, and Slanagement of tho Doincelmated darmas

In Eyitris Class fur Aostominai Dimonsiration, taclading Disection, for l'rofessional students, will cumtucaco Niovember 20th, 1855 .
A Courso of Familiar Instruction In the Eclenco and Practice of Asmeulturo, and or tho teicranary Art, specta.jy adapicd zo young
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IT. C. THOYSOS
Toronlo, Nor. 15, 1808.
H. C. THOYisos,
Secretary Boani of Agriculture, v. c.
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Ho mugt thoroughly nnderstand the Breeding and Manacement of Sbeep, and be capable or tatilng caro or a largo locic. An induatriour and compereat man would receiro pcrmanent omploymont and good waye

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| T. D. LEDYARD, Barritler, ac, Toronto, Oct 2,1804. |  |
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