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# Cumadian 

NAL AND TRANSACTIONS OF THE BOARD OF AGRICULTURE

OF，UPP耳卫 CAINADA．

1．XII．
TORONTO，AUGUST 16， 1860.
No． 16.

## SEED TIME．

work of gathering in the products of the fields will scarcely have been concluded the farmer must again commit to the earth infor，in the greater portion of Canada the most important crop of the next year， Il wheat．And on the manner in which done will depend mainly，subject to those ces over which we have little or no con－ $\theta$ result at nest harvest．The due pre－ n of the land will have been attended to the past few weeks or months，according umstances，and on fields which are to be good season little will now remain to be at to deposit the seed in the soil．Mapure course still be applied，or a final deep －g given before ridging up，if necessary， wonld be better that these operations have been atteaded to before the present It is an advantage in case of dry weather， the last phoughing，or ridging ap，done e before the seed is to be sown，because means the soil bezomes consolidated， a fine pulverised state favorable to the n and retention of moisture from the ere．And the seed on being deposited ar distance below the surface is at once aveloped in fertile，moist earth，favora－ 3 immediate vegetation，and it is thus to make a good root and establish itself y before the advert of winter．For is the seed；the drill is the best means， re of economy in seed and evenness of weause thereby the seed is placed at
the proper depth，and in the soil in the best con－ dition to receive it，and the ridges left betweein the rows are an advantage as a protection to the plant against winter killing．Where there are difficulties in the riay of using the drill，the seed may be covered in with a light plough or gang of ploughs，and the ground left without harrow－ ing．In dry weather，which not anfrequently happens about the lest of August and beginning of September；if the ridging up is left till just before sowing，the effect of the ploughing is to dissipate what moisture the soil contained，and the seed being then harrowed in，a great deal of it lies among coarse dry lumps，instead of being baried in fine mould，closely pressing it on every side；and the consequence is that it does not vegetate till after a drenchiug shower of rain，if it erer vegetates at all，and half perhaps of the best growing season is thas lost，and half the seed thrown away．

The question of seed is an important one．It is established that if we can get wheat to come into earand ripen some ten days in advance of the usual time，re have thereby a mach better chance of escaping the depredations of the midge．The Mediterranean is proved to be an early xipen－ ing variety，and is much sown on that accoan． in the State of New York and in someparts $0^{\circ}$ this Province．The old Mediterranean．is．， red bearded wheat，and is of inferior quality to our best white wheats，its early mataring being its great recommendation．The white Mediter－ ranean is a bald while wheat，lately introduced fron Europe，and is as early，and of mach better
quality than the Meditermancan. The Early May, White Kentucky, and other Southern varicties from Kentucky, Virginia, Indiama, Missomi, Sonthern Illinois, de., have. been tried with very favorable results, in some cases, as to their canly ripening qualities, in the adjoining States and this Province, while in other cases the experiment has ieen attended with disappointment. We think there is suticient proot that Suthern wheat will ripen eablier in a :orthern locality than the mative forts. hut i: order to test the matter faidy, the fammer should be sure that he obtains the genume article, and that of a rood varicty. Whatever kind of sect is sown care should be taken that it is of a tumixed sample, and free from chess cockle smat, or other imparites. The cuartity of seed is also to be taisen into consideration. When sown pretty thickly, the autumn growth of leat asists in protecting the root of the young wheat aranst the winter, the plant has less room and less need to tiller largely in spring and eaply summer, is consequemly less exposed to attacks of rust and midge, and ripens a few days eanlier. Although in extremely faromble seasons, a larger head and plumper berry maty sometimes be obtained from at thin seeding, get the majority of experiments show that a moderately thich sowing is nore to be depended upon for a good crop. We should therefore recommend on ordinary gromed not much less than two bushels of seed to the ocre, on in some cases as much peihaps as two and a quater or iwo and a half bushels. On very fresh and fertile laud, particularly if sown with the drill, a bushel and a half, or a bushel and three peeks may perhaps be found sutherent.

As to the time of sowing, something of course denends upon the sedoun, and un pachinmities of soil, situation, and othr circumstances. Bofore the appearance of the say, any time from the lst to the 15th, or even the 20th of September, was considered in groul stason. Now; however, in districts where the thy is phevalent, it will be prudent to begin sowing as canty as the last week of August, and tinish not later than the first week in Scptember. In any case early sown wheat has a better chance of establishing itself well before winter, so as to meet the difficulties of that season, and escape rust and other evils, than late sown.

Sonie other things require attention at this season. In thrashing grain, care shonld be taken
to store or stack the chaff and straw pri: and not allow it to be wasted by exposurec weather or being trampled under foot? cattle, as is too often the case. and the wo it felt severely afterwards. Outstandins: of arain or hay should also be looked to, not alseady properly thatched and secured accident, attended to immediately.

Some attention is still requisite to thet of parsnips; carrots, turnips, mangels, th thin them out properly, keep down the: and hoe the ground. An immense inprore may still be produced ia a root coop bra attention to these operations.
Lambs, if not already weaned, should t: arated from their dams without loss o: Let the lambs be pat on sweet grass, with: ficient bite, out of hearing of the ewes, s, they may not be disturbed by ther bleatio: fall back in condition. The ewes should: on a pasture till they are dry, when they : be put on good grass.

## The Provincial Exhibition.

The Exhibition has been aprointed place on the 18th: 19th, 20th, and 21sts ber. It will therefore be only abouts earlier in the season than it has beent several previous ocersions. The preps are progressing at Hamilton in the mo: factory manner, and we have every reaso lieve that this will be one of the mostatt exhibitions ever held in Cpper Canad trust that all, farmers, manufacturess, public generally, will join heartily in te mination to present on this occasior to spection of His Royal Highness the 1: Wales aud his distinguished suite, suchs of the argricultural and industrial prod the country, as every Canadian will hank to be proud of, and such as will conref a truthful and adequate impression of sources. Prize lists and entry for be sent to all persons who have beet habit of exhibiting, and all others ms: them of the Secretaries of Agricultur: ties or Mechanics' Institutes. Intendiv. ters are requested to make their entrie as possible.

## Editorial Correspondence.

## [No. 4.]

 societres show of england.

Canterbury, July 7th, 1 R60. Iy communications are all more or less of a esarily hurried, and, I fear, desultory chater. In the mdst of shows and rapid travelone can searcely find time and opportunity making rough notes of the thousand things t come under ol servation. I must say a few d more in addition to what was stated in last in reference to the late National Estion of France.
he department of agricultural produce was the rest of the exhibition, very extensive, pising nearly four thousand entries, ared in a tasteful and commodious mamer reneral inspection. It was impossible to ess this splendid display of French industry, diding not only the productions of France also of her colonies, without a proportionate tession of her great varied resources. The uce of the Colony of Algiers ocrupied a very nsive space, and constituted a marked and esting feature of the show. In addition ceellent specimens of the roots and cereals mon to Britain, were to be seen numerous actions of the sunny south, embracing not of such even as are of a purely tropical cter. It is said that there are nearly three of of acres in this country devoted to garand orchards, the varied produce of which the readily understood at the exhibition. 4, pears, cherries, plums, hops, \&c., chaise northern France, while the grape, alolive, maize, saffron, and other producbelong to the central and southern portions. froduced in large quantity, and mulberry for feeding the worms are planted by the ide, as well as in large fields, occupying If thousands of acres. Beet root is extencultivated for sugar, the number of manries being upwards of three hundred, profrom forty to fifty thousand tons annually. gar is met with at all the hotels. beautipure and white, but it is deficient in sacmatter, as compared with cane sugar. $\mathrm{y}^{\mathrm{m}}$ sunny summer is essential to the full ty of the sugar beet, which has not been ${ }^{3} 0$ answer well in England for making suscent in particularly hot summers. In

Canada it would probably succeed, but whether our sometines severe frosts in the fall would not injure the saccharine properties of the root, and interfere injuriunsly with the power of crystalisation, is a matter, at least, doulttul. The numerons wines of lrance formed a prominent object in the Palace of Industry: and although there is bat little probability that among the working millions of England they will displace the national beverage of malt liquons, set under the new treaty their general introduction among the people of Gieat Britain, must to some extent diminish the consumption of ardent spirits, and thas exert a favourahle infuence on the health and morals of the commmity. All I could learn on this subject is in accordance with my own limited observation, that the ordinars use of French wines, is in that country compatibie with general sobriety. I olserve in the last Report of the Bureau of Arriculture of Canada, an article containing some interesting and encouraring information on the culture of the grape; whether, however, an extensive culture for the purpose of wine making can be profitably carried out in Canada, carefully conducted experimennts on a suficiently large scale can show. I saw the other day some excellent specimens of wine produced from some rather extensive rineyards in New South Wales, some sixty or seventy mile, west of Sydney.

One thing particnlarly strikes a stranger in France, viz. the vast amount of small farms, or rather holdings. Two-thirds of the land is divided into luts varying from five to twenty acres each, consisting in fact of long and narrow strips, on which there is neither capital nor scope for the employment of improved modern implements and machines. The compulsory division of land so unrestrictedly carried out in this country presents an insuperable barrier to the general improvement of its agriculture. It appeared to me that on most of these diminutive holdings there was not, as in Belgium, a deep and thorough cultivation, with a husbanding and systematic application of manure. The tools and implements were mostly of the rudest kind, and the occupiers, though evidently tidy and industrious, o not command anything like the same amount of the first necessaries of life as do the majority of English or Canadian laborers. I saw some farms of larger dimensions; a few in the vicinity of Paris from two lundred aeres and upwards, well cultivated on a system
of retution, with improsed implements and live heantifnlly and conveniently situated within stock. These latter, howpver, cannot he pro-/mile of the city, close to the railway, and th cured for next to nothins: grod utensiti as well 1 arraugements appear to be sery completr. Th as superior cattle are necesaatily enstly produc- division of habour in this respect has heen can tions, and for any one to cucced in faminy, frily studied, and the vaied machinery of mas whatever country he may dwell in, he mast of /agement seems so far to work noiselessly mi concile his mind to the necescary nutlay.
In the support and management of the co kimpl of exhibitions the difference hetween Engiamil and Srance is rery great; the latter deprends upon the Govermment fie: almost averythine: the former for nothing. The wecent show it is said eost the Fretel: Guermment some sive thousand pounds ster'ing! With such an ex-1 penditure from such at ware, in ofte of the most ! beautifu simations of that beaution bormonnis. | the Fxhibution mast nectssarily smpars intmia of ormment and decomative spledener anch as are dependent on wolutaty contil uniors, The Emperor is the mainsjning of all ibwe gteat movements: he evidenty comprelonds the wants and high desting of the cubatry whim be wisely and beneticially goterms.
I omitele to state that I faid a vieit to the great national fam :and school af (irignm. about twenty miles from Pais, with which I was mach delighted. Particulars mast be reserved for a future commanication. So anprejudicen penson. I thimk, can :isit Frame ard its metropolis, even for the bricfest peried, withnut forming a high respect fur "pectph so rminenti? distinguished for art and stience, liturather and arms. I heard the must friendy sedir sexpressed both towards Ets: ...d and Cansid. For the sake of peace and human pron-inn may ach protessions be propery and siturenty so..inor cated:



Tuly loth.
The twenty-third Exhibition of this great national society is now being beld in this ancient and piciurespue city. To day the public were admitted on the payment of halfa-crown. but the number has not bern too areat to interfere with a carelul and minate examination of the articles and stock by individuals. Hitherto none but thase officially connected with the show could find admittance, except by special order. The Implement yard, however, was open to the public on the payment of a crown. The grounds, consisting of about thirty :cress, are
a chiciently. Here may be som the aristormery of the land wohling vith trnant farmers at! mectanios in conducting the grations of 1 , marniticent Exposition of the arrenhural ad mechameal industry of Engiand: and the 5 , bier :mand subordinate uficess ase men in the stations of superior intelligence and chanacte. As all entries for the cxinibiom fimaly closec, 1 thin, the 19 ti of May; some sis weeks fore the show takes phace, a detaild catales? is prepared and pulished, and all animals at: anticles are strictly anatuyed in a systemat mamer. With a catalogue of this kind of erer. article vecupying its wa corresponding piate it is cusy to ascentain at a glance, the name a residence of its owner, and such other partic: lars as most people desire to know. I cane: see why something of this surt could not he de: with gur Provincial Shows in Canada, provil the entrics were made more explicit and $t$ they ware made absolutely to close a few wet. before the time for lalding the exhibition.
'jhe present show is not so large as its a imuediate predecessors: Warwick ani (he: being in a more cental josition, surroundeds all sides by a dense pepulation, while cat: hary is situated in the Suatheant corner ofit istand. The falling ulf, however, js not it great, especially when it is considered it twelve or thirteen principal frres mamfactur: agricutural implements and machinery, in o serpuence of an unfortunate misunderst .adin? quarrel with the Society, declined exhibiti These manfactures bate on previous vecha corered several acres with their product: carcfivily and often tastefully arranged, andi constituted unquestionally an important : attractive feature of the exhibition. Ahti many of the principal tools and machine these intactable mandactures were in the at and exhibited by argents, who in this countr generally the purchasens.

The following analysis will give the raw defmite idea of the extent of the exhibition. Shorthorns the number of entries (and: departments what was entered was exbi with only a very few exceptions,) was
refurds, 43 ; Devons, 39. Other established ers. 22: Sussex, (special ${ }_{1}$ rizes) $2 \dot{6}$. Hurses tallions for agricultural purposes of aifferent s.in) : Mares and Foals for agricultu, al pure. i: 'Two year old Fillies for' arria ultural pres. 11. 1) bux Honsf:-Stallions, 14 ; rough bred Stallions for getting Huntens, 7 ; od Mares for loreeding Hunters, $s$; Brood res fir breeding: Hackneys, 2 ; Saillion Po4: Mare Ponies, li. Jeirrsier Rams, 3:? suf tive chearling ewes of the same floch, 6 . thiduren Rams, 6.5: Pens of fise Down rling cwes of the same flow, 10. Kientish Romney Marsh Rams, 20; Pens of he rlin: Ewes of the same flock, t. Lonng ted heep, not ${ }^{\text {pualified to }}$ compete as Leiar ar Kentish lireeds, Rums, st; ; Yeus of Abarling Ewes of the same floch, i. Shrop-- Rams. J': l'ens of five shearling Ewes e same flock, !. Short wooled sheep, not ified to compete as Southdowns or Shrop-hrep-Rams., 62; Pens of five shearling - 'f the same flork, ?. Kentish or Romney $h$ hreeds, (special prizes)-l'ens of live 2 ; yars old Ewes of the same floch, 7 . Pigs ars of a large breed of ainy colour, 17 ; a fi a small white hreed, la: Bums of a hack breed, 11: hoars of a breed not If fore the preceding classes. !. Whe breedours were subjected to the same classificaand amounted to ts. In the lmplement rament the number of exhibitoms was 206, whihited four thousand articles, including a number of large and s spensive machines, ifre of sme reaching to sereral huadred - lin cifies there were atecial prizes oficed - Canterbury Local Committee for Hons Coud. in which there were gh entries.

- how wif Live Stock was, taken as a whole, reding fine quality, and in this respect fral to previons meetings. Among the s beeds of horses were amimats of very or merit; among which stoud not least for * purposes, the Suffolk Puach. The orns still maintain the high position they o $\operatorname{long}$ occupied, although the chass of rels was both numerous and of excellent
As a class the latter were very unifurm, ing high and systematic breeding: and in $n$ in the premiums, quite a large number denmmendatious from the Judges. The enium for shorthorn Bulls, of two and ceding six years, has argain been won by

Col. Towneley, of Bumley, Lancashire, by "Royal Butterfly," a brother of the celebrated "Master IButterfly," that was sold for 1200 guineas a few sears argo and sent to Australia. "Rusal Butterlly," is allowed by competent judges who have seen buth to be on the whole superior ; he is near three years old, of a roan colvur ; sire, "Frederick"; dam, "Butterfly"; sire of dam " Jeweller." Fabulous prices, it is reputed, have alrealy heen offered by fureigners for this extraordinary animal, which is attracting the attention of laree numbers of visitors. I heard it stated yesterday on good authority, that the English beeders will not be so ready in parting with their first rate animals as formerly, but will setain mure of the best blood for themselves. The second prize was awarded to "Prince of Prussia," a truly princely animal, turned :3 years, owned and bred by Mr. James Dickinson, of Wigan, olt of "Amelia" by "Poine's Eye." It is a little singular that both these premiums should po to Lancashire, a county much better hnown for its cotton manufactures than for agriculture. In Pigs too this part of England takes sume of the best prizes. I have neither time now space to go into particulars with reference to any department of the show; and this is the less necessary since the Marti Lane Express, and ofher English pa. pers, will, in a few days, publish, after a thorotyh examination by competent judges in thair sureral departments, a full systematic repurt. The Derons constituted a beautiful class of ammals; several in puint of symmery and breeding semed to have reached, what perhaps in practice is hardly attanable-perfection. The Susserv cattle did not mister in such large numbers as might have been expected in this part of England. Some fine spucimens however were present; indicating much higher breeding than I hat heen accustomed to observe among this class some years ago. They were evidently derived from the Devons, which in color and general appearance they much resemble; but they are large: and coarser; like the Derons the oxen make excellent workers.

The shect) as a whole were exeellent. Cotszoolds were in large mumbers, and their great size and fine appearance attracted much attention; the same remark will apply to the Leicesters and Shropshire beeds, but the Kents o: Romncy Marsh appeared to be below par. This impression might arise from their comparing.
somewhat mfavorably with other atd sugurior latter and $\mathfrak{f l 0}$ to the former. These est breeds placed in juxtaposition. They are, hom- propelled grublers and scarifers wither ever, a very valuable heed, adapted to the facihty, and are adapted to most field yf exposed situation in which they are principally tions. Un the vast paines of the West ${ }^{3}$ tound. The pue Southdouns fonned a must must be particulaty advantayeces. Tome
 again appeared in all the ste:ngh of former; the most ditheult problem in arricultara: years. He completely carion of this year all chanics: but the result has 1 ow beenat: the honors both trom the luke of lichmond, plished, it not in a state of perfection, at ? and Mr. Rigden, who have to be content with!ia a pacticable shape. Buryess \& Keysm: the commendation of the Jadecs. This result 'an improvement on Allon' of New Yon': is both instructive and encourving. I well re- ; taned the prize and performed its work ints, member hearing the loke say many years aro meadow grass admirably. Two strong l : that he would continue to persevere till he obtain. |and one man cut an acte per hom, the pris ed the first position against Mr. Webb; he did so; and succeeded. ITis Grace will again have oceasion to pat into requisition the same noble quali- ? ties.
The Implements and Machates were tested last week, either in the tial yard or the open field. I felt particularly interested in the steam ploughs, and the reapers and mowers, which are recent introductions in this country, particularly in this district. The stam ploughs were put to work in a ficld near the show grounds, and from the stiff character of the suil and great inclination of the surface they were subjected to the severest test practicable. Four ploughs started, but two of them were soon. found inadeguate to the work, for want of sufficient power. Fowler's plough performed its work easily and thoroughly, turning over three furrows of six inches deep up the hill and four down. His balance four-furrow surface plough, made by Ransomes \& Sims, was propelled by a 12 horse set of steam cultuating apparatus. The 12 horse engine has a double cylinder, fitted with self-moring and reversing gear, windlass, and tender, anchor, s00 yards of steel rope, headland ropes, 20 rope porters, two snatch blocks, and field tools complete. The price of this apparatus complete is $£ 699$, and the plough adapted to it, £S1. There can be no doubt but this machine is capable of ploughing in a workmanilike manner, the most obdurate soil. The rise in the upper part of the field was 1 foot in 7, and the work had to be performed directly up and down the incline. The other plough was Robs \& Co.'s; the apparatus much lighter and cheaper; it turned two furrows up the hill and three down; the work although effectually done was in appearance inferior to that of Fowler's machine. The Judges awarded $£ 90$ to the

E30. The same fim mandactme at reater. but the test was not thorough, it :it only be applied to an inferior crop of areas I bappened to fall in with Mr. Stol.. Guelph. in the cattle yand today, and $n$ spected the Horse and Shorthorn classes to eti To-morrow there is to be a trial of Plue with a riev of testing the old Kentish tu: plough so long and highly thought of is. countr. Uther ploughs it is expected w: put into reguisition. The practice of plon: in this county is to tum the furrow almost pletely over, and to beak it for a secd To-morrow and Thursday are shilling dars vast crowds of visitors are expected. weather is fine, but cool and cloudy fos season. I have experienced only one of summer days as yet, and they could not he to have been hot. The crops on stiff, wet are very indifferent; and the prospect os whole is not cheering. I am glad to favourable accounts from Canada.
(G)

## Pleuro-Pnemmonia in Cattle.

From an article in the $J r i=3$ Country tleman's Newspaper, by Mr. A. Hend Author of the "P.actical Grazier," we $\theta$ the following remarks on a system of $t$ : cattle affected with Pleuro. Pneumonia, br: ing by means of covering with wet, blankets, \&c.
"Mr. Lord states, that under the fol: treatment-cighteen animals out of twent recovered-whilst nineteen amimals out of ty have died under the usual application pletion, sedatives, counter irritation, \&c. move the animal into a large, airy baf,
e a couple of thick ho:se-rugs, or thick cov$\because$ saturate them with the colde: spring te: and place them on the bods of the ani1. rut five or six other rugs or thick coversuruy those, and a lons wrapper round over in keep them close to the body, also two hs, one behind the shoulder and the other ore thr udder. A long girth fore and aft cep the clothing from shifting, is advisable. sediately atter adjusting the clothine, rive runces of spirit of nitre ether in a little 1 watro. a wine hottle, with water and ether to the shoulder: in half an-hour or three rers pive another dose: then piace a bucket ohd water hefore the animal, in sone cases ill drink two or three buckets, in a short the animal will puespire : keep clothind on ine or six homs: then remove the doths. pat two dry russ on with wrapher and 1s: keen them 'il for a tew dars, and cast ally. The diet shou'd he a litile thin grael ral mash. If the bones are torpid, five one $d$ and a half of raw (boiled oit is bad for e) linsed oil. In the majority of cases. suot necessary. If the amimal is not cuaahly relieved in ten or twelve hours. repeat plication and doses. Sunctimes this has requisite two a three times, bat ustally rst only is necestary.. From the anxiety morint from the minds of the puinlic in al. the idea that no curc exints tur plemomina. I hate far exceded the detail of a subject. From the raricd success as duy men of eyrevence, is might be deemherfluous statin's my experin tue of the dishut as my aceidental disevery. which I tharht puite original, surpots XL . surthod of cure, of which I must aprove, o to frath my promise to fise the public frience of owch a disease and leare them fre of it alons with ohers statel by mon at experience.
the outeet of attempting a cure in lo 45 , armin; extensively i: the neirhhourhood uhurerh, where the disease was accasionry prevalent and fatal, in which I shared $\therefore$ with my neishburs: but not beint "h'y ac puainted with the natuee of tle
I contented myself by following the 11 motine of attempting a cure, as prece $\therefore$ my neirhbours, and so erenerally by cunand others of practical expetience, was first to bleed and sive physic to cool od and keep the bowels open, and, in ustances, to blister the sides, i a which sas sometimes successful, but mure fieotherwise; consequently I chimed in - prevailing opinion, pronouncing the viucurable, and contented myse!f with ing to the difficulties and losses with was doomed, along with others, to cor.-- It a favorite mey mare was attacked disease, on which I bestowed extra atalthough adhering rigidly to old reme$t$ formd my patient sinking fast under
all exertions, and afte, feeding with gruel, and anything nourishing, she became so much redriced and feeble, labouring under all the most deadly ssmptoms imaginable, until at length all hope, of recovery were extinct; in short, it was recommended by all who witnessed her agony to prut her out of pain, but this I would not submit to, and liefore leaving her at nirbt, which I was consinced would le the last that I would be troubled with her. and by way of showing my last respect to a geat fav orite. I covered up her stretched-uht furm w:ti. some large horse-sheets, and so left her to die-which I thought ineritable. I went neat morning, at breal of day, expecting to find per suferings ended, but to my utter astomishment and eratification, when I opened the doo: of the loose box, she lifted up her head and looked round, as much as to say I am a little beterer. And upon examination I foumd the lund to be conered over with a gentle sneat. no dutio caused frum the load of clothes "ith whicin she had heen covered the night before, so I enewed my exertions by keeping up the fersuration: and linding it somewhat dif: ficult to accomplish, I had recourse to wetting a Wanket in cold water, wringing out the water, then cone:ing her up, with it. and put some dry biankets wer all, which had the effeet of raising a freat steam, which I continued by the same process to keep up, for twenty-four hours, after "hich I only heft her warm with dry clothing, and as I fuund her daily improving, lessened the burthen of clothes: and by giving her an occasional dionk, and tontimuing to give gruel and othur nowrishing similar food, shin, in a little tine, made a complete recovery. I, however, heit her siishtiy sheeted for some weeks, whilst at sass. puttins her abways under cover at nisht, and heeping her in the house all day, if eithe: wet or culd. I need scarcely say that I was mi vuly prod of the accosery of a favorite animal, but of the idea of having, though accidentally, discurcred a iemedy fur so moital and once-thought incurable disease.
But in urder to test the validity of such cure, shostiy after, the others of my cattle took the disease, when I commenced by bleeding and ihysicine, which had, apparently, such a good effect at first, that I thought all that was furthe necesary was to kee, them in a well-venti:..ied, warm hutise, but suon began to find that the disease was berinming to increase, until, at len.th, they buth tecame very ill, when I immediately had recourse to the treatment here nuticed of my favorite, when both made a most rapid recorery-so I was still prouder than ever; and as the disease in the county, after a oreat many deaths, vesan to recede, I regretted nut having an opportunity of testing my accidental discovery-cold water cure- 幺 littla further; however, I was soon gratified in this respect by the disease ayain breaking out in a neighbour's stock, but rather assuming a mild form, and the owner being a person rather inclined to leave nature to itself, administered
nothing but physic, when a number recorered, but some died; I recommended my cure to him, but being roid of faith and strongly tinctared with procrastination, he put off from time to time until his loss by death, in milch cors and young cattle, became very serious. He had two of the young ones left, which he actually turned out to die in the fiold: mn seeing this I begyed the two animals from him to again tast my cure, to which he most rendily consented, at the same time assuring me that it was a vain attempt. put them into a house and commenced with the same treatinent at be:ore, wien they very slowly got better; but bs perseverance and siriet attention, I again effected a cure. to the owner's ntter astonishment. I have thus a again laid before the public a statement of facti, which I am confident will prove thenselves to be so, if carefally acted up to, and persevered in ; should any one of my readers be so unfortunate as to have patients to test the experiment by trying the cold water cure. From all that is here advanced in support of the cold water cure, may he gathered that the same idea may strike two dif. ferent persons, in or about the same time, as myself and Mr. Lord; but as mas cure was not, at least, laid betore the public when Mr. Lord wrote apon the subject, I cannot impeach him with being a copyist. Also, that if the wet blankets, \&e., are not a cure of themselves, they at least, prepare the animal, by perspiration, so as to mate medicine, \&ec., act quickly, son neces. sary in this disease, which is general!y accompanied with all the pores of the body bemy slat, as also very much hide lound."

## Report of the Maine Commissioners on the Cattle Disease.

We have received the report of the fommis. sioners appointed by the Governor of Maine to obtain full information as to the manere and extent of the disease, the wethod of treatment, the mamer of infection, and what meastres may be deemed necessary to prevent its s:nead, or arrest its progress. The information contained is equally important in this country. The commissioners were Mesirs. S. L. Gootale, A. Nourse, B. Hohnes. They readeed theit report on 2lst Jume. We give the following extract. Atter shetching the hisiony: of the inerodurtion and progess of the dasease in Masachusetts, full particutars of which have atready appeared in the Agriculturist, the Comaissinets pro-ceed:-
"As wilh all orine cont.grions diseases, both amous men and brutes, some individuals are found to be less susceprible to the contarious influence that others, and sume are not hifiected
by it at all; and doubts hare arisen in the mivi of several Europenn writers on this point, $i$ weight of opinion being, however, very strotit in favor of its contagious nature; but we sut: that the facts in Massachusetts are such ns $^{4}$ prove it beyond a reasonable doubt. WeE the disasse to be not only contarious, bat inas ous and deceptive, malignant and fatal. Iv dious, inasmuch as it often creeps upon: unimal so stealthily that it is dificult an' soz times impossible to fix with any accuraç: date of the attack. Deceptive, in that: animals which have had the disense and mar: fairly presumed from appearances, to $\mathrm{b} \cdot$ recovered, one or both lungs have been for on slaughtering them, to be little else thaz mass of disease.

That it is both malignant and fatal, uyhysi needs no proof. Nearly one thousand aric have already fallen victims, either to the diset or to efforts made with a view to its extirpat: and more than an additional thousand are ein known to be slck, or, from having been expat are under the ban of suspicion. It is nott that the distemper is universally fattal, for a; few survive which have been its subjects; it is not yet positively known that even one: been alsolutels cured. They often com: eat well, drink well, and thrive tolerably thus exhibitung the ordinary characteristio health, and yet, a post mortem examination: within our own observation, shown how nta fallacious were all these indications in sp: case.
Regarding the term of incubation and of: pagation, or the length of time which elf between exposure and the appearance of dik and also during what period the animal ist he of conreying the disease to others, we gr regret our inability to arrive at definite or: factory conclusions. In some cases the dis is apparent within ten days after exposurs other 20,30 , 60,90 days or even more, are posed to elapse. One case is reported r . the exposure was seven months previous. more usual period appears to be not far! twenty days. When the capability of the ci to coivey disease to others begins or end have no knowledre. This is a most impa point, but all we conov is, that it may :mi do so before any symptoms of illness $a_{6}$. and, as the lungs of some which have staughtered exhibit evidence of the laters of the disease in one portion and of the in :mother, there seems reason to fear th. term may sometime be indefinitely prolors
As alteady remarked, this lung mums by whatever other name it be called, is most insidious nature. Any disturhancei aminal's health is rarely noticed until the ${ }^{2}$ is fully established, and effusion into tts tas made some progress. The ordinat that not much ails an animal until it refí cat, does not hold good with this disease. early symptoms are so faint and obscors
frite neither anxiety nor attention. By and thr animal gets a dull and dejected look; if i pasture, it may be found in the moruing apint om the herd-the back arched-the fore legs ther wide apart-the hair staring-a little unasy and don't eat well; but later in the day it boks better, joins the herd and cats as usual slight, but husky cough is cecasionally hcart, ind sometimes quich $-\cdots$ breathing, as if from tra exertion. If a cuw, the milk diminishes, ccompanied with heat and tenderness of the dider.
As the disease progreases the cyes luok dulier, te heal is lowered, the nose protruded, the pogh more frequent and husks, the appotite ssenc, rumination is euspended, the limbs and rface cold, the skin tight over the ribs, the ine becomes tender, and pressure upon it, or tween the ribs, produces evident pain. As the sease approarhes an unfavorable ternination, e breathing becomes feavfully labo ious and accompanird with mucous and sometimes with unts, the cyes sink, extremities cold, the puth is covered with froth, the strengta fails It the poor beast falls and dies; or, if the imal is to recover, the severity of the sympms abate, it looks better, eats some-if a the milk returns; the hair becomes sleeh,

Perrussion and auscultation furnish the must iable means oi judging, in the liviny animal, the etote of the disease. Ypon striking with ands of the fingers upon the affected side, a I sound is usually clicited, proportionate to consolide ion of the lung, or to the presence ahernee of fluid in the cavity of the chest. no applying the car to the sides of the chest, or the other, and sometimes, though rarely, h, are found to be affected. The variuus nda cannot be easily or exactly described, a prartised car will judge with great acu, - hetween the natural murmur of healthy Ev and the different sounds recognized in the ral stages of the discase.
n what manner, and through what channel, disease enters the system-whether it makes ptark directly upon the solids, or begins by unting the blood-these, and other kindred fts. are, at prevent, matters of pure conjec-
Fith regard to treat.n. at, little of a satisfat character can be offered. The severity or Inese of the attack and its termination, thre farorable or fatal, may, not improbabif, end mare upon the susceptibility of the indi31, and upon the amount or intensity of the oginu taken into the ssstem, than upon any tment hestowed. Whether subjected to a se of medication, or trasted wholly to the perative powers of nature, some will recover heie or in part; but we have little reason eli-ve that any will so recorer as to be sefrom a second attack, or become ableed or sound, or valuable for the ordinary poses for which domestic animals are kept.

Cunsiderin $n_{i s}$ the probable unsounduess of those which survive, hearing also in mind the exceed. iug impurtance of active and healthy lungs, and the expense necessaily .arolicd in the treatment and isulation of those which are lust as well as those which are saved, the conviction is forced upon us, that attempts to cure this disense will rare! y, if wer, pay. We may remark, however, that counter-i:ritation, by diverting diseased action fiom the vital urgaus to the surface, promises beneficial results, and the application of highly stimulating liniments, blisters, setons, ard the like, is undirstuod to have been of mure service than aught else.

The appearances after death vary greatly, buc there are usually extensive adhesions; consolidation of a portion of the lung tissue, marked $t$., a peculiar murbled appearance, is one of the must strihing and unifurm accompauiments of this disease. In sume cases an immense cavity is fuund in une of the lungs, and, e:closed in that cavity or cesst a cheesy substance or lump, having nu attachment to, or connection with, the adjacent lung. In others, the process of detachment had not been fully completed. Some lungs were found to le so hypertrophisd as to weigh three ur four times as much as in health, and in one the estimated weight was from fifty to sixty pounds!

As, in our present relation to this disease, we deem prevention to le of incomparably greater impurtance than either a knowledge of the symptums attending it, the treatment best adapted to mitigate its results, or the merbid appearances presented after death, we will not longer dwell upun these, but rather urge the importance of a wusite at unce to a proper appreciation of the mabriitude of the threatened calamity. If once it becomes naturalized among us, we may never again expect immunity from its attacks. When once fainly cstablished, either here, or elsewhere, its seeds may remain, even after apparent subja. gation, and whenever the necessary conditions present themselves, it may break out again nith fearfil violence.

Our unly safety lies in heeping clear of it, and we urge the utmust vigilance upon every individual and upon all competent authorities to see that no unimal be admitted into the State, either directly or indirectly, from any quarter where there is recson to believe that the dis. case exists.

We are prepared to say, that absolute and perfect non-importation is the only preventive measure worthy even of consideration. We have no security $\begin{gathered}\text { hatever against the introdaction of }\end{gathered}$ the disease, su iung as animals from neighboring States are permitted to be brought in, whether directly or indirectly, by land or by water. The temptation to get riu of animals which have beem exposed is very great; the absence of any indi cations of disease gives great facilities for doing so, and apparent cheapness may be a fatal lure to the unwary purchaser.

The question of extirpation is, happily, not
yet before us. Should it arise as a practical matter, we do not hesitaie to recommend the instant slaughter of all animals atiected with the disease, and the complete and perfect isolation from other cattle, of all amimatis icasomably suspected of having been expused to the contarion.
Massachusetts is wide awake. Her efforts to save herself and siste: States from an mparatleled caiamity, are worthy ( ${ }^{\prime}$ the highest praise. The only regret is, that the eforts at extirpation were not commenced eanlir. Liad the Lerislation been more prompt, and the first appropriation ( 810,000 ) been made a munth sooner, it would in all probability have sufficed to ex. tirpate the disease utterly. is it is, ser, (itio have been expended, and it is. now propeded to use $\$ 100,000$ more if needed."

## Pleuro-Pneumonia in N. Y. State Six Years Ago.

The following is the important letter of E. P. Prentice, Esi, of Mount Hop 's near Allamy, N. I., addressed to the Cpuntry Gicutleman, to which we referred in the Agriculturisi of July lic.

Messns. Emrrons-I notiee that a good deal of alam is jelt in diferent parts of the country about what is called the catte disease.

From the diamosis given in the papers, I have no douit this is Pleurol'neumona, with which I had some acquantance a few years aro. If it is the same, my olservation and experience may be of some service to thase sutiering now.

It was introduced into my stock in the tall of 1853, by one of my own cows, which in the spring of that rear I had sent down to my brother in Brookiya, to be used during the summer for milk. She was ken entirely isolated throughout the sumemer, and in Norember was sent up by the boat. There were no other cattle on the boat at the time, nor could T learn that she had come in contact with any in passing through the streets on her way to the boat, and she certainly did not after icaving it, matil she mingled again with her old companions, all of whom were then and long afterwards perfectyheaithy. After she had been home about two weeks we noticed that her appetite failed. and her milk fell off; she semed dull and stupid, stood with her head down, and manifested a com. siderable degree of languor.

Soon her breathing becme somowht hurried and with a very decided catch in it; she groman herteeth, continued standiny, or if she laid down it was only to jump up arain instantly. Ifer cough increased, and so too a purulent and now bloody discharge of mucus from her mouth and nostrils. The excrement was fetid, blace and hard.

In this case we twice administered half a pound of epsom salts, and afterwards a bottle
of castor oil. Very little but a temporarye was produced by these doses.
The symptoms all increased in intens: strenyth diminished, limbs were drawn togete iselly tucked up, dee, matil the eighth day, nt she partly layed and partly fell down, and e: rose again. In a post-mortem examimation: luags proved to be foryed with b.ack, t: hood, the substance of them to be thichat soft and pulp. The pleura and diapham: showed a rood deal of disease and some adhe-

This now on her amival here was put ind asual phace in the stable, between others. remaned there for two or three dars aftos was taken sick. letore we semoved her tw hospital.

In about three wecks from the time she: one and then the other of these standin: either side of her were attacked in the: way, and with hit two days between. This tainly looks wery much like contagion, hes attention had not before been called to des: ticular disease, and to suppese inllammate: congestion of the lungs contagious, was: posed to my preconceived notions that I in: even then admit it, and these ammals wert fered to remain with the others until their comfort seemed to require the greater he: of open pens.

One of them was carly and copionsly: twice, while epsom salts were administered he the stomach and with the injective $1-$ The other we endeavosed to keep miv: with ipecactamba, and at the same time to: her bowels open by cathartic medicines. proved to be of no anail. They both died one in ten and the other in thirteen days. fore these died, however. others were tale: And thus later I had eight sick at one time

The leadiny symptoms in all were the : with minor diferences, and so too was t: pearance after death on cxamination.

Of all that were taken sick (sixteen) hai recovered, and hey were among those re the least for, after we had become diseol: about trying to cure them. In all the last: we made no eflort at all, but to keep th: comfortable as we colld.

In one case the acute chamater of the 3 . chanred to at chronic, and the ammal lise or eight weeks, until the whole textme : lungs had hecome destroyed. She had le much emaciated, and finilly died with the nary consumption.

It the time the first case appeared I: herd of thittyone mimais, all valuab), shires. in line condition and health. In: first cases 1 had a veterinary surgeme siderable celebrity and experience, and ordinary approved mode of treatment : sorted to and persevered in. The last e: before intimated, we only strove to matr fortable.

After I paid the third or fourth forfeit; I to wake up to the idea that the disease ${ }^{\text {m }}$
th derree contarivus, whe ther I would have so u: not, and that my future security was in nention and not in remedy. I therefore sepa'el all the remaning cumals, in mu instance ving more than two together, and encrally tone in a place.
All were romoral fiona the infected stables 1 put into quarmatinc. lsolated cases conwed is occur for sume weeks atter this, hut . siread of the disease was stiyed, nor did it ghe case occur after this, which we did not aik we traced diectly to presions contact.
$t$ is impossible to accoment for the first case of ich I have spoken. But as the cow in that e was put into a salcs stable in New York ile waiting for the boat, though there were cattle then present, yot I have supposed it milikely that diseased amimals had been re, and had left the sceds of diserse.
Sut account for this case as we may (and I eno doubt it is sometimni spontaneons, I l convinced it is very highly contarious, and the only satety to a heed into which it has nintroduced, is in complete isolation, and in I feel, as consinced, there is safety.
Ir cattle were not suffered to return even to hanyard, of to any part of the cattie barus, cip as invalids were sent to the "hospital": ie. matil late the next fall-i. e. the fall of 1. In the meantime the hay and straw had jeen remored, the stable; stalls, cribs, and thomaglily scrubbed wit? ashes and water. isated and whitewashed with quick lime. İ Thad no case since, and an persuaded t ith have avoided most of those that belore. had reasonably admitted the evideners of smanes in the second and thied cases.

> E. ?. Pwenthe.


## Erigation of Water Readiows.

io following atticle, in description of what inw as " Bickfords Sysem of Irratation:" pied from the "Bath and West of Engtand enharal Jousual." It will he read with cst by those in this comaty whon have hams bie of being treated in this way:-
a mmencing the constration of a water ow a catraise gutter is cut alone the line Chidest fround. This main water is for amose of tadiars the water from the bevol, he: suarce from which it may he derived, ier to feed the smaller or irrisating gutters ant it arts lae part of a main atery. This gutter need not be laid ont by the level. ad inclimation should be given to it, atIf to the nature of the ground, and the ify of water which can be made available. $r$ it can be had, a fall of 2 inches ia a chain renimt, but if need be a less rapid fall will
answer the purpuse. The width of the main carniage sutter shoubd he about lis inches, and the de, th litum inches to 1 foot. The dimensions matst, hoveref, in some measure be regrlated by the quantity of water to be conseyed alony it; the ruter diminishes in size as it approacho its timanation, as that it runs out to nothing.
Imasediatuly lecow the camier should be cat a set of smath, wiperins ruters. The ofice of these tapering enters is icay important, as they secare the erenapmorionment of the water ove: difierent sections of the field, adjusting the supph ia the way of a oclf:uime talie. Sonetimes the end of i carimer itself performs this ulfice, and is tapered accordingly.

The Simall Irrigators.-A series of smalle: guthers are cat below the main carvier (at different lesels.) in the same gencral direction, in order to catch th. water as it overfows from the carriase gutter through the small taper gutters. The distance between these gutters greatly dejeads on the shape of the ground ; where it is undalating ambuneren, mure are required. These smant gutters ought to be laid out quite luel. I say yuite level, subject, however, to a qualification to be name lereafter. The water as it flows over the lame is collected in these small gutters, tend as they are practically level, thes again distribute the water evenly over the sulface, when they become filled; were it nut for these small groters, the water would ret intu little stieams and flow down along the hollows, instead of the sownd heing alh equally covers, especially where the land has never been pluaghed or levelied. I meationed that the small gatters oasht to be level-this, however, in practice. mast not be carried ont with mathematical co:accuess; in crossing any hollows, the ghtter should be kent rather higher, say an inch on 3:3 feet rua, or the water will gather in the hollow and overflow too fast at ihese points. On masiuts along projecting arromd, on the other hand, the same diference shond be made in the contrary direction, viz: an inch lower than the strict level, in order that that !ontion of the fromad may receive its due share of the water.

Outlets, Driers, or Drawins Off Gutters.It is of quite as mich importance to get the water of quictily as it is to get it on erenty. To cifect tais, guturs are cut in the direction of the inelimation f the fromad, $i$. $c$. in the exact same line aton, $m$ which the water would ilow, if Inft toitseli t, run: it the: sutter, take any other direction, swervin.s too mach to the risht or the left, they will ent off the witer from some of the land on one side or the ether.

The Drying Gutters abso act as Feeders.The downward rutters also serve the purpose of feeders. Were it nut for these transverse feeding gutters, the land nearest the carriage gutter would always have the first water, and thus receive the greatest benefit, and the lowest portion of the field would come the worst off. In order
to obviate this, the feeders or transverse gutters are cut, from the carriage gutter at the top, across all the level gutters to the lowest. liy placing stops in the pro:er places, the water can be conveyed directly from the carrier to any of the catch gutters, without passing on the intervening land, so that the lowest part of the field can be watered first if thought desirable.

Cleaning out of Gutters.-Gutters cut on the old system require to be cleaned out every year just before the watering season, and this for two reasons. First, because they hecome choked up with rank grass and hinder the free flow of the water in a horizontal dircetion, which flow is essential to the success of the level or nearly level carriage and level feeding gutters. Secondly, because the sitles of the gutiers are trampled down by the live stock all throurh the summer; thereby spoiling the even edge of the gutter, and rendering the distribution of water irregular. In order to put the old gutters into a good state, a man is cmployed to clean them out and trim them up, at an expense of ahout 2s. 6d. per aeve. The man so employed leaves a heap of retase about every 20 praces, and these heaps have to be remuled lefore the meadow is laid up for hay. The gutters consequently become wider every year, till at last the width is so inconvenient that they have to be filled up at great expense and relaid. If the system explained in this paper be adopited, it is recommended that fresh gutters shouk be cut every year: there is no difficulty in doing this, it is only necessary to follow the line indicated by the originai ones, cutting one year alinve and another below the original satter. The expense of cutting the gutters out afresh is very trifling, about 1s. or at most $2 s$. per acre; the sods which come out of the new furrow are placed in the old one by its side and trodden in, and thus all the ground is made goed. The citting of new gutters every year has the advantage of entirely preventing the growth of coarse grasses aud weeds along the gutters. In very porous or peaty soils the water is apt to sink away rapidly in the main carriages; on such land it is advisable to cut the carries:s wider and not so decp. If clay or road seriapings can be procured within an easy distance, I should recommend a thin coating being put along the main carriers. I have known instances of its being done to great advantage.

The Quality of Water.-Before laying out meadows for the purpose of being irrigated thre are several important questions which ought to be taken into consideration. A proper supply of water is of course the first aud most essential point, and even if this can be had, it must not be talien for granted that all waters will have a beneficial effect when used for the purpose of irrigation. It is found that water flowing from the surface of "wet peaty" or "black moory" coils is positively injurious; water also which contairs large quantities of iron is hurtful. But atremoss in which water cress flourishes, and those
containing mossy stones, are for the most: good for irrigation. Water which flows springs, such as are never found to free most invariably well suited for irrigation: fact water from those which are termed " r springs" ir most cases produces the ear grass. I presume this is owing, in a greatsure, to the temperature of the water higher than oidinary water, and thus keet the ground warmer. Drainage and ditch ${ }^{\text {g }}$ should le conveyedinto the meadows if posi Water, especially after beavy rains, in pey Clown to the dains, not unferpuently takesa' with it some of the mamorims substances. tained in the soil; if, then, this water is aller to escape, these manuring matters are waz but when it is used for inrigating any mead below, these valuable ingredients are agais posited, so that what is lost in one feld is ai in the other. In mountainous districts mud the water which forms bors at the foct of ' and the head of salleys, may he turmedio count. If a deep drain can be run up into subsoil, the bog may be tapped, and some e lent water may generally be drawn oft beff has become contaminated by the peat. In: the cases in which urdereround draining fa' yield useful water for irrigation, nay he re: cd as exceptional.

Time for Watering.-It is a goud commence watering the meadows carly in season-not later than the begiming of $\mathrm{N}_{\mathrm{o}}$. ber. From this period up ill February water should, as a generai rule, be kept on. six days and off three days. This, of et will partly depend on circumstances, sucha supply of water, weather, \&c. In frosty w: the water should not be removed from tha. tion of the meadow on which it was at the the frost set in; it should, if possible be gently movine, and as long as it does se shallower it is the better. If the aroun comes covered with a sheet of ice, the may then be turned off. After Febriery meadows require rather more attention, at water shonld be more frequently remored. weather gets warmer. Care should be: not to allow the grass to get a white scum it, for if this is not precented, serious mi is done, the grass, instead of improvins: grow less. In hot weather the water ous be changed every day. The hand selected meadow should cither be naturally dry; oi so by draining. If the latter phan has to sorted to, the drains should be cut deen: wise the water will soak into them too qui and the water must not be laid on the same as that in whick the draining is done. practicable, as is the case on farms whe meadows are situated below the farm pre it is a good plan to bring the water al the farm steading, in order to catch anf. ings from the yards, and thereby to ent: quality of the water used for irrigation.
washings, or lizuid manure, are often,
his improved period of agriculture, allowed to on to waste, whereas they mirht le made to ut money in the farmers' pociets, by produc no early and plentiful crops of grass. The ater in brooks, after heavy rains, is genterally pick and muddy; this is chiefly owing to the ashiugs of the land abore, and as there is enerally a considerable value in the fincly firided particles of minesal matter thus held in uspension, the opportunity should not be lust or jiviag the meadows the benelit of it. The ratcoup of grasis, in water ukedows, is ocuecally ed off, the meadur should then be cartfally phed ver and the water turned on arain. As pe weather becomes warmer, the water, as I are before stated, should be kopt on for shonter criod. The second crop is mown, in most ses, as it is fond dangerous, at least ion reep, to water and fecd again, especially if the cather is wara, wwits to that fatal disease, Hed rot heing apt to be produced atavafor em. The two steat adiantages of water meaws are that they quoduce a lat ofe quantity of rly foul in the spring, which is so valuable for es and lana!, ald that they gicld have chats har, after the Gist crop of gitas has heen fen off, and this, man., withont any namue in. applied. The cust, a most impo.tant estion, according to the system of layino wat ter meadows, is very moderate. The late r. Pusey, whose name is familiar to every riculturist, and who was alwass amono thic sit to impone his estate and confer a hetheit on his tenauts, had a lerge duantity of grass de converted into water meadows; the iost, Hudin e e ery capense, with hatches ..couso the ook, dad not caceed 5 eper acre. In may ces the cost woudd he little mure than half at ch. I think, thereture, loohing at the snach lay and the ereat aduatages to b devived, thandlords and tenants wught to look we!l and them, aud let no opportunity escape fre such a system can be carried into cifiect.

## Cranberry Culture.

The following observation, by Natha brises
he Barasiable Patriot will he found to an-
famy of the inguirics which are made in
ard to cranberry cultuc.
The Choice of Iacation.-First, crambe:ties grow on high moist land, and somatiats hace well, but their peoper phace is low and ngs, ve wet land. The best phate, howe.es; peat log and swan; musk.
Preparation of the Ground.-First make sulace of your around as even as pussible, nearly level, with a slight inclination toIs a drain, if you have one, in order that it be easily flowed, and no ponds remain after ing of the water. This may be done with material. There should then be put on this 1 surface, about four inches in thickness of
fswamp muck or peat, which should be again covered with abuut thee inches depth of loose sand, fiee from giass or its fibres, and also from clay or stones. It is not important what the culur or quality of the sand, if it he not adhesive, and is fiee frum roots and grass. Clay is not good.

Time of Planting.-From the first of April to the middle of June, on wet ground, continuing through the summer to phant, if convenient, and it is wished. In dry land those planted in summer sometimes fail on aceount of drought and heat. Thuse set late luse a year's growth, and may as woll be set in sping if the land be not too uet.
Manner of Planting.-The furm of plant ing which has resuited in the most rapid advancement of orowth and production, is to scatter whole vintes upon a mud or peat surface; then press them into the mud with your foot, atd scatter over them light sand, about one inch in depth. Patches plantud in this manner seem to be a year ahead of those phanted in the ordinamy way. The general phan, honever, is to set them in hills at eighteen iuches apart. Take a pointed stick, say four inches in thickness, thruugh which at eight inches from the point iusert a guage rod cighteen inches lons, which serves to soiem the distance from one hill to another. With this pointed stick puncture the gr ound ia uniform ruws, insert into these holes i small handful of vines, and press the mud around atd amour them, spreading then about as mach as need be.
Quality of Trincs.-Vines should be procured from meadows which have borne well, and of good fruit. as the lest way of knowing goved beeres. The:e aie several species, such as exy-shapen species; bell-shaped, and cherryshaped. The former are most approved, and are said to be four or five weeks carlie:.

Cultivation.-The cranberry needs litile cultivation. Having your land properly prepared as before stated, and properly ditclied, and clear of yoots and grass, it may reguire the first year a litt!e hocing amone the vines. After the first year, it woald be likely to do as much injuy :as benefit, by disturbing the young fibres, which are now thickly set. It is better after thas, to pluck the weeds by hand, pre twem in at basket, and carry them off. After the second rear, let them alone. The thind you will get a fair crop, the fouth will probably be the best. It is not yet aseertaned huw many years they mas du well. Fai bearing is conisidered one bushel u a red; there have been instances of one batrel to the rud. liushes, and bunches of weeds and grass may at any tim: be cut out.

Fluating.-Flowing is nut absolutely necessary. Mure than halif the meadows which I saw were not flowable. If flowable, the water may remain on all winter, and let off in March. It should be let on about the 20th to 25th of May, and again the lst of June, for not exceeding thirty-six hours; after this it is not needfal.

Blesisoms are injured Dy the water remaining on too long, the whiget of which is to destros the insects. After the second flowing thene is little to fear from them. The grade of the land and the diteling should be so arranged as to casily flood or clear the surface and the sides of your drains shoud slope to an angle of forty-five degrees or more. in order to their permanence and ntility: the number, arrangement and size beinro directed by good judgment.

## The Kidge.

Mr. Mex. Wiuram, of Cayuga, writes a letter in a late mamber of the Cayuga. Sentinel, on the sulject of the Whent Fly; from which we make the following extract:

The excelient Prize Essay of Professor Hind, pablished by the anthotity of the Euzeau of Agriculture, states that the Fiy "appears during the latter pant of June and remans until the middle of August." Ir letter to that Boand stated that I first saw it, hat year, on the lGih of June, which was also the eariest period ofserved near the Mamiton finini road, and at St. Catherines, but this year, gwing apmasenty to the absence of frusts, it appeaced on the 3rd and on the Th, was plentiful on the 10 th, and was in myrads alt orer on the loth. Now, then, comes the momentous puestion. Cin any wheat grown in an infected lucality, be so early is to be ont of danger of the Mider by the tha the 10th of June? I reply, I think not. Then, ali our attempts to get hefore this sconare, by means of Kentacky wheat, or eady Mediterrancan, sems in vain. We ontr perpetuate the evil, by afording it means to conthuc, and mtil we cease creticly fenl wheat wowne, assurediy we will qu on as we are guis sowhe in hore; and reaping in sorrow.

It is now or 27 yars inc it was first seen in the famuts Genceec lialoy, and there it still hagers: and how many sal senime dops onf hear of its newasts on the conthen shom of Lake Erie. There whe the ferms wer awept by the bueqes fom the wates. the litt? iny destruyens colid wut buth and he havoses were as bual. bat is :acts berimed from the sweep of the wimh, the elestword all bofore
 fortumate fanaces steck the the freminer? re. muneratioe stap.e. Fall Wherat. herares athes
 ing, be destecs. almost bresray: : hat wecescioy, that stera manator, made them a last desest from the fraitess purnit, ther tumed to other crops. and soon had the wolf, poverty; divien from theit doose.

Is their experime ano les-on io tis". If. from a few isolated woul erwe; cederd hre amithere. see continue to wable on $n$ Fall Wheat, enn we be said to be duing our duty to ourselves and others?

Un the evening of the 12 th, when the sum was
just touchin the tops of the trees, I went : my fields to search for the midge. Cros some barley, your young friend, John Wirs criect, "there they are in thousands," and tit they were in sad ahmodance. I swept snam: the lifes into $m y$ hat, and true enough, the ! low backed phague was certainly there. clomb the fence towards the rege, and fnat on a rentle casteriy current of air, they cam: myriads; but putting ourselves behind a hlai ened stump, we could accurately see the tinued shoal float by, and as far as we ce discern, the whole atmosphere, nigh the grer was alive, and the ears of the rye were cluste: with these creatures. I said, "Let us go hes John, I have seen enough,-and such a si: may I never see again." We went eve:ywhe and cverywhere we found them-on the grt amidst the oats, in the orchard, and, asi: show their numbers, they were also in the hav Nor is this a soltary example; as far as It: heard of in the County, they never were ins abundance as this Spring. In that Goshen Haldimand, the Township of Oneida, I amt they are in :bundance, and I have no doubti if the truth were known, they are everywh:

Well then, let us, Hotspur like, "from: netic, danger, pluck this fower, safety; ": don, ia infected localities, the Fall Wh: Many have done so, and do they stame? ! at afl, the very reverse. This $\mathrm{S}_{\mathrm{j}}$ ming the: more aboudance, less porerty, all over; there has been for many years; and the re is phain, it lays on the surface. In formert: it was all Fall Whent, nothing hut Fall We: wo wher cerea? was ever throutht of: the sequence was, not one farm in ten was reat Fall Wheat fam, hut all ran after the one: and on they waded, when the bad times ca from bad to wonse, landing in the lons ta having nothing to sell, and little io cent. driven to try peas, oats, barley; spring wit and pay some attention in preparing the! for the sprint crop, and the summer fal: belphe wreatly, and having to cacomise: store expenditae, thene is bow a healthe: more mitoran state of thans all war the of Ire, than I crer knew, so the Midge has been withoat is uses. It checked huming farminz. forinade cetradaance, made lif famers. introduced uew erains, and wi:n mately do rood to wall. Dad farming wa Netic, qual faming will be our Flower.

How lons the Midre worls in the gatin, other words. at what time is gran betor d:mero, and after it, is a question mather difi to amswer. I was totd the othe day, by a: telligent farmer in Ratham, that Spring W sowed the lst of May. last year, was bady. whist that sown on the 20 th was complete? topehem. Again I was assured by a mos. servant neighbor, that on Wheat examined Satuday crening, the larra or maggot, just seen, more appeared on Sunday, ar Honday evening the heads were full of:
it on Wheat a week or so later sown, exned one week after, that is, on the next arday, none could be found. So the fatal wd mist from these facts be about two weeks. Firk State that time was thought to be at the 7 th of July. urf, whe intelligent farmers to note down a to weuring to them, in their own loedds, rding insect plasucs, much gooll , wh.d folto atl. We would then be enabled to form arrect julrment, what to dis and what to ia. . As it is, so varied are the eppinions, and few the data to guide us by that we go on whino in the darh, ia complete uncertainty-

## The Nettic.

hee was a time in the history of Briush madry when the number of plants cularated nud for man, and the inferior animals, was edingly small; now, their name is lecrina, every year witnesses an increase in the roll tible regetahles. The nettle is not a :ee: $t$ : hut it is never cultivated; indeed, it is Ily associated in our minds with dismantied ies, ruinel houses, and waste fields: but it reatheless, by no means, a useless member le regetable lingtiom; and nicely dressed les can hardly be distinguished from spinach, which. indeed, we have known them to be tituted on one occasion, withozt detection be person, an epicure, too, by whom they - devoured. If the poor could obtain some maing ingrediert, or unctuous substance which to diess those at present useless ts, thry might be turned to profitable acit: and even-without dressing, they could sed as a substitute for cabbage. in the fae "hacon and greens" Sunday dimer of our mary. These thoughts anent nettles have surgested by the perssal, in the Field, of ollowing short paper on the subject:rowing on waste and ne glected places, flour$z$ aike on breezy commons, and in the dirty ies of the suburbs of towns, the nettle hats ie: heanty nor frasence to recomated it ordinary obscucr. Yet, it is we!l worth tal inspection, on account of the betaty of tucture. Truc, it hes a sting, if haded er! y ; but scize the plant hearily, ami it are jou little discomfort. The aettle is a common, low-hred, vaizar plant: but, theless, in its family and alliances may le dseme of the woblest members of the vesckingdom; such ans the byead-fruit tree, nablemy, the hop, the hemp, the fig, the If bayym, and the deady upas. It has not without its affecticnatic admiress, as the wind aneulute sill testify:-at worthy ilourist (not a native of the south of Euglame) showing his green-house to some ladics, one of them said to him, "What is that in ower pot? It is vers like a nettle." "Inmåa, it is just a nettle; but it grew up
sac bomin! pre puir thing, that I could ma think to pui it." It is not for its botanical beants; or lesjectable conmetions, that we wish to phit in a bu:d oa lebald of the nettle, but for its uses, bhich ate too mech ovenlooked. Athough growing everywhe, it is very partially appiceciated, and the: wolly by the economical. Is an old wifés acmed-and a say good one, ton -it is used in sotury, solu, inambice, humorihase, paralysis, dee Nettle-tea, as a spring drink, we:e it generatly lased, would frifhten the propictons of that mach adertised samsara rila of old Dr. Jacou Townsend. The stalks of the old ucthes ane littic inferior to !hax for making linen cloth, beine used for that purpose in America, Siberia, Germany, and formerty in sume parts of England and Scotiand. The famous Indian Erass-cloth, Chu-INa, is woven from the tibes of a nette. An excellent rennet is made from the nett.e. The expressed juice makes a permanent green dye for wool. The inot, looiled with ahm, yields a rood yellow dye. Settics dried, and used as Fodder, are ceipital for cows, increasing the guantity, and improring the quality of their mith. And one ef the least of it :irtues is, that if tish be packed in it, it preserses the colvir and bloom inmitely better than any other gass ur umbrage, dried or green. And yet, not ior these uses, but more especially for its edible qualities fo: humans, do we wish to say a word in favor of the poor nettle; and, as the time is at hand when geen meat, honwin rery desirable, is not vey plentim, we hope the word may be in seasun. It is as a pothent that ie would adrocate its bee, and the sjong is the best time for gathtane nethes for bat proses. To say that it is recommeaded b: Ludua and Suger is sufficient. It is caid to resembe asina"aras in tavour, but our experence wold assimiaie it with spinach, bethas from the association of idens, having gaten it iressed in a similar mamer. The following is Soyers method:-" Wash the nettles vell, drain, pat them in penty of boiling water, with a little zalt; boil for iwenty nimates, drain, and chop them up, and serve either plam, or put then! in a pan, with a littice salt, pepper, and butter, or a bitile tat and gravy from a roast; or add to a pounch, two teaspoonfuis of flour, a gill of mith, and a teasioontul of sugar, and serve with without poached egre." And now, ye $:$ : in agricoles, if this weed is still tuwarthy your notice, tell the poor to send their children to gather the nettes. They will move a wholesone lood; and, as spmine diet, will be better reithed by the little ones tham the vemal hrimstunc and teeacic."-Irish Agriculural Re. victe.

In Im, land there are 300 silk manufactories, in which ate $2,000,000$ spindies and attendant machinery diven by engiass amounting in the arorerate to 4,000 horse puwer. About 7,000 , 000 lbs . wit raw silk are imported into Great Britain amually. Few persons are aware of the amount of the English silk trade.

## Correspmumenc.

## Harvesting Wheat in Illinois.

Empor Acmeamerist,-Having lately witnessed the operations of harvesting in Illinois, I send you the following note:

The wheat is cut by a reaper, which is driven before the horses, and is called a header, and cuts the straw about six inches below the heads, delivering it upon a platforn, from whence it is taken by elevaters and deposited in a magon, driven under the spout to receive it. When the wagon is full, the machine stops till that wason is replaced by another, when off they go again. The wagon has a large frame upon it extending over the wheels some distance with a board bottom, and a row of stakes around the frame upon which is stretched coarse cotton in order that it may not be too heavy. One man attends this wagon, driving the horses and distributing the heads evenly till the wagon is full, when he drives off to the thrasher, standing convenient in the field, and then feeds it into the machine; when it is thrashed, cleaned, bagyed, and hauled into the granary, thus leaving all the straw and chaff, which are not wanted either for food or manure, upon the field.

The machine for heading the grain is so arranged that it can, by means of a lever, be elevated or depressed at pleasure by the conductor, who stands in the rear on the end of the pole, guiding both machine and horses by a tiller wheel. These machines require only two men to work them, and one in the wagon; they thus save binding, stooking, stacking and almost all the teaming, which is of great importance on large farms where men are searce and wages bigh.
R. I. D.

Dover Court, Aug. 4, 1860.

## Vine Culture.

Emrore Acricurvast.-Having read that valuable and interesting correspondence of Mr. De Courtenay and others, on the cultivation of the grape in Canada for the manufacture of wine, I have thought that a friendly discussion of the subject through the columns of your journai might perhaps prove beneficial to all parties; therefore, with your permission, I will proceed to state my views upon it. In the outset allow me to state, that I fully agree with all the correspondents upon the one principal point, viz.: that the climate of Canada is suited to the production of grapes for the manufacture of wine. But there is one other important point apon which I beg most respectfully to differ from them all, viz., the variety of grape suited 10 our climate. After ten years experimenting with every known variety, both native and foreign, I have come to the conclusion that there is not one of them exactly suited to the wants
of Canada West. That there are one or: native varieties that will resist milder (to a tain extent) upon their fruit, and make wi with the assistance of sugar, we readily ad: and that there are one or two foreign varie. that will occasionally produce ripe and delici fruit, without the application of sulphur $10^{2}$ mildew we also admit ; but in our humble ion, before Canada can become a succes grape and wine growing country, we must ts a grape that can be depended upon, to riper fruit, never to be liable to have its whole e destroyed by mildew, and to make good ui without the assistance of either sugar or x : key. Such a grape we fear is not yet knor still we are not inclined to look upon our $F$ pects in these matters, as at all gloomy. Sce if our fathers, after repeated trials, could duce from the wild crab, such splendid apt as we now can boast of, we with the tallest $t$ on our hill sides and valleys, covered with $g$, vines that bid defiance alike to mildew ande: and who have in our cold graperies that splee old Black Hamburgh, which will as certa hybridize with the other as will any of the $t$ most hearly allied varieties of a species, to m: upon, and a knowledge of these facts, we b no reason to be discourared.
If Mrs. Crehore, and Mrs. Gibbs, withouts attempt at hybridizing, could produce if seed such varieties of grapes as Diana and! bella, what might not be expected by a 5 : matic cutting out the antliers of one variet, some desirable qualities, and dusting the pot of another variety, of some other desired qus: upon the pistil, then sowing the seed of thef thus produced. Have we no Dianas or Isabe amongst our wives or daughters, who with delicate fingers will aid us in this interesting partment? For there is no use denying. without their ass tance in chese days, not really great and grood can be accomplis And would it not be wise for our Horticult: Societies, and for our Provincial Agricult: Associations, to hold out more inducement this direction? Most assuredly, if Canads ever to become great as a fruit growing cout it must be by cultivating seedling varieties,: shall have originated on her own soil.

Cmaries Ampol
Paris: C.W., Aug. 13th, 1860.

Piegro-Preumonia.-Hon. Adam Ferga writes to us as follows, under date of July 1

I think it our duty to avail ourselves of $e$ means in our power to investigate and to c: the progress of the cattle disease. Theres doubt of the malignity of the distemper, $t$ feel strong hopes that it will not find its kt . this quarter. I am just returned from. York State, and from the praiseworthy prompt measures adupted, I entertain si hopes that it will not be found to spread we the Connecticut River. If my hopes shor.
lasious, and it should unhappily break out $\rightarrow$, we must act promptly and decidedly. Dr. nderson, Professor in the University of Edingt, and an amateur Veterinarian, assured that he had found Aconite, if the disease -attended to in an early stage, almost a suc$\because$ I consider the disease to be contagious, '1 trust our farmers will watch their catinxiously, and take any attack in time, 'communicate the earliest appearance of you.

## The Wheat Fly.

a the Editon of the Agricuitubist,ut this time last year we addressed the farmn the subject of the wheat fly; our endeawas so to direct general attention to its s, that by thorough acquaintance with , some means could be devised by which ountry might lee rid of a scourge that at stant period promised to deprive us of our e product, the wheat.
ong other suggestions made, we recomed sowing only the earliest kinds of winter $t$, and that they should be put in not later about the end of August or the first of Sepr. In order to obtain if possible an earlier han the country then possessed, ve introseed the growth of Kentucky, where the st takes place long before our own. The of this experiment have been various, no in some instances a success fully equal anticipations, but in others a falling off ting to a failure. We have now reason ik that where the seed was sown in good the failures hare arisen from a portion ined not having been genuine, it is thereur intention to follow up our researches in trying Southern wheat carefully select$d$ also by sowing from the produce of rn wheat raised in this country. That all ations of ours on the subject shall be condisinterested, we may mention that it is intention to import, or have for sale this is Kentucky seed.
lave on a former occasion called attenthe fact, that it is the late fall wheat early spring wheat, that are eaten by this scason's experience has fully convur statement, for we are sorry to say ny farmers whotried the chances in carly of spring wheat, hare lost their crop Itogether or in part. The fall wheat has or otherwise, exactly as it has been late in coming to maturity.

- Baxter of Wellington Square, in a the Globe, dated July 7th, takes us to having in 1859 recommended the trial ucky wheat, and for writing in June last variety had escaped the fly, because ollowing out our idea he did not sucn answer we have to say, Mr. Baxter $d$ his seed in Buffalo, where it is noto.
rious that large quantities of wheat are sold as Kentucky, which never came from that Stak, and his might not have been genuine.

We do not now remember the date when his purchase was made, but we know it. was not very carly, which circumstance alone would interiere with the faimess of the trial. In the South farmers sow in August, and we may reasomably suppose that the plant, in order to tome early to perfection, and bear as well as our own kinds, would require as much time to prepare itself here, for the attacks of winter, as it is accustomed to get on its native soil.

The report of the fall crop in the State of Nem York may be condensed into saying that "notwithstanding the undounted presence of the fly in its usual numbers, all the early varieties have escaped it, among which are the white and red Kentucky, and the Mediterranean." With us the differcuce is, that all the fall wheat that came in early, from whatever cause or combination of causes, has this year anticipated the insect in its movements, puinting ont more plainly that if we can by any means secure this early ripening, we need fear neither the fly nor (in all probability) the rust.

Individual farmers have suffercd severely from the effects of spring frosts, and from the action of the fly, but the average yield of grain has been very good in Canada West--greater in quantity than has ever been known before, and the quality of the fall wheat, where it has not been housed too soon, will prove very superior.

Your obedient servants,
F. A. Wminex \& Co.

Toronto, August 15.

## Agricultural $\mathfrak{Z n t e l l i g n a c e . ~}$

Sale: of Shorthorxs.-At a sale of Shorthorns lately in England, of the "Waterloo" tribe, being a portion of the herd of Mr. Bolden, of Springfield Ifall, Iancashire, twenty-nine animals fetched $£ 25481$ is. stg., or an average of $\mathcal{L} \hookrightarrow$ a piece, believed to be the highest prices of the scason.

Tine Whent Crop of Michigas.-The Committec appointed by the Michigan State Agricultural Society to award premiums on farms, in their report say:-
"As to the quantity of wheat grown, after numerous calculations based upon data quite as reliable as ordinary statistical tables, we fed warranted in estimating the number of acres the present year, at one-third more than the crop of '59, and the average yield per acre at not less than one-fifth greater than in ' 56 and '57. If these premises be correct, by the aid of the atastatistics of former years, we arrive at the inevitable conclusion, that the wheat crop in Wiscon$\sin$ must equal $1,062,097$ acres, with a yield of
$22.304,037$ bushels! So that, after deducting t til thamanarement and appication oi mas Whe odd hundreds of thonsuds, for loss in har- an well umderstood and properly practis? vertint and for positite exeptional crops in localites combernine wheh we are wanting in definite information. we mat sately reckon the sathered preduct at tuenty-tico millions of bush. rls!-an amome with which we may ferd the.
 phas of seventara millines for exportation: which. at mobab, amieres will vield a reveate of at least turdee millions of dollars!

Dare x Wh:ni-Thsíuccos.-Many of ear fimase ate meth phated with the bayton wheat, and thed it pefeabine, is districts whe


 conaring reports frum tho whe have just har-
 wemen farombe, one we whm-Mr. L. A. Beero, of Lima-inites us as follows:-• Last year I whaned of Eisha Mamen, of Wheatland, at a w bacheis of bayton remeat, wherh I Suwed. amp the tesult is hishly satisfactory. Some of is I sowell ia the same field wile by vide with the Meliterranean, and I fond it is $\mathrm{f}_{\mathrm{in}}$ ite $:$ as carly, and I wink it wilk yield mo third more from the same staw. It is a white what, resembling what the Soules used to he. A head of this was found to contain thisty kemels, while the Mediter: anean has only twenty. There is still another adrantase-the Mediterramean is very ajt to set down, the suan lemy limime. while that of the Darton is stiffand seldom arts down. In short, I think the Daveon is the wheat for the times."-Rural Nez Sorkro.
The Lapormace of Come rixt; Madm:During the hustie of harvest tamers are semrally too carcless about incmasime the mamere heap, alhos: h it is in the fall that a rooll fomed. ation should be laid for the pile. We have secn the grood effect of top-dressing meadows immediately after the bay crop is removed, and we would recommend Gur readers to try the experiment eren on a small portion of their fields. For this purpose muek, saturated with liguil manare, is an excellent opplieation, and the present is a rood time for raising the muck and drawing it uret the locality where it will be required nest sason. We do not approve of using the muel fresh from the swame as it requires to be exposed to the weather for a year and to have the mots and fibres it contans jerfectly decomposed. When the cereal crops are harested farmers should ant about collecting maure in camest, as by so doing thry will increase the fertility of their land and their own prosperity. There are many solids and fluids suffered to go $^{2}$ to waste, which mixit be made extremely useful in promotiny the growth of vavious crops. Every farmer should have a liquid manure tank, as ly this means several hundred dollars might be added to the annual profits of his farm. There can be no great improvement in the agriculture of any country m -

## Detroit Tribunc.

Angataces of Combr-Draming.-1. It: vents drought. 2. It furninhes an incoi =uphy of ammpherie fertilizers. 3. It 1 the lowtry potions of the soi!. f. It las the decomposition of roots and othor m: $\therefore$. It acecerates the disinterration of the: "ral matters in the soil. fi. It canser a: arm distrilution of mutritotes mattos : thane parts we the soil traversed by rons. impores the merhamical texture of the s... It canses the pismons excrementitions : ot lams to be cantiol out of lath of ronts. O. It prevents gasse from rama. 11. It rathes us to deepen the surfices: remoring excess of water. 11. It renders catior in the sping. 12. It mever. throwing out of emin in winter. 13. It:-" us 10 worls somer atier maiti. 14. It hice" the efteets of cold weather longer in te. 1.5. It prevents the formation of acetio other acils, which induce the arowth of: and similar weeds. If. it hastens the dac: veretahberese and the fine commim: the earthy perts of the soil. 17. It preser a wrat mesure, the evaporation of wate. the comsequent abstraction of heat fro soil. 1s. It admits fresh quantitie; oi: from rains, $\mathbb{E r}$., which are alwars more : imbued with the fertilizing wases of the : phere, to be deposited among the alise parts of soil, and siven up to the neessib: pants. 19. It mrevents the formation hard a cutst on the surface of the soil as: tomary on hearg lands. 20. It prevena sreat measure, grass and winter grabs being winter-killed.-Farmers Magazin

## 

 Me Kuisht, writiny from Sault S'e. Mar June 20th, to a friend, says:--"In repls: puestion with regard to the mising of or Sault St. Marie, I have to say that I have sown any winter wheat, bat others whote the last ten years have never failed of crop, exrept in one instance, and that ve to be badly managed, beno put in the September, and the season besides wasr: able. Oats I have waised two seasons. Is which was a grood season, I rot forty ne: acie; in laje, a bad scason, 1 at hushels per acre. Weighed thirty to t: poums yer bushel. and sold for seve: cents per bishel in the winter. Of: 185.9. I had thirts bushe!s per acre-s son tor picas. Sold pant for 5150 and 52. Of wheat, in 1859 , I sowed 21 wheat, from which $I$ got 50 bushels. plump berry, not worth over 90 c , if $\%$ There being no mills here, I do not car perment in wheat on that account. U: ley and peas are saleable at is. for oü for peas; 8s. for barley. I bave not getting that price the two years (1850.e been farming. Lay (pressed) this ycar, is 20 tons at $\$ 20$ per ton; probably the ase price for the next si. years will not es. slli, and will not fall short of that.
ar Brexswict.-Mr. Rode, Serretary of Board of Agriculture of New Branswiek, issuct an address to the liamers of that inee to place them on their guard arainst attle disease. He says:-" Co cases are at reported in any of the british Provinces; e may expect to lear of them, and it is of bighest concern to us that it should not be Wheed mito New Branswick. What the to rot has been to potatocs, muresin or ec-pueumonia is to homed catilc. FortiI the canse of the latter seems to he less ire. althourg its care is as diflicult as that e former malady. It seems to be purely fious, and thas: by proper precantions, it a kept at a distance at all events.
ere would scem to be no safety lut in the and absolute exclision from the 1 rrovince I cattle from suspected comntrics. haw may also be treated as dangerous.
consideration of pirate gain or conreniwill justify the least risk in this matter. ers, Butchers, of all kinds, are hereby med most seviously in regard to the import the from without for this year, and urged olf all cases as soon as known, and report me to the proner authorites.:
a Pmir Cois Tmpronsis.-In a recent sation, E. II. Gilbett, Es. , of Nutha, informed is that he last year raised 5in: - of cats of Kins Philip Corn on four It was planted about the leth of Jume the seve:e frost.) - the ruws heing 3 feet samat each way. The crop was hou? ime, hat caltivated three times. Ma. G. Tt aren ding to the experience of himede ter liviagsoan cuanty caltis ators, this sa* rom his geatly improsed within the re years. The cars are much larger a third) than fomerly, and the crop moluctive, though a few days later ia $\therefore$ Inas the same improvement been ted in other sections where the King sa comprative!y ner varicty?-Rural orker.
sof Shontionas.-Tbrec lazre sales of ras inave taken place in Rentuchy this Mr. Shefie:, Th. Wartield and M. 1. er have each in tum, afforded buyers an mitr. A correspondent of the Ohio Far. y justly observes:
will find that some anmats sold cheap, ito sion, while others brought as high a and it was invariably the fact that Tond animal was offered, the price was ut inferior ones no one wanted. But I it is enough to say that the average at Fer's sale, in a large herd of cows, heicalres, was about $\$ 90$; at B. Warfield's, io; and at R. $\Lambda$. Alexander's, $\$ 150$.

The reasom, I think, why the aserase was so low, in all, was the fact that so many were offered at one tims, which oves supplied the market.

## Pôatoes under Straw.

Hatiay seen, more than twenty yeans aro, reports of extraordinary success in raising potitoes ly coremins them with straw, I was induced (1) ity a mall experiment, which I will relate.

A jlot in my garden about fifty feet square. of well manured elover land, was spaded up and made line and smooth. It was then marked out in shallow drills two feet and a hald apart. and potatoes (of the pink-ege variety) plamed whole two feet apart in the daill, and barely encered with earth. The whole patch was then cove:ed with lirht, dry wheat straw, which had beca very much brokei by its passare throuzha thrashing mechine, and the same spread hirhthy. and ceenly with a pitehfork to the depth of ahout two feet. Several showers eccured soon alter the potatoes were planted. which settled the straw very considerably, and in due time the vines came up through the stran, and soon corered the entire surface with the rankest vegetation.

Nothing more was done to the patch till the vines were lilied by frost in antumn. Not a weed appeared amo:g them. At the usual time of dirging potatoes, the dead vincs were all pulled and removed: then, with a potato fork, the layer of stiaw--is hich was pretty well rotted, and not more than furn o. five inches in thich-nese-was carefelly 1 mosed. To my great surpaise, there lay the putatues on the sufface, literally covering the grombl, and almost as c!ean as if they lat leen washed. They were pic'ied up and measued, but the guantity I do not remember. This much, however, I well recollect: that I nee er raised so good a crop by any wther mude of cadture. They were of very uniform size, and uf gocd qiality.-S. MosherLatonia Springs, $k y$.
 of Semb pea Arna.-In a late communication to the Rural American, Mr. Jolm Jolmson sars:

I once sent out a man io sow clover seed with a sowing machine that would sow five quarts of timothy seed, or any quantity more I might wish. Iset it fur sowind cloner the same as for sownar five quarts of timothy. I gave the man seed enough to kee; him suwing until noon, as I thought; but in two hours he was home for more seed. Being sure that he had either driven the horse far too fast, or sown far too thick, I went to see, and found be had sown full 2.1 quarts to the acre; and as the machine could be set no closer: I stopped it, and had the balance of the field sown by hand, at the rate of not quite ten pounds jer acre. The result was, where the 24 quarts were sown to the acre, the clover never got taller than the natural white clover we some seasons have in such quantities, but which
is generally too short to cut; while that sown at about ten pounds to the acre was as good as I could wish. I have never sown over 12 lbs. of clover seed to the acre, unless done by mistake, and I have alwass had large crops if any one else in the neighborhood had.

Falf a bushel of timothy seed to the acre will give a better quality of has, but with me the quantity is much less than six quapts. I know we read that those who sow bommifully shall reap bountifilly, but this will not bold good in farming. I vibrated between one and three bushels of wheat to the acre for several years, but settled down at 1 ? bushels, believing it to give the greatest yield; althongh with 2 to 24 , the wheat ripens a few days earlier. To prove this a famer has only to sow half an acre with from $2 \frac{1}{4}$ to 3 minhels per acee, and sow the other part of the field 1 ? , and it will befond that the thick sown will be ready to cut a few diays sooner than the thin.

It is stated that spectacles are to her ance tioned for short-sighted soldiers. Three infantry recruits arrived at Madras, fomm to be defective in sight, were thus assisted, and rendered instantly effective. It was observed that if the com-mander-in chief did notioljeet to the ineongruity of a soldier in the rambs warine spectacles, there could be no other oljection to their hing supplied to such men as might require then. A large namber of oficens assist their sight in this way, and it is a well known fact that many sportsmen wear glasses. some of whom are firstrate shots, and who could not see to shoot without them. Gove:mment have accordingly authorized the supply of suitable glasses to the men referred to, as an experimental monare to be reported upon hervafter.

Memterranens Whent.-The Michigan Farmer says:-Mr. J. D. 'erkes informed us that in examining the heads on a fietd of Mediterrancan wheat, the punctures of the insect were very plaimly perceptible. The husk, however, of this variety of the wheat plant, secmed to have beea so lard that the ovipositor of the midge conld not penetrate it, no that this variety has not been hart. This ubservation oif Mi. Yerkes confirms the opinion heretofore expessed, that the husk or patea was of sofirm a texture that it was a protection to the grain from the deposit of the egy of the midre.

Buccmmat Stana.-J. A. Hubbard, writinor to the $N, E$. Farmer from a lucality in Maine, where this grain is extensively grown, says that buckwheat strav "is injurious to young pigs, and if they lay in it, it will se: them crazs, and they will limally die. It is hurtful to hoors and joung stock to run through it when green, making their head and ears sore and itch very much."

Deep Thange.-In 1852 at article went the sounds of the papers, statiug that Robert Buist, the well-known accomplished gardener of Philadelphia, had asserted,-—"That with proper cul-
tivation, ten acres would yield as much a tilled in the old way; that nothing less th: tons of hay, thirty-five bushels of wheat. bushels of corn, and from four to six E bushols of carrots, parsnips and mangels per acre, should satisfy us." - He said, many years since I was favorably in; with the benefits of sub-soil plowing, past season put a climax on all my for perjence; lind that was sub-soiled wa moist; the crops of a better color and m: uriant, so much so, that I have detent double plow ten or more acres of my ha: year."

## 的orticultural.

## Garden Memoranda.

The practical hints contained in our: also be applicable during the remaning the month, in regard to heepint dome hocing and stirring the fround, cant celer., tying upplants, Sc. The sowing being over; or nearly so, there is in : much to do at present except to give su: attention to crops and plants as is or? recuired, the details of which we have yiven.

The Fhomer Gamex--Green Mon: will need daily care at this season. L be wed watered every evening in dry; Geraniums that have done flowering sho be promed, in order that the size and aff mar he improved. As soon as the: heat of the summer is past, which is by the latier end of this monti, or earf next, preparation must be made for sef: with fresh compost, and re-potting sui as are intended to be cultivated thr: winter in a green-house, light room, e: frames.
Those who may hase a number of: varions sized pots, should provide a. pots a size larger than the largest in * larwest phants being shifted into the: leaves the next sized pots for the see phants, and by purstiang this plan of intil the whole are done, the smallest be left for such plants as have been pr in the course of the summer.

The slifting of plants requires cor attention and judgment, as some plat: in too large pots, will sustain consid, jury: therefore, in such cases, where ${ }^{\text {t }}$ roots have not spread around the pot more is necessary than to rub off a lit outside mould, and then to substitute! post for the roots to run in.

Such plants as may have become and whose roots are matted around the
any cases, bear reducing. If the matted is are carefully pared oft, and the plants ted into good fresh ompost, they will soon root, and grow freely; but it will be necesto prune off all surplus branches of the ts previous to re-potting them, and to shade for a week or ten days.
ieces of tile, or broken pots, should be laid the aperture at the bottom of the pots, to le the surplus moisture to drain off, or the s will sustain injury.
re flower beds will need attention this month. er bahlias and other choice plants in dry her; cut down all decayed flower stalls, as as the seed is rathered, :atd pall up annuals rij cease to fluwer.
u.-. All the commoner kinds of green e phants will grow well in a soil composed y parts loam, or what is commonly called an soil " from an old common. mixed with part well rofted manure, and one part of :and, the whole to be thoroughly mixed neorporated tozether, and sitted through a nch mesh riddle before using.
bunderkizs.-The fullowinef weful hints trawherry culture we take from shenclis deners' Text l3ook " :
four things appear to be cessential to suea the cultivation of the strawberry, viz.: a seiection of varieties, -a fivorable situa--cayeful culture, -and a renewal of the nee in every thee or four years. The apart from the formation of the bed, is fifing, and is, indeed, often overestimated: the necessary amual outlay, is of small It in a garden of common dimensions. A ate crop yields a rich reward for the exincurred. When we see our own vines 'y covered with fruit, tempting to the ere, ensant to the taste, we camnot but inquire hapens, that a farmer, or a gardener, person in the country laving a rod of ground, can be without a plantation of erries.
situation of the bed ought always to be way from close fences, trees and build What the plants may not suffer from the ilight and air. To have a succession of me bed may lie towards the south, and a have an inclination to the north. Where is not naturally of a suitable character, dhe brought into that condition before uts are set out. A good loam, light than heavy, deep, rich, and somerwat sundoubtedly to be preferred. It needs iable so as to be easily worked, and yet ight as to suffer from drought. It would at a slight degree of moisture is indis$e$ to the full perfection of the fruit. ir, the soil should be both deep and rish, roots may have plenty of room in which od themselves, together with a good $\mathfrak{i}$ food suited to their wants. To pre-- ground for a plantation in the best
manner, we would recommend trenching and. manuring it several months previously, taking care that the manure shall be well incorporated. Instead of using common stable dung alone, we should rather apply it in comnection with leaves, decayed wood, ashes, plaster, salt, or bone-dust. It sometimes happens that too larer a supply of dung. causes a rank growth of vines, withont a corresponding return of berries.

Atter the ground has been jroperly dug, -all the humps licing pulverized, and the surface raked smooth,-rows are to he struck out at distaices of two, or two and a half, feet from each other. In our own garden, we should be willing to alluw even more room, leing under the inpression that there is such a thing as crowding the $f^{1 / 2 m t s, ~ a n d ~ t h e r e b y ~ i n j u r i n g ~ t h e i r ~ p r o d u c t i v e ~}$ powers. The months of April and May, or August and septomber, ave the proper seasons of the year for making new phantations. The first season is undoubtedly the best, becanse the newly-tramplanted vincs then rec, uire le:s attention than they would in the heat of summer, and the first fair crop will be a twelvemonth earlice.

The best phants are the young, healthr-looking rumers from old stocks. They are to beset out at distances of twelve or cighteen inches in the rows. Ahole is made by means of a small dill. ble, and before the root is inserted, it should be dipped in mul, a semifftid mass of dong and water, or even simple water, in order that the freshly-stined earth may adhere to the fibres.

Every root ought to be sot firmb, and when the operation is not followed by a shower, the gromd ought to le well watered. If the season be autumn, the new heds reguire not a little attention, and the liberal application of water will be frequently necessary; until the roots become established. Whenever practicable, transplanting ought to le performed in dull, damp weather.
it will not be long before unners show themselves, and instead of being allowed to roan over the bed at wili, they must be trained alonge the rows so as to form parallel lines of plants, with good, wide paths between them. This sys: tem of culture is preferable to every cther for many reasons, amd principally on account of its being more connentent of acecess for weeding and gathering the finit. Lisht and air are frecly admitted to the hases, while the roots have a large foragins sround ', weath the unoccupied paths. The hue must be often used, as well to keep the surface light and porous, ats to eradicate the young weeds before they have taken possession. A full grown weed in a strawberry bed, speaks but little in praise of the owner's industry; or skill in gardening. In sevece hot weather, the plants ought to be examined every day, to ascertain whether they be suffering from the want of moisture. This is particularly necessary where the situation is dry and in a warm exposure. But, in most cases, frequent stirring of the soil will attract sufficient moisture from the atmosplere. Mulching, or covering the surface with straw or leaves, is to le recommended, as
ch. cking ceapomation, and preventins the parchin. eflects of droum.
in the besiming of winter, a covering of leates, sway or any light liter should be wiven. the perent ingury fion froms. When the lamis not apuite rich encugh, this is a zord time in dir a bitule compest into the jadis, to keep the ronts wam through the winte, ade cares them to start thithity in the spring.
Is som as the weather lecomes sottled in March or April. the covering is to he remowed, and the from oushi to be frepuenty stired, until the flowers open. At this time, clean straw, seaweed, or comase has. can her spead around the pants, for the purpese of protecting the berries from sand; this also is weful in kecping the soil moist, and, when de cayed, it forms an excellent manace. Ifter the borsoms fah. the growing lerries unght to lo orcasionally. watered. in case the season prove dry. Thronghat the samer and athom, the nomers ase to bec contincel to the rows fiom whicla they stan. unless new plats are wanted, when they may be permitted to rout flemecles in the paths. No room shond be allowed a weed or a blade of grass. The same cunse of hamacement is in be pussued ammaligt thereafter.

A strawisery led camot be expecteritosemain in perfection lunger than fur yeats, and to ensure a regular stipply of fuit, it is advisable to make a new phatation in every second year. There is however, a plan of mowing the hed at the end of each seasm, which ;- cimphe, and answers a good purpose. The, we are about three feet apart. that the pathe mon lor as wide as the spaces occupied by the phants. After the crop has been gathered, the rumos arr allosed to strike themselves into the pahs., which have beea previonsly emiched ly mavere when mot sufficiently ferte. With a little care they will cover the gre nd wey regulanty. In the latter part of summer. Whe odd jlants are in lie snaded mander, and thre speces which ther ocempind are now to be wedi as paths. At ihe clese of the next stasem, the poces is in be repeated, and so hencefonth matil the land has become tired of the berry, when the plantation may be removed to another part of the garden. It will be observed that the strips of land are every ober season at rest, while their principal production, the old rines. abe due under for the benefit of the roots::
J. F.

## Fruit Growers Society of Western New York-Interesting Discussion.

The twe meering of this Socicty was hedr in Butalo, on the 2 ihl and 2 sth uht, and much valuable information on the best varietios of fruit, and the most approicd methods of cuitivation, was elicited.

In the discussion on the cultivation of the strawberry, it was asked, "which are the best six varicties for the market, and the best six for
family use, and which the best methode: vation in cach case?"
E. Icrendeen, of Macedon, said he et: commend uly one varicty for market, $x$ was Wilson's Alhany. It will produce fors as mach as most other sonts, and twice :a as any obler. It was mather acid, but if thavo-and of which the taste never tir not only produces a gool crop, hat wint latre herries; those of the last pieking ahmost as large as the first. Cultivate: first, setting the phasts eighteen inches t: the rows. and the rows fuar fect asumder. with straw or cut grass.

P'rofessor Coppock, of Buffialo, coc: arrece with Mr. II. He did nut find the ${ }^{\text {r }}$ more proific than some others, and the :ort fit to eat, being altogether tou acid. ladiessay it is not good for preserving. Tr: Victoria is a good bearer. Triomphe de not productive. Scotiss seedling is $\because$ : Wilson in productiveness, and can be: well. Genesec is a geod learer, but rat for market. Would necommend for 1 Scott's Secdling. Genesce and Lungwont lific.
Mr. Moody, of Lochport. said we new lier berries than the Wisun. Jemar ! canly, larse, productive and fare fiut. New Pine is the finest faverd of all. $p$. is a very good stawherre. Triomphe de bears well when grown in hilis, but mast allowed to zun into a mass. Scont's Seri considered the manest herey in cultit Recommended as the bes fiv, Jempy Triomphe de (iand, Hudus, Trollope's ria, Momroes Scarlet, and Wison's Able
Professor Coppock said that in penas: strawberves he plowed and suisoviled hi and idaced it in as good condition as for of corn or wheat. He set his phants: about circhten incles apat. He mulch tan-hark, buckwheat straw, ©e., but nee saw-dust. Once in about five years be up the beds and made others. The eri tary matter thown of hy the uld phants it necessary to form new beds.
F. Glen, of Rochester,' 'I there was :iety which had not bee 1 :uentioncd, " thought would produce me. 'rerries ins than any other: this wa, the Crimso: From a bed containing sisteen square: picked, last season, 1, 100 quarts, and thi: 1,000. Wilson's Albany the seconds. a!most worthless, but the first it was 5 . ductive. He considered Triomphe de G best of all. Large Early Scarlet was a sort, and in three ycars would yield mon than the Wilson.
James Vich, of Rochester, coincided Glen as to the productiveness of the Cone. A few years since this was variety grown for the New York ma several of the growers in Jersey bad him that it was the only variety from $r$

1 make mones. He called attention to the thage of growing strawberrics in hills, a wien kept shorn of its rumers becomes large by side shoots from the crown, thrown numerons fruit stalks.
aries Downing of Newburgh, being asked press his opinion on the question, said he led Wilson's Albany as the most producariety, but had a great dislike to its flavor vald not rrow it. Jemuy lind is a fine smi. Triomphe de Gand was his favorite. ypes: Victoria was of a food quality hut zedacture: Hooker dees nut do well. is Sediiner is a fair bearer but of poor

He was cultivating a new kind from ia calied Ladies' Pine, in tiavor like Burrs Pine and moderately productise.
Bealle of St. Catherincs. C. W., hnew If aluct cultisating for marhct, and culd five his experience in cultivating for family His pretereses were the larre Lady t and Heves's seedling which does wall ves a fer lace berries on each truss, the cing of moderate size. Thinks Burr's ine is the best straviberry and tulerably tise. The rival of it in flavor is Triomphe ad. Hooker bears larye berrics, and fine

Some say Hooker is tender. In Canada awherries are tender, but when cuvered aves are perfectly safe.

## cherries.

are the best s:x varieties of cherry for ily use, and also for market purposes? Downisg was called upon for his opinion, he remarked that Coc's Transparent was ellent Cherry for family use. Belle de was better, but a poor bearer. May ras one of the best for the market. He also recommend Great Bigarrean and d's Mary, and would speal well of Gor. but it is so liable to rot. Early Ricis a very useful cherry. Early Prolific is carly cherry, and agreat beare:. Ripers dle d'Orleans.
.Corpock recommended for marke Hlack an, Xellow Spanish, Elton, May Duke, transparent, and Black Eagle.

- Bisseir, of Rochester, thought well of Ils Purple Guigue, Coe's Transpatent, He de Choiss.
-00ny had only one Eariy Purple Gui.
$\therefore$ Had kept an account of the fruitsold the last three years, and it amounted to the birds eat all of the Baumar's May, not trouble Early Purple much. Black $n$ does first rate, but Coe's Transparent ch better quality. Belle de Choisy is $t$ of the Cherries. His children never nything else when it was ripe. Knight's lack is a good sort.
Hos wished to call attention to an old glected variety, the American Black It was always fair and perfect-never and was selected by visitors, and pur-
chased, in preference to any other Black Cherry he cultivated. It lears remarkably well every season. Had a tiee 10 years old now giviny large cros.s. An initrior sont had hew sold h. der this name.

Mr. Fhost, of hochester, semarned that Coe's Tramsianent, at the (ienesse Talley Horticaitural Seciety, took the fise phemium for tl.c best quatt. Mi. F. Alonsht hat leeile de Choisy was ohe of cur hest desert cheries, and when the tre obtains afe it beas well: lat as in cadiatin, II: liunt splok :cos stomgly in faver of trees on the Mahall, stoch. Duarde] in this way they are tar hardier than as standards, and are paticularly desirathe in the vicis. situdes of of climate at the liest. The tree is more bushy and in form mach peferabe, whio: the fruit coll be much casie: rathered, and is at tualy mach lar ser and finer fhan on standards. Besides this the trees lear frmit ealier, and for small satdens the Duhe and Morcilo sarictis. are parifularly desiable on Mataleb) stocin.
Mr. Tuns:sind wom metion we arisit not generally linown, lut much estemed in ih. neightwourhuod of Lecesport-the Townstat Cherrs, a seedling raised ly the speaker. It is very eally-had picked it the ith of June. . Ilways produces a crop. Liked the Black Tart.. rian, Elton, May Dise, Brochi.mit lizarreai, Downers Late. Pupple Guifec was always destroyed by birde, and Delle de Choisy never produces a crop.

Mr. Gres recommended Pelle de Orleans, Gor. Wood, Cue's Transparent, May Duke, Early Richmond, Downer's Late. To this six he would add one or two wthers; to fill up the season.

Mr. Dowsing thought well of Vail's Auguat Duke, one of the most promising of the new Cherries Something like May Duke, but several weeks carlie:. A seechline of Mir. Yail of Trov.

Mr. Beadle lived in a cold country, (Camada) where the Heart and Bigarreau Chemies did not succeed, but where the Dukes and Morellos flourished very well. Could grow May Duke.
E. Richmond and Reine Hortense, and a few others. Would like a list of Dukes and Morellos that it is best to plant.

Mr. Downing yecomnended, in addition io those mentioned br Mr. 13., Late Duke, Royal Dike, Plumstone Morello, and Vail's August Duke.

Mr. Monf recommended as the best six, Fanls Parple, Gor. Wood, Townsents Seedling, Black Tartarian, Ruckpuit Digareau, Old American Black Heart.
Mr. Towasead said chemies shoud be grom on land of only moderate feitility, and it is not best to cultivate too highly. Trees grownon Mahaleb stocks are hardier than on Mazzard, and much less liable to be injured in winter. They commence bearing at thee jears old. The size and quality of the fruit was mneh beiter on Mahaleb stock.

Nr. Dowxing; thought the Mahateb onf of the best stocks that cuuld be used.

## RASPBERIRIES.

What are the best waribics for marliet, and which the best for family use,--hardiness and productiveness considered?
Chas. Duwing recommended Brinckles Orampe for family use; for market, the Indson River Antwerp.

Mr. Townsenn considered Brinckle's Orange too teader.

Mr. Dowzise considered it quite hardy, but all Raspberries should be laid down in the winter. This is the practice with all growers for market around New York.

Mr. Viek said he had received leters from the Weat stating that the Orango was the hardirest of all the cultivated Raspberrics.

Mr. Fish said all the varieties he cultiated killed back, except the Black Raspberry, which was the only one he considered worthy of cultivation.

Mr. Glesy wished to add the Fastolf to those secommended by Mr. Downing.

Mr. Downice said it was good, but would not bear carriage, being too soft ahd tender.
Mr. Hoag had a good number of varieties, and they were all killed back, the Orange with the rest, but if it receives the slightest protection from the winds, even ly the trees, it is safe.

The Black Cap was spoken well of by several members and recoumended.

Mr. Frost had grown several of the Everbearing varicties, hut had not given them much atiention perhaps, not as much as they deserved. The Catawissa, he thought, the best. It gare a good crop in the summer, amd again in the fall, continuing until October.

Mr. Dowsme inquired if the bervies were perfeet; with him they we:e very imporfect.

Mr. Frost said some imperfect herries were produced, but it gives a sood erop of perfect fruit. To get a good crop, the old cames must be cut out, and the fruit obtained from the present years shouts.
H. 'J. Jhoon: knew nothing of the everhearing sorts, but he had a neter beang variety.
Mr. (Ans:s thought well of the Doolitle Black Raspberry. Cultivated between two and three acres. They will sell well and ship any distance. They are larger, and not quite so serdy as the common Black Cap.

Mr. Peek, of Blommed, grew Black Cap from the woods, and could not tell the frait from Eoolittle's lmproved.

Mr. Downist called attention to Viec.President French-a week later than mont of the Raspherries. A fane large berry ; phant vigorous and productive.

CUIRANTS.
Which are the best varicties, both for market ard family use?
Mr. Moonr thought most of the White Grape

Currant. It was large, and not so acid as: others, and hangs on the bushes well. Hadt last season until the tirst of Octuber. The (! Currant is about the same size, and an eno. bearer.

Mr. Doaniss said there was but very? difference in the fruit hetween White Graps White Dutch. There was considerable difte: in the leaves and habit of the plant. The: a new comani, said to be twiee as large as Dutel. Yersailles is a most desirable ec: the best of the new ones. The berry is :as! as Cherry; and the bunches longer.

Mr. Frost said the Versailles was much m and was very popular around Boston. Tt: ries were large, the bunches long, and the very casily gathered.

## cooserembies.

Mr. Frost was cultivating, in addition to: English sorts, the American Seedling andil: ton's Seedling. The American is the mo right in grow th, and is considered the besta Cincinnati and at some other places.

Mr. Downisg said the American Seedlit; known by differeut names in different locs Mr. D. said, in answer to an inquiry, thatI ing's Seedling was an improvement on I! ton's Seedling, a very fair herry, but like i things had been over praised.

Mr. Hoxc thought prety well of the Mo Seedling. It is very productive, and ar good vigorous growth, and never mildews.

Some discussion followed as to the best: of preventing mildew of the laropean ra: but nothing new was elicited.

## re.ans.

What variety or varietics of duarf fi: it best to plant in an orchard of acres; at what distance should the be planted, and what is the best in culture?
Mr. Fisa would phant Inchesse dime It is a yood grower, hears early chows being a large, showy fruit, always comm high price in the market, but would ne onc rariety exclusively. Sometimes © fails, and in such a case it is not best to total failure. No farmer likes to growe exclusively, on this accomm. Louise lix Jersey does excerdingly well, and with Virgalien dil not crack. Would set af: numbers of Dichesse d'Anrouleme, Vis Louise Bonne de Jersey, with some l. douisle worked.
Mr. Towsisens foumd that trees we subject to the blight just as they were into bearing, and high culture he tho. vourable to the disease. He had suffe severely-lost hundreds of trees. Noti when a vigorous growth was made $G$ trees were subject to attacks from bl next. Had cultivated between the ro proposed to let them go in turf for Thought Louise Bonue de Jersey the
abe money of. After this, Virgalien, el, Beurre Superfin, Bartlett, (double ed, ) Tyson and Rostiezer. Wou'd double - Bartlett on White Doyenne.
S. Manime, of Buffalo, said they could not a good Virgalieu in that section, neither standard nor a dwarf. For early pears dplant Rostiezer and Tyson. Liked Louise a de Jersey, and would piek off fruit so it be not allowed to bear until five years ed. Duchesse diAngouleme should be d in the same way. There is not a pear ard west of Boston cultivated too highly.
Moonr spoke highly of the Lawrence as ter fear. It ripened withont any trouble, like apples in the cellar, and was about as as the Virgalien.
: Towserni remarked that while he had in of the blight which had really troubled he did not wish to carry the idea that he 'iscouratred, for with all his losses his balsheet exhibited a balance on the right side. btained a profit of from $\$ 300$ to $\$ 500$ per o land on which he cultivated dwarf pears. siness was more profitable than dwart pear e.
e President exhibited the measurement of ear trees cight years planted, one grown in since set out, the other having received or$:$ culture, the trunk of the former being nches and three-eighths in circtimference, e latter two feet nine inches.
er some remarks on grape growing, and the ef a resolation of sympathy with the ent of the Society in his affiction, the Sodijouned to meet in Rochester in Septemxit at the call of the Council.

## Determany.

then in Thentment of Honses.-A cordent of the Country Gentleman thus al0 an error frequenty committed in driving : Among the mistakes in the driving and I management of horses which have come our observation, ome has often surprised accome of its inconsistency with what n us very phain :und obvions principles. fer to driving quick-as quick :as at any ime daring a journey-immediately upon s: when the horse or horses ate otten as terling and watering can make. Buen a hone has been ted and watered an hour before statiag upon:a journey of drive ral miles, it is propee 10 drive stowly for tmile or tivo; but wen the fieding :und whate been more wemt, the proprey ar alone at a jug or casy pace is stift ryen. Colie, fomider, brokem wimd, have them, resuled from too raphi doving 1 horse was full. 1 friemd of oras: a an, who had oceasion sometimes to viois dictate of good matargement in his oremb some rase of great argeney, onee,
informed us.thet when be drove at a rapid rate inmediately iner feeding, his horse would scour almost invariably, and seem to suffer considerably.

Samme Horses.-The best height for horses intended as hacks of the first class, is about fifteen hands. Tall horses are not so good for hacks as those of lower stature, as they do not move with so mach ease and lightness, wearing their legs more, causing more fatigue to their riders. The majority of tall horses are now-adays tall only because they have long legs, which are very objectionable, as they never wear well, and are mostly allied with a very shallow body. These horses may do well enough when a showy appearance is the ouly object in view.
-London Reviev.
Diambhea in Lambs.-Diarrhcea or scouringe in young lambs often arises from congulation of milk in the stomach, and is then called the white skit; the treatment for which consists in miving an alkali, such as magnesia, twice a day in gruel, followed by three or four draughts of Epson salts and ginger. If it is from simple relaxation of bowels produced by fresh grass, a dose of the following cordial will be useful:Prepared chalk loz.; powdered ginger 2. drachms : powdered opium $\frac{1}{2}$ drachm; peppermint water $\frac{1}{2}$ pint. Dose-one or two tablespoontuls twice a day. Soft American linseedcake may be given as food.-American paper.

## 四umestic.

New Remedy fon Nebralgia.-The Journal de Chemic Medicale contains an account. of the discovery of an new and powerful sedativein neuralgia, just discovered by Dr. Field. Thesubstance used is nitrate of oxyd and glyciler and is obtained by treating glycerine at a low temperature with sulphuric or nitrie acid. One drop mixed with 99 drops of spirits of wine constitutes the first dilution. A case of neuralgia in an o!d lady, which had resisted every known remedy, was completely cured by this new agent.

## Recipes.

## From the American Agricullurist.

To Serthe: Coffee:-J. Armstrone, Columbia Comty, Wis., recommends the followin; method: lhown the coffee in the usual manner. and when nearly cool, break an erger upon it and stiv it woll, to hate each kerncl conted. The collee should not he warm enourh to cook the cery. L'se one esp to a pound of conce; Iet it dyy well hefore grinding. When boiled for use it will settie without further troubie.

Bavan (iake--To one rup of light bread sponge, fild one eary; one cup of flour, hall a cup of butter, half a teasponful of saleratus, spire to your taste: stir well together, and mat. immediately in the oven; biles as for bread.

Pons Arpus Ple, contributed by " $I_{2}$ " Line pask, 'Fas he paid his passare ?' and its a devp phate with pie crust, pare andslice apples roon, in to nearly fill it, sweeten and spice to the tete. Cht shics of pork very thin: lay them wer the apple, and cover with the top crust. Dake two hours. [Rather greasy to digest well.]
 hates the following there:
Cumes Sostas cake--One cup, white sugar, two tahlespomstal butter, one cup sweet milk, 1 teasponafu! cemm tartar. I taspoonful soda. A hitule less than a piat of thour. l ery and me mer to taste.
 whe eno swet minh, half tasmonful suda, imtb:e co curaway for spice : mix with flome uatil quite stifl. rell thia sad bake quick. These I think suremor to those made with coss. They iatprove with age it kept in a covered stone jat.
A Goon Pims: (Gnombana-()ne cofiec (ia, thick cream. ne cup molasses, one teasionontul suda, singer to tate. a sponfal of sah. Stir quite thick with tow, mand bake in chare tins.
To hemp Ifms in Scumas-Contributed to the Agriculturist. Cut it in slices amd trim off ine rind and outide : fry it about hate as much as you would for the table. Pack it tighty in mas: pour over it the fat that fries ont, and oumgh lard to come it : ciose the jat fieht. set in a cont phace and it will keep fresh all stanmer.

Banen Inrma Pronag-Comumbited in the Aspriculturist by Mrs. L. Bright. Isabe: Co. Sieh. Seald wea mablespoonfals of Tudian meal in three pints of sweet milk: :ed an ounce of huter, ami sumat on molasses to suceten to the iaste. liake wo ur have hows.

## fthisallamenes.

Srem-Bosur Rucong.-Sir Charles Lye!!, when in the Finited states, recrived the followiti alvier from a friead:-"When you are matar with an comosithoa seand hat. or chasins hery and the other nassenress are chrenting the captain. who is sitting on the safetr-valoe to keep it down with his wioht, go as far as you sai from the en, yime, and hin no time, "eperathy if you hear the eapain exclam, "Fire up. boys; fint on the resin!" Should a servant call out; Those rentlemen who have not paid their pas--aye will please to go to the ladies' cabin! ohey the summons without a moment's delar, for then an explosion may be apprehended. - Whe to the ladies cabin?" said I. - Because it is the safe end of the boat, and they are getthes anxious for the personal security of those who laye not yet paide their dollars, being, of comse indiferent about the rest. Therefore never pay in advance; for should yon fall overhoard during a race, and the watch cries out to the captain, 'it passenger overboard,' he will
out, 'Go ahead!' '

Numy Ans.-Why should man be so teriz at the admission of might air into any $d$ apartments? It is Natues everflowing. rent, and never caries the destroying amer ;it. See how somdly the delicate litier amd tender robin sleep mader its full and is diate inlluener, and how fresh, and vigo. and ioyous they rise amid the survoudhy tropis of the morning. Athough exposed night long to the air of hearen, their hazs never vil of order, and this we know lis: daily repetition of their song.-Waterton.
imesember.- The natural ano only safer of engoying ammements is in common. It one sex enjoy their ammements alone the sure to rim into excess. The division of human family into man, woman, and chite ther, mother, brother, nat sisier, is the conservative principle of society; they at react apon each other like the differeatse of the earth. Each age and cach sex b pecuinar chatacteristics, that sere to m: and check certaim misehiewnes tendencisi other sex, and in ohers of different ases. one sex to attempt to amuse themselves a; ably and mocently alone, is like trying to: music on a one-stringed instrument.

## Prowerbs womph Presernast-Mastr

 ple drink the wine of hife srakding bot. If. the only master who takes his servants w: a character. A sour-ficed wite fills the as Content's the mother of good digestion. II pide and porerty mary together; theireh are wam and crime. Where hard work ten. idjeness kills a handred men. Folly pride walk side by side. IIe that bo: binds himself with a neighbow's rope. Hee too yood for grood adrice, is too good! teighomars compang. Friends and photo: mecer fatter. Wisclom's alwass at he these whu call. The firmest friends a: fewest farmars.Goon Amact:-A young Irishman (phas his friends as student at a vetrinary co. being in company with some of his colles was asked, "If a broken-winded horse h:ought to him for core, what he would adr Aher conside:ing for a moment, "By the ers," sand he, "I should advise the owner: as soon as possible."

T'en parts of tin combined with one he of copper, form broaze, and is the ustal position for statues. Common bell-me composed of three parts of copper and tin. For very small bells, a small port rine improves the tone. Speculum met telescopes is composed of equal parts of $t$ copper. It is white, very hard and clos: grain, and receives an exquisite polish.

The fibre of a single silk cocoon is $1, j$ : in length.

## ©ransactions.

## cocxty And townshll sociertis.

Continued from page 3x2.
Rnan.-Sixty-cight members; amount abseriptions, $\overline{5} 0.50$; balance from $185{ }^{\circ}$, \%: share of public grame, $\$ 71$; total ipts, $81(85.23$. Amount piil in proms, $\$ 66.34$; expenses, $510-17$; batance and, \$91.42.
armek.-Forty-hive members; ansount bseriptions, ©e.e, \$6l.j0; blance from ions year, $\mathbb{S}^{\prime}$ ². S0 ; shrre of pablic wrunt ; toial reecived, S12:303. Amount paid rizes, sit.25; capron-ce, s18.52; balin hand, S33.55.
moss--Thirty-five members; amount bscriptions, stu; balance fiom 185E, 9; (iovermment grant, $\$ 15$; total red, S:5.16. Amount paid in premiuns, j; expenses, \$13.7T; batance in hand, t.
reesock.-Thirty-cight members; nt of subseript:ons, St0; amount paid miums, $\$ 6 i .2 \%$. The report is imper-
sinexy.-Forty-two menibers; amount scriptions, 842 ; balance from 1858 , 8; Legislative grant, \$38; total re, $\$ 103.88$. Paid iu premiums, $\$ 69 .-$ expenses, $\$ 1 \because .57$; balance in hand, 1.
geen.--Forty-three members; amount scription, $\$ 43$; balance from previous \$118.62; total receipts, \$161.62. ot paid in premiums, $\$ 64.50$; reto County Society, 870 ; expeuses, ; balance in hand, $\$ 6.8 \%$.

## Carleton.

xtx Society.-Amount of subscrip\$357; balince from previuus jear, ; deposited by 'Township Societies, received for seeds sold, $\$ 11.20$; sun\$7.50; Lecgislative grant, \$578.57; ceceipts. S1ㄹ20.44. Amount paid íp Societies, E659.1t ; paid in pre\$398; copies of Ayriculturist, \$10; s and sundries, \$153.30.
crs, 1860.-President, Dr. Munter, ic; Vicc-Presidente, Jno: Robertson .T. Aylen, Nepean; Secretary and cr, Jno. G Bell, Ottawa.

## Extracts from Report.

© Annual Exhibition in the City of it October, there was less live stock
shown than ustal, but what thece was was of superior quality. Of produce, several parcels of wheat were very sood-6:3 to $1 ; 3 \frac{1}{2}$ lbs. per bushel. Of other graims the show was much the same as usual. Roots, turnips, and beets, were very superior, and exceeded anything hereto ore seen in this phace. There was a grod display of dairy protue", and of excellent quality

For home made cloth the samples were very goo l. Blankets, flannels and checieed flanels wee rery superior.
Thecrop this year has been much damased by frost and druaght. We had foost every month of the seasm. In June, aboni it nights frosty-Suly, cold and dry to the 2.5th; August, generally cool and dry, thermoneter often at and below $50^{\circ}$. Septeuber 2 nd ans Brd, front; 1th frost and snow; 15th and l6th, frost hilled corn and putatocs, and $2 S t h$, fresty. Spon the whole, it was the most untoward season which we have had since 1836. Wheat is not equal to last two years, arcraging 6 bushels less per acre. Hay is not over half an average. Oats under an average. Peas, in some cases, very poo:. Corn, the frost in Septeubler killed it aitogether. Potatocs are a fair crop, of good fuality. Turnips and beets are very grood.

Peruvian guano was tried with advantage on potatoes, corn and turnips. 3 cwt . per acre on Swedish turnips gave 500 bushels of 60 lbs . American guano was also tried, but was not near equal to the Peruvian. Fall wheat being much winter killed, a field was ploughed and sown with spring wheat, topdressed, with one cwt. Pcruvian guano per acre, with good effect. The soil, sandy and very loose, was rolled with a Croskill roller, with good effect.
Some improvements have been made in draining. One farmer has laid over 1200 rods with sawed hemlock, at about 1s. 10d. per rod. Some new implements have been used this year, in particular, a harrow, yot up by Blesdell \& Co., Victoria Foundry. For harrowing lea sod it is superior to anything used here, as it does not drag the furrow, but cuts up without breaking. Cost about 36s.; weight 180 lbs . A Croskill rolller has been made by T. M. Blasdell, which does good service. It is about 36 . cwt., and cosis $£ 40$. Your directors would call attention to the importance of giving encouragement to some one to make draining tiles.

Foreign manure are now brought here whie a large amount of boncs is wasted. It is said that bones are collected in Ottama, and sent to a grat distance to be ground. Sone of thes: bones are brought back to Ottara again, to be used as manure Would it nut be well for our society to try to get some one about (Attawa to elect a bone mill here. .lll the manure we cian get are neerded

## 

 share of public grant, $\$ 119$; amount paid in premimms, S19007; expeoses, so.

Man'm.-Twenty-cight wambers; amount of subsenipt:ons, sias ; share of public grant, S119...5; total seceipts, :OU1.25; amunt paid in premians and expenses, s-3to balance due i 'revarer, s 5 $\overline{7} . \overline{5}$.
 Twenty-ucwenmemins; amome of subseriptions, $50:$; Lewislative grant, sit ; balance from 1858, \$24.3:3; t.stal recipts, Sl60.33. Paid in premiams, sles.7o; paid county society; 510 ; expenses, S1:...); hatance in Treasurers hands, sil.s:3.
isenmond and Goutmera.-Forty-one members; amount of subecriptions, $\mathrm{St} 4 \mathrm{~S}^{\text {; }}$ balance fom previous ycar 547.58 ; Govermment grant; \$3.4.6) ; tutal received, $\$ 150 .-$ $\because 0$. Anount paid in presiums, $3126.4+$; copies of Ayriculurest, $\$ 10$; expens, s, S!). 05) : halane in hand. st. 71.

## mentas.

 thirty-seven members; subsoiptions, $81+5$; balance from 185s, s71 67; deposited by towntip societics, sl(16; adiaission fees at exhibition, $\$ 105.35$; public grant, $\$ 385.18$; amount refunded by Mountain Society, s18.30 ; totalamount received, $\$ 831.50$. Amount paid towship socictics, 8296.80 ; premiums, $\$ 326.12!$ : expemse, $\$ 10.525$; balanee in Treasurer's hands, S119.72?.

Officers, 1S60-1resident, (icorge Doran, Troquois; Secretary and Preasurer, Jos S. Ross, Iroquois.

Extract from Iirpurt.
The directors of the Dundas County Aericuitural Society, learn with grcat satisiaction, the interest manifested by the Board of Agriculture for Tpper Canada in cliciting full and accurate reports from the various counties of Cipper Camada.

A correct and reliable descriptiou of each,
their history, cababilities and progress, i. as a cousequence, their comparative inde: ments to immigrants and others, whor have made up their minds to engage in er cultural pursuits, is a desinderation wh: even the elabomat lireetury of Can:da, a the copious and pains akinge nous of 1 di ? have not supplied . 1 great deal edat: to the several counties of (ramada may deed be gleaned from these sources; but is a work of time and dillirulty wospar them from the voluminous mass of intint tion respecting other patt of the Provit with wheh tincy are assoriated.

We have lones desired to see a full rep of cach county, cimplete in itself, :mad think we amot bether respond to the pressed wish of the Board of Agricult than by collecting from all reliable on: all that is kimm of our county, and ade from local isf wation many matters of terest not tir be: funad in the works reler to. And the belief that sucha report mi be particulaty interesting to the inhabite of this cuunty, has induced us to enter in upon many topics, which rould not ua sarily have been embraged in a stidety cultural report.

We have attempted to sketeh the his of the county from its firsi s:ttlemem, to give a bri f outlize of the ongig and gress of our religions and social institut which, a part from the agiculumal mat camnot fall to interest at luast the resid of the coninty.

The County of Mundas, we of the br Countics of Stormont, Jundss and $f$ garry, fomerly known as the Ohl Ew: District of 'Pper Canala, is bounded ly liver Sit. Jawrence on the south; pil cast by the C. m aty of stormon ; on the by the Comatis of liassell and Cart and on the wort by tie Cumity of (ten:

It thus hes warly midway betwen: treal and Kingstun, and a line dam right angles tothe hiver, would interst Ottawa River: at or bery near the C Ottawa, the future caritel of Canad. distance between these two points about 45 miles.

The County embraces an area of 250,000 acres, whereof in 1558, 说 acres were asecsed at a value of $\$ 2,00$ The population of the County in $18:$ date of last consus, was 13,665 , of 10,478 were natives of Canada, 2 Ireland, 500 of the United States,
aud, 252 of Englanu, 54 Ludians, and on the Lower Province and other parts. ge increvse has been made to the popusince '52. We place it now at lif,-' the increase by immigration has been $y$ from the courtries above enumerated, erlaps nearly in the same ratio from

1503 , the population was $: 1,9203$ : $:$ nd sersed value $\mathscr{E} 1,000$; thus in $\because \mathrm{S}$ the population has inereased fourfold, ue alue of the County tenfold. It has nd its population in $1+\frac{y}{}$ yars, leper ain the meantime doubliner in 10 y ears, In 1841 and 1851. But the enornfux of emigrants into Gpier Cdmada, that period as somewhat above the aratio of increase. and it is well known he great tide of emigration flowed an unbroken stream till it rached o or Ifamilton, very few indeed landthose parts, beyond those who hapwhare relations in the County. Our "increase in population therefore comary fisourably with the rest of the ce.
by Hiswony.-The proclamation of etween Britain and America, in 1783 , ed at least a partial fulfilment of the cy, that ': Men shall beat their swords ioughshares, and their spears into hooks." The brave and loyal subho duriog the fierce recolutionary aremained faithful in their allegiane Sritish Crown, being no longer re(1) fight their country's battles, were tined in a very different wiy to add country's greatuess, and it was amthat liberal mants of lame in Canld be freely given, to the now disoldiers.
oclamation was now issucd that an hed to contimue their allegiance to should rendezvous at certain points routier : these were Sacket's Harwego and Niagara. Of those who antually to Dundas, a part assembled ra, and the rest at Oswego. They originally from the fertile valley of ark liver, in the then Province of rh. Those who settled in Williamscar to have met at the rendezwous ra, and were thence conveyed by sh Government to Carlton Island, Singston, where they spent the first tents and huts provided for them. re about 80 families altogether, who
during this time were fed and clothed by Goverument. The reason of their detentio: here ras, that the County of Dundas upon the St. Lawrence was being surveged for their secupation, and they there remained until that survey was completed.

They landed in Dundas on the etith of July, izst, they were chiefly, if not altogether disbanded soldiers of Sir John Johmston's regiment, composed chic!y of Germates. 50 families were futheraths and the remainde: Presbyterians, and were henceferth lnowa by the name of Tinited Empire Styalists, subsequently abbreviated into I . E's, ind thas was firmed the nucleus of a mighty eolony, which in af er days acquired the illustrivus name of the * Brightent Jewel in the Imperial Diadem."

Whey drew their land in the following manner. Every mam capable of bearincarme wats entitled to assume the name of : C. 1. J. Joyalist. Some of them indeed were of a tender age. The late Colonel Crysler, then a drummer in the regiment, was in his 15 th year, but was placed upon an equal footing with his father, and at a distant day each of his rumerous sons and daughters ranked as children of the U.E.

Each soldier was entitled to draw 100 acres in front, and 200 in the rear; this was the soldier's bounty. If married and with a family, or if at any future time married, he was entitled to 50 acres for his wife and 50 for every child; this was his family land. Besides all this, carch son and daughter on coming of acre, or at marriage, was entilled to a further grant of 200 acres each. Whese: last resulted in the greater part of Hountain and Winchester being dram by children of 1i. E. Iogalists.

As they became of age, cach repaired to Cornwall, and presented a petition to the Court of Quan ter Sessions, setting forth their right, and having properly identified themselves and complied with the necessary forms, the Cromn Agent was authorized to grant them a deed for 200 acres; the expeuse incurred amounting to about $\$ 2$. Settlers continued t: drop in from the States from 1.784 to 1798 . All were placed upon an equal footing. All who preferred British rule to that of the Republic, were designated U. E's, and entitled to all the privileges attached to the name.

In addition to the land as abore described, they were provided with food and clothes for three years, or until they were able to pro-
vide these for themselves, sred to sow on their clearances and such impleneents of husbandry as were required: each receised an/ axe :a hoe and a sprde. A plough and one cow were allotted to two families; a whipsalw and a rues-cut to every fourth family; and even boats were provided for their use and placed at consenient points of the river. Thiese were of little use to then for a time, as the first year they had nem gri-ts to take to mill, and the loms sult hapids lying between them and Cormall, whence they received their rations, it was fousd to le a very difficult matter to bring them by water. In many eases the settler went thither in the fall or $i_{i}$ the winter and dragesel up on the iee by the edge of the river as much as he could draw on a hand s!ed, a distance of 20 miles; and we are even credibly told $o^{c}$ one who in a similar manner went to Montreal ado returneal dragging behind him an irou pot wherein to cook his potatoes. At this time they had the choice of but tiso mills, they were literally placed between two extremes, Gananoque above or the Cascades below, equidistant about 60 miles. They took their whest in boats and canoes, which the Indians now taught them to make, to one of these places, several paries joining together to taise 40 or 50 buslachs at a time with 5 or 6 men to work the boat, stemming the rapids of the Coteau and Long Sault, or the Du Plat and Galouse.

These and innumerable other difficulties met and surmounted by the carly settler might well put to the blush his less hardy deseendant, before he utters the now frequent complaint of hard times. There being ample employment ou the settler's farm, yet uncleared, for all his sons, there was little inducement for them to think of setting up for themselves. As a matter of consequence the lands they had drawn were of little value to them. In the meantime U. U. rights became a taple article of commerce and were seadily bought up by speculators, almost as fast as they came into tlie hands of the rising generation. A portion of what remained were soon resold in payment of taxes by sheriff's sale, and these too becume the property of land jobb-rs.

Many of the lots thus drawn were never seen by the parties who drew them and their comparative value was determined rather by their distance from the river than by their intrinsic quality, so that lands in Winchester which in a very few jears were to bring
$\$ 20$ an sere were considered worthless, $2:$ lots even more farourably situated weres: if not for an old song, at least for a tr dices, worth perhaps $\$ t$ or $\$ 5 . \quad T h e$ us pice of fair lots was from $\$ 25$ to $\$ 30, s=$ tren as high as $\$ 50$ per $\because 60$ aeres. Ato these would be 15 cents an acre. These wh sold to settlers as they gradually camet from Britain and the States at from trons four dollars per acre. yielding a clear pm: to the speculator of 1000 per cent forl investuent, in comparison with whiche exorbitant interest of modern days sinksi to incignificance.

At this time there was a great dealofr uable timber in the county. Huge $\dot{y}$ trees were cut for ship masts. A notable is still often spoken of by miny who sat which, having broke in falling was cutw 70 feet; at 35 feet from the buttitw sured $\frac{1}{2}$ inches in diameter and was or puted to contain $105 \$$ cubic feet. It: dragged from the woods by 16 pair of bor and sold in Quebec as a bolt $\leqslant$ prit for 3

Of white oak, averaging when dressed if 45 to 65 feet of the best quality, there 5 an abundance, which found a ready yart at from 2s. 6d. to 3s. per fuot. What not suitable for timber was made into st blocks.

At a later period large quantities of and ash rere sent to market from this cout white beach and maple were piled up in heaps and burned, and the ashes caref gathered and sold to be made into potash

The first operation of the new settler to erect him a shanty. Each with his on his shoulder turned out to help the oi hence probably the origin of making $b$ In a short time every one in the littleco was provided with a snug lor cabin, rx over with hollow logs split in two, an: inverted layer covering the joint; the s; between the logs was chinked, and plas: with mud: the cross-cut saw was prodn aud a door and small window cut out, an ample hearth rudely built with : completed the shanty, strangely contra with the convenient appliances and com of modern days.

The summer was occupied in clearine the land, and in the fall the wheat mas. in by hand. In winter, every available. was in the woods making timber and paring for another fallow. The $\pi$ : were long, cold, and steady, and the wheat seldom saw the light of day ti
al of $\Delta$ pril. The weather then setting in arm, the dormant fields of wheat early asumed a healthy and luxuriant veget:ation. lietles and burdock, the natural result of seoly firming, were alike unknown, and ther fly nor rust in these groel old days ofe there, to blight the hopes of the primirefarmer. The virgin suil yielded abunmity her inerease. Bre loner there was audance in the land for man and beast, :i with fod and rament the setiler was it:nt.
 are was that iu the character oif the early ther that commands the adamation and feet of all who ever were brought into nate with them. Naturally of a hardy d ubust constitution they ware neither odled by dangers nor difficulties, lut manHhoied them in the face and surmuanted in all. Amiable in their manners, they a fugal, simple and regular in their nis--selupulously honest in their dealings, $f$ were affectionate in all their sccial reuns, hospitable to straugers, and faithful the diseharge of every duty.
ls fo: their moral habits and religious ructer, we are proud to reffect that alugh without amy clergymen of cither relias pursuation, the Latherans and Presrians from the beginniug lived in good mohip and peace lotside each other, and id in obecring the sauctity of the Sabi, in holding lay reading and in singing :ns.
lost of the ealy setters have long ago el away-a few here and there still rea, liriug excmplifications of the excel$\because$ of character which we have thus imretly described.
awn of Improvement.-In tire jear 3 the first grist mill in the County was tby Messis. Coons and Shaver in Matil-
It contained but one run of stones and a saall saw mill attashed to it. It was : upon a point of the river about. 1 mile
"r the prisent village of Iroquoie-the mill never worked well and was soon doned. The little grist mill was howerer successful-would grind 100 bushels day and turned out better flour than of the mills of the present lay.
on after tinis, another mill, upon what then considered a magnificent scale, was ed by John Monroe. This had 3 or 4 fstones and a gang of saws and worked rably for 10 years when it unfortunately fire and burned to the water edge. This
was immediately replaced by a:nother, but this time mith only one run of stones. It was cheaply constructed asd in evcry respect interior to its predicessor, but: stood 3.5 years. when a large field of ice striking it on the point carried the mill uff bodily, or at all erents demolished it These several mills were all propelled by the current of the St . Lawience. A few stores were now added, the fist in the meighborhood appears to h:se been Richard Louck's, a mile below the present limit of Dundas. it this early perind the County of Dundas, if it had then the name it now bears, formed part of what w:s called the Lunenburg Distnet-which estended fiom Gananogue to the present Province line. The whole extent of coutry where Lancaster now stands, was one unbroken impassible and seemingly intermineable swamp.
(To be continued.)

## Eritorial $\lambda T$ otices.

The Edinblrah Review, July, 1890. New York: Leonard Scott \& Co; Toronto: H. Rowsell. The present number contains an unusual variets of articles-no less than twelveon the subjects of the most striking interest in the literary and political world. Our readers cannot be too often reminded of the practice of this and the other leading reviews of giving prompt attention to the topics of the day, and by their deliberation and research correcting the hasty impulses of the moment. The mere titles of the principal articles in this number of the Edinburgh are sufficiently attractive, and need no comment from us to indicate their scope or purport. The principal articles are: Chevalier on the probable Fall in the Value of Gold; Latest Geological Discoveries; The Patrimony of St. Peter; Mrs. Grote's Memoir of Ary Scheffer; Prince Dolgoroukow on Russia and Serf Emancipation; Comespondence of Humboldt and Varnhagen von Jnse; Cardinal Mai's Edition of the Vatican Coder. Price of one Review $\$ 3$ a year. Price of the four Reviews, $\$ 8$, "Blackwood" and the four Reviews, $\$ 10$.

The Westminster Review, Jlli, 1860. New York: Leona:d Scott \& Co ; Toronto: H. Rowsell.-Contents: Strikes—Their Tendencies and Remedies; The Mill on the Floss; Rawliuson's Bampton Lectures for 1559; The Post Office Monopoly ; Ary Scheffer; The Irish Education Question; Germany-its Strength and Weakness: Thoughts in Aid of Faith; Grierances of Hungarian Catholics; The French Press; Contemporary Literature.

The Fruit Preserfar's Manear--Reviowing the different theories and describing the best methods of preserving green corn and peas by drying, and other fruits and berries by enclosing in jars or cans, with instructions for successfully performing the requisite operations, $\mathcal{L}$. . This little pamphlet is we prosume meant chiefly as an adrertizing medium for certain kinds of preserving cans, but appears to contain some very useful information. Published by J. Culver, Rochester.

The Michigan State Fair is to be held at leewroit, on Oct. 2nd, 3rd, 4th, and 5th. The Society offers an extensive list of premiums.

Improved Berkshmes.-P. L. Demison, Esq., of Dover Cuurt, Toronto, offers for sale 25 Superior Improved Berkshire Pigs.

## flarkets.

## TORONTO MARKETS.

Tuesday, Aug. 14, 1560.
The supples to day were, on the whole, tolerably fair, except in wheat, which did not offer as freely as had been anticipated. Of liain, Wheat two loads of old grain sold-one at $\$ 123$ and the other at $\$ 120$ per bshi. Four or five loads of new wheat realized from $\$ 10$ to $\$ 121$ per bshl. Sprixg Wheat is nominal at from $\$ 105$ to $\$ 108$. OAts-About $\mathbf{5 0 0} 0$ bshls. offered. Prices are falling, being now from 31 to 33 c per bshi. Peas- 250 bshls sold at from 55 to 60 c . Barlex- 1.50 bshls at from 5.5 to 60c. Hay is worth from $\$ 9$ to 812 per ton. Strah- 25 per ton.

## NEW YORK MARKETS.

New York, August 1.4.
Floch-receipts, 2,959 bils; market uull and heary; sales, 8,700 brls at $\$ 515$ to 8.20 for superfine State; $\$ 525$ to 85 30 foe extra State; $\$ 10$ to $\$ 515$ for superine Western; $\$ 525$ to $\$ 5$ tij for cummon to medium evira Westem; \$5 10 to $\$ 5$. 4 for faferiur to woul shipping brands extra rotad-hoop Ohio.

Casamin Fionk-dull and droophas: sales 400 brls at 55 to 8510 tor superfine : 8520 to $\$ 750$ for extra.

Rre Fiocr-steady at 83.40 St 29.
Wucat-rece:pts $57,3 i 0$ bshls; maket dull and drooping; sales 38,000 bshts at SI $2: 3$ to $\$ 26$ for new winter red Westem; $\$ 1$ is for amber Illinois ; and $\$ 1$ in to $\$ 1: 35$ for new white Western, and $\$ 150$ for white Kentucky,

Rye-quiet and steady.
Bariet-dull.

Cors-receipts, 52,250 bshis; market and drooping ; sales, 78,000 bshls at 62 to for sound mixed Wetlern; 67c for choice $\begin{aligned} & \text { H. }\end{aligned}$ tern round yellow.

Oats-shade better and more doing at 3 39e for Western and Canadian, and 39 to: for State.

Pork-dull ; sales 400 brls at $\$ 1850$ for mess; $\$ 1918$ to $\$ 1925$ for new mess.

## BUFFALO MARKETS.

Buffalo, Augast 14
Whest-in firm demand, and market $\frac{1}{2}$ to lower; sales 13,000 bshls red Western. $\$ 108 \frac{1}{f} ; 5,800$ bshls white Indiana at $\$ 1$ 1 4,000 bshls do at si 12 , and 1,400 bshls! white.

Canadian-at $\$ 18$ to $\$ 121 \frac{1}{2}$.
Cons-market scarcely so firm: sales, 5 ;, bshis this morning at 50c.

Oars-market le lower; sales 9,300 bshla' morning at 29 c .

Nothing doing in other articles.
PROVINCIAL EXHIBITION.
The Provincial Exhibition will be hold Hamilton on the
18th, 19th, 20th \& 21st September, $1 \boldsymbol{y}$
For Particulars see Bills and Prize I which may be obtained of Secretaries of $t$ cultural Societies and Alechanics' Instity throughout the Province.

Hugh C. Thowson,
Sec. Bd. of.
Board of Agriculture Office, \} Toronto, Aug. 15th, 1860.
Aybshme Cattle - Patrick R. Wright, 2 Cobourg, C. W., breeder of Ayrshire C. Sheep, \&c., has several young butils and. [it for sale. His berd is well known as one of best in Canada West, and his termas of esk liberal.

Fall Pedigree of all animals-U. C. W Register.

## The Agriculturist,

Or gotrnal and Thansactions op tbe $h$ of Agmel hterr of ippir Canada,
Ts puilshed in Toronto on the lst and deth ot 1 munth.
Subseription-Hath a ioslar yer amun for sinuler
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