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## PORNAL AND TRANSACTIONS OF THE BOARD OF AGRICULTURE

OF UPPEI CAINADA．

OL．XII． TORON＇TO，SEPIEMBER 1， 1860. No． 17.

## SEPTEMBER．

be beginning of this month will be occupied $b$ the finishing of Autumn wheat sowing， re that operation has not been already con－ ＇ed．We have already entered upon this iect pretty fully．When the seed bas been $\sim \square$ and properly sown and covered in，in well ＂－red land，particular attention must be given redrainage of the field．Where land is not roughly drained by tiles，which is of course rately the case at present in this country，or $r e$ there is not a grod natural drainage ugh the subsoil，the open furrows between lands should be cleaned out to the full depth the land has been ploughed，during the fal． or if possible a little decper，so that the laye may not be over the surface and by oration solely，but that the superfluous $t$ may also be allowed to escape to some ni by filtration through the worked surface no the dead furrows．The cross drains d of course be deeper than the parallel furrows，and should be carefully cleaned $t$ the intersections，and due attention given contlets，not only at the time of sowing the $t$ but also during the autumn and spring． an acie of good wheat is lost from neglect is particular．
of not the least enyrossin o occupations farmer during the middle and latter part s month，will be the attending of agricul－ Shows，Township，County，and Provincial． the arduous labors and ancieties of the ，strmmer and hatrest seasons，the farmer
can afford to take his holiday，and to allow his wife，sons and daughters to participate in the same． But he attends the fair not merely for relaxa－ tion．He goes also on business intent，and will bring home a superior bred animal，or an im－ proved implement，to improve his herd or flock， or his practice in cultivation at home．He also goes to obtain instruction，and will pick np many a new idea，which will be of service to him in the improved management of his business， henceforth．

Potatos will require to be taken out of the ground daring the middle or latter part of this mouth．They should be thoroughly ripe before being dug；but as soon as quite ripe they ought to be taken up，to avoid the danger of wet weather and rot．Potatoes should be but lightly covered at first after being dug，so that the air may circulate through them，and dry them to some extent before they are covered in for the winter．

Fall ploughing，for next spring＇s crops，or next year＇s fallow will be required to be attended to as opportunity offers．The drainage of fall ploughed land must not be neglected，any more than of that in crop．If water is allowed to lodge and accumulate，the land will not be in near so good order in spring，or ready for sow－ ing nearly so early as otherwise．

Cattle，horses，sheep and pigs should receive due atteution，to keep them in good pastures， and as the cold uights approach，help them with a little green food，so that they may be in good heart on the adyent of winé，．

## The Exhibition.

As we announced in our last, the exhibition has been appointed to take place at Hamilton, on the 18th, 19th, 20th and 21st September. The preparations are proceeding in the most satisfactory manner; and there is not the least doubt that except in the case of some unforeseen casualty this will be the most brilliant exllibition which has ever been held in the Province. The particular occasion on which this exhibition takes place, the visit of the heir to the throno of the British Empire, is one not likely to occur again for many years. We advise all of our readers by no means to lose tho opportunity of being present at it, and taking some prizes, if possible. At the date of writing, August 30 , fully 3000 entries of articles for exhibition have been received, and many no doubt will yet come to hand. Those who have not yet made their entries should do so immediately. We direct attention to an advertiscment on this subject in another column. Particular attention is desired to the part of the advertisement relating to the placing of the articles on the grounds. As it is now ascertained that His Rogal Highness and saite will probably visit Hamilton one day earlier than was anticipated, it will be absolutely necessary that every thing shall be brought to the grounds on Saturday and Monday, excer.t cattle, and the cattle carly on Tuesday morming, so that every department of the exhibition may he fully arranged carly on Tuesday morning.

## Editorial Correspondence.

[No. $\overline{0}$ ] $]$
 IMPHOYENENT SOCIETY OF IREIASII. IGumas; July 28 th, 1860.
I will now attempt to give the readers of the Agriculturisi a general idea of this great national gathering of Irish agriculturists, which was held in the ancient city of Cork during the present week. Haring spent nearly a week in this interesting locality, I shall reserve for auother communication some observations on the state and prospects of agriculture in the southern portion of the lingdom, and confine myself at present to the more prominent characteristics of the show, which I am bound to say both in the amount and quality of the material excecded my expectations. The spacious corn
market afforded excellent accommodation: stock with very little additional outlay, and implements and machizes were convenir arranged under covered sheds in a very extey yard adjoining, and the whole arrangementexceedingly commodious and satisfactory.

The number of entries in the pure short class was 92 , which contained several anim: very superior merit, bred in the country. I told that this class, in point of number, perhaps, in quality, hardly came up to the shows of the Royal Dublin Society, whi: more favorably situated for the central northern parts of the country, where this brated breed is sedulously cultivated by the: wealthy of the landholders and farmers Devons there were only eight entries, ar Ayrshires amounted to 22. The Herefords not represented, I think, by a single spec The Kerries comprised 34, with only a fem: mens of West Highlanders, Gallomay: Polled Angus. The number of Dutch 1 and crosses was considerable, several $c$ latter possessing excellent points, and of size. Horses of all kinds amounted to S0; sheep 150 lots; and pigs, 40.

The first prize of 15 sovereigns in the $\dot{c}$ aged Durham balls, was awarded to Stath 5 yenrs, bred and owned in Scotland. H very fine animal, but decidedly inferiort Townley's Bull, which won the first prize same class at Canterbury. He is wide e: a good loin and quarters, but somewhat in hair and inferior in the cups. The. prize bull, and one or two o:hers bred and in Ireland, clearly indicate the progress has of late jears been made in this im departmeat of rural affairs in this coun very remarkable animal among the She was a four year old cow, Rosette, owned Eastrood, Burnley, Lancashire, a neig Col. Townley, and bred by Mr. W. Wh of Darlington. I saw this splendid anin Royal English Show at Canterbury, w. won the lst prize against Mr. Booth's Quecn Mab, an animal of great beaut: the highest breeding. In the Cork shon not only won the first prize in her class, the Purchell Cutp, of the value of 11 cigus, and the gold medal, thereby that she was the best of $a$ : : ourize co yard. In fact I never saw beto:, is such width and massive, yet beaum: *
ce, thi whole contour, especially the cyes and ad, denoting the highest stgle of bre ding. th of the young stock in the shorthorr class ffa promising character, and camnot fail of 'ng much for Ireland. Soukadour, a young Il of $1^{8}$ months, bred in Clister, is particularly ? both as regards touch and proportions, and arvelly obtained the lat prize of 15 sovegns and the gold medal. Among the Devons Ayrshites, though uyon the whole respecta, there was nothing that calls for particular ice, in a seneral and hurried slictech like the sent.
be greatest novelty to me among the homed le was the Kerries, which I was informed ic sole remaininy native breed that Ireland possesses. These are exceedingly small pretty laoking anima's, mostly hlack, and ewhat resemblin: the Bretons of Northern see, or the diminutive races of the We:ch ntains. The cows of this breed yield a large unt of milk of sood quality in propertion to size and the quantity of food they con$\checkmark$ and when well fattened their flesh is of llent guality. I saw them in large numbers If the mountains and valleys of the tomakwild and pintures une County of Eerry, aptly thriving on coarse and scanty food. rate, if proferly attended to, might possior made at fancy breed fiow cortain parts of and or Camala; they are in my jut ement rable to the liretons. Of the Dutch buecd were spveral apparently good specimen. ferior to those I satw at the Daris Exhibi-
They are sather large framod anim is, of enhor, with large patchens of white, and the vied a larere quantity of mi $k$, not howerer, told, of the richest qualite ; therefore well id to cow-keepe sia the neichborhood of towns. Amons the crosers or grades, avere! ? ont of Dutch cows from Shorthom at weult I ehould think somewhat duhbt. was informed, however, by several form.t (enoss b:eeds in Irehend are zeneratly It aduyted to dairy purposes.
my the IForses were sume fint rate amiaith othere, (as is usually the case on these ns). that curi.t not to have bcen brue ht -. The heot draurht sta' lions were repheby the SutTolk and Clydesdale. Mr. 's Suffoll Champion, bred in Eagland, marmefcent animal, almo it alsolutely * was desened!y awaved the fast yide
and challenge sup, and cannot fail to do good service for I: eland. There were a few excellent specimens of hunters and roadsters, and the fifty sovereirna challenisp cup, amis a prize of twenty. five sovereigns given by the Local Committee were awarded to Planet, as the best weightcarry ing stallion, at present owned by an Irish gentlemata at Kilmallock, and bred by the late lamented Iord George Pentinck, of England, to "hom the vorld is largel! indebted for no small portion wi mproved pure blood.

In sheep I was told the show was superior botin in guantity and quality to any of its predeeessors. And although much inferior in both (espects (t) what I saw at the English Exhibition at Camterbary, there wa: : considerable number of wery fine animals, which it would be difficult to beat any where. Indeed the second prize Icicester Ram at Canterbury was beaten at Cork. these were also some very good specimens of sheep, especially shearling ramb, of the class of long wools, not qualified to compete as Leicesters, among them a few Cotswolds, possessing lespectable merit. Of pure Southdowns the least said the better, aftrr one had seen at the Enylish Show the many beautiful and all but perfect specimens of this must beautiful breed. belonging to Junas Webb, Migden, and the Duke of Richmond. The Sintiduwns seem either not suited to Ireland or they have not as yet had proper attention paid to them. Hut in Shropshice Downs, nud a few other varieties of short woolled shece, the exhibinion had severel good. specimens. The County of Cork carried off murc than its proportion of sheep prizes, indic.ating that its dy and undulating sus sice resting on lime stone, is better suited to sheep culture than some other parts of the island. Indeed as a whole Ireland cannot be considered both as re ratds sion and cimate so well adiphed to sheep as eithe: Eagland or Scotiand, Iut it is, perhaps, superior to both for the raising of cattle; and wihont neglecting sheep, it is to the latter the Irish farmer would find it lus interest to direet his hest attention.

I was surprised to find the show of swine so limited as to number, especially in a country where the pig has been sesarded as an important and iudispensabie item in the ordinary husbandry. Swine, I am toid are diminishing, while cattic of hate years have greatly increased. The show ia this department was goved as to quality; :
large and small breeds. I also felt disappointed in the small amount of F.as and Poultry on exhibition, and there was no display of farm cereals, except a number of small specimens belonging to the ordinary collection of a seedsman, exhibited chiefly with a view to business purposes.

The Show of Implements was far more extensive than on any previous occasion, constituting a lepartment that was both attractive and instructive in no ordinary degree. Several of the larger English makers were represented, but no inconsiderable amount was from Irish firms, clearly iudicating the progress which has been made of late years in the agricultural mechanics of that country. Fowler's steam plongh was put into operation on a farm at Blarney, and did its work admirably. Other implements and machines, such as ploughs, searifiers, reapers and mowers were also tested, affording the spectators much interest and instruction.

The above will give the reader some general idea of this great national gathering. On the first day the admission being half a crown, the yard was not inconveniently crowded, and upon no similar oceasion did I ever see so large a number of elegantly dressed and handsome women, who appeared to take great interest in the various departments of the exhibition. The Irish ladies have alwass been distinguished for natural grace and beauty, and those of Cork are considered to excel in these altractive qualities. The Grand Banquet of the Society was attended by some four or five hundred people, including a large portion of the Irish aristocracy. The Lord Lieutenant, who is very popular in the country, attended the dinner and delivered a very suitable and eloquent speech. The whole proceedings of the evening, and all I could otherwise learn, were full of faith and hope in the future welfare and prosperity of Ireland.

> G. B.

Belfast, July 3Ist.
P. S.-I have now been through Ireland from south to north, and my impression of the state and capabilities of the country is decidedly favourable. The facilities afforded by the En cumbered Estates Act for tranferring landed property have been attended by the happiest results; and it is satisfactory to know that by far the greater part of thrse estates have been purchased by Irish capital. A general glance at the tenantry and their farms is sufficient to
ascer' in whether the landowner is needr, otherwise. In many places the dirty mud hor of the peasantry are rapidly giving way to if not elegant cottages, so that this just reprer of Ireland and her landed proprictors is in $\mathrm{f} ;$ way of being wiped away. A higher stants of domestic comfort is being raised, the demat for labor is now constant, and wages hare siderably advanced, and are still advancing." no part of the United Kingdom is the educs of the people better, if so well attended to, the national system, based on the non-denor: tional principle, is daily acquiring strengthr in the ordinary schools and the colleges. It been over the latter both in Cork and Bet: with the principal Agricultural institutionst nected with the National Board of Educat: of which more hereafter. The weather, tbr cool, is more propitious, and the crops ane: mising, but late. Every day I meet with pat interested in Canada, and the Prince of $\mathbb{T}$ visit is a matter of common talk and congra tion. It cannot fail to do us much good shall leave the Emerald Isle with pleasin: pressions, and cannot readily forget the t tality and generous nature of her people. morrow I cross the channel for Scotland 4 tend the Highland Society's Show at Dumf

## The Breeding of Skeep.

We take the following extracts from: cellent paper lately read before the Lond Central Farmers' Club, England, on the of Pure-bred and Cross-bred Sheep," Charles Howard. We copy from the Farmer's Gazette ":-
"The sheep of this country are dividef two classes, short-woolled and long-woollef established breeds under the former are or Sussex Down, Hampshire or West $C$ Down; under the latter are Leicester, Cot and Lincoln; all possessed of some most lent qualities, or they would not have their way and all but exterminated the Iocal breeds that were once to be found country; and perbaps it will be well bry glance at the history of those breeds.
The South or Sussex Downs are mod bably descended from small gray and darl sheep, which were found upon the hill mountainous districts throughout Englad

The late Mr. Joln Ellman found ar ferior and ill-formed description of shee
the downs of Sussex, but being possessed, like isserell, of an intimate knowledge of the bssiology of breeding, vy a judicious selection f his animals (but what selection it was the orld is not acquainted with), he produced an nimal with as many good points as its protospe had bad; but their greatest improvement eroleca upon a gentleman, a worthy member fthis club. I allude to Mr. Jonas Webl), who, gardless of expense, has moulded the sheep to is own views, and made it as regards its shape Inost perfect. The peculiar merits of this reed consist in its superior quality of mutton nd wool, and I gath ${ }^{\circ}$ from a letter of Mr . onas Webb's, in reply to a statement of Mr . ruce's in vol. xiv. of the Royal Agricultural ociety's Journal, their average weight at from 3 to 15 months old is about 9 stone, ( 3 lbs to e stone) and the weight of the wool of the enre flock about Gllbs. The ewes are capital breed$\therefore$ generally producing one-third twins, and are cellent mothers. This breed is, doubtless, best 'apted for elevated situations and bare pastuge, where activity is necessary for getting the omach filled, and where folding is purs'ed, their tivity being in their favour, they are a highly sirable class of sheep; from their gay and autiful appearance they find strong supporters ongst our nobility and amateur farmers, and ? considered by them the elite of our breeds.
The Hampshire or West County Down is a ry important branch of the Down family.
The Susser Down is the favourite in the easin countics, and this breed in the western and uth-western counties. Igain, as the Sussex - wns are descendants of the sheep which forprly occupied those hills, the latter are desfdants of those white-faced horned shecp that d ranged from a very early period the hills $d$ downs of Wiltshire and Hampshire. Their rovement dates from the commencement of present century, when recourse was bad to Southdown; from successive crosses this y valuable class of sheep was cstablished, and hink it will he generally admitted that a flock Hampshire Downs now presents as great a formity in wool, $\mathrm{co}^{\prime}$ ar, and general appeare as their smaller but handsomer cousins, the pthdowns. They have lately rapidly risen in lic estimation, and find considerable favour he London markets; but it is said by some, th what truth I know not) that, like the Loners, who are fond of them, they have rather eappetites. A gentleman who stands high surcess'ul exhibitor of this class of sheep ur national shows, in reply to my inquiries, es that "they are the best description of p for Wiltshire, Berkshice, and Hampshire; net, the large sheep fairs, such as Overton, sford, Wilton, Ilsley, and Weyhill are supI with very little stock of any other sort; are very hardy and of good constitutions, 1 wool bearers (the average weight of a well tlock is from 6 to 7 lbs. each fleece), of maturity, and have plenty of lean as well
as fat meat; they will graze to almost any, weight you may think proper to make them." The same gentleman also states "that they have been very much improved the last few jears by a slight cross with the Southdown." Another gentleman, not a lreeder of Hampshires, but who has had considerable experience in the feeding of them, states that they are a good. useful sheep; the better bred ones will bear comparison with other breeds, but there are some not to be desired; those that are too large are very slow in feeding, and when fat are of second quality," and in his opinion." it is very easy to get a Hampshire too big." The ewes are good breeders and sucklers, and combined with the excellent management they receive in these counties, some most extraordinary lambs are raised, which at barely tight month3 old command enormous prices at their autumn fairs. Their draft ewes also find a ready sale, and are distributed throughout many parts of England, chiefly with a view to cross with the Cotswold or other long-woolled rams; but the former is more comnonly used, and I have seen some very wonderful lambs the result of this cross. So much for the short-woolled sheep.

There is no reliable information as to the course pursued in establishing the Leicester sheep.

Bakewell died, and his secret was buried with him: but there is very little doubt they are the result of a cross of the various long-woolled breeds in his own immediate lucality, and which he succeeded in tuming to goud account by the production of this raluable breed of sheep; for it camut be denied that to this animal all other lons-woolled shecp, and perhaps some others, are indebted fur their impioved shape and great disposition to fatten. These sheep have been so long before the pubic, and their qualities are so well know., that I shall not vecupy your time with any lengthened imarhs upon them; their chief characteristics aze aptitude to fatten, with a comparatis ely suall cumsumption of food, and early maturity; they cut a guod flecee of wool, upon an average of 7 lh . cach, and weigh at 14 or 15 months old from 9 to 10 stones each. Some friends of mine in our own county, who have ween very successful exhibitors at the Smithfield Club show in this class, regret that they camnot be considered good breeders or sucklers-it is a rare thing to have more lambs than there are ewes pht to the ram; they also inform me that thes find sume difficulty in satisfactorily disposing of them when fat, as the public taste shows a decided preference for a black leg and a dark face.

The Cotswold or Gloucester sheep is one of the oldest of our breeds.
Mention is made of them in the carly history of this country, and Miss Strickland says in her "Lives of the Queens of England,': vol. i., page 419, "that there is little more than tradition to support the assertion that to Eleanora of Castile," Queen of Henry II., "Tingland owes the
introdaction of the breed of sheep, fir which Cotswold has been so famons $A$ few of these animals were introduced bs the care of the queen from Spain, and they had incuased to that degree in alout half a century, that their nool becane the staple riches of Eatand." If this be true, they doubtless breame sery mach mproved upon their introluction to this country, or it is recorded that smene 300 yeas after, Edward IV. quve permingia a for sumie to be sent aack to Spain. They sece mi, inally very soarse animals, with it thed heass fleece, and well adapted for the bleal, unen解放d Cotswoid hills; but since the cuelosure of the land and its better cuitivation, a great imporement in this class of sheep has taken phace; there is little doubt this wats effectrd by the use of the larienter, which, without diminishing their size, improved their quality, and gave them a greater aptitade to fatten. Amons the men to whom this country is indebted for improwing this breed were Messis Charles Large, Willian Garne, WV. Hewer, and C. Bartna. To Mr. Robert Garne, the well-known breeder, I am indebted for mach of my information. Anong other observations, he states, "They are capable of endaring great hardships, suceeed well in exposed situations, and on nearly every kind of soil adapted for sheep farm 1 g, producing a great amount of mutton and wool at an carly age. and it is no unusual thing to see in the best flocks sheep of 16 stone when only 12 months old." In confirmation of this, I saw, when at the Ox ford cattle marker the second week in March last a pen of shorn teas of Mr. Gillet's of Astrop weirhing quite 16 stones. Mr. Garne also states that "the weight they may he made as old sheep is enormons. II liad one at the last Christmas catile matket weiyhum 43 stones or $\$ 6$ lbs. per quarter, for which he obtained $\pm 8$ les. The averaye weight of an ordinayy flock when fit for the butcher at 14 or 15 months old is from 12 to 13 stones, and the weirgt of wool of the mhole flocle would approach to $S$ ths. each. The Cotswolds cut a grand figure and generally form a very attractive pertion of the Royal Agricultural Shows; there are between 3000 and 4000 rams annually disposed of, and a grond export trade is now carried on with Australia. as well as to the continent. The great demand for them is for crossing, and perhaps it may be considered one of ou: bett sheep for this purpose.

The heavy woolled and large framed linsoln heep, like the Cotswold, have been improved * an admixture of leeicester blocd.

3r. J. Clarke, who is well known to many of on, thus speaks of them: "The present imgroved Lincoln sheep partake laryely of the pepliarities of both Cotswold and Leicester, havng the expansion of frame and nobility of -sppearance of the one, with the quality of flesh, compactarss of form, beauty of countenance, and propensity to fatten of the other; but they far excect either in the weight of their fleece. Under good management their wool is of a
quality which rarely fails of obtaining a prit equal to that of the lighter long woo's, and then ix, therelore, no breed perhaps that can equ' this in rapidity of rewoll and propensity to fe ten undor a shin so weighty and so valuable: There ave instances of a most remarkable weit to whioh these sheep have attained. In 10: Mr. Jawson, of Witheall, killed a threeshat
 sheat: weighme al lhis. per quarter: and shearlines, 7. Mos. per puarter. Mr. Hote Smith, in his report of Lincoln sheep at Warwidel show, states that " lie has known! month; old lamb-hores slamhtered at Linw: Apil fair, 30 torcther, ave:aging 35 lbs. ${ }^{\prime}$ quarter, and 100 topether clippiner 11 lbs. w:shed wool cach." It is not the come: pratice for breedens of Lincolns to have the fit for the butcher at 1.4 or 15 months old, they are generally kept until they are 22 to months old, when their weight will be from to 50 lls. per quarter, and cut a second fees weighing from 10 to 14 lbs. The weight wool of an entire flock, under fair averaget agement, is about S!lbs. each; in some ca especially on good lajer, this weight no do is exceeded. Mr. John Clarkés Lincoln p: ram elipped $51 \frac{3}{4}$ lbs. of wool ${ }^{n}$ three years average of $15 \frac{1}{4}$ lbs. each year, while a neigt of his in 1859 clipped 327 hogget fleeces, wt weiched altogether 130 tods, an average ofe 11 libs. per fleece. The lincoln breeders. sider the mutton of admirable quality, har less fat, and a greater portion of fine qra: lean flesh than the Leicester. The ewes go d breede s, but, like the Cotswolds and cesters, are not good sucklers. Mr. Clarke cludes his letter by statiog that "it is ce: that neither Cotswold nor Lsicester shee; cases where they have been tried (I suppo that district), have equalled the Lincolns in value of wool and muton together produce acre, and no other breed can furnish suct and heavy stimed lamb 'roges as thosen are the gradier's attraction at Liacoln, Ca: and Boston spring fais. So much for the woolled breeds.
The progress crosses have made is this try is proved by their competition at the $s$ field Club.

Through the kindness of Mr. ibrandreth $G$ I am cuabled to give the return of the on Prizes were first established for cross-bree 1843, now 1 it years ago. During the firs years, the average number of pens was on but during the last eight years they have aged within a fraction of 17 ; while the Leic during the first nine jears averaged 19 they have during the last eight only reacl 17. I do not intend to gro into the quesi. food; for it must be admitted that the woolled breeds will, doubtless, pat on the est amount of fat in proportion to the foc sumed than any other; but this is not: farmer requires. When he has produc
oton ho wants a markel for it; crobses find a ore reads salo and a much lietter price, which ore than make up for the increased consump. on of food. There is a very great diffirence ' opinion upon the subject of erossing, many, 7 many, still contending that it is not desirle to go begond the first cross; and the most ecessful and common mode pursued is to use leng-woolled ram upon South or Itampshire orn or other dark-faced eures. This coarse 3 been foum to answer hetter than a shortabled ram upon long-woolicd ewes; for the oduce ereneraily partakes of the size of the ale, and uis, having aia cye to the bitcher, is reat desideratum in crossing. The great ob, tion urged hy many arainst this system is, it as all the produce is sold of amamaly the meder is driven into the mariet every yar for es, which are mostly the drafts of wher joo's flock, thereby ruming the risk of intro. ning all manner of disenses on to his tiurm; ides, there is a want of unito mity i. the th, some taking atter the sire and cthers to tho dam; moreover, having to parchase 3serery year, the demand is inereased and supply is diminished. This cannot he desire, for with a fast incruasizs and fourshing ulation, bringing with it a srowinf demand meat, the breeding of shee; cannot be; tow ansively canzed oni. The eljections I heve ed to the mude of crossing i have described, c been felt by many, and suecessfal efforts c been made by the men of Shropinite, Oxshire, and other dstricts, to produce si:cep units the welh-known atad acknowledged dqualitie of the Duwn with tho larger framnd heavies ileceed long wools. What hats t dane caa le dunt again. If it ana bosible 'Ir. Rakewcil, by a judicions selection from mious long wools, to produce the new Levir; for the fatmpshice men, bj the tee of suse. bown, to change the characteristics ieir uative borned breed; who shall sery it is ussible at the present day, with our calarged ylecise and increased facilities, to preduce ts equal to thuse who have gone before us? Oxtordshise and Shropshire men in their -pt to establish these newer breeds are ed up in their pri:ciples of breeding by a high authority, a gentlemare who is a mern$f$ this clab. I allude to Mr. Gpoover, who aritten a most excellent paper upon the breeding of shec; in the iast Journal of amal Agricultural Society of Figlad, and lioke this opportunity oi saying that tor ical papers and good downight, farmers' me previons journal has erqualietit. AI:. m, I know, wid his bost to make it so. I now tant it bas fallen into other hands it s conducted in like manner. Bir. Spooner a one of his conclusions beariug upon this "Ahhough the benefits are mose evident first cross, after which, from paining the ored animals, the defects of ono breed or her; or the in magruities of both, are prer-
petually breaking out, yet unless the characteristics and conformation of the two breeds are altogether averse to each other, nature opposes no barier to their successful admixture, so that in the course of time, by the aid of sulection and: careful breeding, it is practia able to extablish is new breed altogether. This, in fant, has been the history of our principal breads." Mr. Spoonor goes on to show that the Jemereter was produced from crossing in the litst instance, the Cotswold and Lincoln have been improved by the Sesicester, and the Fanyshire and Wiltshire have aisu, heen crossed and improved by the Southduwa; and as re rards the latwr, there is a doubt in smo minds whether their improred chines and backs were not brouglit about by sume such wrans. From all this $i$ would appear the wrod "pure" is ont of place when speahing of my lireed, and therefore I prefer to ase tixe term happrily chasen by Mr. Robert Smith, in his sepuis of the Loyal Agricultural shows at Chenter an:' Warwick, vi\%, the 'esteb-


## Howse Talk to Tyros.

Whon beres are prazing in a state of uature, oe turned out tor a timporary run, they, doubtless, isallow a deal of cath. I have seen those that are regularly kept ia stables, and fed only on oats and hay, if ailowed, when out, seize any opportinity to cat carth. I have also seen horses when fint cubridld in the stable, after a journey, ibels every particie of it from their.feet, or it they e:an $\} \in t$ at a whitewashed wall they will nerer rest until every bit of lime is licked of it Al horses should have a lump of rocksolt and a piece of chalk kept regularly in their mangers; and my opiaion is, that if thes are fed upon fond best suited to their constitution, and woderately, but nis ores worked, they will require bat intie, if ans. medicine whatever. Bost of their dizurders ate the results of close confinement in badiy drained and badly ventilated stables, and are to be prevented or remedied only by proper stable management, and plenty of gentle work or exercise in the open air, for uir and exercise is as essential for preserving the health of hories as human beings. Their infirmities and unsoundness (when not transmitted by breedien from unsound progenitors) are almost invariably cansed by too mach work, and theis interna! disenses by over feeding and want of exercis:, or pore air in the stable. Bui I would not, on this account, proceed to diuy and polson them internally with balls and patent medicines, of which there are now-a-days so many vendons, who know nothing whatever ahout the anation or natue of the horse; neither would I subject their skin and sinews to operatiuns which, in some cases, is as cruel as it is :gnorant and useless. But if curbs, splints, spavims, and the lise, make their appearance in embryo (caused by over wo:k while too joung)?

I would trust only to a boose place and perfert rest. And in the case of wounds, nature wholly unassister' will often ferform cures almost miraculous, if not (as is too often the case with ignorant practit:oners of veterinary sur, rery) obstructed by what is called art. Nothing that I know of is so efficacious in the cure of womds as to keep them scrupulously clean, and the frequent application of a wash eomposed of the tincture of merrh and arnica, with bran masin as food. I think all horses, particularly those that are touched in the wind-and there are fess but what are, more or less, after they have been worked a few year-should have water always within their reach when they are cool. Setting them previons to galloping is the ouly exception, and this in many cases is often overdone by that conceited class of grooms who are too clever. Race-horses or humters are the best judges, however, of the quantity of chilled water they should drink after $t$ eir exertion. Their grooms are seldom competent to judge of how far they should be limited in the case of their own potations, and their judgment is seldom to be relied upon as to the quantity of water the horses uuder their charge should take; for those of my readers who employ grooms know to their cost that their want of judgment in the important matter of watering their horses is the frequent soarce of fever, inflammation, and colic. It is a most barbarous mistake to stint brokenwinded horses of water; the object should be to prevent them distending themselves by immoderate draughts, and this is best accomplished by giving them frequent opportunities of making moderate draughts, while at work, and keeping it constantly before them in the stable. This would also present many cases of broken wind "Water your "orse, and feed him often," I eay, if you would preserve bis wind, and keep him in condition; let sim have plenty of water when cool, but no! over-gorge hins with food at our time, for his stoma $h$ is small and soon empty, especially when at volent exercise ; for then the digestion is quicker. But if you let him remain long rithout food he is apt to bolt it, in the horry to satisfy the cravings of an empty stomach, and in that case the food is not properly masticated, and the horse rarely looks fresh. Over-gorging the stomach also rauses the food to distend the stomach, and ferment. I have known it cause stomach-staggers, or inflammation of the stomach, and end in deatb. Soft water is much better than hard for horses; but where that cannot be obtained plenty of clay and marl should be kept in the tub or cistern, where a supply of water should always be in store. The horse should never be allowed to drink water fresh from the well or pump. When bran-mashes are given, a handful of salt should be mixed up with it-a little clover or tares is a fine alterative, and the best at this scas on of the year, because the most uatural for horses that are kept on hard, dry foou, but too many should not be given at one time, or when the horse is
heated, or ravenously hungry, lest they prod: colic.

If it is required to fatten horses for $;$ (which, I may sar, hides a multitude of fanh: make and shape). I have found nothing so $\mathrm{e}_{2}$, cious us boiled barley and oil-cake, with of grooming, gentle exercise, or a rooms liz bos, where they can exercise themselvesi quiet stable with no other horses near, or nct outside, to prevent them lying down as moc' posisible on a deep bed of clean straw. Iise antimong, to the extent of three or four dract is riven by some rood judges of conditio:horses in their feed about four times a 位 They say it purifies the blood, and materic assists the process of fattening, not only hos but many other animals; but care should taken that it is pure, and not adulterated $r$ black lead. I reed not, however, remarki horses forced into condition by the above me very soon fall off when they come to rex work, and the usual fare of oats and hay. ! should I have thought it worth while to rex mend this system of temporarily overloaz horses with superfluous flesh, were it not fashion for the majority of horse buyers to ject a horse merely because he dees not! sleek and fat. A good judge will never re. a sound, young, and well-made animal ber he is in bad condition, but an experiencedb likes to see bone and muscle covered witb less blubher, which is too often put on tol faults, and which disappears after a few sx like snow in sunshine.-Bailinasloe, in Land.

## Why are not Race-Horses Bred wi combination of Useful Qualities!

Yes. Why do we not breed our racel: with more bone and muscle, deeper bodies shorter legs, so that they may render the t try, as well as the turf, some little servic some compensation for the enormous sar grant them-nearly three millions yeart public purses? What do we ret in reta: the public bountics granted ${ }^{2}$, our governc Not that for which the money was first giv viz., the improvement of our breed of he but, on the contrarg, we are every year de rating the qualities of our saddle horse troopers, by the reckless mixture of breed our racers, under the idea that we are in blood and staying qualitirs inte their Blood is all very well when allied to a cot usciul form, able to carry men a reasonat tance; but when it is produced by "in breeding," from shallow forms on long, ing legs, it ceases to be worth the n. "blood," in the common acceptation term. Those qualities in our race-horses are decreasing every year more and mt the most useful and natural ones-name! stitutional vigour, frecdom from heredit

Se, strength of bone, Inrgeness of musule, and fat endurance under severe excrtion. These or the $q$, slities which we require for use: for IT fer of us wonld buy a horse for his single ality of speed-indeed, none but turfmen bald care to own such an one. The general bic do not require such horses, because they re no use for them in the daily rontine of life. bose who like to travel fast may gratify their bin any time in an express train. But even if weec our wish to travel fast on horseback, it puld be unsafe to do so on the public roads; d where would we find a race horse to carry fourten-stone farmer at the pace, and come to the imn yard as fresh as the smart little esb) oduced from a judicious cross?
There are thousands of race-horses bred, and red to the are of two yeats, which, atter trial, found worthless for the purpose they were on $c_{n}$, and these are expeiled from the racmer ds in dis orace, and they are sold for hittle or hing ; some of them are given away, and are ch too dear even at that price. Thus, our batry, once famed for the best breed of saddle ses in the world, is becoming overrun with a of worthless, weedy, refuse racmg-stock, ch, by many inc.pperienced farmers and ceiers, are gradually being crossed with, and sdeteriorating the breed of, our short legged, phodied, "ide-hipped, strong-loined, saddleses, the lineage of which, in a few mstances, can still trace, by their compact torms, to breed of race-horses cucouraged by our toreers, who bred horses for $u s e f u l$ purposes, to IT men long distances, and not the spindeFhed velocipedes bred by our turfinen of the , ent day, that break down after rumning a few ongs with a baby on their backs. Off what lily use, I would again ask, are the raceFes of the pesent day, when they are tried found wanting in speed for the purpose for ch they were bred? Besides the great we that has taken place in the forms of our horses, they are become strongly disinsed meness and disease, and before even startino ther first race many of the best are lame; ts are rendered so for life by running a Fiase like the Derby; nearly all are more is anfirm from their birth and would knuckle eir pastern joints if they were to cary an nye sized man a reasomable disuance on : pine road. Our race-horses have been much ed under the existing practice on the turf reeding in-and-in, as it is only from a small Un of the vast num:oers of race-horses that preed is lient up. Every one beeding for terf sends his mares only to the stallions e stock has most speed. If the old style of othad been kept up, viz., four-mile dis$s$, under a weight of ten to thirteen stone, cril would have been avoided: because, endurance and constitutional virour le. reduced in any stud, the owner of it would ally have sent his mares to a stallion which et in possession of those qualnties.

It is curions to see the helplessness of our thorough-bred fonals, which usually cannot move ahout for some days after being fonled. On first ohserving this, I suggested to the owner $0^{f}$ one that it would lie better to destroy the poor little miserable devil; but I soon fcund it was the pue eliect of constitutional weak , is in the pa rent, common to all thorough-bret foals. Notwithstand.ag the pablic hot ties to our turf for the encourarement of a $t$ and serviceablo breed of saddle horses, suitable either for the hunting field or for the cavalry, we are every year more and more deteriorating the race, and thus obliged to yield to the growing weakness, and give them less to do, with shorter distances to run, and lighter weights to carry. The Jockey Club are contert to see our race horses losing every yuality lint speed; for that, and that alone, is the quality required by the racing world under the existiog system of running. To the Jockey Club, or to the gentlemen who breed our race-horses, it matters not what is the character of their horses, as a whoie: each individual desires only to have the lest of that whole. But I do not see what it can matter to these gentlemen, or the racing world, what is the average sreed of their horses. Their sote object is to win money; bat if they would insist on the performance of the old tashs-iz., longer distances, with heavier weithts, our turf would soon abound with. horses displaying a fine union of constitutinnal vigour, physical strength, and endurance, with sufficient speed for every useful and pleasurcale purpose, whise gentlemen connected ith the turf would win and lose their money with as much facility as they do at present.Balinasloes, in Loindon Review.

## Prizes for Horse-Shoeing.

At the recent Dorsetshire (England) Agricultural Show, pizes were offered for Horse-Shoeing-a feature entirely new to us, although it is said to have been tied by this Society once betore. The idea is a good one, to say the least, and we suggest it to the manajors of similar associations in this comatiy. A workshop, on this occasion, was loaned foi the purpose in the immediate visinity of the show ground:

Yive fores with fi e horses were placed at the disposal of the stewads, and in order that too much time should not lie tahen up, the contest was limited to making show sails, fitting and. preparing the foot, and putting on a single shoe on the fore-foct. These were 10 competitors, so that only five could work at one time. The sigmal was given for starting, and in the course of 22 minutes for the shortest and 32 for the longest, the five shoes with the requisite number of nails were reported to be made, after which the signal was given arain for nailing on, which was accomplished in from four and a half to seven minutes. No filing of shoes was allowed, as it was held that this, though very proper in
ordinary usage, was yet no proof of skill, and might serve to hide defects. It is evident that the amount of excellence was not confined to one point only, but to several, for instance-

1. The time of making.
2. The levelness of the shoe.
3. The situation of nail holes and the fallening.
4. The proper and even seating of the shoes.
5. The preparation of the foot, such :as the removal of ragged parts, which only harbored filth, without cutting away the hars or too much of the frog and sole.
6. The fitting of the shoe so that the wall or crust might have a firm and even bearing, the shoe not projecting at the sides or too much ao at the beels. The shoes to rest very slightly on the heels, and the sole and scat of corns particularly being secured from pressure.
7. The nailing on so that each nail should have a firm holding the first time it is driven, so that the crust may not be injured by drawing the nails and paring the horn uselessly. The nails not to be too numerous nor too near together, nor the heads to be so large as to project much beyond the shoe, and above all to be placed at some distance from the heels, particularly for the inside heel, so that there may be no impediment to the foot's expansion.
8. The time taken by each competitor to perform these various operations in a proper manner.
It will be seen by reference to these various points that the judgement was by no means trivial, as it had to take all these points into consideration. One of the best workmen failed to get a prize in consequence of too great haste both in making and putting on; whilst another shilful maker of a shoe wanted experience in fitting it to the foot and putting on.

The prizes were respectively $: 3$ guineas, 2 guineas, and 1 guinea-time occupied by the wiuncrs:

|  | Mukine Efitism | jutting on. |
| :---: | :---: | :---: |
| First prize. | 26 minutes. | 7 minute |
| Second " | 32 do | 12 do . |
| Third " | 25 do | 5 do. |
| Highly com | ded 30 do. | do. |

## The Cattle Murrain.

The citizens of Massachusetts and the adjoining States are sorely troubled by the spreiding of that fearful infection amony the cattle known as pleuro-pncumonia. To suchan extent has the malady progressed that an extra session of the Massachuseits Legislature has been called for the purpose of devising measures to circumscribe the evil. The session will commence on Wednesday, May 30, and money appropriations will be called for, so that prompit and decisive action may be taken. Reference is made to the endeavors made by the English Government, now more than a century since, when a similar
disease presented itself, and which were effiectin in arresting the course and shortening the sin of the malady. It appears that in 1744 a farm residing at l'oplar, near London, imported in calves from Holland which were affected mit the disease. Starting from this point, slowls first, but more rapidly as more means for? propagation were offered, it spread over 4 length and breadth of the land, destroying bey dieds of thousands of cattle, and continuing ${ }^{*}$ devastating effect with almost unmitigated ser. rity, down to $1754-5$. Notwithstandiug the der and painful interest which this disease excir and the efforts made by the government to $t$ its ravages, it was ascertained by one of ${ }^{1}$ Commissioners appointed to investigate ${ }^{2}$ matter, that in Nottinghamshire alone $40, f$ head of cattle perished in six months, and Cheshire upwards of 30,000 in the same sps of time. lis a special act of Parliament on were given:
"Ist. For the killing of all the infecteds mals, and burfing them entire with the skins. 'slashed from head to tail,' that they mightbe used for the purposes of the manufactar 2nd. For the burning of all the hay and st used about the animals. 3rd. For the clean and fumigating of the sheds, etc., and for sound cattle to be put into them for two mot after the removal of the diseased. 4th, Fot recovered animal to be allowed to go nearob for a month after its convalescence. 5th.: no discased cattle to be driven to fairs or : kets, nor for the flesh to be used for dogs, 6th. For no healthy cattle to be removed $f$. a farm where the disease had prevailed, in than a month after its disappearance lastly, orders were given for the notice of outbreak to be immediately sent by the fas. to the proper authorities. ${ }^{\prime \prime}$

In one year, the third of the existence of discase, $\pm 135,000$ were paid out of the $p:$ treasury as a recompense for the cattlek according to the prescribed orders. During year, 80,000 head of cattle were killed bee more or less affected, and nearly double number died of the disease. There have cases, we learn, of a similar kind in Cai though not to such an extent as yet to at very gencral attention. But, in order that country might be spared the terrible inflic it would be well if all catte which ma seized, should be either killed at once orso entirely to themselves as to prevent the gion from spreading. Indeed, it might be if the Camadian Government were to take action in the matter, and by circulating: mation resplecting the disorder, and caus supervision to be exercised orer all cattle st to be imported, arrest the spread of the d: through Canada. Just at this time, whe country is recovering from the recent depro and when everything promises an abo harvest, nothing could be more calamitows the spreading of a disease wbich would d.
sharge a portion of the liviag wealth of the ountry. Meanwhile, the utmost caution should o esercised by the larmers to prevent the malafrom obtainin; a headway, as, should it once et a firm footine, the plarue might commit milar ravages with us as it did during the long eriod in England to which we have referred. oe plan, that of inoculation, has been recomended as a remedy. It is stated to have been ied in Belgium in 1852, and that of ' 600 head oculated in the space of three months, at the ariod of its greatest intensity in that province, ot one of them contracted the disease.-Lonm Free Press-May.

## Landscape Gardening.

The usual accompaniments of retinement and -ilization are displays of the five arts, such as inting, statuary, elegant cabinet works and ditectural decoiations. These are all very II in their place, but there is another art ich deserves a much higher position than is nerally assizued to it by thuse who form them as of refinement by the disulay made in our ies; we mean the art of landscape gardening. $e$ highest style of art consists in cultivating ture in the best manner. No work of art is Hy beautiful which is not in accordance with ural laws, and no peuple can become truly ned who do not possess a taite for the beauof nature. The must sifted and cultivated ids have ever found delisht in rural scenery. the days of Augustus, when the Rcmans had ined to a state of civilization nearly equal that enjojed by us at the present day, landpo gardening held a high position. In the ins of Virgil we can almost fancy that we r the hum of his bees, the bleatiug of his ks and the murmurs of his fountains, as the $t$ sat at noontide under a shady bower, sing the sight of cultivated fields. The It Newton touk exquisite delight in his er garden, which was said to be the neatest II Engla, dd. The gracelul lawns and beau1 gardens attached to the mansions of the le and wealthy men of Europe are better ences of true refinement thas the monuts of marble, the galleries of paintiags and gorgcons temples of their cities. These sare now bemg appreciated by our people. the carly setiement of our commry, the sfle was severe to subdue nature in the st form, so as to obtain the fruits of the for the necessities of lifc. The beanties of as the kandmads of nature in rual celtimawere then held in abeyance to the rude pressing demands of necessity. But as a nal wealeh has accumulated, so has there a commendable search for enjorment in ational and elevated refinements of cultiranature. The late Mr. Downing, whose - and fame are world-wide, said, wrote, and much to spread abroad a taste for landscape
gardening, and he was eminently successful in his labous. Within the past twenty-five sears, especially, there has been a rast increase of general and individual wealth, and it alfords us gratification to witness a proportionate diffusion of taste for rural beautics. A recent short tour in some of the districts bordering on the Hudson river has impressed us most favomaly respecting the rrowing taste for the sublime and the beautiful in nature, combined with art. Go where we may, we behold grassy lawns, like beds of emeralds, surrounding stately mansions. Silver streams are trained to send forth their sparkling showers from numerous fountains; and the banks of our rivers are becoming as attractive for highly-adorned scenery as those of the Thames and the Rhine. We commend this growing national taste for the beautiful in nature, and exhort our people to indulye in it with persevering enthusiam. The climate and soil of the Truited States are most favorable for superior landscape gardening. We have lofty mountains, broad lakes, deep and noble rivers, fertile vales and extensive plains and au almost tropical veretation; and these certainly are natural advantages of the very highest order. American travelers in England used to speak with enthusiasm of the trim hed ${ }^{5}$ e rows, the neat fields, and the high style of gardening displayed on every hand; foreign traielers in America now admit that the national teste fur rural beauty is not inferin to that displayed in Europe, and that we are progressing to the attainment of the very highest position fur landscape gardening.-SCientific American.

## dorrespomicnce.

## Farming in Illinois.

Emitor Agriculturist, - A party of Canadians have just returned from an excursion to which they were invited by the oflicers of the Illinois Central Railway Co., and also of somo of the intersecting lines. All who availed themselves of the opportmity thus afforded them of explowing the novelties of the Far West camot have failed being impressed with the unlimited kindness and attention cextended io them by Mr. Austin, who on the part of the Mlincis Central, piloted them throuyh their journeyings in the prairies, and the mbounded hospitality with which they were entertained by the residents of the different locelities where they were enabled to make a pause in the rapid progress incident to railway travel.

The main feature of novelty which must present itsclf to :my whe visiting these prairie regions is the immense extent of soil of uniform compmsition. For lundreds of miles the agriculturist secs nothing but the richest decomposed vegetable mould of average depth of eighteen inches, underlaid by a deep substratum of very pure clay. This soil apparently has an unlimited capacity of producing Indian corn, and this
year the seasons having been most favorable to Illinois, as to most other portions of the Northern States and Canadas, nature wears her most smiling aspect. For miles along the railway hundreds of acres are to be seen covered with a most luxuriant growth of corn, some as high as sixteen feet. The varicty commonly grown is the Dent, or Horse-tooth corn, which I believe throws up but one shoot, while the labor of removing the suckers, as with other varieties, is done away with, and the gencral produce is but two ears to each stalk. The careless system of cultivation may lee imarined from the fact that 40 acres is considered a proper amount for one man to cultivate in a season. L'nder ordinary good cultivation the average gield is stated to be 40 bushels per acre, and this year it is set at 50 , though some pretend to export 80 and others even 100 bushels per acre of shelled corn. This year the price will probably be from 15 to 20 cents per bushel. The grain is always bought in the ear, and 72 lbs of corn in the ear is reckoned equal to 56 lls . of shelled grain. It is to the production of corn alune that the whole of central Illinois seems particularly adapted, the absolute deficiency of lime in the soil rendering it unfit for the production of wheat; and in Northern Illinois the want of snow as a protection from the frost, and the prevalence of keen biting winds which sweep unchecked across the country, render the cultivation of any but spring wheat very precariuns. In Northern Illinois lime is most abundant, lut further south the price of $\$ 1$ per barrel will for a long time be a bar to its general use for a sricultural purposes. This deficiency in the soil itself, and the general want of drainage are the great impediments in the way of farmes to a certain adequate return for his labor and will afford an easy explanation of the companative failure of the crops in $1 l l i n o i s$ for the past thrce years. A machine simuiar to the Euglish mole plough has been worked in some places, and will probab:y come into use in many more as a cheap means of temporary dranage; but in a country where the general level of the land is so complete a more carefu! system will be necessary to cusure thorough drainare, as it seems impossible to regulate the depth of the drain in passing vore any inequalities or undulations of sutace.

Withoutattention to draina of, famiag-especially in Itlinois-must be unreliabie as a prutitable pursuit. The general dificulty of retting the water away must prevent an early seed time, and the succession of a season of drought wil! entail a fallure.

Fery good water can be reached in many places by digging from 30 to 60 tret, but frequently boring has been resorted to for a depth of 250 feet. Great inconvenience must be felt for want of water for the large lierds of ratthe pasturing on the praitics, as there are fen....... rivers or creeks crossing the country, and the sloughs or water courses draw their supplies only from surface water, and therefnce fail as the season advances.

The price of land in the unbroken prain varies from $\$ 5$ to $\$ 20$ per amum. The aremg value of a farm in at all an cligible situation would be fifteen dollars per acere. The contrat price of the rather poor fence, usually built d posts and four six inch strips of boards 15 a dis lar a rod, which will come to four dollaspe acre for an outside fence, 160 acres in a square To this will have to be added the expense of house and any other buildings the settler mi consider necessary, which will all have to paid for in money, as no materials of any livis will be found on the land.

The val: r of improved land varies from $30 t$ 50 dullars yer acre. It is said that the ordina expense of cultivating and harvesting the ee is from $S$ to 10 cents per bushel; the avest yield 40 bushels per acre and price 20 cents ${ }^{5}$ bushel. There are three methods of harvestic: The most slovenly is perhaps not very mu practised at present-namely, when the co is ripe to tum the cattle into it, and a certs number of hogs with them to feed off the er in the ficed during the autumn and winter: Anuther process, and the most common, is drive directly through the com and gatheri ears frum the stalk and load them at once int wargun, leaving the stalls to be fed off by; cattle, and the corn is thus sold. The it methud is that used in the Eastern States, ne ly, to cut and shock the crop, and then dut the winter corn, stalls and all, are thrown wh to cattle to be fattened, two hogs being tur intu the yard with each une. In this manne is computed that one ox and two hogs will sume and fatten upon half a bushel of cor day. In this centres the business of illit namely the production of com, beef and $p$ and its capacity fui this seems mlimited, buwndless is the territory capable of being tiated for this parpose. The actual prot: production being of course ruled by the set each jear, though we doubt not as populatio: creases and capital flows in, more carefult vation and the all indispersable drainage erentually cusure a greater certainty of pion tivencss. As to the salubrity of the clit there was little opportunity of forming an: ion in so shurt a yeriod as that necupied br excursion. Thuse however whom the trare met secmed to enjoy the best of health. It snid that as the cumatiy gradually became vated the malavia disappeared in the praine, but that there was more sickness: neighborhoud of the few rivers of the co: and the wooded parts adjoining.

These observations are made by a Can who fully appreciates the richness of thess Ilmois; but it will not le suryrising to should compare the two countrics in a m: favourable to his own. One of the nosti: tant points is that there are immense quar of excelient well-cieared land in Canads to the best wheat producing lands of No: Illmois, which can be purchased for !es
c amount above mentioned, as the price of proved land in that State. The want of timi and all building material, the absence of ow in winter and the scarcity of water in sum$\because$, the seattered population, the distance from rbet and the consequently low prices of proce so far west, must in the opinion of i Canian tum the beam in fakor of his own welloded and more eastern domicile.
Hivaenford, August 12, lsge.

## Plearo-Pneumonia.

Somen Agmecimmist.-Observing that you ean menest in publishing anything that will ighten your realens on the Cattle Disease, ich made its appearance in Massachusetts last ay, I have concluded to place an article at r disposal, which you are at liberty to pubif yoi think it wurth while. There seems ie a di, ersity of opiaion as to whether Plenacumaia is contagious. Judring from the orts that have appeared in various public malis ve late, there cumld scarcely be a doubt to its epidenic character. The symptoms nding the discase-sinills or shivering, folded by freverish heat, shortness of breath, and ectoration-give it more the appearance of hnid Pneumonia, than of Pleuro Pneunumia: the pnst mortem appearances-suppuration, ratim, effusion, hepatization, gangrene, tuses, se., -are clearly indicative that it is hoid Preumomia.
he disease is simply a determination of bloud he lungs. The pleura, or jumer membene of ravity of the luags, would natazally becone a or loss intlamed, which is, probably the af of the term pleuro-pncumonia having been ind $t n$ it. Those that have seen animals we:e attacked with it, say, that for several precoding the attack, the animal pocesents Pymptom of fever; and in order to asecrwhifthre the above named disease is conta:n" not, it is necessary to find out the cause ress. Whey are produced by poisons, unihy tood, a superabundauce of healthy food, improper excrcise, impure water, vitiated wheicanliness and atmospheric vicissitudes. I contagions may also be classed among the ucing causes of tevers, aithough, as far as bservation and experience have extended, not eonsider that, where the predisposing is meationed above are strictly guarded nt, there is any danger of either fevers or monia being propagated by contact. Pneua in horses has been a common complaint sucighbourhood for many years, although ; never considered contagious. I will mena case in point. In Jume, 1556, I took one ar horses, and started on a journey of 40

When I had procecded about half that ree, Thalted, to refresh myself and animal; feeding my horse, I went to dimer, and on ung found him exlibiting symptoms of
pneumonia. I remained with him, and emploged the services of two Farriers, and notwithstanding we did all that they corsidered advisable, on the eighth day his sufferings terminated in death. I: returned home the next day, and three days after two others were attacked with the same disease. These were doctored as usual, and, after losing much of their flesh, recovered in about three weelis. The remaining one was equal in condition to the others before they were attack: ed: his feed was redsced, and a little attention was given that he had proper exercise, and he was not attacked. As there were no other horses in the neighburhood attacked with the disease I institated a thoroush investigation as to the cause of ours being attacked, and found that after breaki.g up our summer fallow, the hands that har the care of the teams had continued to fend them the same as when they were at work, while at the same time they had been standing most of the time ia the stable. I may here observe that for two years previously I had given my own attention to the care of the teams, and when they were not at work, gave them proper evercise, and the result was that there was not a sick horse of our own un the place daring the time.
It is much to be regretted that of the many reports that have been given of plearo-pneumonia among cattle, there is nothinir said about the habits to which the animals had been subjected. In many localities, and especially in Massachussetts, where the disease first made its appearaace, it is a common practice to keep cows shat up, suiling them, or feeding them on still slop, or the coarser hinds of grain ground and fermented, which without cxercise, would very soon riliate the blood, and thus produce discase. The object that owners of cons have in treating them thus, is to cause them to produce a large quantity of milk; but the evil effects of this pernicious habit were made painfully visible in the ce'elorated "swill milk exposure" which was so ably conducted by Frank Leslie, in his Mlustrated Journal, in the spring and early part of the summer of 1838.

In treating this subject, it may not be out of place to investigate the nature of disease. Disease has been defined by an eminent modern author to be "remedial efforl," or an effort of the vital or life principle to expel foreign or dead matter from the system. In order, then, that animals should be healthy, they should partake of no more food than they can assimilate, which should be of the hea!thiest kind to prevent contamimation of the blood. It is, also, necessary that the animal take enough exercise to carry off all the matter that is produced by the wear ald tear of thersystem. All the matter which has been used by the system and returned to the blood to be taken away by the depurating organs, the skin, lungs, liver, kidneys and bowels, the office of which organs is to protect the living organism by carrying off all forcign substances.

Now in view of the above facts, pueumonia is the result of previous violation, in which the system attempts to briog matters io an issue, by expelling this foreign matter or destroying the organism in the attempt. Or again: The system becomes loaded with foreign matter, the depurating orgaus all go to work to expel the enemy and protect the living organism. It is impossible, the abjectionable matter is not taken out as the blood passes through the depurating organs, in its circulation; but is carried back to the heart, which sends it to some of the inte nal organs-probably the lungs-which leaves the sarface without its due amount of the cisculating fluid, and chills are produced. The enemy is still present, and the heart pumps with renewed vigor, and sends the blood to the surface again, Which produces a feverish heat: this is a symptom of fever. Thus, things pass along with no change for the better, when at length the system changes its mode of operating, and sends a large amount of blood to onc place (the lungs in pneumonia) that the objectionable matter may there be expelled by suppuration, or what is commonly known as gathering or bealing, leaving the remainder of the system without its due amonnt of the circulating medium-the life giving principle-the blood, hence the surface becomes cold.
Now the question arises, what shall bo done? To which I would answer, equalize the circulation, but do not poison your chitie with drjgs.
Allow me to remark here, that it afforded me a great deal of pleasure to observe the article, which appeared in your valuable journal for Eugust, giving a description of, as well as the mode of using, the "Turkish Bath." A portion of the report, which was submitted by the committee appointed to inquire into the "merits of the Turkish Bath," I have seen fully verified, in sick people that were treated in a similar manner. It is as follows: "That the constitution is not impaired by the treatment with the bath as it is by any of the other systems with which we are at present acquainted." The committee adds, "and this fact is particularly illustrated by the rapidity with which, in every ease, the milk ahmost immediately returns on the animals beivg relicied fiom the discase." A neighbour of mine has adupted a plan of treating his sick animals, which he cunsiders very efficieut in cases of colic, \&C. It is to sponge the body with cold water and envelope it in blankets. This produces a reaction, by opening the pores of the skin, which imanediately relieves the iuternal congestion. This treatment in Pnemmonia would be presumptuous, as the lungs are so sensitive by reason of their peculiar organization. The T'urkish bath is peculiarls adapted to the treatment of pucumonia, as the object should be to draw the blood away from the lungs gradually, without subjecting the system to any severe shock. This I think mught bo done by the application of a heavy blanket,
wet in quite warm water, followed by a dryo The first would tend to draw the circulation' the surface, opening the pores of the skin, 湕 the second would retain the caloric, and establish a vigorous circulation. This establ's ed, let the blankets be taken off and as quid as may be, a couple of pails of cool na' dashed over the animal, to be followed ime diately by very thorough friction until nes dry, when it should be agrain caveloped blankets and placed in a romfortably mb place, which is well ventilated.
Indeed, there is little use of attemptiog treat pneumonia unless there is a good suri of $p u$ c air, with cleanliness in every resp. Thurough and continued friction of the extro ties is of untold bencfit in treating pneumo Another important point is to keep the anis fasting for some time after the more promir symptoms disappear, say from one to threedr atter which, commence by giving very $\varepsilon$ quantities of light food, increasing the quar: gradually for some days.
I would sooner trust to the starvation pit ple along with pure air and cleanliness, tha the most approved method of drug medical My apology for the length of this article is unfeigned pleasure which I should enjog secing the ruinous (to the constitution of lir beings) druy system superseded by the mors tural, and consequently, rational syster Hygienic medication. And the growing int that is felt in stock raising, with the cert. that it must continue to occupy a prominen: sition in arricultaral science, assures me the experience as well as the thoughts of one, however unpretending, may be of sen

Yours, \&e., Isamar R.
Pleasunt Hill, Port Hope, C. W., Aug. 16th, 1860.

## Queries.

Emton Agnictiturist, - The following jects hasing been brought before the : Gwilumbury and Georgina Farmers' Cle discussion, I have been requested to fo: them for insertion in your naper, hopineto. the bencfit of your remarks, or the opin any of sour caders who have had experie. these natters. It is certainly as a medi: promoting discussica that an agricultural is of mest service to a farmer.

## SUBJECTS:

Phaster used as Maxlre.-Any mode of analysis?
Is it deteriouted by age, if kept dry?
Does it prove as beneficial to cereals green crops, and to meadows as well as ci

How dues it act when ploughed in, cor with the dressing?

Are its good effects felt on the spcond
Which is the best kind for manure?

If whatagency does plaster act on the crop"? anama Tmesthe.-Best mude of destroying. s.i. Wheit. - Any mean, kuonn tu prevent be: as winte. -killed, by tyin dressine? or otherpang Whest. - Is it better to phomeh for in fall or in sprits, ia clay and in suady suiss"

Thomis Sibzatin.
Chairman North Guillimbury and Georicina Farmers' Club.
. B. -In the Agriculturist, Aurust 1st, I ce an article on the artificial formation of a ous, for strikin's cuttings, I would gladly be rmed as the best season for making the exment in our latitude. J. S.
erhaps some of our correspondents will be ging enough to furnish answers to some of above queries. In regard to the latter tion, we believe the operation is performed be winter season. It requires a forcing e, with a moist atmosphere, and a bottom of about 70 degrecs. When the callous is ed, the cattings are placed in sand, and put jin a cool place till required for setting

## The Provincial Exhibition.

r. Ebrror,-If it is not too late, wouid it ce wise to give prizes on the four best loads ar, ineluding the quality and the loading. so on the best four loaves of bread made :e families of farmers.
ce there is no prize offered for the Red c Mangel Wurzel.
that an omission, or are they excluded?
S. King,
man's Corners, C. W.
giust 18, 1860.
ay article of home production may be en-
for exhibition, although not enumerated in rize list. Loads of hay, however, we should rather too unwieldy and bulky for the incial show ground. Such a prize may perbe offered with advantare at a county or bip, or village fair. Red Globe Mangels -ot meationed in the prize list; why; we do now, but they can be exhibited as extias. -

## Agricultural Jutelligence.

$\varepsilon$ Stiam Piow.-The State Agricularad y of Illinois offers a premium of $\$ 1,000$ f brst steam engine that can be practically tuted for animal power in plowing and farm work. This prize is simply for a incomotive which may be applied to do
general work. Ir is expecied that several of such ea, ine., will he entercal for competition this jear. Afuch dissatisfaction has been felt. heretufure, with the actiun of the conmitee of this society in not awarding the full prizes at the furmer eshihition of Fawkes' plow. We hope nu cause for such blame will be allowed to rest on the Committee in premiums at the next fair.

## State and Provincial Fairs for 1850.

Alabama, . ....... Oct. 29 to Nor. 2.
American Iustitute,
at Palace Garden,
New York... ..... Sept.
25.

Califurnit, . . Sept. 1!, 20, 21, 22, 24, 26 .
Georgia, at Augusta, Oct. 22, 23, 24, 25, 20, 27. Illinois, st Jackson-
ville, $\ldots \ldots \ldots \ldots$. Sept. $10,11,12,13,14$. Indiana, at Indiama.
polis,.............. Oct. 15, 16, 17, 18, 19, 20. Iowa, at Iowa City. Oct. $2,344,5$. Kentucky, at Bowl-
ling Green, ....... Sept. 18, 19, 20, 21, 22.
Maine, ............ Sept. 26.
Maryland,.......... Oct. 30, 31, \& Nov. 1, 2.
Michigan,at Detroit,
Mimmesot:a, at Fort
Snelling, $\ldots .$. . Sept. 27, 28, 29:
Nississippi, at Holly
Springs, $\ldots . . . .$. Oct. 16, 1T. 18, 19.
National Pomologi-
cal Suciety at Phil-
adelphi:1, $\ldots \ldots$. Sept. 11, 12, 13, 14.
Nebraska, at Omaha, Sept. 19, 20, 21.
New-Hampshire, at
Manchester, $\ldots .$. Oct. 2, 3, 4.
New-Jersey;at Eliza-
beth, ............. Sept.
$\begin{array}{lllll}\text { New-York,at Elmira Oct. } & 2, & 3, & 4, & 5 .\end{array}$
Ohio, at Dajton... Sept. 25, 26, 27, 28.
Oregon,........... 2nd Tuesday of Oct.
Pennsylyania, at
Wyoming, ....... Sept. 25, 26, 277, 28:
South Carolina, at
Columbia,........ Nor.
$13,14,15,16$.
St. Louis, Mechani-
cal and Agricultural
Association,...... Scpt. 24, 25, 26, 27.
Temessec, at Nash-
ville, ............ . . Sept.
10.

United States, at
Cincinnati, ....... Sẹ̣t. 20, 21, 22, 23, 24, $25,26,27,28$.
Tpper Canada, at
harvilton,. . . . . . . Sept.
18, 19, 20, 21.
Dramisg.-The first indispensible requisite to success in enabling the farmer to command his seed time and harvest, with clay land, is underdraining: this is the great panacea against winter-kii and wheat midge. The life and lifhtness of the land, thus prepared, will give the wheat plants such a start in the fall that they will corer their roots during the wis
ter as a prutection against frust : the absence of standing water will present winter-hill, the early warming up of the soil in the sprint, will get the plants forward so thes will cuiter the ground before the heat and drouth of eally summer comes on: and lastls, the fueld is in vigorous head before the midge wahes up, so that the little pest gets only the cutside portions, or scarcely none at all. In very fas utable seasuns, with skillful handling, these lands may and du yield abundant crops; without undendraining, but it is an even chance jou luse your labor: while with underdraining and utherwise goud handling, the land is rood for thintriise to fifty buskels of wheat per acre, cuery time.-Ohio Cultivator.

Komi Rabi- My success in growing heavy crops of this ruct for some years unon $\mathrm{p}^{\text {mor }}$ soils, and more particularly their podnese this year in contrast to the general failme of Swedes and Turnips from the summer drought, induces me to bing its valuable qualities to mose general notice. Many of your readers may be unacquainted with it, and I therefore may mention that it is grown largely in the north of Europe, and found to stand its severe frosts, and being raised in beds in the spring, and transplanted out in May and June like Cabbage plants, it is not liable to the casualtics that Tunips are e. posed to. It partakes of the form and qualities of both the Swede and the Cabbage, that is to say, it has the leaves of the feld Cabbage, with a bulb very similar to the white Swede. It is a mative of Germany, very hardy; withstands frost better, and affords more winter cattle-food to the acre, in February and March, than aus rout that I am acquainted with. I have tested its feedin: qualities against the Snede, and am disposed to think for shee;, and more particularly for couples in the spring, it is superior. They certainly prefer it, hares and rabbits piek it out, and are attracted to it from lung distatces. The bulb grows above grvunl, and is come at able in frost, and when the ground is covered with snow. It is very sweet and juicy, and the leaves are excellent picking for young lambs. There are two sorts, namely, the green and the purp.c ; the former affords the greatest produce per acre, but perhaps the purple is the most nutiritious. My practice is to prepare a seed-bed in winter by well dressing and digging in a corner of my earliest piece of tates. The seed is sown the cad of February of carly in March, thinly in rows 12 inches asunder, the beds are kept perfectly clean by locing and hand-weeding; and as the Tares are cleared off in May and June, the ground is deeply ploughed, idired $u_{i}$, dicesed and planted. The plants, at the first putting out, are placed 3 feet apart, the ridges being 2s inches asunder; but as the season adrances, and the opportunity fur teaching a swall size dminishes, the distance between the plants is lessened. The value of this root, I assure your readers, is very considerable in any year, but more particularly after a dry summer, when most
other winter food is scarce, or in severe weak when the land is covered with snow, and 1 Turnips are buricà out of reach of sheep. I, very furtunate this year, when Turnips hare gencrally failed, ha: i.'. on cach of my farw consideralle bicadth; and I so much approre it, that I intend never being without it att scason. Lean stucl, after such a season as lave just had, always scll low in the auter ficm the prosiect of a want of winter bee "hiic fat stuch, in the fullowind sping, sello high, su that a ciop of this description is 5 prefitable in seasons when Tumips fail. E a field of 10 acies, brcken up from heathl year (pait of Bagshot Heath,) I have ati time more winter food to the acre than is $\alpha$ monly grown on good soils in favourable sons from any other 1oot-this, too, hast raised without the aid of any purchased man: and on land hitherto supposed of no value: incapable of retu:ning any produce pasing cultivation. My nest attempt there will bei or Barles, and I have little doubt of a cro; corn.-Feb. 1s.ts. Hewitt Davis's Prad: Essay.

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## Memoranda for September.

## The Kitchen Garden.--There is not as

 deai to be dune in the ve;cetable depart this month. Celery should be earthed up 1 fully in dry weather. Prickly spinach fors use may he sown to advantage. Early po: hept vier for sted should now be dig, and fore being put away exposed to the sunt tew days, which will cause them to spre spring considerably earlier. Onions shou' tahen up and well dried before being puts All seeds as they ripe:t should be carefully: and cleaned out. The ground, as usual, be leppt clean, and esnecially weeds pres: from ruming to seed.The Fisur Ganidex.-The work in the garden and orchard at this season consists cipaliy in gatherin ${ }^{-}$in and making uses fruit, which dues nut acyuire much advice. prematurely falling, diseased fruit, hor should be carefully gathered up and be uthernise destroycd. This will aid gre: checking the increase of insect pests.

Tae Fiower Garden:-In the carly this month precaration must br made fi housing of green house plants. Previnus: being done, let the room or green hot white washed with lime, which will prove cious io insects, and prevent their gene
af the plants. Chrrsanthemums should be 15 tied up to small sticks, and watered occaIls with liquid manure, to promote their oming in full perfection. Those in pots dea to be protected for late flowering, id be watched and taken in, on the appearof a frosty night ; they may, howeve:, be sed to the air as much as possible when it tand salubrious, as should all other half plants.
e following remarks of Breck in "The er Garden" on the cultivation of Plants : parlour, will be found useful and interestspecially to our lady readers:
choice collection of plants in the sitting or parior will add much to the charms of : but as we often see them, weak, stragdrawn up, crowded to rether, and infested nsects, they rather give pain than pleasure. his state, the clear sunlight through the $w$ is far preferable to a congresation of earthen pots and saucers, with their occupants. Judging from what we too ee, cultivators in parlors have very crroideas of what is necessary for a perfect ment of their plants. In fact, the plants en killed with too much lindness; too eat, too much water, want of light and $d$ want of water, are the gencral causes sickly state of plants, which have often mudey our notice; to which may be added, ble compost or mould. Saucers under $s$, if water is suffered to stand in them, rious, but necessary for the sake of neatrever, therefore, suffer the water to stand 1, nor to be poured into them. The should always be given on the surface, ier water unless the surface is dry, and a moderate quantities, for most plants. ater only should be used, and that of a mperature, but not warm. When water sary, it should be applied in the morning Id sunny day.
ring with guano water may be resorted timulate the plants occasionally; but an it will be injurious, if not destructive. spoonful or two to a pail of water will gig enough; this may be used twice a
uscless to expend time upon plants in rhere the windows face to the north. outh-east, or south-west exposures are ; of course a south window is the very it admits the sun all day.
is more important than great heat; inats are frequently ruined, for all ormaurposes, by keeping the room excest. The hot, dry air of most sittingthe present day is so injurious to the , as well as some other plants, that it ly be made to flower, as the buds will ong before the time of flowering. But

I have seen as fine blooms of the Camelliain an old-fashioned sittintroom in the country, as I bave in the grecn-liuse. The roum was so cold at night that the thermumeter would fall nearly to liceezing, with a plenty of air from the old window casements during the day. A good temperature for the Camellia is a range of $40^{\circ}$ by night, to $60^{\circ}$ dutins the day. I do not mean to be understood that this slould be the highest range in the sum; but at the back side of the room, in the shade. This temperature will also do for most plants; some will thrive better with a higher range, but their cuhtation should not be attempted in a sittingroom.
Where there is too much heat, and not well exposed to light, the plarts will spindle up, and make feeble, sickly grow th, and it they produce flowers, they will be so weak and pale as to excite the pity of the beholder.
Thless the pots ate turned every day, the plants will grow one-sided; every plant should receive as much light as passible.

A stand for flowers should have ruliers attached to the leas, so that the plants may with the least trouble be turned rourd to the light, or wheeled into the middle of the room at night, when the weather is severe."
J. E .

The Apple Tree Boner.-We copy the following from the corresjondence of the Rural New Yorler :-
Inclosed please find a yenuine Saperda bivittata, or Apple Tree Borer. It was taken from an apple-tree in my orchard, and is transformed from an ugly grub to the perfect insect, and is. well fitted to choose a mate and go out in the world to propagate its species. This insect is. so extremely shy in its habits, that it is seldom seen or captured, and this is only the second one that I have ever seen in the winged state. I would urge upon every one who is the owner of an apple orchard, the sital importance of waging a war of extermination against this insect, which appears so small and harmless, yet actually does more harm to the apple than all the other insects in America.

I have a fine apple orchard, about fourteen sears planted, which I manage to keep pretty clear of the pest, by giving the trees a thorough examination in May and in October ; and tosharpen the sight of the "boys," I pay for the first grub twenty-five cents, and five cents each for all the rest they capture, and you may besure that they look pretty close after them.

We remore the carth from the collar of the tree, and then scrape the rough bark off; and if a dark spot is found, it is closely examined with the point of a stout knife. Sometimes. they are just under the bark, like the peach grub; but generally they make a burrow in thesolid wood, by cutting one-fourth of an inch in, and then working upward. Sometimes we find them about a foot from the surface of the-
pround, but not often. In an archard of about five hundred trees that we examined this spring we caught only fifteen grubs.

Old trees are sometimes so cut and parforated that it is impossible to get them all out without destroying the tree, which is the best way; for if one tree be left with a few grubs in it, it may be the means of stocking the whole orchard with them. Ny observation of the habits of this insect, hats satisfied me that it does not travel fist, and persons who phant good elean trees in a locality where there are no grobs within a mile, may not be troubled with them for a life time; but don't phant trees unless you examine them well before you plant, as they are often sent out gratis with the trees.

Grape Mancres.-Stroñ or stimulating manure is most dan gerous to the vinous property of the Grape. The general rule in wine producing countries is to manure only with its own cuttings, or the refuse of the grape when press. ed, which contain tartar, cssential to the vinous property of the grape. Excessive richness of the soil, though it gives a larger crop, and the best fruit for the table, detracts from the character of the wine. There hare been several remarkable instances of this fact; amonrş̧t others, the celebrated vineyard of Johannisberg, which some fifty years since having been richly manured, it for several years afterwards produced a grape which gave wine of an inferior character, and much deterioated in qua'ity. it took twenty years before the suil became sufficiently poor to restore the vinous quality of the grape. Soils which produce choiec and rare wines are never manured with any description of fetid manure, generally applied for the purpose of fertilizing land; but wool, horn, bones, and the cuttings and refuse of the vine itself, being only usted. The scientific botanist tells us that the vine only talies up from the earth carbonic acid, ammonia, ete.: practice and experience, both ancient and modern, -uffirm the contrarr.-Florist and Fruitist.

## Suckers in Apple Orchards.

The remark is often made, that the suckers of apple trees used to graft stocks in, are apt to produce suckers. This is only true so far as those particular trees which sucker most abundantly are apt to be selected from which to obtain the sapply, and of course the new stocks have the :same peculiarity. Suckers should never be used for stocks; but if they are, they should be talsen from trees producing the fewest. To clear sackers from orchard trees, they should not be cut off, for ness shoots will spring from every stab left. The right way is to keep the ground smooth, mellow and clean; and then about the middle season of growth, or during the first half of summer, put on thick cowhide boots and stont buckskin mittens, seize one sucker at a
time, placing t:e boot upon it close to thet give a sudden jerk with the hancs, ardit' be torn out root and branch, leaving notw An occes: :anal rejetition of this proces. keep the orchard clear. Suckers nlwasge slovenly appearance to an orchard, and st not be suftered to grow. They also faro: depredations of the borer.-Country Ge man.
=2:- $\quad$ -

## Aliscrllainents.

Coffee.-The consumption of coffee is mated in the following manner:- -l'he wh: North America consumes $337,500,000 \mathrm{lbs}$ ing in the largest proportion. France, Sr land, Spain, Italy, Portugal and adjr islands, consume amongst them only 209 000 lbs ; Germany, including Austria, 292 000 lbs.; Holland and Belgium, 142,56 lbs.; Denmarh, i.reden, Russia, Finlar? Poland, only $75,000,000$ lhs. among ' owing, probably, to the fondness of the thons for something stronger. Great $P$ and Ireland consume about $60,000,000 \mathrm{lhs}$

Anericar Institute Finb.-The thi cond annual fair of the American Institur be held at the Prlace Gardens, in Four street, this city, commencing on Tuesday tember 25th.

American cotton manufacturers have : most profitable business during the past and their prospects for the future are als encouraging. The anticipation of good crops from all parts of the world is a the manufacturers of England in a surf manner. In Lancashire, about 40,000: operatives are wanted, and in the small facturing district of Bury, no less than: cotton factories are now being erected.

The Idea of Fire huoxg the Asci. According to Pliny, fire was for a lo. unknown to some of the ancient Egyptiwhen Exodus the celebrated astronome: ed it to them, they were absolutely in $r$ : The Persians, Phœnicians, Greeks, and other nations, acknowledged that theira were once without the use of fire, and nese confess the same of their proge Pompanius, Mela, Plutarch, and other authors, speak of nations who, at the ti wrote, knew not the use of fire, or had learued it. Facts of the same kind attested by several modern nations. Th itants of the Mariana Islands, which covered in 1521, had no idea of fire. was astonishment greater than theirs, ${ }^{\text {B }}$ saw it on the descent of Magellan 0. their islands. At first they believed it. kind of animal that fixed to and fed ut. The inhabitants of the Phillipine and Islands were formerly equally ignorant. presents even in our own day, some i this deplorable state.
rem Grass.- $\Lambda$ correspondent sends us the ming dialogue, which took place in a cornjust as stated, all but the names: igabur-Good morning, Mr. Howwellscorn, I see. What has become of all the -grass that was on this farm when you bere ? While Slackwheell lived lere he ' more quack than anything else, I be and it was called the most quackey furm d.

7wwell-I smothered it. reatos-Smothered it-how? nwell-I plowed it from eight to ten deep, then cultivated it with a two horse cultivator, and planted to corn. If corn tended, your quack will disappear, and if ish to make summer fallow on quackey J, plow but once. Quack grass, if turned same season, will grow again, but if kept the ground, it will die.-Rural New т.
S. S. Blodgett, of Ogdensburgh, N. Y., to the Dental Cosinos, condemns the fine charcoal as a tooth powder. He ashat it is as sharp as diamond dust, and cars off the enamel. He says:-"The 'entifrice that should be used it all times, der all circumstances, is soap. Its alka perties serve to neutralize the acids conin the fluids of the mouth, and its proper$\|$ correct the breath and remove offensive courr than any article I have ever seen

## đransartions.

Continued from payc 416.
settlers could now supply themselves he necessaries of life from the mill store, and the roving and dissipated the soldier was forgotteu in the staid or hahits of the hard worising farmer. of a more adventurous turn of mind s would man a boat, and ascending rf to Oswego, take a circuitous route and by river, and betimes carrying vat shoulder high for miles at a tinally reashed the green valley Mohawh, dear to them still in mend returning brought such articles handize with them as they could t. aud providing theins lves with a at Carlion Tsland they swiftly gli$n$ the river. As yet there were no

A good old German, hoverer, lame we cannot recal, gratuitously is time in going from house to aching tro weeks at a time in difeighborhoods, where the children ted and received such instruction
as the limited time afforded. Befora the close of 1792 they had erected two chuyches, and thus a neve cra dawned upon the happy little colony of U. E. Loyalisis.
[After sketching the laws, martial and civil, by which the district was governod in its early days, the report proceeds:]

Intelemediate Histony.- From the year 1890 to the prescnt time, the histury of the County of Dundas is aimply the history of Cuada, and it is at leust satisfactury to know that the progies and iuprovements of the County have kept pace with the prosperity of the Province as a whole
The rar of 1812 found its inhabitants as lnyal as of yore, and at their country's call they donned their armor once more and marched against the inviders of their country. The Militia of Dundas were ever fuund in their right plane when their service were required. A detachment of thear wtre, in the engage ment of "Crssler's Farm." Anuther remained to prutect the town and fort of Prescott when the regulars weat in pursuit of the enemy-in 183i they were again called ont to quill the Rebellion, and six companies of the Duudas Militia under C.l. Crysler, numbering 350 men, were present at the battle of the Wind Mill; these wcre enrolled and under duty fur sis months at this time. Since then the peace and prosperity of the Country have beer uninterrupted.

Hindrances to Agrtculture.-The extensive operations in lumber cunsequent. upon the clearing up of a now and well timbered country resulted in a state of matters very unfavorable fur the progress of Agriculture. Haviag spent the winter in the woods the farmer had to spend the greater part of the summer in conveying histimber to Quebec. The farm was neglected, and as he could uot raise even provisions enough for his own use, he was forced to apply to the storekeeper to furnish him, which he readily did at his own prices, taking the timber as security for payment. If at the end of the year the backwoodsman made ends meet, lie had reason to be thansful. The majority however came out. on the wrong side of the ledger, but the indulgent storekeeper was as accummodating as ever and was perfectly satisfed with a mortgage on the farm. In nany cases the: enubarassed farmer, still clinging to the hope of redeewing his farm, ewbarked with renewed energy in lumbermaking; this time it was.
to " make a spune or spoil a horn." In a few eases they were successful; in many instances che farm fell irretrievably into the hands of the merchant. The intimate and seemingly necessary connection existing between the lumberman and the merchant induced the long credit system which is now however fast disappearing.
At a more recent period and previous to the completion of the St. Latrenes Canal, the farmers of Dundas oceupied much of their time in conveying goods and passengers from Cornwall to Prescott. The yeully increasing tide of emigration all bound for the West gave constant employment to as many teams as could he spared. This to a certain extent tended to divide the attention of the farmer from Agriculture again, but being a ready pay business it mas found to be much more profitable than the lumber trade, the material for carrying on which were now becoming searce in the country $\}$ and even for some time after the Coruwall Canal was finished all upward bound vessels had to be towed with horses from Dichenson's Landing to Preseott. The final completion of all the canals in 1847 and the introduction of porerful steam tugs removed the last hindrance to the progre:s of Agriculture, since which time it has received the undivided attention of the inhabitants and lias proved by far more profitable than any of the enterprizes in which they had hitherto engaged.

Trusting that these few remaks rupectivg the settlement and early history of the County of Dundas may not be without some $d_{l}$ grec of interest, at least to it:s inhabitauts, we now proceed to deseribe it in its different phases as it now appears, noticing them in the following order: Its soil and climate, system of farming pursucd, agricultural productions and products of the forest, l.hburers, implements of husbandry, commelec and manufactures, animal, vegetable and mineral features, relig̣ious, sosial and political aspects.

Soil and Climate--The soil is varied, chielly however of rich loam, varying in depts from 6 to 18 inches, restivg upon a substratum of bluish marly clay. It may be described for the nost as level, at least with little more inclination than is necessary for carrying off the surface water. In some parts towards the centre and rear of the county it partakes more of a rolling character, but in no place does the land
rise to any considerable elerations. interspersed with numerous swale an lands, not ". sufficient extent to entitlet to the name of swamps, and differio: portantly from thes", inasmuch as they all capible of draiuage. In most where the swale has been cleared a timber, a single ditch through the e sufices to carry off all stagnant water, the land is found to be of the riche most productive nature. These sma? well as the other lands are compari' free from stones. On the contrary whe land partakes of a rolling nature we w: find the surface freely covered with boo A fevy sand knolls seattered throus country, barely suffice to furnish n : for brick making and building purpos:

In addit:on to these swales, whis always hearily timbered with eln an there are three cranberry marshes of derab'e estent. The largest is situs Winchester and covers an area of abs: acres. These marihes, situated in at wooded region, themselves destitut single tree, save here and there a s: spruce, present a rery siogular and io ing appearance. They are complete! ered by crabberry bushcs and are re:o by swarms of busy berry pickers at . son when they are ripe. The soil is: muck not unlike the peat moss of Se The marshes are inundated exch spri: are quite dry again in summer. Th. es froun accidental causes or otherw burnt off every fer years, the fire ss every trace of regetation clean befo: in the prairies. The succeeding: young bushes is generally most proli.
As has already been mentioned, ebo:ce market timber, such as Oak, P? Elw, luts luag sioce disappeared, r : stuups; especially of the Pine, remair vincing and lasting monument of the sions of the hugo denizens of the Here and there are to be found enil trees of inmmense size, cut 60 years masts, which for a slight flaw had. jecter, mostly quite souvd. These verted into saw lons and shingle ble: the meantime the beech and maple which by a law of nature seew to: the coniferous species, have grown stately trees, and another mine of has been sprung, affording winter tion to the farmer in cutting cord $n$ drawing it to the river. The his
:a ready market in Montreal and the wd supplying fuel for railrays and ens.
ure is also abundance of cedar used for fences, and also as floats to convey frd wood to market. Hemlock and soceupy sandy linolls; and whererech and maple thrive we are sure of gan excellent soil and espccially : daptwheat.
dlay of the county is not esteemed od for brick making, being slightly mith fragments of lime stone, which leined in the process of burning the and subsequent exposure to the rmakes them liable to crack. Most brick used in the county is brought 'ultssille in Stormont or from Wad$n$ in the U. S. immediately opposite. re is abundance of good building n the county, though not very equally ated. The quarries are chiefly in the and rear. The stone is near the in layers of from 6 to 10 inches, is 1 grey limestone and is sold at the for $\$ 150$ per cord. Commoi: field itable for rough purposes, is delivany part of the county at $\$ 200$ per nd well burned lime at 20 cts . per delivered.
soil of the county upon the whole is ly adapted for pursuing the mised of husbandry. Wheat, corn, and are here successfully cultivated, is equally well adapted for the coarse grass and roots.
dimate may be fairly stated to be a cmperature between Momtreal and ; the extreme of heat and cold being ere than that of the former, while a cantinuance of snow in the spring agricultural operations 10 days or ${ }^{2}$ tter tha: in the neighborhood of the
"Oldest inhabitant" says that the is less severe since the country has re generally cleared up. The winie been shorteued at boih ends, se clearing up of marshes and wood$s$ at once admitted the fresh air, iminished the number of misquitoes $r$ like pests, and rendered the whole healthy and pleasant A few facts ction with this are not without inid will bear us out in these remarks. :census of 1852, the population was the number of deaths in oine ycar
6.4 , beine a ratio of 1 death to 216 living, a ratio far more farourable to our County than any portion of Canada or the United states, with tro exceptions, and singularly enough these two are our next door neighbors in Sormont and Russell, the ratio of the former being 1 in $\geqslant 40$, and the latter 1 death for $2: 20$ living. The next below us being a third neighbor, Carleton, 211. Addington and Keut of similar population are respectively 1 in 98 and 1 in 84 , while in Maine, U. S., the ratio is 1 death for 77 who survive. We may here state that the oldest inhabiTANT is no imapinary personage, but a most intercsting old lady, Mrs. Coons, residing in Iroquois, now in her 9tth year, and in full possession of all her faculties. Peter Shaver, Esq., is one of the eldest male inhabitants, now in his Stth year ; both these have a rery distinct recollection of the first settlement of the Couvty, and of the trials and difficulties which followed. We mention their names particularly, because to them we are largely indebted for information and for substantiating certain dates which will be hereafter mentioned, possessing an interest far beyond the limits of the County.
Irrigation--The County of Dundas is well watered. In front is the noble St. Lawrence, here averaging a breadth of nearly a mile and a half, and of great depth. The current is swift, with an avcrage speed of 7 miles an hour, and from its purity and softness, is generally prefcrred for all culinary purposes. The Rapid du Plat shoots past the centre of the County at a rate of from 10 to 12 miles an hour. In rear it is watered by the Petite Nation River, with its numerous tributaries, and in addition it is intersected by small creeks in various parts of the County ; these are fed by springs and swales, and in the spring and fall, assunse large dimensions, giving motive power to numerous creek mills, which, though only in operation for from 3 to 4 months in the year, are nevertheless a valuable acquisition to those living in their neighbourhond.

An abundant supply of excellent well water is found all over the country on reaching a depth of from 15 to 25 feet. Besides this, numerous springs are met with, affording the fortunate owners an inexhaustible supply of pure water without any trouble or expense on their part. There is also in Winchester, a mineral spring, similar to the celebrated Massena Spring, and held in some repute for its medicioal qualities, but as no
hotel has as yet been built to accommodate visitors. it is not much frequented, except by those living in the neighburhuod.

Upon the whole then, we cannot describe Dundas as othersise than deciuedly fivourable, in regard to soil, climate and water, for the sucec-sful practice of Agriculture; while its geographical position, aud fateilitics for reaching market in summer or winter, are ecarcely equalled, certainly not surpa-sed by any other county in Upper Canada.

Ruans.-Within the past ten years the roads of the County have undergone a vast improvement. During the list four years the large sum of $£ 5,57719 \mathrm{~s}$. Sd. has been apportioned to the County fron: the ClergyReserve Fund, secularized in 1N56, and this was all expended on ruads, and con iderable sums continue to be annually applied to the same purpose by the several Musisipalities. The re-ult is highly satisfacto:y. Remo:e parts of the County, forme'ly all but inaceessible, are now casy of acc.ss. In-tead of toiling through the mud, knce deep, 'or bumping over the rough corduroy, dre dines a break duwn at every stcp, and arriving at his journey's end much in the condition of a rat from a terrier's mouth, the farmer now moves along swiftly aud aristocratically in his light spring buggy, or with his wagon load of grain, with ease and comfort to himself and his team. The value of lands in the rear has thereby increased ten fold, prccious time has been saved, and wear and tear proportionably diminished. Abundant supplies of the very best quality of gravel if: road making are found in various parts of the Ounity, and much of the Statute Labour is absorbed in placing it on the roads.

The highways in the centre and rear of the cuunty, being generally nearer the supply, have improved proportionally faster than the front roads. With the exception of two, one built by a Corporation, aud one by a Joint Stock Company, our roads ale all free from the nuisabec of the toll grate.

System of Farming.-In carrying out ear programme, we would now advert to the system of farming pursued in the County. We must confess to a certain measure of hesitation in dealing with so important a matter as this, and, however much our incliastion might lead us to lec your Board form their own opinion from the statement. to be submitted, we feel it to be our duty as Directors of the County Agricultural Suciety
at this time to speak the truth, the truth, and nothing but the truth.

We fear our system can scarcels be wise defined, than as the absence of at tein at all: to take from the eoil all: jield and to return to it no more than sity emupels us to do. We do not by despair. We derive strong cousolatio: the fact, that in this respect we are no worse than our neighbors in otbet lies, and further, that, whilo the. holds good applied to us as a whole, even now not a few excellent, syst and, as a result, money maling ! amoug us, and we shall endeavor : before you the system, be it grod successfully pursued by them.

It may be premised that as a gens it is fuand to be disadrantageous to much upon any one thing, the gre variety, the greater secmiug success.

We shall have nothing to say of it woodeman, manfully struggling to the mighty furest, which in some plac: alaust to defy the cffurts of mortil subjugate it to his use, and at th time cuntending with purerty, nol cult to be overcome; we look for no defined system at his hands, but art that he should take it just as it co: and make the most of it. It is ts settler on his well cleared farm that look for information on this head.

The following system is pursus: of our best aud most successiful evidently the right man in the rig the President of our Aericultural His farm embraces 500 acres, whe are cleared. His whole farm is with cedar $f$ nees, proof againstall by which means bis cattle have the and unrestricted privilege of roamine the woods, wilh all the benefits th pertaining.

Of his cleared farm 120 acres ar to pasture, 100 acres to meadow, 2 tillage. His stuck cousists of 20 m 6 working hors $s$ and tifo brood m 60 she ep. He makes from 10 to of summer fallow every year, to applies all the manure made upou and as much more as he can pru. the neighbouring Village of $\mathrm{M}_{0}{ }^{\prime}$ The pruportion of different grains is entitely by the adaptation of the fields entering into his rotation. cach year a certain portion of fall
ad carefully avoids running into ex--- He ascribes his sucsess mainly to frersity of his productions. He cmchesp labor, say three at $\$ 8$ per month egear round, and keeps a sharp look on them; he geuerally has an appren:tro, who work gratuitously, and are f with $\$ 1^{\prime} J 0 \mathrm{nr}$ so when they come of In hay and harvest time he employs 6 best men that can be had, at from 75 c . per day. At these times he cin cont to be important to be strong-handed, mass takes time by the forelock. IIe to cut his clover hay in the end of and by the time the timothy is ripe, it down in the morning, spreads it mediately, and puts it in the barn beght. He uses a horse-rake, but mn and the greater portiou of his grain shes with the flanl, just as it is refor his cattle. He raises 8 calves, is as many head of cattle at 3 or 4 id; troo colts at 4 years old yield him $\$ 100$ each. He has his own wool to cloth for his own wear, eats his ton, and has always some to eell. neither Ayrshire cows nor Clydesdale but has great faith in both, and will first opportunity to get into these
gges a war of extermination against siaru, thistles, and quack, and very :o his crops disappoiat his expectale has 8 wells with chain pumps, ps his cattle trough always full of nd supplies them with abundance of sumwer. All his grain is freely it is stowed away in the barn, and is highly relished by his cattle in lis brocd mares run on the stray s suckle their cults all winter until $f$ April, when the colt is weaned $\downarrow$ for. His cattle are fed in winter with a very little hay, and neither griin, and in spring never need to

He carefully removes all surface $t$ does not underdrain his land ing is profitable, but hay excels His average return of hay is 1 ? cre, his maximum 2 , and his minin. He sells largely every year of average price of $\$ 10$ per 2000 lhs the average yield of hay for 1859 कhole County to be not exceeding acre. He considers roots too exud his principle is to keep no more he has abundance of food for.

This is his usual rotation of crops:On IIcavy Rich Land.

1. Summer fallow manured.
2. Wheat.
3. Corn and potatocs, no manare.

4 Barley or peas.
5. Oats
6. Summer fallow manured.
7. Wheat seeded to grass.

On Lighter Soils.

1. Summer fallow manured.
2. Corn and potatics.
3. Barley and seeded.
4. Grass cut 3 years.
5. Pasture 2 years.
6. ''eas follorred by fallor.

The following treatment of old meadow: is found successful in his hands:-Break them up in the fall, summer fallow ensuing summer without manure, and seed duwn in A ugust without a crop. He generally geta $1 \frac{1}{2}$ to 2 tons from the first 2 crops. To every 10 bushels of timothy sown, he adds 120 lbs . of clover, and sows $\&$ bushel per acre of the misture. If his cattle canno', consume the aftermath; he cuts a second crop of hay He opines that grass seed is generally suwn too thin, that farmers are too careial in extirpating weeds, that practical: farmors coork too much, and that geatlemen farmers oversee too little. It is a mystery to him to hear intelligent and industrious men speak of farming as unprofitable, and the summing up of his evidence leaves no doubt in our minds that his system payst which he corroborates by the following fig-ures:-In 1832, he went on to a farm of 250 acres, with 2 horses and 2 cows, and $\$ 400$ of debt. In 1840 he pu.chased 250 acres adjoining, for which he paid in cask down s4000. Un to 1860 he has spent at. least $\$ 4000$ casn in building and fences, besides other large improvements. He has cleared for the last 20 years more than $\$ 600$. per annum, and has now $\$ 10,000$ at interest. at 10 per cent. He values his farm at $\$ 14$,000 , and is quite satisfied that it yields him not less than 10 per cent. pir annum clear of all expenses.

Dairy Farming.-Dairy farming js not extensively practised. We have but one in: the county who devotes exclusive attention to it. His farm extends to 300 acres cleared, of which 150 acres is in pasture, 50 acres in meadow, and 100 nuder tillige. He pays an annual rental of $\$ 450$, or $\$ 1.50$ per acre;
keeps 50 coms he values at $\$ 35$ per liead; he makes annually 230 cheeses averging 60 lbs. cach, which he sells for 10 cents per 16 . He raiser 13 calvas and fattens 6 pigs, butl. are chiefly fed upon whey, and disposes yearly of as may ohd cows as he can rephace with yount ones. He has 6 head of horsis and iu sheep. Ifis average cut of hay is one ton peracre. Ai a rale he grows enough hay and stray to iecd his catile in winters. His cows are fed hay and stan daily in winter, and stabled at night without bedding. In the fall they are fed oats in the stanw until Ist December, when they are all put dry. He feeds some bran in spring, but neither roots nor grain. He keeps in sum:mer tw, hired men and one female servant. His far:n is conomically managed, and he is reported to be making money.

Tmproved Stock Bremders. - Very little attention has as yet been given to what is called the improved breeds of cattle; more or less there has been a certain amount of prejudice against them. It secus diffieult to give the objections to their introduction a tangible form. The prevailing ideas is that they consume too mucis food in winter. In other words we are disippointed to find thi.t they will not live on air, and to observe that in this respect they are no better than our native cattle. J. W. Rose was the fir:t, many years ago, to introduce Durham and Ayrshire oreeds of catile. On leaving, his stock became scattered through the country, but being, in most cases, subjected to doubtful treatment they were pronounced iuferior to the natives. It is our firm opinion howerer, that the opinion is croacons.

Mr. Silliot, of Matilda, has some anced stock, and kecp; them well; he commeneed by purchasing some high priced animals from the late Ralph Wade, of Cobourg, in 1855. Since then he has rais d smme choice stock. TVe submit the result of his obsesvations and experienee in this mater:He conccires the mnst desirable breed of cattle for this cruntry to be a eress between Durham and Ayshire, and the next bet to that, l/urham crossed with native. With nothing more than fiar treatment, they thrive with hum cyually well with the native brecers, far cae:lling them as mibkers, and whea fat will readily bring double the priee as heef. .Fe finds the yiekd of milk from a hadr Durhrom, yuarter Ayrehire, and quarter native cow to be $2 \overline{2}$ guarts per day for three months after calving. is steer is mouths old was
lilled by him in December 1859, whi: no time no.s stall fed, had only ther the common pasture, rendered scanty? exieedingly dry summer, the four gu: weig! ed ju0 lbs., worth 4 ecots per ib hide and tallew 160 lbs. more at $S$ : yield ung SS for a yearling steer. Ha not believe in high feeding, but take: cular care of his calves by giving them of such grood homely farc as every? can commad, a wam stable in colda and a comfortable bed to lic upon. first year, he suys, forms the charictor beast. It is ir e they refuse to lire nothing, but with ordimary attention: no trouble in raising them. He ce: that the cattle of the county, as as rule, are woll summercd and badly wit
Sireer.-Much inprovement has years been manifested in regard to The most desirab'e breed for the ee thought $t$, be a cross between the le and Cherior, combining the prope: superior mutton, heary fleces of mos fine wool, with a healihy constitution ratives are more casily imarinedt seribed; they lave not a crod poim can lay hodd of: lour neckes, Jong! light flecees, restle:s and roving in t. positions, they will bound over the fences. It is from this cause that the ringleaders of cvery ficek shac: with a bell strapped round their nect is humane in comparison with the farmers of Cacouna, who deliberatels hoofs of their slicep off to the at lave them to hobble in agony Eners.

Pres.-We are more happy in $j$ in sheep; the smail Berkshire, " when diessed, about $3!0 \mathrm{lbs}$., is th: ultre of pork, ensily fed, comes maturity, and wher placed on the unsurpassed.

Inomes - In thes: thare is gr for improvenent. The bred ise ins in size ant symmety. There good entire honse in the combty. cattle, so with herves, a strong prejudice has hitherto cxisted auni horses. An imported Clydesdale, and exeellent speciunen of the brec trodured some eight yeas aso. regarded as an innocntion, and not appreciated he was withdrawn near Ultana for sloon eash; pr sum he cest as a two year ohd hai
harl of Montreal from Rutherglen, nu. The scanty stock which he left comoty are now the very best horses re, and can searcely be bought for love ney. The much allied of "horse of $\therefore$ " we estecm $t$, be a manifest popoInsian. The fast man must still drive A horse, the working man his torkire. When a heavy load is to be 1 from an ugly place the $0-40$ animal it do. The horse of all wook is well I for a light harrow or for scarifying irface with a light plough, but th heavy land with a grood deep furrow it heavier metal.
Revtring hand.-We may state the eannual rental of fair farmes in the to be $\$ 1.50$ per acre inciuding pasteadow, and tillage. Farms are fie, let from year to ycar. To a certain this betokens a mutual distrust belandlord and tenant, and is cunsea barrier to any permanent improveflands so let. As the great bulk of iers are their own lamdlords it is unry here to refer to the numerous disges to the landlord, tenant, and the luced by the short sighted policy of ases.
ing Land on Simares.-A differhod of letting land has, during the i years been more generally adopted. rto the share system, which operates ways. 1st. The tenant finds all his wlements, stock and sced, and yic!ds lurd one-third of the gross produce and, including hay and straw. End. ant finds his own implements and id ore half of the seed, and yields lind one-half of the produce. Or, The landlord finds all the implements, horses and secd, and receives twof the gross produce. The second $\therefore$ most cummonly adopted, and is he dernier revort of what Mr. Inugan as the would be gentleman fumer. nit the following cexemplificat:on of :- A farner whom we shall style archased a farm of 500 acres, wherecre cleared, and for 10 years prosecalling with energy and assiduity. uel the best stock within his reach, mplements to be had in the cyuntry, the lest laberers at the hịherst derected buildings in every respect and comvenient for comducting a drantane. It the cond of 10 years
there was but one triffing desideratum: he could not exhibit a balance sheet; in other words it didn't pay. In this respect alone he resembled immortal Mechi of Tiptree Mall, at the end of his 10 years probation, with this difference however, that he failed in securing for himself a name, which was profitably turned to account by Mechi in vending razor strops at No. 244 , and 45 Leadenha! Street, London. Discouraged, but not in despair, his farm is now managed on the shares system, and the following are the figmes for 1859 , an unfavourable year on accuunt of long cun inued druath, severe potato rut and frost blighted com. Hay averaged 1 ton per acre, valued at $\$ 14$. Wheat 15 bushels per acre at $\$ 1.10$. Oats :35 bushels per acre at 35 cents. Buckwheat 29 per acre at 40 cents. The following is his rotations of crops: 1st. Summer fallow, or heed crops, manured. 2d. Wheat or barley, sceded with timothy, 1 peck, and 5 lbs. clover. 3rd. Mcadow cut 3 years, with half barrel of plaster the third year. 4th. Oats or peas followed by green crop manured. Of 250 acres, 56 were let for $\$ 75$ or $\$ 1.35$ per acre. 194 acres let on shares which yielded a clear rental of $\$ \$ .90$ per acre. Orchard and half of pasture retained by laudlord.
By his share of produce............ \$940 04
"Rent from other portions, houses, \&c.

13000
" Jive Stock sold, wool, \&c...... 29600
" Rental of house and garden, (cost £2000)

36000
$\$ 173104$
Expenditure for seed, \&e........... 130 -80
Net return...................... $\$ 160024$
Cas̀h value of farm say $\$ 16,000$ - Interest 10 per cent per annum.

If these examples are of any service in describing our system of farming, we can rouch for the correctness of the statements produced. The first and last are the nearest approach that we can give to any system he:e. The other two are as yet the excep tion. Underdraining is much nceded here, and little practised; like other improvements it only wants a beginuing, and were a few of our good practical farmers to try the experiment of thorough tile draining, we have no doubt but that it would soon become general. Perhaps one of the greatest errors in our system consists in kecping more stook than we have sufficient food for, the result is
that the straw, instead of being made into manure, is nearly all caten up, and there being mo facilities for puıchasing manure it becomes a difficult matter to keep the land in a productive state, and it has beeome a scrious question amongst scientific and intelligent firmers whether, esen with the very best management, the crdinary resources of an ordinary farm are capable of maintaining the tertility of evely purion of it.

The hoise hay rate has long been in general use ; the American style upon wheels four feet high seems to preponderate. Reaping machines have been introduced and are successtully worked.

In view of our present fincilitics for suceesslully prosecuting agiculture, and the rery general indication of intelligese and improiement every where observable, we eontidently anticipate that the next tea jears will exhibit a pregress far beyond anything that we have hitherto witnessed in this country.

Oe Labormans.- The serater patt of the habour of the fam is performed by the farmer himself, his sons and daughters, the former manasioy all the wednoss onerations, aud the iatter the dairy and domestic departne:ats. Irercin indecd lies all the secret of his stecess. Whaterer qualificitious the fimmer should hare, mentel or physicai, ail are agreed on this one pointthat a grod wite is indispensuble, and what it is the am of the husband to accumulate. it becones the province of his wife to manage, and whenerer we hear of : managing wife, we are nime to find a monry makiug farmer; and vice reran.

The average or our iams are 700 aces cach, with from 50 to 70 acres cleared, twothirds of which may be in pasture and meadow, the remainterin tillage. The demand for labor is therefue limited, and the supply equal to the demand. In 1552 , there were is the conaty 125 labrers. $7: 3$ male and 74 female scruabt-, while at the same time there were lofy farmens; thee-fourths of the female servants are cmployed by other than farmers, so that nut more than 18 firmers' wives requivel hiren? help. Whe usual rate of wage tow haborers in the county is :rma Sl0 tw $\$ 7:=$ per momh, for the summer, $s s$ io $\$ 10$ for the year round, 57 to $\$ 9$ for the winter. Daily laborers in sumner receive from 50 ets. to $\$ 1$; in winter 50 cis, and expert cradlers cern their 8104 per diy, all boarded. Latbarers
are chiefly inmigrants, Irish, German, few Scotch. They seldom continue. vice longer than four years. If duikg time they are industrious and econ: they have laid up enough to stock: farm, 1 cmaining as temants a fen They meantime look for a desirable farm that they may call their own, soon as a suitable one turns up and is muster $\$ 100$ as a first payment, the tre talses place, the log shanty is crected, labours of the early settler are reet with this difference, that the modem woodsman is surrounded with to? civilizatior, in roads, markets, and which far more than compensate : difference betreca paying $\$ 100$ for and receiving it as a gift from the 75 years ago. Mechanics are well there are enough of them. Carpenter smiths, masons and bricklayers rece $\$ 1$ to $\$ 150$ per day, with board.
we had 76 carpenters and joiners masons; with regard to blacksmi bricklayers the census is silent; the from Lower Cimada are in this resp corict.

Aomiculitural Impiements.plements of the county are keep with ather improvements. The fi. ble thrashing machine was intra years ago. It was one of the An hore power thrashers, without any whaterer. The thole power wals in turning the eylinder of 2 feet di ain enormous velocity of 1500 revo a minute, (the maximum speed of 3 feet in diametcr, of the best Br is 400 ). It literally devoured th required 10 to 12 hands to attens and deft the barn in a woeful state sion. If kept on full speed for il would thrash 500 bushels of "1 short it was quite in adrince of th was soon supereded by one of a bler pretensioms, drive: by the platform liore power, a lanke About $18 \pm 0$ the first teadmill, called, was here introduced.

In Jsis? there were 10 reapins and $\because 00$ thewhing machines in: the latier chiefiy of Paige's and make, Slontreal. Cas'l pruec deli £jo. They are very compact, d effective mills, with separator a mill combinul, and will thrash upon an average 60 and from
col wheat per day, and from 150 to ante, "c ording to quality. Circular ounted on a frame ready for work, \$89) are mach ased; they are driven sme howe power pliced at a lower an, and will cut 30 cords casily in a th 4 wi 5 men io assist.
loughs we have an endless varicty. at is undoubtediy the Scotch plough, dil there are not over a doren in the
The nearest approach to that and unt'y the next best that we know of, made by James Millar \& Co in Mor4, which they sell eomplete for $\$ 8$. twoth dianond scateh harrow, coveret, is fast superseding all others on ad and is the best. No grubbers are the e unty, and sab-soil ploughs re'y. Cultivators worked betireen f corn and potatocs are conmonly Turnips, earrots and mangels are "sively grown, and are sown by thave no machines for drilling in or broadcast sowims machines; the sering a space of 16 feet, the width lye , would be a valuable acquisition. rollers are used to some extent. very perishable, and cast iron ones
Two horse lumber waggous costcach, are used to transport all the ties of the farm. Carts are consi-ne-horse affair, and are not much ey are mode with wooden axle trecs ami upwads. The price of a grood cish with box complete and painted lixcellent fanning mills aie made hure by MeKenzie, at the prite of and are largely cxported to adjaits.
mbrace the principal implements : they are all of Camadian manuid with the exception of a sowing be are not aware that any others sat requirel.
 io with the means at our disposal wite ct statement of the agrieultus of the county for the year 1859. - figreses we misht present would a only an aprosimation, and 1to state nothing here that we y substaniate, we prefer to go rs and give the products of 1852, misiug that the figures fall immeath of what will be cxhibited by hing census of 1861 . What we however will serve to how the
proportion of different grains cultivated and the average per acre.

| Agnemitmal Proncers of Dermas, from Censes of 1852. |  |  |  |
| :---: | :---: | :---: | :---: |
| ghans. | acres. | nusmels. | Average. |
| - Wherat. | 7,308 | 111,979 | $1520-60$ |
| , Bap, ey | 930 | 21,432 | 23 |
| Pu | 52:5 | 9,329 | 17 A |
| P ns. | 1,938 | 32,863 | 17 |
| - Oats. | 6, 6154 | 155,381 | 233 |
| Bucknheat | 833 | 16,321 | 20 |
| Putatos | 1,435 | 90,877 | 63 |
| Corn. | 1,003 | 22,109 | 22 |
| Turnips. |  | 2,396 | 76 |
| Carrots. |  | 2,133 |  |
| Manrel Wu |  | 3,911 |  |

Wool. ....... Ibs. 50,404 3 ${ }^{2}$ Ibs. per ficeec.
Putter....... " 358,483 jer cow 66 lbs.
Cheesc....... " 15,915 " 3 :"

Manle Sugar.. " 36,850
Itay... . . . tons. 14,385 aeres not stated.
Horses. . . . . . . . . 3,8 , 83
Cows.............. 5, 554
Shecp. ............ 15,293
Pigs. . . . . . . . . . . . 6,740
Commence.-The total value of grods sol:l in the county in 1859, is as follows:
Turnship of Williamsburgh...... $\$ 15(1,000$
" "Winchester.......... 75.000
: " Matulda............... 76,500
" $:$ Mountain............. 18,500
Total amount paid by farmers for grods.
\$:30,300
There are in the county 2,666 families who thus tax thenselves the sum of $\$ 120$ each per :nnum for store goods.

There are 30 shops and storesin Williamsburgh, 24 in Matiha, 11 in Winchester, 7 in Mocutain, in all 5 .

Traders sell :t an average adrance of 95 per cent. far cash.
[The report here gives a series of tables of expor:s, for which we have not space. The following is the summery:]
Willamsbureh and Winches-
ter exported
$\$ 139,76029$
Matilda and Mountaia ". 98.58596
Thetal expart of county, 186マ. . 8238,64625
" imports " $" 320,30000$
Excess of imports orer exports $\$ 81,65375$
The deficiency of cerports to pay for imports is awcounted fur by a large propurtion of produce soid by merehants io labiress in
aThero is a slight variation in the wabler and absaract
retums of these in ceus.
the county, and by a considerable amount taken out of the county by private partics.

Cesroms, 1859.-Value of goods exported to United States and passed the customs, travellere, carriages, \&e. exclusive
$\$ 40,189$
Value free goods imported from United States

24,901
Value duty paying goods............ 6;399
'lotal imports from U. S.... $\$ 31,300$ Free goods are those importcd under the Reciprocity 'Jreaty, two-thirds of which are composed of travellers' horses, \&c., settlers' goods, die. de.

Freight forwarded by Grand Trunk 12. R. Co., 1850 , from the county, 2,202 tons.

Manufactures.--The following mills and manufactories in the county, 18059 :

Grist Mills, 8 ; No. Run of Stones, 19 ; Saw Mills, 26 ; Number of Saws, 43 ; Carding Mills, 4 ; 'famneries, S ; Carriage Factories, 4 ; Foundries, 1; Chair Pactories, 3; Stave Factories, 2 ; Lock Gate Factories, 1 ; Fanning Mill Factorics, 1; 'lotal by power, 42; Total by watcr, 31 ; by Steam, 11.

These mills and factories work chiefly for the home market, and their exports are included in the general exports of the county. Grist mills grind on an average 6 bushels wheat per hour cach run of stones. Sav mills cut per day 2,500 fect cach saw while workisg. Carriage factories turn out annually 38 buggies at $\$ 00,70$ cutters $\$ 32$, 30 wagrons at $\$ 70$. The stcam-stave cutter cuts 10,000 per day, or 60 to 70 per minute while working, has a 2.5 horse engine which runs on refuse shavings alone, and curploys 10 hands; staves cut by circular saws are a trific more valuable, and are turned out 7 to 8 per minute.

The famning mill factory has an engine 8 horse power, runs on shavings, employs six hands at $\$ 1$ per day and turns out 250 mills per year at $\$ 2+$ each, 200 of these are sent to Montreal, Ottawa and Glengarry. The foundry casts 65 tous metal ammally, and turns out 400 ploughs at $S S$, and 75 stoves at \$20, besides other castings.

The lock-gate factory cmploys 12 hands, and turus out 7 pair lock gates at $\$ 3,000$ per pair.

A first-class grist-mill of stone ou brick, With flume complete costs $\$ 3,500$ to $\$ 4,000$ per ruu of stones. First class saw mill complete, except the dam, costs $\$ 1,000$ to $\$ 1$,

500 per saw. First class high pressure; engine, except the building, costs ivil horse power delivered here. A welle farm house 26 by 36, with kitchen, 4 by $24,1 \frac{1}{2}$ story, with cellar complete, $\$ 1,600$. $A$ barn costs $\$ 4$ per foot in: Board fence with cedar posts sunk 4 f a straight well-built cedar fence costi $\}$ rod. Bricks $\$ \pm$ per thousand at t : Stone $\$ 1.50$ per cord at the quarry. 15 cents per bushel at the kiln.

Socrai Aspect.-Under this he shall endeavour to present a brief owi the manners and customs of our pes the present day; their position in res legal, municipal and educational instit the different public societies to be among them, and the public burdens

Mr. IIogan, * in his admirable prit of 1855, speaking of the farmer of Canada, describes us so truly that mercly to quote his words:-"The of Upper Canada has plenty, and he it. A large proporticin of the peop the same table with their servant: borers."

There is found to be a mutual det between master and servant, whi pletely removes the distinctions su in older countries betwixt theser: As a result of this, the man who is to place his servants upon terms of with himself is never at a loss fort: his work is well and cheerfully pe while on the other hand, those com: the old country and who reel dispo were to stand upon their dignity, less, experience great difficulty in with suitable screants, and it is : case that servants remain long ine: "As a general rule, the gentlemar or rather the gentleman who would farmer, because he rould not: value of labour, has lamentably fai gentleman however, who is willire off his coat, and as the Yankee observes, to march forward to the his own axe, may be certain of ple leaving his children well off.": Scotchman who raised himself fro ploughman to affluence, forcibly "Na, na, there's nac gentleme country," and we belicve there is! than poctry in the assertion, whils

[^0]tof Burns, at once poctic and true, find tho in each of our sturdy farmers:
That tho' on homely fare we dine, llear hodden gray an' a' that, iefools their silks and knaves their wine, Aman's a man for a' that."
he patristic Canadian this state of socicrather pleasing than otherwise. It bea fiendly and harmonious fceling, and es a spirit of independence and enteramongst all classes,-honesty, indusdd intelligence never fail to be recosin whatever station the man is found. unfrequently those who are learned in ture and law have to chew the bitter of disappoivtment, and in aspiring to ons of elective distinction, have to aub to the practical farmer or the inious mechanic, whose accomplishments momed up in the une comprehensive plain common sense.
a class, our farmers are persevering than cuterprising, slow to comprohemselves by word or deed, but honest ir transactions; the faculty of accumg property is fully developed; ucver of money, they are yearly surrounding thes with all the neccssaries, and most comforts of lite ; the home spun hodar: manufactured in whole or in part farmer's family, forms his daily dress, we finer fubrics of Scotch treed and in broadcloth supply them with a suit udays. The wives and daughters of mers are neat and tidy in their perugal and industrious in their habits, tslow to bear a hand when help is in the barn or in the field. And attired for "meeting," even Broadeff camnot preseat a more claborate wh of houp and crinoline, with all the and fashionable embellishaents. If wer is blessed with a faurily of sons, more than one or two remain at fer recciving as rood an education ounty affords. The rest branch out ent ways to push their fortunes.pend a few years as Common School , and therearter engage in any other native employment that may offer. momber have found empluyment, tremuncration, in the managensent ss, steamers and telegraph; some died medicine at Toronto avd MLondy a vexy few have turned their to law, they are rarely iound becomenter, while divinity appears to
possess no attraction whatever, at least we are not aware of any such students natives of the county. This is certainly a matter of regret, and must be regarded either as an indication that the olfice of the ministry is not appreciated and supported among us as it ought to be, or that the principles of selfdenying Chistiunity are still latent here.
love of home is a prominent trait in the character of the young men of Dundas, hence very fer have been tempted to the guld digyiugs of Australia or California, while the greater part of those who leave the paternal roof ever cherish the hope of retuming at some future time to abide in their native country.

Municipar-In 1800, we find from an old collector's roll that a uniform rate of assessment was imposed upon each frecholder of 2 s . Gd. for cach 100 acres occupied by him, 2 s. if under 00 acres, and ls. for a householder.

In 1832 the assessment for the Eastern District purposes was at the rate of 1 d . in the pound, and the amount raised was $\$ 7,080$.

In 1858 the total assessment of Dundas for county and township purposes, was at the rate of 2 cts. in the pound, and the amount raised was $\$ 10,000$.

Williamsburgh expends yearly in roads $\$ 2,000$, and Matilda $\$ 1,600$, exclusive of Clergy lieserve appropriations. The total amount received from this fund in 4 years ending 1850, was $\$ 5,57719 \mathrm{~s}$. Sd. the whole of which was also expended on roads.

The number of brick and stone buildings in the Whole Jastern District in 1832, was 36 , and in 1559 the number in Dundas was 109, in Stormont 96, and in Glengarry i9, total 264. Next census will find Dundas at least trebled.
[Some statistics in regard to educational and other matters are here unavoidably omitted. The facilities for obtaining a grammar or Common School education are shown to be good, and at a moderate cost.]

Agmoultural Societies.-The first Agricultural Society in the county was established in the year 1830. In February, 1853, a society was orgrinized under the Act of 1852 , and has continued in existence from that time, with sowe slight modifications in the constitutio: under the Aet of 1857.

It affords us pleasure to testify to the steadily increasing cfficiency and usefulness
of the County Society as now organized. Alhhough rill very far from the position we should like to see it attain. cach successive anmal exhibition marts improwent in some argiculam? icature or other. At the last show :seld in Octuber, 1850, the improver cat in bemodeatile was very dicided, some fin spentinens were exhibit d of well bred 3urhams. In sherep there was also an inporoment, and a se dy morict for all that could be spued wes found upos the spot. Horese, hoverir, were interiar in quality to firmer exhintion:. Ilaere was an excelleat display or butter, withe the grain and repetables wre very reditable The number if speetatos was keyom? frmer years, civing sympons of inercesiny intene-t.
[We heee omit: a latere portion of the report relati:s to the denominational religious justitutions of the County.]

Puberc Bumbens-Aesessed and Vol-untary.-.The Municipal assessed taxes come to 2e. in the St ; addition:l school tax, 12c. in $\$ 4$; wolantary religijus tax, 1 12c. in \$4; total tax for School, Church, and State, 5 c . in 84 ; or at the rate of $1 \frac{1}{2} \mathrm{per}$ ce. t. on the value of property. E. g.-A farmer who owns 100 acres of land, which with his personal property is valued at E2,000, would pay municipal taxes, $\$ 10$; school tax. $\div 7.50$; for religion (if he paid his share) $\$ 7.50$; in all $\$ 25$ por annum. The storekerporse' 1 ax amounts to 64 cent: in S.t, or at the rate of 16 per cont, annamlly on the value of property.

Concrusign.-We believe there is no such thing as sublunary perfection, and erea though there were, we should be very far from claining it for the County of Bundas.

We have endeavored to give :n outhine of its featurce in diffrent lights, not as they ought to be, but :as they really are, and we are fully assured that in every light in: which it can be viewed, theme is abundant rom for jarrorement.

We should like to eempare statisties vith any other county of similar prpulation, in order thet from then we might learn wherein we are most reficiont. In prosecating cur enquiries, ranows improwements and amendments have eme uader motice, and we emchade this Report by here submitting a few of them.

As fammers we have much yet to do and to leam before we reap the full beneft of the healthy climate, moderately fertile soil, and
other physieal advantages which a bote Pruvidence has conferred upon the fer of Dundas.

Were lass attention manifested to itt ing the extent of our farms and the ner of (an stock, and more to thoroughlys rat ing the former and taking good $t$ the latier, we should not onl, siecurear inercased revenue fiom our fams, $b$ shanhl do this at great deal more nis ouss:lver, and at a mueh less expendir labur, \&c.

We have yet to leara the fundament the most impatant of all improvemeat neced with farming: thorough under ing. The naturally level nature of ours particalarly calls fior it. Did it pas other way it certainly would lengli: tiase for performing arricultural ope at leattwo weces liter in fall, and th carlier in spring; and where our seas so short, ceen a few dans becomeo importance. Many of our richest lan not be touched (becsuse damp) untilt of May; if drained, we should har disposed ot by the first of May.

We would strungly recommend th ers of Dundas to improve their breed tle. This might be done accordine means within their reach; our of that the cross betreen Durham and: is peculiarly suitable for cur parpos.

The sooner we improve our breed ses the beteer it will be for us worth of the lest ane annually sold, shall s son have netiong left but the

As a community, too much atten. not be given to the implovement e Much of the statute labor of the ( l-st, from want of proper managem.

Agricultural seieties should liold mectmgs, especially in winter, for press 管值pose of muntally recciving partin:- useful information. The dicun Ayriemtarist" should be in ev: r's hand.

Hac! County Agricu!tural Socic devote yearly a portion of its fun portiag improved breces of horses, -hece, and thus place these within every momber of the socicty.

We believe that the source of: linquencies and deficiencirs is to be one of two prominent traits: first. money, and secondly the love of The inordinate love of money ri natural course of erents, work its
men rifl discorer that moncy in itself, an ralue further than the amount of 'which by its agency it enables tlem to aplish. Rven now we find enterprising g timers, wisoly expeeding the aceuted dolliers of their fithers in permaIr imporing their fams. While thus fiting themselves they be ome pubiie fintess: ana the habit acruired will topat cur own door, but will lead us on e path of philanthropy.
arould very respectfully suggest to the dof Acriculture, that a tase for circuinuight be imparted to the farmers of un, it the serviess of some din:!y qualificd a of prectical experience were directed : the auspices of your howrd to ediver as one tecture batone cemed lounty if in Upper Canada, :cemamied with wo of the tiec aurl draiuiug twols; outirmation in sesp:ct to the rost of age of tiles, amd of ionls, and if need tims urides fise tiles to be deivered
wouli further respeetiully shat: car tion that the sub-division of the Iegisgrime to townatip societice :s producny good, but iv cather as suandering Hic money, and threfere should be disaed. The improvemenis to agriculwich the rub'ic have a ripht to exail move natuatly flow through the Iof the foumy soricty, it esficient ae phaced at their dispual to enable
 ientife athament mang practical $\therefore$ and generely by heral peeniums and merit, an? cugender a sinit of womuation abd sutorpion sumbst $"$.

## Elitarial Nations.

watas un ravos of ame Deag of wh. Stanerica, Smamer, on Coromax in honms. By A. ©. Hope, - Comblall. Wean in mecriph di acopy ampart. It was withea on the sece-
 3. The whece of her witer is :, at or wiuntion of a socicy, or of wome or at for the propose of collecting and renahte to the inhabitants of Buyland shall inturastion in engard to the con-

of the Dapire ; a kind of information that is at present very dificult to be obtained. We should be certaing glad to see some such project carried ont. The writer is a brother of the lier. Mr. Hope, lately editor of the Old Countryman. in this sity.
 The C'onterits of this number are as follows:Natinal Defences and Volunteers; Lord Maeaulay and Dundes; The Pursuit of Tantia Toper; The Great Earthquake at Lisbon; Nornan sinclair, an Autobiegraphr, part VII; Wyeliair and the Hugucnots; Domine, Quo Vadis? The Tasisition State of our Indian Empire.
Ail the Reviews and Blachwool's jagazin, zaa; ha obtainel at I. Rowsel!'s, Toronto.

Damina List, Califoraia State Agricultarus Society. We have to thank (). C. Wheeler, Esq., Secretary of the Societs, for copies of this hist. The exhibition is to take plase on the 10 th to 26th September at Sacramento. The Califormia Society appears to be fluurishing, and exerting itself to improve the Agricultural amd In. dustrial pursuats of the State.

The Lomon Quatbay Revem por Junc. -The following is an alstract of the Contents of the present number: I. The Missing Link and the Y.ondon P?oor; II. Joseph Scaliger; III. Workmen's Earuiags nad Savings; IV. The Cave and South Africa; V. Ary Behetier; TI. Stonehenge; VII. Darwin's Origin of Species; :'IIl. The Conservative Reaction. The character of this lieviciv is so weel understood that it is almost amnecessary to say a word in its favor. Some of the articles in the present number will bfound especially interestiars, not only to the poditician and the grave philosopher, bat to every reader of cultivated taste, feminine or masciiine. We hope to see these valuable reppublica. toms atain at :argely increased circulation in this Province and dispiare much of the worthless wiblob wader the mane of light literatur now onered to the ;ablic.
This number commences a volume. Price of one leverew, sa a year. Price of the four Reviews, $\mathrm{E}^{\circ}$. "Bhedront" and the four Reverws. $\$ 10$.

Tenshethoss of the Ne: Yobk State Agricertran, Socmety for 15 sis . We are indebted to the politeness of the Secmetary, B. P. Johnson, Estr., Alibeny, for a col? of this volume. It contains, as usabl, a large amomnt of valuable and interestins matter, some of which we shall be glad to le able to notice more fully on a future occasion.

Wisconsm Stary: Suow.-We have received Prize List. A.c., of the Temth Ammal Exhihition of the Wisconsia State Agriciatural Society, which is to be held at the city of Madison, on the 24 th to $29 t h$ inst. Wise misin is making sery rapid progress in Arsiculture ; the scenery in the vieitnity of the Show grounds is beautiful; and we may safely promise any of our readess who may find it convenient to visit that part of the world, an interesting exhibition and a cordial welcome from the viliers and members of the Society.

In common engineerins practice, the combustion of a pound of coal imparts to the water in a steam boiler about 10,000 units of heat, which is equal to the evaporation of 8 lbs. of water of ordinary temperature. In the laboratory 14 lbs . of water have been ecaporated with one pound of coai.

The population of the worid is now estimated at $1,279,000,000$, viz.: Asia, $755,000,000$; Europe, $272,000,000$; Africa, $200,000,000$; America, $50,000,000 ;$ Australia, $2,000,000$.

## flaukets.

## TORONTO MARKETS.

## Wednesday, Aug. 29, 1560.

The supply to-day was about the same as yesterday. The quality of the Fail whent is getting better every day-very much improved. One load to-day brought $\$ 127$ per hushel; several loads brought $\$ 125$, and the average of the entire sales was about \$1 23. The range for a prime article was from $\$ 115$ to $\$ 1 \geqslant 5$; and for common to fair $\$ 108$ to $\$ 114$. On the Grand Trunk R. R. good Fall wheat $=\mathrm{l}$ is at from $\$ 117$ to $\$ 120$ per bushel. Spring wheat is stiil poorly supplied. There were unly a few load; on marlet to-day, which brought fom $\$ 10.510 \$ 110$ per bushel. Of barley about 750 bushels realized from 62 to 66 c ; the areage being 6.tc. Oats are in small supply at from 30 to 32 c per bushel. Peas also in smell ofteing; one load sold at 60c per bushel. Flou-there is still little doing, and quotations are as follows:-No. 1 Superfine, $\$ 515$ to $\$ 520$; Fancs $\$ 530$ to $\$ 540$; Extra $\$ 5$ 55 to $\$ 585$; Bxtra Super:or $\$ 0$ to $\$ 630$ per brl. Hay $\$ 9$ to $\$ 14$ per ton. Steaw $\& 5$ to $\$ 7$ per ton.

## PROVINCIAL EXHIBITIO

TO HE HEi.1) AT

## EEAMNKI工,TDON,

ON THE
Ietza, 工oth, 20tIa \& SEPTEMBER, 1860.

Entrics of articles for Exhibition, exis: Horticuitural Products, Ladies' Work ari cign Products, must be forwarded to the: tary's Office, Toronto, on or before Septy Ist.

Horticultural Products, \&c., may be e: till the evening of Mondas, 17th, we: books will be eloseci.
Entrics, as above stated, will be seceit Toronto, tiil the evening of Friday, Sep: 1.4th, and afterwards at Hamilton.

Prize Lists amu Printed forms of Entn taining full info:mation, may be obtained Secretaries of Agricultural Societies, or: nies' Institutes, throurhout the Proviuce
Articles for Exhibition must be placed Crystal Palace, or on the Grounds, on y 17 th, except live Stock, which must t : not later than Tuesday, at noon.
Exhibitors must themselves provide: forwarding of their articles, and placir! in the grounds.

HUGH C. THONS
Secretary Board of Agrin Board of Agriculture Office,

Toronto, August 24, 1860.
Ayashire Catrle -Patrick R. Wrigh Cobourg, C. W., breeder of Ayrshire Sheep, sc., has several young Bulls and for sale. His herd is well known as of best in Canadia West, and his terms of liberal.

Full Pedigree of all animals-U. a Register.

## $\mathbb{C}$ Se $\operatorname{Agriculturist,~}$

Or Jocriah and Trassactrons of te of Aomculture of Upper Caxa:
IS pullished in Toronte on the lst and lis 1 month.
Subscription-Mulf a dollar per :anuum for $\underset{\text { c }}{ }$ Wheven colies for Five Dullars; Twonts-two eq. Dollars, sc.
Editors-Pmfessor buckland, of Universitys ronto, and In;h C. Tho'ncon. Secretary of the di culture. Toronto, to whom all orders and res to be seddressed.
ratied by Thompson \& Co., it King, Stra Teronto.

[^1]
[^0]:    * This was writien befure Mr. Hegs. disa:pearance had begun to excite:

[^1]:    [1F" Aot belug now abie to supply the fis bery of the current volune. the subscriptios "Agriculturist" irum 1.jth May to tho ondwill bo 30 cents per copy., with bonus at : as prevonsly, viz: one addutional cony with ere and prid for in advance.
    For the half year commencing lat July the pr echts Nine enpies for $\$ 2$.

